

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: P417445

Luminaire Tested: **SMD6S129SWHE - 4000K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2008665A001)
Test Lab:
Issue Date: 11/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6S129SWHE - 4000K
Description: SMD SELECTABLE CCT 4000K
Light Source: SELECTABLE CCT LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1364.9 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

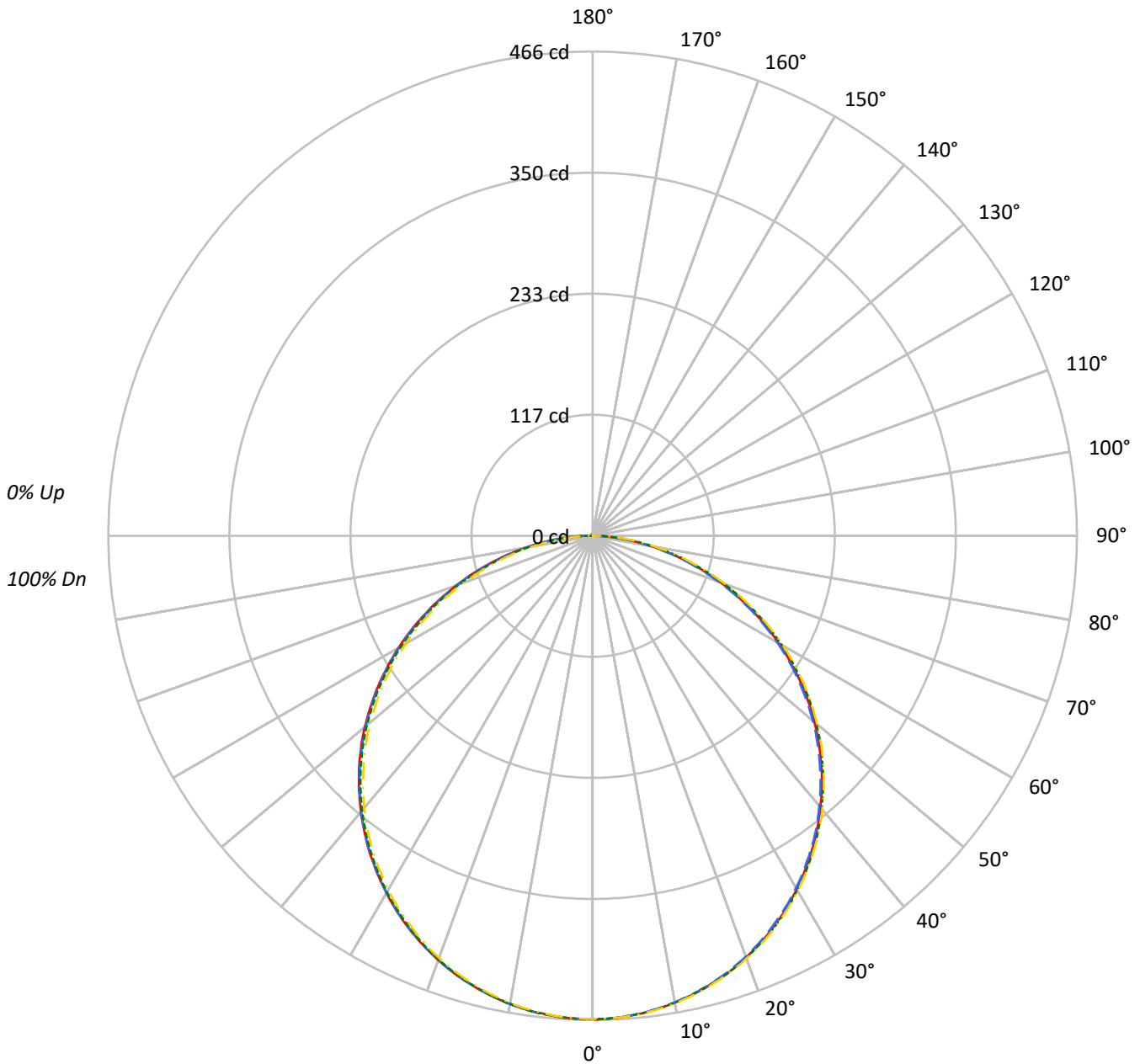
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57																			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20025	20025	20025	20025
5°	20007	20007	20028	20028
10°	19949	19945	20002	19997
15°	19876	19867	19965	19952
20°	19789	19803	19913	19876
25°	19673	19711	19839	19777
30°	19524	19588	19737	19668
35°	19353	19432	19626	19548
40°	19172	19262	19498	19391
45°	18943	19059	19357	19205
50°	18655	18809	19170	18983
55°	18278	18504	18894	18691
60°	17816	18092	18566	18290
65°	17217	17543	18124	17768
70°	16466	16818	17586	17158
75°	15471	15937	16902	16286
80°	14083	14778	16191	15224
85°	11906	13536	15907	13980



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	3.2
10°-20°	126.1	9.2
20°-30°	191.4	14.0
30°-40°	231.7	17.0
40°-50°	241.8	17.7
50°-60°	220.5	16.2
60°-70°	170.7	12.5
70°-80°	102.0	7.5
80°-90°	31.3	2.3
90°-100°	0.6	0.0
100°-110°	0.5	0.0
110°-120°	0.8	0.1
120°-130°	0.9	0.1
130°-140°	0.8	0.1
140°-150°	0.7	0.1
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	361.5	26.5
0°-40°	593.2	43.5
0°-60°	1055.5	77.3
0°-90°	1359.5	99.6
90°-120°	1.9	0.1
90°-150°	4.3	0.3
90°-180°	5.0	0.4
0°-180°	1364.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	465	465	465	465	465	
5°	463	463	463	463	463	44
15°	446	446	448	448	446	126
25°	414	415	418	416	414	191
35°	368	370	373	372	368	230
45°	311	313	318	315	311	240
55°	244	246	252	249	244	218
65°	169	172	178	174	169	167
75°	93	96	102	98	93	98
85°	24	27	32	28	24	26
90°	1	1	5	1	1	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	1
115°	1	1	0	1	1	1
125°	1	1	1	1	1	1
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	1
165°	1	2	2	1	1	0
175°	2	2	2	1	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	465.1	465.1	465.1	465.1	465.1	465.1	465.1	465.1	465.1	465.1	465.1
0.5°	465.8	465.1	465.2	465.5	465.2	465.6	465.0	465.3	465.3	465.1	465.2
1°	465.2	465.1	465.1	465.4	465.1	465.6	465.0	465.4	465.2	465.4	465.2
1.5°	465.0	464.9	465.1	465.1	465.0	465.4	464.8	465.2	465.0	465.1	465.2
2°	465.0	464.9	464.9	464.8	465.0	465.2	464.8	465.0	465.0	465.2	465.0
2.5°	464.6	464.5	464.5	464.6	464.7	465.0	464.5	465.0	464.9	465.0	464.9
3°	464.4	464.3	464.2	464.5	464.3	464.7	464.4	464.8	464.7	464.8	464.8
3.5°	464.1	463.9	464.0	464.2	464.1	464.4	464.0	464.6	464.5	464.4	464.5
4°	463.8	463.6	463.5	463.8	463.7	464.0	463.9	464.4	464.2	464.3	464.2
4.5°	463.4	463.1	463.1	463.1	463.3	463.7	463.5	464.0	463.8	463.9	463.8
5°	462.9	462.9	462.8	462.7	462.9	463.2	463.1	463.6	463.4	463.7	463.3
5.5°	462.5	462.4	462.2	462.3	462.4	462.7	462.6	463.1	463.1	463.1	463.1
6°	461.9	461.9	461.7	461.9	461.8	462.2	462.2	462.6	462.4	462.8	462.6
6.5°	461.3	461.1	461.1	461.2	461.3	461.8	461.6	462.1	462.1	462.2	462.2
7°	460.8	460.6	460.4	460.8	460.6	461.3	461.2	461.6	461.5	461.9	461.8
7.5°	460.1	459.9	459.9	460.1	460.0	460.6	460.5	461.1	461.0	461.1	461.1
8°	459.4	459.2	459.1	459.4	459.4	459.9	459.8	460.3	460.3	460.6	460.5
8.5°	458.6	458.3	458.3	458.5	458.7	459.1	459.1	459.5	459.7	459.9	459.8
9°	457.9	457.6	457.6	457.8	457.8	458.5	458.4	458.9	459.0	459.1	459.1
9.5°	457.0	456.7	456.7	457.0	457.0	457.8	457.7	458.2	458.5	458.3	458.4
10°	456.3	455.7	455.9	456.1	456.2	457.0	456.9	457.5	457.5	457.8	457.8
10.5°	455.5	455.0	455.1	455.2	455.3	456.0	456.0	456.6	457.0	456.9	457.0
11°	454.6	454.1	453.9	454.3	454.4	455.1	455.1	455.8	455.9	456.2	456.2
11.5°	453.5	453.2	453.1	453.2	453.6	454.1	454.2	454.7	455.2	455.2	455.1
12°	452.6	452.1	452.1	452.3	452.5	453.3	453.3	453.7	454.2	454.4	454.3
12.5°	451.5	451.0	450.9	451.3	451.5	452.2	452.3	452.8	453.3	453.5	453.2
13°	450.5	449.9	449.9	450.2	450.3	451.3	451.2	451.9	452.1	452.4	452.2
13.5°	449.5	448.8	448.8	449.0	449.2	449.9	450.2	450.8	451.3	451.5	451.2
14°	448.4	447.5	447.5	447.7	448.1	448.9	449.1	449.8	450.2	450.4	450.2
14.5°	447.1	446.4	446.4	446.6	446.9	447.7	447.8	448.6	449.1	449.2	449.0
15°	445.9	445.1	445.2	445.3	445.7	446.6	446.6	447.3	447.9	448.1	447.8
15.5°	444.7	443.9	443.9	444.2	444.6	445.3	445.4	446.2	446.8	447.1	446.7
16°	443.5	442.8	442.6	442.8	443.4	444.3	444.2	445.0	445.5	445.7	445.6
16.5°	442.2	441.3	441.4	441.5	442.1	442.7	442.8	443.9	444.3	444.5	444.3
17°	441.1	439.9	440.0	440.3	440.9	441.7	441.6	442.6	443.2	443.2	442.9
17.5°	439.6	438.5	438.6	438.8	439.5	440.2	440.3	441.1	441.8	442.1	441.6
18°	438.1	437.2	437.1	437.4	438.1	438.9	439.0	439.7	440.4	440.4	440.3
18.5°	436.6	435.7	435.6	435.9	436.8	437.4	437.6	438.3	439.2	439.2	438.9
19°	435.0	434.2	434.1	434.4	435.2	436.0	436.2	436.9	437.6	437.6	437.4
19.5°	433.3	432.4	432.6	433.1	433.7	434.4	434.5	435.4	436.1	436.4	435.9
20°	431.9	431.0	430.9	431.4	432.2	432.9	432.9	433.9	434.6	434.7	434.5
20.5°	430.2	429.4	429.4	429.7	430.6	431.1	431.4	432.3	432.9	433.2	433.0
21°	428.6	427.7	427.7	428.0	429.0	429.7	429.9	430.7	431.4	431.5	431.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	423.3	422.5	422.3	422.9	423.9	424.3	424.7	425.7	426.4	426.5	426.2
23°	421.6	420.5	420.4	420.8	422.2	422.8	423.0	423.8	424.7	424.8	424.5
23.5°	419.8	418.5	418.8	418.9	420.6	420.8	421.2	422.2	423.0	423.0	422.6
24°	417.9	416.6	416.7	416.9	418.7	418.9	419.2	420.2	421.2	421.2	420.8
24.5°	415.9	414.8	414.7	415.1	416.8	417.1	417.3	418.5	419.5	419.3	419.1
25°	414.1	412.6	412.7	413.2	414.9	415.1	415.3	416.4	417.6	417.5	417.1
25.5°	411.9	410.6	410.7	411.3	413.1	413.2	413.5	414.6	415.8	415.6	415.3
26°	410.0	408.7	408.6	409.3	410.9	411.2	411.6	412.6	413.8	413.8	413.2
26.5°	408.0	406.9	406.7	407.4	409.0	409.1	409.6	410.6	411.9	411.6	411.3
27°	406.2	404.8	404.6	405.2	406.8	407.3	407.5	408.6	409.9	409.6	409.5
27.5°	403.9	402.7	402.6	403.3	404.9	405.1	405.5	406.7	407.9	407.7	407.4
28°	401.9	400.6	400.5	401.0	402.5	402.9	403.3	404.7	405.7	405.7	405.3
28.5°	399.5	398.4	398.2	398.8	400.6	400.5	401.4	402.4	403.6	403.7	403.3
29°	397.3	396.0	396.0	396.6	398.3	398.5	399.1	400.3	401.5	401.4	401.3
29.5°	395.0	393.9	393.7	394.4	395.9	396.2	396.9	398.0	399.3	399.2	399.0
30°	392.7	391.6	391.5	391.9	394.0	394.2	394.7	395.8	397.0	396.8	396.9
30.5°	390.5	389.3	389.1	389.8	391.8	391.8	392.4	393.6	394.7	394.7	394.5
31°	388.1	386.9	386.8	387.3	389.5	389.6	390.1	391.4	392.5	392.3	392.3
31.5°	385.7	384.6	384.4	385.1	387.1	387.3	387.8	389.0	390.2	390.1	389.8
32°	383.2	382.0	382.0	382.7	384.8	385.0	385.4	386.7	387.8	387.7	387.5
32.5°	380.8	379.7	379.5	380.4	382.3	382.5	383.1	384.3	385.6	385.4	385.2
33°	378.3	377.1	377.0	377.9	379.9	380.1	380.6	382.0	383.2	382.9	383.0
33.5°	375.8	374.6	374.4	375.4	377.3	377.5	378.2	379.5	380.7	380.5	380.4
34°	373.4	372.4	372.2	372.8	375.0	375.1	375.6	377.1	378.2	378.0	377.9
34.5°	370.9	369.7	369.4	370.4	372.4	372.8	373.3	374.6	375.9	375.7	375.5
35°	368.2	367.2	367.0	367.7	369.7	370.2	370.7	372.2	373.4	373.1	373.0
35.5°	365.8	364.6	364.3	365.2	367.1	367.8	368.2	369.7	371.0	370.7	370.6
36°	363.1	361.9	361.8	362.4	364.8	365.2	365.6	367.2	368.3	368.2	368.2
36.5°	360.5	359.3	359.0	359.7	362.3	362.4	363.1	364.4	365.8	365.7	365.4
37°	357.9	356.6	356.5	356.9	359.4	359.8	360.3	361.7	363.0	363.1	362.8
37.5°	355.1	353.9	353.6	354.3	356.7	357.2	357.8	359.0	360.6	360.5	360.1
38°	352.4	351.1	350.9	351.5	354.1	354.4	354.8	356.5	357.8	357.6	357.5
38.5°	349.5	348.4	347.9	348.7	351.2	351.6	352.2	353.7	355.2	354.9	354.7
39°	346.7	345.4	345.1	345.9	348.6	348.9	349.4	351.0	352.4	352.2	352.0
39.5°	343.9	342.7	342.2	343.2	346.0	346.1	346.6	348.2	349.7	349.4	349.3
40°	341.1	339.8	339.4	340.3	342.7	343.4	343.7	345.4	346.9	346.5	346.6
40.5°	338.1	336.8	336.6	337.4	339.9	340.3	340.9	342.5	344.0	343.5	343.5
41°	335.5	334.0	333.6	334.5	337.1	337.7	338.0	339.7	341.2	340.8	340.7
41.5°	332.5	331.1	330.5	331.6	334.2	334.8	335.2	336.7	338.6	338.2	337.6
42°	329.6	327.9	327.6	328.5	331.2	331.9	332.2	333.7	335.5	335.3	334.9
42.5°	326.6	325.0	324.6	325.7	328.4	328.7	329.3	330.7	332.8	332.3	331.9
43°	323.6	321.9	321.6	322.5	325.3	325.8	326.2	327.8	329.9	329.2	329.0
43.5°	320.3	318.8	318.4	319.4	322.3	322.7	323.2	324.8	326.8	326.4	326.0



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CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	311.1	309.3	308.9	309.9	313.0	313.5	314.0	315.7	317.9	317.1	316.8
45.5°	307.9	306.4	305.8	306.8	310.0	310.2	311.0	312.5	314.8	314.1	313.7
46°	304.7	303.0	302.6	303.6	306.8	307.1	307.8	309.4	311.8	310.9	310.6
46.5°	301.7	300.0	299.4	300.7	303.6	304.1	304.8	306.2	308.6	308.0	307.3
47°	298.4	296.6	296.3	297.3	300.5	301.0	301.7	303.2	305.5	304.8	304.3
47.5°	295.1	293.6	293.0	294.1	297.3	297.8	298.6	300.2	302.3	301.6	301.1
48°	291.9	290.2	289.8	290.9	294.2	294.6	295.1	296.9	299.3	298.5	298.0
48.5°	288.5	286.9	286.7	287.5	290.9	291.5	292.0	293.6	296.0	295.3	294.7
49°	285.3	283.5	283.3	284.3	287.4	288.1	288.4	290.4	292.8	291.9	291.6
49.5°	281.8	280.2	279.9	280.8	284.3	284.6	285.3	287.2	289.5	288.7	288.2
50°	278.5	276.9	276.4	277.4	280.8	281.3	281.9	283.9	286.2	285.5	285.0
50.5°	275.0	273.3	272.9	273.8	277.5	277.8	278.7	280.7	282.8	282.2	281.6
51°	271.7	270.0	269.5	270.5	274.1	274.5	275.2	277.3	279.4	278.8	278.2
51.5°	268.3	266.6	266.2	267.1	270.8	271.2	272.0	273.8	276.2	275.4	274.8
52°	265.0	263.2	262.8	263.7	267.5	267.8	268.6	270.5	272.7	271.9	271.4
52.5°	261.4	259.7	259.4	260.2	263.9	264.4	265.2	267.3	269.1	268.5	268.0
53°	257.8	256.2	255.8	256.7	260.5	261.0	261.7	263.8	265.8	265.2	264.8
53.5°	254.3	252.6	252.2	253.0	257.0	257.6	258.3	260.3	262.3	261.8	261.3
54°	250.6	249.1	248.7	249.5	253.4	254.0	254.8	256.7	258.8	258.2	257.7
54.5°	247.1	245.6	245.0	246.0	249.8	250.5	251.4	253.3	255.4	254.7	254.4
55°	243.5	242.0	241.6	242.4	246.5	246.9	247.9	249.7	251.7	251.2	250.8
55.5°	239.8	238.2	237.8	238.7	242.6	243.3	244.3	246.1	248.3	247.5	247.4
56°	236.2	234.7	234.3	235.1	239.2	239.8	240.8	242.5	244.6	244.1	243.8
56.5°	232.7	231.4	230.8	231.6	235.5	236.2	237.1	239.1	241.1	240.6	240.2
57°	229.1	227.5	227.2	228.0	232.1	232.7	233.6	235.4	237.3	237.0	236.5
57.5°	225.3	223.9	223.6	224.3	228.5	229.1	229.9	232.0	233.9	233.4	233.2
58°	221.7	220.3	219.8	220.5	224.9	225.4	226.5	228.3	230.2	229.8	229.4
58.5°	218.0	216.7	216.0	216.9	221.2	221.8	222.8	224.7	226.8	226.3	225.9
59°	214.4	212.9	212.5	213.2	217.5	218.0	219.1	220.9	223.0	222.7	222.1
59.5°	210.5	209.2	208.6	209.5	213.7	214.3	215.3	217.3	219.4	218.9	218.6
60°	206.9	205.4	204.9	205.7	210.1	210.6	211.6	213.5	215.6	215.2	214.8
60.5°	203.1	201.8	201.1	202.1	206.3	206.7	207.9	209.8	212.0	211.5	211.1
61°	199.5	198.0	197.5	198.2	202.6	203.1	204.1	206.0	208.3	207.8	207.3
61.5°	195.6	194.2	193.7	194.6	198.8	199.3	200.4	202.1	204.7	204.0	203.5
62°	192.0	190.4	189.9	190.8	195.2	195.8	196.7	198.4	200.9	200.4	199.8
62.5°	188.0	186.6	186.1	186.8	191.4	191.9	192.8	194.6	197.2	196.6	196.2
63°	184.3	182.8	182.3	183.2	187.5	188.1	189.1	190.8	193.2	192.7	192.3
63.5°	180.4	178.9	178.5	179.4	183.8	184.2	185.3	186.9	189.6	188.9	188.5
64°	176.7	175.1	174.8	175.6	179.8	180.5	181.4	183.1	185.7	185.2	184.7
64.5°	172.7	171.3	170.8	171.6	176.1	176.6	177.7	179.3	182.0	181.4	180.9
65°	169.0	167.5	167.1	168.1	172.2	172.8	173.9	175.5	177.9	177.5	176.9
65.5°	165.1	163.7	163.2	164.2	168.4	169.0	170.1	171.6	174.3	173.7	173.1
66°	161.4	160.0	159.5	160.5	164.4	165.1	166.2	167.8	170.4	169.7	169.3



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	150.0	148.4	148.1	149.0	153.2	153.8	154.9	156.7	159.0	158.5	157.9
68°	146.1	144.4	144.2	145.1	149.2	149.9	151.1	153.0	155.0	154.6	154.0
68.5°	142.2	140.6	140.4	141.2	145.4	146.0	147.2	149.2	151.2	150.8	150.3
69°	138.5	136.8	136.4	137.4	141.5	142.2	143.3	145.4	147.4	146.9	146.3
69.5°	134.4	133.0	132.7	133.5	137.6	138.2	139.6	141.5	143.5	143.1	142.5
70°	130.8	129.0	128.9	129.7	133.6	134.5	135.7	137.7	139.7	139.2	138.6
70.5°	127.0	125.3	124.9	126.0	130.0	130.6	132.0	134.0	135.9	135.4	134.9
71°	123.2	121.5	121.2	122.1	126.2	127.0	128.1	130.3	132.0	131.5	131.1
71.5°	119.3	117.7	117.3	118.3	122.3	123.0	124.4	126.4	128.2	127.6	127.2
72°	115.6	113.9	113.6	114.5	118.6	119.3	120.6	122.7	124.6	124.0	123.4
72.5°	111.7	110.1	109.7	110.8	114.7	115.6	116.8	118.8	120.8	120.3	119.8
73°	107.8	106.2	106.0	107.0	110.9	111.7	113.0	115.0	116.8	116.4	115.9
73.5°	104.1	102.6	102.2	103.1	107.0	107.8	109.3	111.1	113.0	112.6	112.2
74°	100.2	98.7	98.4	99.3	103.3	104.2	105.5	107.4	109.3	108.9	108.3
74.5°	96.5	95.1	94.7	95.7	99.6	100.4	101.7	103.6	105.4	105.1	104.6
75°	93.0	91.5	91.2	92.1	95.8	96.7	98.0	99.8	101.6	101.3	100.9
75.5°	89.1	87.9	87.4	88.4	92.2	93.0	94.2	96.1	97.8	97.5	97.1
76°	85.5	84.2	83.9	84.7	88.5	89.5	90.7	92.4	94.2	93.8	93.4
76.5°	81.7	80.5	80.3	81.0	84.8	85.7	86.9	88.7	90.6	90.4	89.8
77°	78.0	76.8	76.6	77.3	81.1	82.0	83.4	85.1	87.1	86.6	86.1
77.5°	74.5	73.2	73.0	73.8	77.5	78.4	79.7	81.4	83.2	83.0	82.4
78°	70.8	69.7	69.5	70.1	73.9	74.9	76.1	77.8	79.5	79.3	78.8
78.5°	67.2	66.2	66.0	66.7	70.1	71.2	72.4	74.2	76.1	75.7	75.1
79°	63.7	62.7	62.5	63.2	66.7	67.5	68.9	70.6	72.3	72.1	71.6
79.5°	60.3	59.2	59.0	59.8	63.1	64.1	65.3	67.0	68.7	68.5	68.0
80°	56.8	55.8	55.8	56.4	59.6	60.5	61.8	63.6	65.3	64.9	64.5
80.5°	53.4	52.5	52.3	53.0	56.3	57.3	58.5	60.2	61.8	61.5	61.1
81°	49.9	49.1	48.9	49.5	53.0	53.9	55.2	56.8	58.2	58.1	57.6
81.5°	46.6	45.8	45.6	46.2	49.5	50.4	51.9	53.3	54.8	54.8	54.3
82°	43.1	42.5	42.3	42.8	46.2	47.3	48.4	49.9	51.8	51.3	50.9
82.5°	39.9	39.2	39.2	39.6	42.9	44.0	45.2	46.8	48.2	48.0	47.6
83°	36.5	36.1	35.9	36.4	39.8	40.9	41.9	43.5	45.0	44.8	44.4
83.5°	33.5	32.8	32.6	33.2	36.5	37.5	38.7	40.2	41.7	41.5	41.2
84°	30.2	29.6	29.5	30.0	33.5	34.4	35.6	37.0	38.6	38.4	37.9
84.5°	27.3	26.5	26.4	27.0	30.5	31.4	32.6	34.0	35.5	35.3	34.9
85°	24.1	23.6	23.6	24.0	27.4	28.4	29.6	30.9	32.2	32.2	31.8
85.5°	21.3	20.7	20.7	21.2	24.4	25.3	26.5	27.9	29.2	29.2	28.8
86°	18.4	17.9	17.7	18.2	21.6	22.6	23.7	24.9	26.1	26.1	25.8
86.5°	15.4	14.9	14.8	15.4	18.7	19.7	20.8	22.2	23.3	23.2	22.9
87°	12.5	12.0	12.0	12.5	15.9	16.8	17.9	19.2	20.4	20.4	20.0
87.5°	9.9	9.4	9.2	9.9	13.1	14.0	15.1	16.4	17.5	17.6	17.2
88°	7.4	6.8	6.6	7.3	10.4	11.3	12.5	13.7	14.8	14.9	14.5
88.5°	5.1	4.3	4.1	5.0	7.9	8.8	9.7	11.0	11.9	12.0	11.7



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.6	0.7	0.6	0.6	0.7	1.6	2.4	3.5	4.6	4.8	4.1
90.5°	0.6	0.7	0.5	0.6	0.4	0.4	0.9	1.5	2.2	2.3	1.9
91°	0.6	0.6	0.5	0.6	0.4	0.4	0.3	0.4	0.3	0.5	0.3
91.5°	0.6	0.6	0.5	0.6	0.4	0.5	0.3	0.4	0.3	0.5	0.3
92°	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.3	0.5	0.4
92.5°	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.2	0.4	0.3
93°	0.5	0.6	0.5	0.5	0.4	0.4	0.5	0.4	0.2	0.4	0.3
93.5°	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.3
94°	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.3
94.5°	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.3
95°	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3
95.5°	0.5	0.6	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.4
96°	0.5	0.6	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.4	0.4
96.5°	0.5	0.6	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.4	0.4
97°	0.5	0.6	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.5
97.5°	0.5	0.6	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.5
98°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4
98.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4
99°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.2	0.5	0.4
99.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
100°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
100.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
101°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
101.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
102°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
102.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
103°	0.5	0.6	0.5	0.5	0.5	0.6	0.4	0.5	0.1	0.5	0.4
103.5°	0.5	0.6	0.5	0.5	0.5	0.6	0.4	0.5	0.1	0.5	0.5
104°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.6	0.1	0.5	0.4
104.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.6	0.1	0.5	0.5
105°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.5
105.5°	0.5	0.6	0.5	0.5	0.5	0.6	0.4	0.5	0.1	0.5	0.6
106°	0.5	0.6	0.5	0.5	0.5	0.6	0.4	0.6	0.1	0.5	0.6
106.5°	0.5	0.6	0.5	0.5	0.6	0.7	0.4	0.6	0.1	0.5	0.5
107°	0.5	0.6	0.5	0.5	0.6	0.7	0.4	0.6	0.5	0.6	0.6
107.5°	0.5	0.6	0.5	0.5	0.5	0.7	0.4	0.6	0.5	0.6	0.6
108°	0.5	0.6	0.5	0.5	0.6	0.7	0.4	0.7	0.5	0.6	0.5
108.5°	0.5	0.6	0.5	0.5	0.6	0.7	0.4	0.6	0.5	0.6	0.5
109°	0.6	0.6	0.5	0.5	0.6	0.7	0.4	0.7	0.6	0.6	0.5
109.5°	0.6	0.6	0.5	0.5	0.7	0.7	0.4	0.7	0.6	0.6	0.5
110°	0.6	0.6	0.5	0.5	0.6	0.7	0.4	0.7	0.5	0.7	0.5
110.5°	0.6	0.6	0.5	0.5	0.6	0.7	0.5	0.7	0.5	0.7	0.6
111°	0.6	0.8	0.5	0.5	0.6	0.7	0.4	0.7	0.5	0.7	0.6



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	465.1	465.1	465.1	465.1	465.1	465.1
0.5°	465.5	465.5	465.6	465.0	465.4	465.8
1°	465.4	465.4	465.4	465.1	465.4	465.2
1.5°	465.3	465.3	465.6	464.9	465.3	465.0
2°	465.1	465.1	465.2	464.9	465.1	465.0
2.5°	464.8	464.9	465.1	464.5	464.8	464.6
3°	464.8	464.6	464.7	464.4	464.4	464.4
3.5°	464.6	464.4	464.5	464.0	464.2	464.1
4°	464.3	464.1	464.2	463.8	463.9	463.8
4.5°	463.9	463.8	463.9	463.4	463.5	463.4
5°	463.7	463.4	463.5	462.9	463.2	462.9
5.5°	463.2	463.0	463.1	462.5	462.6	462.5
6°	462.8	462.7	462.6	461.9	462.1	461.9
6.5°	462.3	462.1	462.1	461.4	461.5	461.3
7°	461.6	461.6	461.5	460.7	460.9	460.8
7.5°	461.2	461.0	460.9	460.2	460.3	460.1
8°	460.7	460.6	460.2	459.5	459.7	459.4
8.5°	460.0	459.8	459.7	459.1	459.1	458.6
9°	459.2	459.0	458.8	458.1	458.2	457.9
9.5°	458.6	458.2	458.1	457.4	457.1	457.0
10°	457.7	457.4	457.2	456.6	456.5	456.3
10.5°	456.9	456.7	456.4	455.7	455.9	455.5
11°	455.9	455.8	455.5	454.8	454.9	454.6
11.5°	455.2	454.9	454.6	453.7	453.8	453.5
12°	454.1	453.8	453.5	452.8	453.0	452.6
12.5°	453.1	453.0	452.4	451.7	451.9	451.5
13°	452.2	451.8	451.4	450.7	450.6	450.5
13.5°	451.2	450.9	450.5	449.7	449.5	449.5
14°	450.0	449.7	449.3	448.5	448.4	448.4
14.5°	448.9	448.7	448.1	447.4	447.3	447.1
15°	447.8	447.6	446.9	446.3	446.1	445.9
15.5°	446.5	446.4	445.6	444.9	444.9	444.7
16°	445.2	445.3	444.5	443.9	443.5	443.5
16.5°	444.1	444.0	443.2	442.3	442.1	442.2
17°	442.8	442.5	441.9	441.1	440.9	441.1
17.5°	441.5	441.3	440.5	439.7	439.8	439.6
18°	440.2	439.9	439.1	438.4	438.2	438.1
18.5°	438.6	438.3	437.4	436.8	436.6	436.6
19°	437.4	436.8	436.0	435.4	435.1	435.0
19.5°	435.7	435.5	434.7	433.9	433.7	433.3
20°	434.3	433.8	433.1	432.4	432.0	431.9
20.5°	432.7	432.3	431.6	430.7	430.4	430.2
21°	431.2	430.7	429.8	429.0	428.6	428.6



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	426.2	425.7	424.7	423.6	423.7	423.3
23°	424.5	423.8	423.1	421.9	421.7	421.6
23.5°	422.6	422.0	421.3	420.2	419.8	419.8
24°	420.9	420.0	419.4	418.4	417.8	417.9
24.5°	419.0	418.2	417.5	416.3	416.0	415.9
25°	417.2	416.3	415.6	414.4	414.0	414.1
25.5°	415.3	414.3	413.7	412.4	411.9	411.9
26°	413.5	412.4	411.6	410.5	409.9	410.0
26.5°	411.5	410.5	409.6	408.3	407.9	408.0
27°	409.5	408.4	407.6	406.3	405.9	406.2
27.5°	407.6	406.4	405.6	404.4	403.9	403.9
28°	405.4	404.3	403.5	402.3	401.8	401.9
28.5°	403.3	402.3	401.1	400.0	399.6	399.5
29°	401.2	400.0	399.0	398.0	397.2	397.3
29.5°	398.9	398.0	396.8	395.7	395.2	395.0
30°	396.8	395.6	394.6	393.5	392.8	392.7
30.5°	394.5	393.4	392.4	391.1	390.6	390.5
31°	392.3	391.1	390.2	388.8	388.2	388.1
31.5°	389.9	388.9	387.8	386.4	386.0	385.7
32°	387.6	386.5	385.5	383.9	383.4	383.2
32.5°	385.0	384.1	382.9	381.5	381.1	380.8
33°	382.7	381.7	380.7	379.2	378.5	378.3
33.5°	380.2	379.5	378.0	376.7	376.1	375.8
34°	378.0	376.8	375.5	374.3	373.7	373.4
34.5°	375.3	374.4	373.2	371.7	371.1	370.9
35°	373.0	371.9	370.7	369.2	368.4	368.2
35.5°	370.5	369.5	368.1	366.6	366.2	365.8
36°	368.0	366.8	365.5	364.1	363.2	363.1
36.5°	365.3	364.3	363.0	361.3	360.6	360.5
37°	362.8	361.7	360.3	358.7	357.9	357.9
37.5°	360.0	358.9	357.7	355.9	355.1	355.1
38°	357.3	356.2	354.8	353.0	352.2	352.4
38.5°	354.6	353.3	352.1	350.3	349.7	349.5
39°	351.9	350.8	349.3	347.5	346.7	346.7
39.5°	349.1	348.0	346.5	344.6	344.0	343.9
40°	346.4	345.0	343.5	341.6	341.0	341.1
40.5°	343.6	342.2	340.7	338.9	338.4	338.1
41°	340.6	339.2	337.7	336.1	335.2	335.5
41.5°	337.9	336.5	334.9	333.1	332.3	332.5
42°	335.0	333.4	331.9	330.0	329.3	329.6
42.5°	332.1	330.6	329.1	327.1	326.3	326.6
43°	329.1	327.5	325.9	324.0	323.3	323.6
43.5°	326.2	324.6	322.9	320.8	320.2	320.3



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	316.8	315.4	313.5	311.7	310.8	311.1
45.5°	313.7	312.4	310.4	308.5	307.7	307.9
46°	310.5	309.1	307.2	305.3	304.5	304.7
46.5°	307.5	306.1	304.0	302.3	301.4	301.7
47°	304.3	303.0	301.1	299.0	298.3	298.4
47.5°	301.2	299.9	297.7	295.8	295.1	295.1
48°	298.0	296.6	294.6	292.5	291.7	291.9
48.5°	294.8	293.4	291.3	289.2	288.5	288.5
49°	291.5	290.1	288.1	285.8	285.0	285.3
49.5°	288.2	286.8	284.5	282.4	281.7	281.8
50°	284.9	283.4	281.1	279.1	278.4	278.5
50.5°	281.7	280.1	277.7	275.7	274.9	275.0
51°	278.2	276.6	274.4	272.1	271.4	271.7
51.5°	275.0	273.2	270.9	268.8	268.1	268.3
52°	271.6	269.9	267.5	265.4	264.7	265.0
52.5°	268.2	266.5	264.3	262.0	261.2	261.4
53°	265.0	263.2	260.6	258.4	257.6	257.8
53.5°	261.4	259.6	257.3	255.1	254.0	254.3
54°	257.9	256.2	253.6	251.5	250.6	250.6
54.5°	254.5	252.6	250.1	248.0	246.9	247.1
55°	251.0	249.0	246.5	244.4	243.4	243.5
55.5°	247.4	245.3	242.8	241.0	239.8	239.8
56°	243.7	241.9	239.2	237.3	236.2	236.2
56.5°	240.1	238.2	235.7	233.5	232.6	232.7
57°	236.6	234.5	232.1	230.1	228.9	229.1
57.5°	233.1	230.9	228.5	226.5	225.3	225.3
58°	229.5	227.3	225.0	222.7	221.7	221.7
58.5°	225.7	223.7	221.4	219.0	217.8	218.0
59°	222.1	220.0	217.5	215.2	214.2	214.4
59.5°	218.3	216.3	213.9	211.5	210.5	210.5
60°	214.6	212.4	210.1	207.8	206.8	206.9
60.5°	210.7	208.6	206.4	204.1	203.0	203.1
61°	207.0	204.8	202.6	200.3	199.2	199.5
61.5°	203.1	201.0	199.0	196.5	195.5	195.6
62°	199.3	197.4	195.1	192.8	191.8	192.0
62.5°	195.6	193.5	191.4	189.1	187.9	188.0
63°	191.7	189.6	187.5	185.3	183.9	184.3
63.5°	187.9	185.9	183.8	181.4	180.2	180.4
64°	184.0	182.0	180.0	177.5	176.6	176.7
64.5°	180.2	178.2	176.2	173.8	172.6	172.7
65°	176.3	174.4	172.3	170.0	168.9	169.0
65.5°	172.6	170.5	168.3	166.3	165.1	165.1
66°	168.7	166.6	164.5	162.4	161.4	161.4



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	157.7	155.4	153.0	150.9	149.9	150.0
68°	153.8	151.5	149.2	147.0	145.9	146.1
68.5°	150.0	147.7	145.3	143.2	142.3	142.2
69°	146.2	143.9	141.5	139.4	138.4	138.5
69.5°	142.3	140.1	137.5	135.5	134.4	134.4
70°	138.4	136.3	133.7	131.6	130.6	130.8
70.5°	134.7	132.4	129.8	127.9	126.8	127.0
71°	130.9	128.5	126.1	124.1	123.1	123.2
71.5°	127.1	124.8	122.4	120.2	119.2	119.3
72°	123.4	120.9	118.5	116.4	115.3	115.6
72.5°	119.5	117.1	114.7	112.5	111.5	111.7
73°	115.6	113.2	110.9	108.8	107.7	107.8
73.5°	111.8	109.5	107.0	105.0	104.0	104.1
74°	108.0	105.5	103.2	101.2	100.1	100.2
74.5°	104.2	101.8	99.4	97.5	96.6	96.5
75°	100.3	97.9	95.8	93.8	92.9	93.0
75.5°	96.6	94.2	92.1	90.3	89.1	89.1
76°	92.8	90.5	88.4	86.4	85.3	85.5
76.5°	89.3	86.7	84.5	82.8	81.7	81.7
77°	85.5	83.1	81.0	79.2	78.1	78.0
77.5°	81.9	79.4	77.2	75.6	74.6	74.5
78°	78.2	75.7	73.7	72.0	71.0	70.8
78.5°	74.6	72.2	70.2	68.5	67.5	67.2
79°	71.0	68.5	66.6	65.0	63.9	63.7
79.5°	67.4	65.0	63.0	61.5	60.4	60.3
80°	63.8	61.4	59.6	58.1	56.9	56.8
80.5°	60.3	58.1	56.3	54.9	53.8	53.4
81°	57.1	54.7	52.9	51.4	50.2	49.9
81.5°	53.6	51.1	49.5	48.1	47.0	46.6
82°	50.3	47.8	46.2	44.7	43.6	43.1
82.5°	46.9	44.5	42.9	41.3	40.2	39.9
83°	43.7	41.1	39.6	38.1	37.1	36.5
83.5°	40.4	37.9	36.3	34.9	33.8	33.5
84°	37.2	34.7	33.1	31.7	30.7	30.2
84.5°	34.2	31.5	29.9	28.7	27.5	27.3
85°	31.1	28.3	27.0	25.6	24.4	24.1
85.5°	28.0	25.2	23.9	22.7	21.7	21.3
86°	25.1	22.3	21.0	19.7	18.6	18.4
86.5°	22.3	19.5	18.2	16.9	15.6	15.4
87°	19.4	16.6	15.3	13.9	13.1	12.5
87.5°	16.6	13.9	12.4	11.2	10.3	9.9
88°	13.8	11.0	9.8	8.6	7.8	7.4
88.5°	11.1	8.5	7.3	6.1	5.2	5.1



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	4.0	1.4	1.2	0.7	0.7	0.6
90.5°	1.2	0.7	0.7	0.7	0.4	0.6
91°	0.4	0.7	0.6	0.6	0.5	0.6
91.5°	0.4	0.6	0.6	0.5	0.5	0.6
92°	0.5	0.5	0.6	0.5	0.4	0.5
92.5°	0.4	0.5	0.5	0.5	0.4	0.5
93°	0.4	0.5	0.5	0.5	0.4	0.5
93.5°	0.4	0.5	0.5	0.5	0.5	0.5
94°	0.4	0.5	0.5	0.5	0.5	0.5
94.5°	0.4	0.5	0.5	0.5	0.5	0.5
95°	0.4	0.5	0.5	0.5	0.5	0.5
95.5°	0.4	0.5	0.5	0.5	0.5	0.5
96°	0.4	0.5	0.5	0.5	0.5	0.5
96.5°	0.4	0.5	0.5	0.5	0.5	0.5
97°	0.4	0.5	0.5	0.5	0.4	0.5
97.5°	0.4	0.5	0.5	0.5	0.4	0.5
98°	0.4	0.5	0.5	0.5	0.4	0.5
98.5°	0.4	0.5	0.5	0.5	0.4	0.5
99°	0.4	0.5	0.5	0.5	0.4	0.5
99.5°	0.4	0.5	0.5	0.5	0.4	0.5
100°	0.4	0.5	0.5	0.5	0.4	0.5
100.5°	0.5	0.5	0.5	0.5	0.4	0.5
101°	0.4	0.5	0.5	0.5	0.5	0.5
101.5°	0.5	0.5	0.5	0.5	0.5	0.5
102°	0.5	0.5	0.5	0.5	0.5	0.5
102.5°	0.5	0.5	0.5	0.5	0.5	0.5
103°	0.5	0.5	0.5	0.5	0.5	0.5
103.5°	0.5	0.5	0.5	0.5	0.5	0.5
104°	0.6	0.5	0.5	0.5	0.5	0.5
104.5°	0.6	0.5	0.5	0.5	0.5	0.5
105°	0.5	0.5	0.5	0.5	0.5	0.5
105.5°	0.6	0.5	0.5	0.5	0.5	0.5
106°	0.7	0.5	0.5	0.5	0.5	0.5
106.5°	0.7	0.5	0.5	0.5	0.5	0.5
107°	0.6	0.5	0.5	0.5	0.6	0.5
107.5°	0.6	0.5	0.5	0.5	0.5	0.5
108°	0.6	0.5	0.5	0.5	0.7	0.5
108.5°	0.7	0.5	0.5	0.5	0.7	0.5
109°	0.7	0.5	0.5	0.5	0.7	0.6
109.5°	0.7	0.5	0.5	0.5	0.7	0.6
110°	0.8	0.6	0.5	0.5	0.8	0.6
110.5°	0.7	0.6	0.5	0.5	0.9	0.6
111°	0.7	0.6	0.5	0.5	0.8	0.6



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417445

CATALOG NUMBER: SMD6S129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

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



Report Generated By E9808895 / USPTCWHP6082093





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







21.5°	426.9	425.7	425.9	426.5	427.2	427.8	428.2	429.1	429.8	429.9	429.6
22°	425.1	424.2	424.2	424.6	425.7	426.2	426.4	427.4	428.1	428.3	428.1



44°	317.3	315.7	315.2	316.2	319.3	319.6	320.2	321.8	323.8	323.2	322.9
44.5°	314.2	312.7	312.1	313.2	316.2	316.5	317.3	318.7	320.8	320.3	319.8



66.5°	157.5	156.1	155.7	156.6	160.7	161.3	162.5	164.1	166.5	166.0	165.4
67°	153.8	152.2	151.9	152.9	156.8	157.5	158.6	160.6	162.7	162.2	161.7



89°	2.1	1.8	1.9	2.5	5.5	6.3	7.1	8.3	9.5	9.5	9.0
89.5°	0.9	0.8	0.8	1.0	3.1	4.0	4.6	5.8	6.9	7.0	6.5



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



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



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



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





21.5°	429.5	429.1	428.1	427.3	427.2	426.9
22°	427.9	427.4	426.3	425.6	425.2	425.1



44°	323.0	321.5	319.8	317.9	317.2	317.3
44.5°	319.8	318.6	316.7	314.7	314.0	314.2



66.5°	165.1	162.9	160.8	158.6	157.6	157.5
67°	161.3	159.3	157.0	154.7	153.8	153.8



89°	8.6	6.3	5.1	3.6	2.9	2.1
89.5°	6.2	3.9	2.7	1.7	1.3	0.9



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



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



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



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



(END OF REPORT)