

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: P417441

Luminaire Tested: **SMD6S129SWH - 5000K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2008784B001)
Test Lab: EVERFINE
Issue Date: 11/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6S129SWH - 5000K
Description: SMD SELECTABLE CCT 5000K
Light Source: SELECTABLE CCT LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1318.9 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

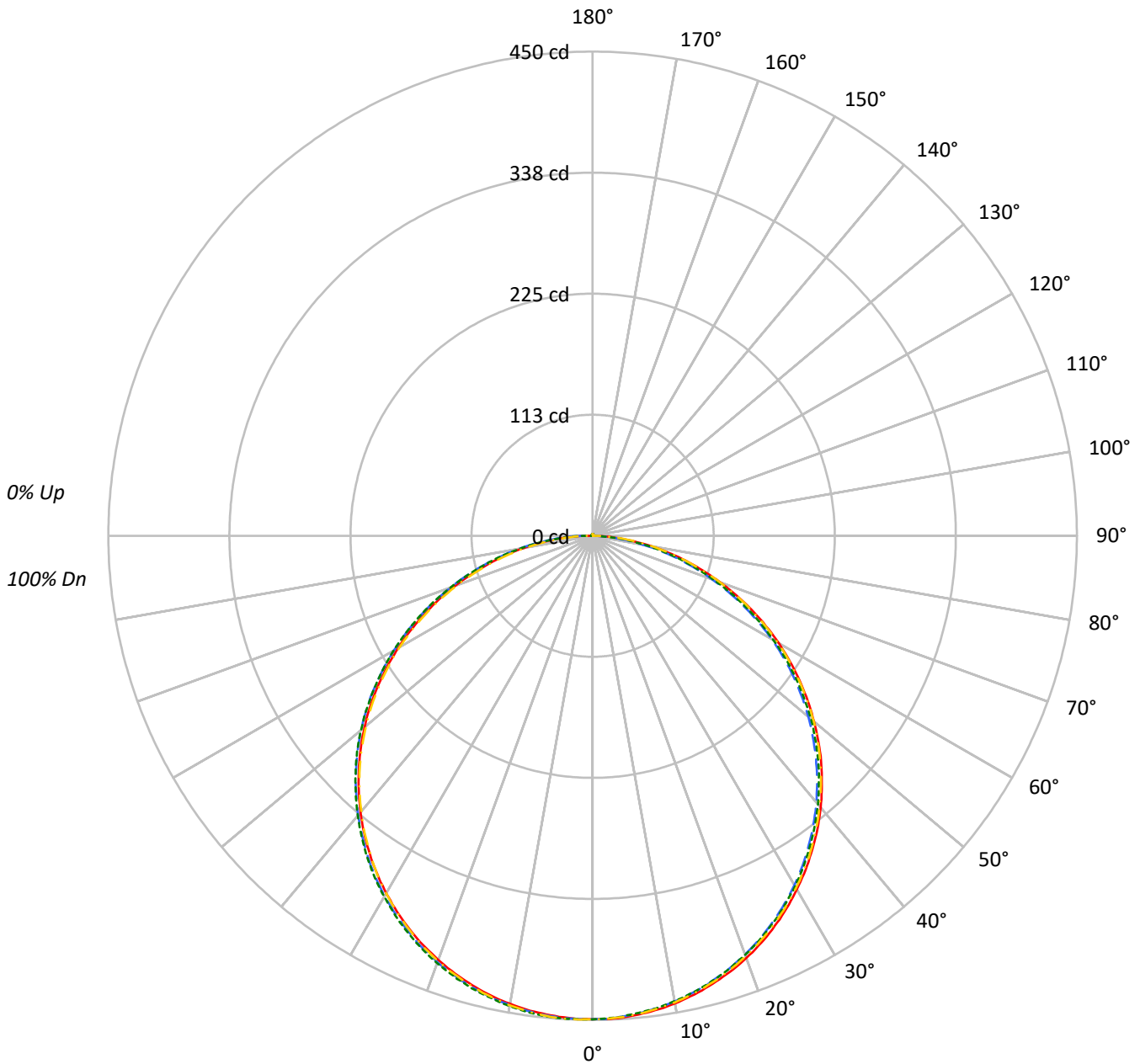
Input Watts (W): 14.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19349	19349	19349	19349
5°	19337	19272	19341	19406
10°	19294	19202	19311	19412
15°	19221	19105	19274	19399
20°	19134	18992	19216	19358
25°	19012	18851	19145	19321
30°	18872	18703	19071	19255
35°	18707	18512	18969	19190
40°	18525	18312	18851	19082
45°	18304	18048	18705	18961
50°	17985	17737	18527	18815
55°	17625	17288	18293	18609
60°	17205	16731	17989	18393
65°	16627	16046	17574	18094
70°	15837	15094	17083	17687
75°	14889	13940	16486	17251
80°	13439	12373	15993	16885
85°	11115	9584	16006	17043



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	3.2
10°-20°	121.8	9.2
20°-30°	184.9	14.0
30°-40°	223.9	17.0
40°-50°	233.7	17.7
50°-60°	213.0	16.1
60°-70°	165.0	12.5
70°-80°	98.8	7.5
80°-90°	30.5	2.3
90°-100°	0.7	0.1
100°-110°	0.5	0.0
110°-120°	0.6	0.0
120°-130°	0.7	0.1
130°-140°	0.7	0.1
140°-150°	0.6	0.0
150°-160°	0.5	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-30°	349.3	26.5
0°-40°	573.1	43.5
0°-60°	1019.8	77.3
0°-90°	1314.1	99.6
90°-120°	1.7	0.1
90°-150°	3.7	0.3
90°-180°	5.0	0.4
0°-180°	1318.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	449	449	449	449	449	
5°	447	446	448	449	447	43
15°	431	429	432	435	431	122
25°	400	397	403	407	400	184
35°	356	352	361	365	356	223
45°	301	296	307	311	301	232
55°	235	230	244	248	235	210
65°	163	158	172	178	163	161
75°	90	84	99	104	90	95
85°	22	19	32	34	22	25
90°	1	0	5	7	1	1
95°	1	0	0	1	1	0
105°	1	0	0	1	1	1
115°	1	0	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°	2	1	2	2	2	0
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4
0.5°	449.3	449.4	449.3	449.6	449.3	449.1	449.4	449.3	449.3	449.3	449.3
1°	449.3	449.4	449.3	449.5	449.1	449.1	449.2	449.2	449.3	449.3	449.3
1.5°	449.4	449.1	449.3	449.3	448.9	448.9	449.0	449.2	449.3	449.3	449.3
2°	449.4	448.9	448.9	448.9	448.6	448.7	449.0	449.0	449.2	449.2	449.2
2.5°	449.2	448.8	448.7	448.6	448.3	448.4	448.6	448.5	448.8	449.2	449.2
3°	449.0	448.5	448.2	448.1	448.1	448.1	448.4	448.4	448.7	449.1	449.0
3.5°	448.7	448.1	447.9	447.8	448.0	447.7	448.3	448.2	448.4	448.9	448.8
4°	448.2	447.7	447.4	447.5	446.9	447.3	447.7	447.9	448.2	448.8	448.7
4.5°	447.9	447.3	446.9	446.8	446.5	446.8	447.3	447.3	447.7	448.4	448.4
5°	447.4	446.9	446.5	446.5	445.9	446.3	447.0	447.0	447.5	448.1	448.1
5.5°	447.1	446.3	446.1	446.0	445.5	445.8	446.4	446.4	447.1	447.5	447.7
6°	446.5	445.8	445.4	445.3	444.9	445.3	445.8	446.1	446.5	447.2	447.5
6.5°	446.0	445.1	444.8	444.5	444.4	444.7	445.3	445.6	446.1	446.8	447.0
7°	445.5	444.5	444.1	444.0	443.8	444.0	444.6	445.1	445.6	446.3	446.6
7.5°	444.8	443.8	443.2	443.3	443.5	443.5	444.0	444.4	445.2	445.7	446.0
8°	444.2	443.1	442.6	442.5	442.5	442.9	443.3	443.9	444.5	445.2	445.6
8.5°	443.7	442.4	441.8	441.8	441.7	441.9	442.5	443.1	443.8	444.7	445.0
9°	442.8	441.7	441.1	441.1	440.9	441.2	441.9	442.4	443.2	443.8	444.6
9.5°	442.0	440.9	440.2	440.2	440.1	440.4	441.0	441.6	442.5	443.2	443.8
10°	441.3	440.1	439.4	439.4	439.2	439.6	440.3	440.9	441.7	442.6	443.1
10.5°	440.5	439.1	438.6	438.5	438.4	438.6	439.4	440.0	441.0	441.9	442.2
11°	439.5	438.4	437.6	437.4	437.4	437.7	438.4	439.2	440.2	441.1	441.5
11.5°	438.6	437.2	436.5	436.3	436.5	436.6	437.5	438.3	439.4	440.3	440.8
12°	437.5	436.1	435.5	435.2	435.3	435.6	436.5	437.3	438.4	439.6	440.1
12.5°	436.7	435.0	434.5	434.1	434.4	434.5	435.4	436.3	437.5	438.4	439.1
13°	435.7	434.0	433.5	433.1	433.2	433.4	434.4	435.3	436.6	437.5	438.2
13.5°	434.6	432.9	432.3	431.9	432.2	432.2	433.4	434.4	435.8	436.6	437.2
14°	433.4	431.9	431.2	430.7	431.0	431.1	432.3	433.4	434.6	436.0	436.2
14.5°	432.2	430.5	430.0	429.4	430.0	429.9	431.0	432.2	433.6	434.5	435.0
15°	431.2	429.3	428.6	428.2	428.6	428.8	429.9	431.0	432.4	433.5	433.9
15.5°	429.9	427.9	427.3	426.9	427.4	427.6	428.7	429.8	431.2	432.4	432.9
16°	428.7	426.9	426.0	425.5	426.1	426.3	427.5	428.5	430.0	431.3	431.9
16.5°	427.3	425.4	424.7	424.2	424.7	424.8	426.0	427.3	428.8	430.1	430.8
17°	426.1	424.3	423.2	422.9	423.3	423.5	424.7	426.0	427.5	428.9	429.5
17.5°	424.8	422.7	421.9	421.2	422.1	422.0	423.3	424.7	426.4	427.5	428.2
18°	423.5	421.3	420.4	419.7	420.6	420.7	421.9	423.1	425.0	426.4	427.0
18.5°	422.1	419.8	418.7	418.3	418.8	419.1	420.5	421.8	423.7	424.9	425.7
19°	420.7	418.3	417.1	416.8	417.4	417.7	418.9	420.5	422.2	423.6	424.3
19.5°	419.2	416.6	415.5	415.4	416.1	416.2	417.4	418.9	420.9	422.1	423.1
20°	417.6	415.1	414.1	413.8	414.5	414.6	415.9	417.4	419.4	420.5	421.7
20.5°	416.0	413.5	412.4	412.0	412.9	413.0	414.4	415.9	417.9	419.2	420.1
21°	414.6	412.0	410.8	410.3	411.3	411.4	412.9	414.3	416.3	417.9	418.6



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	409.5	406.8	405.5	405.2	406.3	406.2	407.6	409.4	411.7	413.0	414.1
23°	407.7	404.9	403.8	403.4	404.3	404.5	406.0	407.6	410.1	411.6	412.6
23.5°	405.9	403.0	401.9	401.5	402.6	402.6	404.0	406.0	408.4	409.8	410.9
24°	404.0	401.2	400.0	399.5	400.6	400.7	402.4	404.3	406.7	408.1	409.1
24.5°	402.3	399.4	398.0	397.6	398.8	399.0	400.4	402.4	405.0	406.3	407.3
25°	400.2	397.6	396.0	395.7	396.8	397.2	398.7	400.6	403.0	404.5	405.7
25.5°	398.3	395.5	394.0	393.6	395.1	395.1	396.6	398.7	401.3	402.7	403.9
26°	396.6	393.5	392.0	391.6	393.1	393.1	394.7	396.9	399.6	401.0	402.0
26.5°	394.5	391.5	390.0	389.6	391.1	391.1	392.7	394.9	397.7	399.2	400.2
27°	392.4	389.5	388.0	387.6	388.9	389.1	390.8	392.9	395.8	397.3	398.5
27.5°	390.4	387.5	385.7	385.4	386.9	387.1	388.6	390.8	393.7	395.2	396.4
28°	388.3	385.4	383.8	383.3	384.6	384.9	386.6	388.9	391.8	393.3	394.6
28.5°	386.1	383.3	381.5	381.1	382.4	382.8	384.4	386.8	389.9	391.2	392.5
29°	383.9	381.1	379.3	379.2	380.4	380.8	382.4	384.8	387.5	389.2	390.6
29.5°	381.8	379.0	377.1	376.8	378.5	378.7	380.1	382.6	385.6	387.1	388.6
30°	379.6	376.6	374.9	374.5	376.2	376.6	378.1	380.5	383.6	384.9	386.6
30.5°	377.3	374.3	372.5	372.0	373.8	374.4	375.8	378.5	381.3	382.7	384.4
31°	375.1	372.2	370.3	369.9	371.7	371.9	373.8	376.3	379.1	380.7	382.4
31.5°	372.8	369.8	367.7	367.3	369.3	369.8	371.2	374.0	377.3	378.6	380.1
32°	370.5	367.4	365.5	365.1	367.0	367.4	369.0	371.7	374.9	376.6	378.0
32.5°	368.3	365.0	363.1	362.5	364.6	365.0	366.6	369.4	372.6	374.1	375.7
33°	365.7	362.4	360.7	360.2	362.1	362.5	364.3	367.0	370.4	371.8	373.6
33.5°	363.4	359.9	358.1	357.5	359.7	360.3	361.8	364.6	368.1	369.6	371.2
34°	360.8	357.5	355.6	355.1	357.3	357.7	359.6	362.2	365.8	367.4	369.0
34.5°	358.5	355.1	353.0	352.5	354.7	355.3	357.0	359.8	363.6	364.9	366.6
35°	355.9	352.6	350.4	349.8	352.2	352.8	354.6	357.3	360.9	362.5	364.1
35.5°	353.5	349.9	347.8	347.1	349.7	350.3	352.1	354.8	358.5	360.2	361.7
36°	350.9	347.5	345.2	344.8	347.1	347.6	349.5	352.3	356.2	357.8	359.4
36.5°	348.3	344.9	342.7	342.0	344.6	345.0	346.8	349.8	353.7	355.2	356.8
37°	345.8	342.3	340.0	339.4	342.0	342.5	344.3	347.2	351.1	352.7	354.2
37.5°	343.4	339.6	337.2	336.7	339.2	339.8	341.7	344.6	348.6	350.2	351.7
38°	340.6	336.8	334.6	334.0	336.5	337.1	339.0	342.2	346.1	347.5	349.2
38.5°	337.8	334.0	331.8	331.1	333.8	334.4	336.3	339.4	343.5	344.9	346.6
39°	335.1	331.3	329.2	328.4	331.2	331.7	333.7	336.8	340.9	342.6	344.1
39.5°	332.4	328.6	326.2	325.4	328.5	328.8	330.8	334.0	338.2	339.9	341.6
40°	329.6	325.9	323.4	322.6	325.8	326.0	328.2	331.4	335.4	337.1	338.9
40.5°	326.8	323.0	320.5	319.7	322.8	323.2	325.4	328.5	332.7	334.4	336.2
41°	324.1	320.0	317.5	316.9	320.1	320.3	322.6	325.8	329.9	331.8	333.5
41.5°	321.1	317.0	314.6	313.9	317.2	317.4	319.8	323.0	327.3	329.1	330.8
42°	318.3	314.0	311.8	311.0	314.3	314.5	316.9	320.2	324.4	326.3	328.1
42.5°	315.3	311.1	308.7	308.3	311.3	311.5	314.0	317.3	321.6	323.4	325.2
43°	312.3	308.3	305.8	305.3	308.4	308.7	311.1	314.5	318.8	320.8	322.5
43.5°	309.4	305.2	302.8	302.2	305.6	305.9	308.2	311.6	316.0	317.9	319.8



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	300.6	296.1	293.6	292.9	296.4	296.8	299.4	303.0	307.2	309.3	311.0
45.5°	297.4	293.1	290.4	289.9	293.2	293.7	296.3	299.9	304.4	306.4	308.1
46°	294.5	290.0	287.3	286.7	290.2	290.6	293.2	297.0	301.3	303.4	305.3
46.5°	291.2	286.9	284.1	283.5	287.1	287.5	290.3	293.9	298.5	300.6	302.3
47°	288.2	283.4	280.9	280.3	284.0	284.5	287.1	290.9	295.2	297.5	299.3
47.5°	284.8	280.3	277.6	277.1	280.8	281.2	283.9	287.7	292.3	294.5	296.2
48°	281.6	277.1	274.6	274.1	277.6	278.1	280.8	284.6	289.1	291.4	293.2
48.5°	278.4	274.0	271.3	270.9	274.3	274.8	277.8	281.5	286.2	288.3	290.1
49°	275.2	270.8	268.3	267.6	271.4	271.8	274.4	278.4	283.0	285.2	287.1
49.5°	271.9	267.8	264.8	264.2	268.2	268.5	271.4	275.1	279.8	282.1	283.9
50°	268.5	264.3	261.6	260.9	264.8	265.2	268.2	272.1	276.6	278.8	280.7
50.5°	265.1	260.9	258.2	257.6	261.5	261.9	264.8	268.9	273.4	275.5	277.6
51°	262.0	257.5	254.9	254.3	257.9	258.7	261.6	265.7	270.4	272.3	274.5
51.5°	258.6	254.4	251.4	250.9	254.6	255.2	258.3	262.4	267.1	269.2	271.4
52°	255.2	250.9	248.2	247.4	251.0	251.8	254.8	259.0	263.8	266.2	268.1
52.5°	252.0	247.5	244.7	244.1	247.7	248.4	251.5	255.7	260.5	262.8	264.8
53°	248.7	244.1	241.2	240.5	244.0	245.0	248.0	252.2	257.1	259.6	261.3
53.5°	245.0	240.7	237.7	237.1	240.5	241.3	244.5	248.8	253.9	256.2	258.1
54°	241.6	237.3	234.5	233.6	237.1	237.9	241.0	245.4	250.5	253.0	255.0
54.5°	238.3	233.9	231.0	230.2	233.8	234.5	237.5	242.1	247.2	249.7	251.5
55°	234.8	230.5	227.7	226.7	230.3	231.1	234.1	238.6	243.7	246.3	248.1
55.5°	231.3	227.1	224.2	223.3	226.9	227.6	230.6	235.1	240.2	242.8	244.6
56°	227.9	223.7	220.8	219.9	223.1	224.0	227.0	231.6	236.7	239.2	241.2
56.5°	224.5	220.2	217.4	216.5	219.7	220.5	223.6	228.1	233.1	235.8	237.7
57°	221.0	216.8	213.8	213.0	216.2	217.0	220.2	224.6	229.7	232.5	234.2
57.5°	217.5	213.1	210.2	209.4	212.6	213.3	216.6	221.0	226.3	228.9	230.8
58°	214.0	209.6	206.6	205.7	208.9	209.9	213.1	217.7	222.9	225.4	227.3
58.5°	210.4	206.0	203.0	202.3	205.1	206.4	209.6	214.0	219.2	221.9	223.9
59°	206.8	202.3	199.4	198.5	201.6	202.9	206.0	210.6	215.5	218.3	220.3
59.5°	203.4	198.7	195.6	194.9	197.9	199.3	202.4	206.9	212.1	214.7	216.6
60°	199.8	195.0	192.0	191.3	194.3	195.5	198.7	203.5	208.9	211.1	213.1
60.5°	196.1	191.5	188.4	187.6	190.7	191.8	195.3	200.1	205.2	207.7	209.5
61°	192.6	187.8	184.7	184.0	186.9	188.0	191.7	196.3	201.8	204.1	206.0
61.5°	189.0	184.2	181.0	180.3	183.4	184.5	187.9	192.7	198.1	200.7	202.6
62°	185.3	180.5	177.3	176.5	179.7	180.8	184.2	188.9	194.6	197.1	199.0
62.5°	181.5	176.7	173.5	172.8	175.9	177.1	180.5	185.3	190.9	193.3	195.3
63°	177.9	173.0	169.9	169.1	172.2	173.5	176.8	181.6	187.1	189.6	191.7
63.5°	174.1	169.4	166.2	165.5	168.5	169.8	173.1	178.0	183.5	186.1	188.0
64°	170.5	165.7	162.5	161.8	164.9	166.2	169.6	174.4	179.9	182.5	184.5
64.5°	166.9	162.1	158.9	158.0	161.2	162.6	165.8	170.6	176.2	178.7	180.8
65°	163.2	158.4	155.1	154.4	157.5	158.8	162.2	167.0	172.5	175.0	177.2
65.5°	159.5	154.6	151.6	150.4	153.9	155.2	158.5	163.3	168.8	171.5	173.4
66°	155.7	150.8	147.8	146.8	150.1	151.2	154.9	159.6	165.2	167.6	169.9



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	144.5	139.6	136.5	135.4	138.9	140.2	143.7	148.6	154.2	156.9	158.9
68°	140.7	135.8	132.8	131.7	135.0	136.3	139.9	144.9	150.4	153.2	155.2
68.5°	136.9	132.0	129.2	128.2	131.3	132.8	136.3	141.3	146.8	149.5	151.5
69°	133.2	128.5	125.4	124.4	127.6	129.0	132.7	137.5	143.0	145.9	148.0
69.5°	129.6	124.7	121.6	120.6	123.7	125.4	129.1	133.7	139.4	142.3	144.3
70°	125.8	121.1	117.9	116.9	119.9	121.6	125.4	130.1	135.7	138.4	140.6
70.5°	122.0	117.3	114.2	113.1	116.4	117.9	121.7	126.5	132.1	134.7	136.9
71°	118.3	113.7	110.5	109.5	112.8	114.1	118.0	122.9	128.5	131.1	133.2
71.5°	114.8	110.1	106.8	106.0	108.9	110.4	114.3	119.0	124.6	127.4	129.6
72°	111.0	106.3	103.2	102.4	105.2	106.8	110.8	115.3	120.9	123.7	126.0
72.5°	107.4	102.5	99.4	98.6	101.6	103.3	107.0	111.7	117.3	120.1	122.1
73°	103.7	98.9	95.9	95.1	98.1	99.6	103.4	108.0	113.5	116.4	118.4
73.5°	100.2	95.3	92.4	91.7	94.5	96.1	99.7	104.5	109.8	112.7	114.7
74°	96.4	91.8	89.0	88.1	90.9	92.8	96.2	100.9	106.2	109.0	111.2
74.5°	93.0	88.2	85.4	84.4	87.5	89.2	92.8	97.4	102.5	105.3	107.4
75°	89.5	84.6	81.8	81.0	83.8	85.7	89.3	94.0	99.1	101.7	103.9
75.5°	85.9	81.1	78.2	77.5	80.5	82.3	85.9	90.4	95.6	98.3	100.4
76°	82.4	77.6	74.7	74.0	77.0	78.8	82.4	87.0	92.1	94.9	97.0
76.5°	78.7	74.0	71.2	70.4	73.5	75.3	78.9	83.4	88.6	91.3	93.5
77°	75.2	70.5	67.7	66.9	70.1	71.8	75.5	80.0	85.2	88.0	90.0
77.5°	71.7	67.0	64.2	63.5	66.5	68.4	72.1	76.6	81.8	84.5	86.6
78°	68.2	63.6	60.9	60.0	63.1	65.0	68.7	73.2	78.4	81.1	83.1
78.5°	64.8	60.1	57.4	56.6	59.7	61.7	65.3	69.8	74.9	77.6	79.7
79°	61.2	56.7	54.0	53.2	56.4	58.4	61.8	66.5	71.4	74.2	76.2
79.5°	57.7	53.3	50.6	49.7	53.2	55.0	58.6	63.0	68.0	70.7	72.8
80°	54.2	49.7	47.2	46.3	49.9	51.8	55.3	59.8	64.5	67.3	69.3
80.5°	50.8	46.4	43.9	43.0	46.5	48.6	52.0	56.4	61.3	64.0	65.9
81°	47.4	43.2	40.8	39.9	43.3	45.5	48.9	53.4	58.0	60.7	62.7
81.5°	44.1	40.0	37.5	36.6	40.2	42.2	45.7	49.9	54.6	57.3	59.3
82°	41.1	36.8	34.4	33.5	37.0	39.0	42.4	46.6	51.3	54.0	56.0
82.5°	37.6	33.6	31.3	30.4	33.8	36.0	39.4	43.4	48.2	50.9	52.7
83°	34.4	30.6	28.3	27.5	30.9	32.9	36.3	40.5	44.9	47.7	49.5
83.5°	31.2	27.5	25.2	24.6	28.0	29.8	33.2	37.2	41.7	44.5	46.3
84°	28.3	24.6	22.6	21.9	24.9	26.9	30.1	34.3	38.6	41.2	43.1
84.5°	25.2	22.0	19.6	18.9	22.2	24.0	27.2	31.2	35.5	38.1	40.0
85°	22.5	19.0	16.8	16.1	19.4	21.4	24.3	28.3	32.4	35.2	36.9
85.5°	19.6	16.1	14.0	13.5	16.6	18.6	21.7	25.2	29.4	32.1	33.8
86°	16.8	13.4	11.4	10.8	14.0	15.8	18.8	22.6	26.5	29.0	30.9
86.5°	14.0	10.7	8.7	8.2	11.3	13.1	16.1	19.7	23.6	26.2	28.0
87°	11.3	8.2	6.3	6.0	8.8	10.5	13.3	16.9	20.9	23.4	24.8
87.5°	8.7	6.0	3.8	3.6	6.4	8.0	10.7	14.2	18.0	20.6	22.2
88°	6.4	3.8	1.9	1.6	4.1	5.8	8.2	11.6	15.2	17.9	19.4
88.5°	4.0	1.6	0.8	0.8	1.5	3.3	5.9	8.9	12.6	15.0	16.5



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.7	0.6	0.6	0.6	0.3	0.4	0.2	1.9	5.2	7.4	8.5
90.5°	0.6	0.6	0.6	0.6	0.2	0.3	0.2	0.2	2.8	5.0	6.1
91°	0.6	0.6	0.6	0.6	0.3	0.3	0.2	0.2	0.5	2.8	3.8
91.5°	0.6	0.6	0.6	0.6	0.2	0.3	0.2	0.3	0.1	0.7	1.7
92°	0.6	0.6	0.6	0.6	0.2	0.3	0.2	0.3	0.1	0.5	0.5
92.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.2	0.1	0.1	0.5	0.1
93°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.5	0.1	0.4	0.0
93.5°	0.6	0.6	0.6	0.6	0.1	0.3	0.3	0.0	0.1	0.4	0.1
94°	0.6	0.6	0.6	0.6	0.1	0.3	0.3	0.0	0.1	0.4	0.0
94.5°	0.6	0.6	0.6	0.6	0.1	0.3	0.3	0.2	0.1	0.4	0.0
95°	0.6	0.6	0.6	0.6	0.1	0.3	0.3	0.0	0.1	0.4	0.2
95.5°	0.6	0.6	0.6	0.6	0.1	0.3	0.3	0.3	0.1	0.4	0.2
96°	0.6	0.6	0.6	0.6	0.0	0.3	0.3	0.1	0.1	0.4	0.3
96.5°	0.6	0.6	0.6	0.6	0.0	0.3	0.3	0.0	0.1	0.4	0.0
97°	0.6	0.6	0.6	0.6	0.4	0.3	0.3	0.1	0.1	0.4	0.1
97.5°	0.6	0.6	0.6	0.6	0.1	0.3	0.3	0.1	0.1	0.4	0.2
98°	0.6	0.6	0.6	0.6	0.0	0.3	0.3	0.0	0.1	0.4	0.0
98.5°	0.6	0.6	0.6	0.6	0.4	0.3	0.3	0.0	0.2	0.4	0.1
99°	0.6	0.6	0.6	0.6	0.4	0.3	0.3	0.0	0.1	0.4	0.1
99.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.2	0.3	0.4	0.2
100°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.2	0.3	0.4	0.1
100.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.1	0.3	0.5	0.1
101°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.1	0.3	0.5	0.1
101.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.2	0.3	0.5	0.1
102°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.2	0.3	0.5	0.2
102.5°	0.6	0.6	0.6	0.6	0.4	0.3	0.3	0.1	0.4	0.6	0.1
103°	0.6	0.6	0.6	0.6	0.4	0.3	0.3	0.1	0.5	0.7	0.1
103.5°	0.6	0.6	0.6	0.6	0.2	0.3	0.4	0.2	0.5	0.1	0.1
104°	0.6	0.6	0.6	0.6	0.4	0.3	0.4	0.2	0.4	0.0	0.2
104.5°	0.6	0.6	0.6	0.6	0.4	0.3	0.3	0.2	0.4	0.3	0.2
105°	0.6	0.6	0.6	0.6	0.3	0.3	0.5	0.2	0.4	0.3	0.2
105.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.3	0.3	0.4	0.3	0.1
106°	0.6	0.6	0.6	0.6	0.2	0.3	0.3	0.3	0.4	0.3	0.1
106.5°	0.6	0.6	0.6	0.6	0.5	0.3	0.2	0.1	0.4	0.4	0.1
107°	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.1	0.4	0.3	0.2
107.5°	0.6	0.6	0.6	0.6	0.5	0.3	0.4	0.5	0.4	0.2	0.2
108°	0.6	0.6	0.6	0.6	0.5	0.3	0.4	0.5	0.5	0.4	0.3
108.5°	0.6	0.6	0.6	0.6	0.5	0.3	0.4	0.7	0.5	0.4	0.2
109°	0.6	0.6	0.6	0.6	0.5	0.3	0.4	0.7	0.6	0.2	0.5
109.5°	0.6	0.6	0.6	0.6	0.5	0.3	0.4	0.6	0.6	0.1	0.1
110°	0.6	0.6	0.6	0.6	0.4	0.3	0.6	0.8	0.5	0.3	0.3
110.5°	0.6	0.6	0.6	0.6	0.6	0.4	0.6	0.7	0.5	0.3	0.3
111°	0.6	0.6	0.6	0.6	0.5	0.3	0.5	0.7	0.5	0.5	0.3



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.5	0.3	0.5
113°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.5	0.4	0.4
113.5°	0.6	0.6	0.6	0.6	0.7	0.5	0.5	0.8	0.5	0.4	0.4
114°	0.6	0.6	0.6	0.6	0.4	0.3	0.4	0.8	0.5	0.5	0.3
114.5°	0.6	0.6	0.6	0.6	0.5	0.3	0.4	0.8	0.5	0.3	0.3
115°	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.8	0.5	0.4	0.3
115.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.8	0.5	0.4	0.3
116°	0.6	0.7	0.6	0.6	0.4	0.4	0.4	0.8	0.6	0.5	0.6
116.5°	0.6	0.7	0.7	0.6	0.6	0.5	0.7	0.8	0.6	0.4	0.6
117°	0.6	0.8	0.7	0.6	0.6	0.5	0.6	0.8	0.6	0.4	0.6
117.5°	0.6	0.8	0.7	0.6	0.6	0.5	0.6	0.8	0.6	0.4	0.6
118°	0.7	0.8	0.8	0.7	0.4	0.6	0.6	0.8	0.6	0.5	0.5
118.5°	0.7	0.8	0.7	0.6	0.6	0.6	0.6	0.8	0.7	0.5	0.5
119°	0.6	0.8	0.7	0.8	0.8	0.7	0.6	0.8	0.7	0.5	0.5
119.5°	0.7	0.8	0.8	0.9	0.6	0.7	0.7	0.9	0.6	0.3	0.5
120°	0.8	0.9	0.8	1.0	0.5	0.6	0.7	0.9	0.6	0.5	0.5
120.5°	0.8	0.9	0.8	1.0	0.5	0.6	0.6	0.9	0.6	0.4	0.5
121°	0.8	0.9	0.8	1.0	0.5	0.5	0.6	0.9	0.6	0.4	0.5
121.5°	0.8	0.9	0.8	1.0	0.6	0.5	0.6	0.9	0.7	0.9	0.5
122°	0.8	0.9	0.9	1.0	0.4	0.4	0.6	1.0	0.6	0.6	0.5
122.5°	0.8	1.0	0.9	1.0	0.6	0.4	0.6	1.0	0.6	0.6	0.6
123°	0.8	0.9	0.9	1.0	0.6	0.8	0.6	0.9	0.8	0.6	0.6
123.5°	0.8	1.0	0.9	1.0	0.6	0.8	0.6	1.0	0.8	0.6	0.6
124°	1.0	1.0	1.0	1.0	0.5	0.7	0.6	0.6	0.8	0.6	0.6
124.5°	1.0	1.0	1.0	1.0	0.6	0.7	0.6	0.8	0.8	0.6	0.8
125°	0.9	1.0	1.0	1.0	0.6	0.7	0.6	0.8	0.7	0.6	0.7
125.5°	0.9	1.0	1.1	1.0	0.6	0.7	0.6	0.7	0.7	0.6	0.7
126°	0.9	1.0	1.0	1.0	0.7	0.7	0.6	0.7	0.7	0.7	0.7
126.5°	1.0	1.0	1.0	1.0	0.6	0.7	0.6	0.7	0.7	0.7	0.7
127°	1.0	1.0	1.2	1.0	0.7	0.6	0.8	0.7	0.7	0.6	0.6
127.5°	1.0	1.0	1.2	1.0	0.6	0.6	0.7	0.7	0.7	0.6	0.6
128°	1.0	1.0	1.1	1.0	0.6	0.6	0.7	0.7	0.7	0.5	0.6
128.5°	1.0	1.0	1.1	1.0	0.6	0.5	0.8	0.7	0.7	0.5	0.6
129°	1.0	1.0	1.1	1.0	0.6	0.5	0.7	0.7	0.8	0.6	0.6
129.5°	1.0	1.0	1.1	1.0	0.6	0.6	0.7	0.7	0.8	0.5	0.6
130°	1.0	1.1	1.1	1.1	0.8	0.6	0.7	0.7	0.8	0.5	0.6
130.5°	1.0	1.0	1.1	1.0	0.8	0.8	0.7	0.7	0.8	0.5	0.6
131°	1.0	1.2	1.1	1.1	0.8	0.8	0.7	0.7	0.8	0.6	0.6
131.5°	1.0	1.2	1.1	1.1	0.8	0.7	0.8	0.7	0.8	0.7	0.6
132°	1.1	1.1	1.1	1.2	0.6	0.7	0.7	0.7	0.8	0.6	0.6
132.5°	1.1	1.1	1.1	1.2	0.6	0.6	0.7	0.8	0.8	0.6	0.6
133°	1.2	1.1	1.1	1.0	0.7	0.6	0.7	0.8	0.8	0.7	0.5
133.5°	1.2	1.1	1.1	1.2	0.8	0.5	0.6	0.8	0.8	0.7	0.9



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.1	1.1	1.1	1.1	0.8	0.8	0.7	1.0	0.8	0.7	0.6
135.5°	1.1	1.1	1.1	1.1	0.8	0.8	0.7	1.0	0.7	0.7	0.7
136°	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.7	0.8	0.7	0.6
136.5°	1.1	1.1	1.1	1.1	0.8	0.7	0.8	0.7	0.8	0.8	0.6
137°	1.1	1.1	1.1	1.1	0.8	0.6	0.8	0.8	0.8	0.7	0.7
137.5°	1.1	1.1	1.1	1.1	0.8	0.6	0.8	0.8	0.8	0.6	0.6
138°	1.1	1.1	1.1	1.1	0.8	0.8	0.9	0.8	0.8	0.6	0.6
138.5°	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.6	0.6
139°	1.1	1.1	1.1	1.1	0.8	0.9	0.8	0.8	0.8	0.7	0.8
139.5°	1.1	1.1	1.1	1.1	0.6	0.9	0.8	0.8	0.8	0.8	0.6
140°	1.1	1.1	1.1	1.1	0.6	0.8	0.8	0.6	0.8	0.8	0.7
140.5°	1.1	1.1	1.1	1.1	0.7	0.8	0.8	0.6	0.8	0.7	0.8
141°	1.1	1.1	1.1	1.1	0.7	0.8	0.8	1.0	0.8	0.6	0.8
141.5°	1.1	1.1	1.1	1.1	0.8	0.7	0.8	1.1	0.8	0.8	0.8
142°	1.1	1.1	1.1	1.1	0.8	0.8	0.9	1.1	0.8	0.8	0.8
142.5°	1.1	1.1	1.1	1.1	0.9	0.9	0.9	1.0	0.8	0.6	0.8
143°	1.1	1.1	1.1	1.1	0.8	0.9	0.9	1.1	0.8	0.6	1.0
143.5°	1.1	1.1	1.1	1.1	0.7	0.9	0.9	1.1	0.8	0.8	1.0
144°	1.1	1.1	1.1	1.1	0.7	0.9	1.0	1.1	0.8	0.8	0.9
144.5°	1.1	1.1	1.1	1.1	0.8	0.8	1.0	1.2	1.0	0.9	0.9
145°	1.1	1.1	1.1	1.1	0.8	0.8	1.0	1.2	1.0	1.0	0.9
145.5°	1.1	1.1	1.1	1.1	0.8	0.8	1.0	1.2	1.0	1.0	1.0
146°	1.1	1.1	1.1	1.1	0.7	0.8	1.0	1.2	1.0	1.0	1.0
146.5°	1.1	1.1	1.1	1.1	0.8	0.8	1.0	1.2	1.0	1.0	1.0
147°	1.1	1.1	1.1	1.1	0.8	0.8	1.0	1.2	1.0	1.0	1.0
147.5°	1.1	1.1	1.1	1.1	0.8	0.8	1.1	0.9	1.0	1.0	1.1
148°	1.1	1.1	1.1	1.1	0.8	0.8	1.1	0.7	1.0	1.1	1.1
148.5°	1.1	1.1	1.1	1.1	0.9	0.8	1.1	1.2	1.0	1.1	1.0
149°	1.1	1.1	1.1	1.1	0.9	0.8	1.1	1.2	1.0	1.0	1.0
149.5°	1.1	1.2	1.1	1.1	1.0	0.9	1.1	1.0	1.2	1.0	1.1
150°	1.1	1.2	1.1	1.1	0.8	0.9	1.1	1.0	1.2	1.0	1.1
150.5°	1.1	1.8	1.1	1.1	0.9	0.9	1.1	1.0	1.1	0.9	1.2
151°	1.1	1.5	1.1	1.1	0.9	0.9	1.1	1.0	1.1	0.9	1.2
151.5°	1.1	1.5	1.1	1.1	1.0	1.0	1.1	1.0	1.1	1.0	1.1
152°	1.1	1.4	1.1	1.2	1.0	0.9	1.1	1.0	1.2	1.0	1.2
152.5°	1.1	1.4	1.1	1.2	1.0	0.9	1.1	1.0	1.2	0.9	1.2
153°	1.1	1.4	1.1	1.2	1.0	1.1	1.1	1.0	1.2	1.0	1.2
153.5°	1.1	1.4	1.1	1.2	0.8	1.1	1.1	1.0	1.3	1.1	1.2
154°	1.1	1.4	1.1	1.2	1.0	1.1	1.1	1.0	1.2	1.0	1.2
154.5°	1.1	1.4	1.1	1.2	1.0	1.0	1.1	1.0	1.2	0.9	1.2
155°	1.1	1.4	1.1	1.2	1.0	1.2	1.1	1.0	1.2	1.1	1.2
155.5°	1.1	1.4	1.1	1.2	1.0	1.1	1.1	0.9	1.2	1.2	1.2
156°	1.1	1.4	1.1	1.2	1.0	1.1	1.1	1.0	1.3	1.2	1.4



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	1.5	1.4	1.1	1.3	1.1	1.2	1.0	1.2	1.3	1.2	1.3
158°	1.5	1.4	1.2	1.5	1.1	1.2	1.1	1.2	1.3	1.2	1.3
158.5°	1.5	1.4	1.2	1.6	1.1	1.3	1.4	1.2	1.3	1.2	1.3
159°	1.5	1.4	1.2	1.5	1.1	1.2	1.4	1.3	1.3	1.2	1.3
159.5°	1.5	1.4	1.2	1.5	1.1	1.3	1.3	1.5	1.5	1.2	1.4
160°	1.5	1.4	1.2	1.5	1.1	1.5	1.3	1.4	1.5	1.2	1.4
160.5°	1.5	1.4	1.2	1.5	1.2	1.5	1.3	1.4	1.2	1.2	1.4
161°	1.5	1.4	1.2	1.5	1.2	1.4	1.3	1.5	1.2	1.2	1.5
161.5°	1.5	1.4	1.2	1.5	1.2	1.4	1.3	1.7	1.3	1.4	1.6
162°	1.5	1.4	1.2	1.5	1.2	1.4	1.5	1.5	1.5	1.3	1.6
162.5°	1.5	1.4	1.2	1.5	1.2	1.5	1.5	1.5	1.5	1.4	1.7
163°	1.5	1.4	1.2	1.5	1.2	1.5	1.5	1.5	1.5	1.2	1.5
163.5°	1.5	1.4	1.2	1.5	1.3	1.5	1.5	1.5	1.7	1.3	1.4
164°	1.5	1.4	1.2	1.5	1.4	1.5	1.5	1.5	1.7	1.5	1.4
164.5°	1.5	1.4	1.2	1.5	1.2	1.7	1.6	1.5	1.6	1.5	1.5
165°	1.5	1.4	1.2	1.5	1.3	1.7	1.6	1.7	1.6	1.5	1.4
165.5°	1.5	1.4	1.2	1.6	1.5	1.7	1.5	1.7	1.6	1.5	1.4
166°	1.5	1.4	1.2	1.6	1.5	1.7	1.5	1.7	1.6	1.5	1.4
166.5°	1.5	1.4	1.2	1.6	1.5	1.7	1.5	1.7	1.7	1.5	1.4
167°	1.5	1.4	1.2	1.6	1.5	1.8	1.5	1.7	1.7	1.5	1.4
167.5°	1.5	1.4	1.2	1.6	1.5	1.7	1.5	1.7	1.7	1.5	1.4
168°	1.5	1.4	1.2	1.6	1.5	1.7	1.5	1.7	1.7	1.5	1.4
168.5°	1.5	1.4	1.2	1.6	1.5	1.7	1.5	1.7	1.7	1.5	1.4
169°	1.5	1.4	1.2	1.6	1.7	1.7	1.5	1.7	1.7	1.5	1.4
169.5°	1.5	1.4	1.2	1.6	1.6	1.7	1.5	1.7	1.7	1.5	1.4
170°	1.5	1.4	1.2	1.6	1.6	1.7	1.5	1.7	1.7	1.5	1.4
170.5°	1.5	1.4	1.2	1.6	1.6	1.7	1.5	1.7	1.7	1.5	1.4
171°	1.5	1.4	1.3	1.6	1.7	1.7	1.6	1.7	1.7	1.5	1.4
171.5°	1.5	1.4	1.3	1.6	1.5	1.7	1.6	1.7	1.7	1.5	1.4
172°	1.5	1.4	1.3	1.6	1.5	1.7	1.8	1.7	1.7	1.5	1.4
172.5°	1.5	1.4	1.3	1.6	1.5	1.7	1.8	1.7	1.7	1.5	1.4
173°	1.5	1.4	1.3	1.6	1.5	1.7	1.7	1.7	1.7	1.5	1.4
173.5°	1.5	1.4	1.3	1.6	1.5	1.7	1.7	1.7	1.7	1.5	1.4
174°	1.5	1.4	1.3	1.7	1.6	1.7	1.7	1.7	1.7	1.5	1.4
174.5°	1.5	1.4	1.3	1.8	1.6	1.7	1.7	1.7	1.7	1.5	1.4
175°	1.5	1.4	1.3	1.7	1.6	1.7	1.7	1.7	1.7	1.5	1.4
175.5°	1.5	1.4	1.3	1.7	1.6	1.7	1.7	1.7	1.7	1.5	1.4
176°	1.5	1.4	1.3	1.7	1.6	1.7	1.7	1.7	1.7	1.5	1.4
176.5°	1.5	1.4	1.3	1.8	1.6	1.7	1.7	1.7	1.7	1.5	1.4
177°	1.5	1.4	1.3	1.7	1.6	1.7	1.7	1.7	1.7	1.5	1.4
177.5°	1.5	1.4	1.3	1.8	1.7	1.7	1.7	1.7	1.7	1.5	1.4
178°	1.5	1.4	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.5	1.4
178.5°	1.5	1.4	1.3	1.7	1.5	1.7	1.7	1.7	1.7	1.5	1.4



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	449.4	449.4	449.4	449.4	449.4	449.4
0.5°	449.6	449.5	449.3	449.6	449.6	449.3
1°	449.6	449.5	449.4	449.6	449.7	449.3
1.5°	449.5	449.5	449.4	449.8	449.6	449.4
2°	449.6	449.5	449.4	449.7	449.6	449.4
2.5°	449.5	449.5	449.4	449.7	449.6	449.2
3°	449.4	449.6	449.4	449.7	449.4	449.0
3.5°	449.2	449.6	449.4	449.7	449.2	448.7
4°	449.0	449.4	449.5	449.3	448.8	448.2
4.5°	448.8	449.3	449.0	449.1	448.6	447.9
5°	448.5	449.0	448.8	448.8	448.2	447.4
5.5°	448.1	448.7	448.5	448.3	447.6	447.1
6°	447.9	448.3	448.2	448.0	447.2	446.5
6.5°	447.6	447.8	447.8	447.4	446.9	446.0
7°	446.9	447.5	447.3	447.1	446.3	445.5
7.5°	446.4	447.1	446.7	446.5	445.8	444.8
8°	446.0	446.5	446.2	445.9	445.0	444.2
8.5°	445.4	445.9	445.5	445.2	444.4	443.7
9°	444.9	445.3	444.9	444.5	443.6	442.8
9.5°	444.2	444.5	444.1	443.8	443.0	442.0
10°	443.8	444.0	443.3	443.1	442.1	441.3
10.5°	443.0	443.1	442.7	442.3	441.4	440.5
11°	442.2	442.5	442.0	441.4	440.5	439.5
11.5°	441.4	441.6	441.2	440.3	439.7	438.6
12°	440.7	440.6	440.1	439.7	438.8	437.5
12.5°	439.7	439.7	439.2	438.7	437.8	436.7
13°	438.7	438.9	438.3	437.7	436.9	435.7
13.5°	437.9	438.1	437.2	436.9	436.0	434.6
14°	436.9	437.1	436.3	435.7	434.7	433.4
14.5°	435.9	436.0	435.3	434.6	433.6	432.2
15°	434.8	435.2	434.3	433.3	432.5	431.2
15.5°	433.7	434.0	433.0	432.1	431.2	429.9
16°	432.6	432.7	431.9	431.0	429.8	428.7
16.5°	431.6	431.5	430.6	429.8	428.7	427.3
17°	430.3	430.7	429.5	428.5	427.3	426.1
17.5°	429.1	429.1	428.3	427.3	426.0	424.8
18°	427.8	427.9	426.9	426.1	424.7	423.5
18.5°	426.5	426.6	425.5	424.6	423.2	422.1
19°	425.0	425.2	424.2	423.3	421.7	420.7
19.5°	423.9	424.0	422.8	422.0	420.4	419.2
20°	422.5	422.5	421.4	420.5	418.9	417.6
20.5°	421.0	421.3	419.8	419.0	417.4	416.0
21°	419.5	419.8	418.4	417.4	415.8	414.6



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	414.8	415.2	413.8	412.8	410.9	409.5
23°	413.2	413.5	412.1	410.8	409.2	407.7
23.5°	411.6	412.1	410.3	409.2	407.4	405.9
24°	409.8	410.1	408.7	407.3	405.6	404.0
24.5°	408.3	408.5	407.1	405.5	403.8	402.3
25°	406.5	406.7	405.2	403.7	401.9	400.2
25.5°	404.8	405.0	403.3	401.9	399.9	398.3
26°	402.8	403.1	401.6	399.8	398.1	396.6
26.5°	401.1	401.4	399.7	398.0	395.9	394.5
27°	399.2	399.4	397.7	396.0	394.2	392.4
27.5°	397.5	397.5	395.6	394.1	392.2	390.4
28°	395.5	395.3	393.7	392.0	390.1	388.3
28.5°	393.5	393.4	391.5	390.0	388.1	386.1
29°	391.5	391.4	389.7	387.9	385.9	383.9
29.5°	389.5	389.4	387.5	385.8	383.6	381.8
30°	387.3	387.3	385.4	383.6	381.5	379.6
30.5°	385.4	385.4	383.5	381.4	379.4	377.3
31°	383.3	383.1	381.3	379.5	377.3	375.1
31.5°	381.2	381.0	379.1	377.3	375.1	372.8
32°	378.9	378.9	376.7	374.9	372.7	370.5
32.5°	377.0	376.8	374.6	372.8	370.6	368.3
33°	374.6	374.4	372.4	370.3	368.1	365.7
33.5°	372.3	372.3	369.9	368.1	365.9	363.4
34°	370.0	369.7	367.7	365.5	363.4	360.8
34.5°	367.8	367.3	365.3	363.1	361.0	358.5
35°	365.3	365.1	362.9	360.5	358.5	355.9
35.5°	363.1	362.6	360.3	358.2	355.9	353.5
36°	360.7	359.9	357.9	355.6	353.5	350.9
36.5°	358.3	357.7	355.5	353.0	350.9	348.3
37°	355.8	355.1	352.9	350.5	348.2	345.8
37.5°	353.3	352.5	350.3	348.1	345.6	343.4
38°	350.8	350.0	347.8	345.3	343.1	340.6
38.5°	348.2	347.5	345.0	342.8	340.4	337.8
39°	345.5	344.8	342.4	340.1	337.6	335.1
39.5°	342.9	342.2	339.7	337.3	334.9	332.4
40°	340.3	339.5	337.0	334.2	332.1	329.6
40.5°	337.7	336.9	334.4	331.7	329.3	326.8
41°	334.8	334.2	331.6	329.1	326.5	324.1
41.5°	332.2	331.3	328.9	326.3	323.5	321.1
42°	329.3	328.5	326.1	323.3	320.6	318.3
42.5°	326.6	326.0	323.3	320.5	317.7	315.3
43°	323.7	323.0	320.5	317.7	314.8	312.3
43.5°	320.9	320.1	317.6	314.8	311.8	309.4



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	312.2	311.4	308.7	306.0	302.9	300.6
45.5°	309.4	308.6	305.8	303.0	299.9	297.4
46°	306.7	305.8	302.7	299.9	296.9	294.5
46.5°	303.7	302.7	299.7	297.0	293.9	291.2
47°	300.6	299.6	296.8	294.0	290.6	288.2
47.5°	297.5	297.0	293.7	290.6	287.4	284.8
48°	294.4	293.6	290.8	287.6	284.3	281.6
48.5°	291.5	290.5	287.6	284.3	281.4	278.4
49°	288.2	287.5	284.4	281.2	278.0	275.2
49.5°	285.2	284.2	281.1	277.9	274.9	271.9
50°	281.9	280.9	278.0	274.7	271.7	268.5
50.5°	278.8	277.6	274.8	271.7	268.4	265.1
51°	275.8	274.4	271.6	268.4	265.2	262.0
51.5°	272.6	271.3	268.4	265.1	261.8	258.6
52°	269.2	268.2	265.2	261.8	258.3	255.2
52.5°	266.0	264.7	261.7	258.5	255.1	252.0
53°	262.7	261.3	258.5	255.3	251.7	248.7
53.5°	259.3	257.8	255.1	251.8	248.3	245.0
54°	256.0	254.7	251.8	248.4	244.9	241.6
54.5°	252.6	251.3	248.5	245.0	241.5	238.3
55°	249.3	247.9	245.1	241.6	237.9	234.8
55.5°	246.1	244.4	241.7	238.3	234.6	231.3
56°	242.5	241.0	238.2	234.8	231.1	227.9
56.5°	239.1	237.6	234.9	231.4	227.7	224.5
57°	235.7	234.3	231.5	228.0	224.2	221.0
57.5°	232.3	230.8	228.1	224.6	220.8	217.5
58°	228.9	227.4	224.6	221.1	217.4	214.0
58.5°	225.4	224.0	221.2	217.6	213.9	210.4
59°	221.9	220.7	217.8	214.1	210.3	206.8
59.5°	218.4	217.1	214.3	210.6	206.6	203.4
60°	214.7	213.6	210.7	207.0	202.9	199.8
60.5°	211.1	210.0	207.1	203.5	199.4	196.1
61°	207.7	206.5	203.6	199.8	195.9	192.6
61.5°	204.2	203.0	200.0	196.2	192.1	189.0
62°	200.6	199.4	196.4	192.4	188.6	185.3
62.5°	197.0	195.7	192.6	188.9	184.9	181.5
63°	193.5	192.1	189.0	185.2	181.2	177.9
63.5°	189.9	188.7	185.3	181.5	177.6	174.1
64°	186.3	184.9	181.8	177.9	173.9	170.5
64.5°	182.8	181.2	178.0	174.1	170.2	166.9
65°	179.0	177.6	174.5	170.3	166.6	163.2
65.5°	175.3	173.9	170.7	166.8	163.0	159.5
66°	171.7	170.2	167.0	163.2	159.1	155.7



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	160.6	159.4	156.0	152.0	147.9	144.5
68°	156.7	155.6	152.4	148.3	144.1	140.7
68.5°	153.0	151.8	148.7	144.7	140.3	136.9
69°	149.2	148.0	144.9	140.8	136.6	133.2
69.5°	145.3	144.2	141.1	137.3	132.8	129.6
70°	141.7	140.5	137.5	133.5	129.3	125.8
70.5°	138.0	136.8	133.6	129.9	125.6	122.0
71°	134.1	133.0	130.1	126.0	121.8	118.3
71.5°	130.5	129.5	126.4	122.4	118.2	114.8
72°	127.0	125.7	122.7	118.6	114.6	111.0
72.5°	123.4	122.0	118.9	115.0	110.9	107.4
73°	119.5	118.3	115.2	111.3	107.2	103.7
73.5°	115.7	114.8	111.6	107.6	103.6	100.2
74°	112.2	111.0	107.9	103.9	100.0	96.4
74.5°	108.5	107.5	104.1	100.3	96.4	93.0
75°	105.0	103.7	100.6	96.7	93.0	89.5
75.5°	101.4	100.1	97.0	93.2	89.5	85.9
76°	98.0	96.5	93.5	89.8	85.9	82.4
76.5°	94.4	93.0	89.9	86.1	82.4	78.7
77°	90.8	89.5	86.3	82.7	79.0	75.2
77.5°	87.2	85.9	82.7	79.1	75.5	71.7
78°	83.8	82.3	79.2	75.6	71.9	68.2
78.5°	80.3	78.8	75.7	72.2	68.3	64.8
79°	76.9	75.2	72.1	68.7	64.9	61.2
79.5°	73.4	71.5	68.7	65.2	61.4	57.7
80°	69.9	68.1	65.2	61.6	57.9	54.2
80.5°	66.5	64.7	61.7	58.1	54.5	50.8
81°	63.3	61.3	58.2	54.9	51.0	47.4
81.5°	59.9	57.8	54.8	51.5	47.6	44.1
82°	56.7	54.4	51.4	48.0	44.4	41.1
82.5°	53.3	50.9	48.0	44.7	41.2	37.6
83°	50.0	47.6	44.6	41.6	37.8	34.4
83.5°	46.9	44.2	41.6	38.3	34.7	31.2
84°	43.7	41.1	38.4	35.2	31.5	28.3
84.5°	40.6	37.8	35.3	32.1	28.6	25.2
85°	37.4	34.5	32.1	29.0	25.5	22.5
85.5°	34.3	31.4	29.1	26.0	22.7	19.6
86°	31.1	28.4	26.1	23.4	19.9	16.8
86.5°	28.2	25.6	23.4	20.4	17.1	14.0
87°	25.1	22.7	20.5	17.7	14.5	11.3
87.5°	22.6	19.9	17.7	15.0	11.8	8.7
88°	19.8	17.2	15.1	12.3	9.1	6.4
88.5°	16.9	14.3	12.4	9.7	6.7	4.0



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	8.9	6.9	5.2	2.6	0.9	0.7
90.5°	6.6	4.8	3.0	1.1	0.7	0.6
91°	4.4	2.5	1.3	0.6	0.6	0.6
91.5°	2.3	0.9	0.7	0.6	0.6	0.6
92°	0.5	0.7	0.6	0.6	0.6	0.6
92.5°	0.2	0.7	0.7	0.6	0.6	0.6
93°	0.2	0.6	0.7	0.6	0.6	0.6
93.5°	0.1	0.6	0.6	0.6	0.6	0.6
94°	0.1	0.6	0.6	0.6	0.6	0.6
94.5°	0.1	0.6	0.6	0.6	0.6	0.6
95°	0.1	0.6	0.6	0.6	0.6	0.6
95.5°	0.1	0.6	0.6	0.6	0.6	0.6
96°	0.2	0.6	0.6	0.6	0.6	0.6
96.5°	0.1	0.6	0.6	0.6	0.6	0.6
97°	0.2	0.6	0.6	0.6	0.6	0.6
97.5°	0.2	0.6	0.6	0.6	0.6	0.6
98°	0.1	0.6	0.6	0.6	0.6	0.6
98.5°	0.1	0.6	0.6	0.6	0.6	0.6
99°	0.1	0.6	0.6	0.6	0.6	0.6
99.5°	0.1	0.6	0.6	0.6	0.6	0.6
100°	0.1	0.6	0.6	0.6	0.6	0.6
100.5°	0.1	0.6	0.6	0.6	0.6	0.6
101°	0.1	0.6	0.6	0.6	0.6	0.6
101.5°	0.1	0.6	0.6	0.6	0.6	0.6
102°	0.1	0.6	0.6	0.6	0.6	0.6
102.5°	0.1	0.6	0.6	0.6	0.6	0.6
103°	0.1	0.6	0.6	0.6	0.6	0.6
103.5°	0.1	0.6	0.6	0.6	0.6	0.6
104°	0.2	0.6	0.6	0.6	0.6	0.6
104.5°	0.2	0.6	0.6	0.6	0.6	0.6
105°	0.2	0.6	0.6	0.6	0.6	0.6
105.5°	0.2	0.6	0.6	0.6	0.6	0.6
106°	0.2	0.6	0.6	0.6	0.6	0.6
106.5°	0.2	0.6	0.6	0.6	0.6	0.6
107°	0.3	0.6	0.6	0.6	0.6	0.6
107.5°	0.3	0.6	0.6	0.6	0.6	0.6
108°	0.3	0.6	0.6	0.6	0.6	0.6
108.5°	0.3	0.6	0.6	0.6	0.6	0.6
109°	0.3	0.6	0.6	0.6	0.6	0.6
109.5°	0.3	0.6	0.6	0.6	0.6	0.6
110°	0.3	0.6	0.6	0.6	0.6	0.6
110.5°	0.3	0.6	0.6	0.6	0.6	0.6
111°	0.3	0.6	0.6	0.6	0.6	0.6



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.3	0.6	0.6	0.6	0.6	0.6
113°	0.6	0.6	0.6	0.6	0.6	0.6
113.5°	0.4	0.6	0.6	0.6	0.6	0.6
114°	0.4	0.6	0.6	0.6	0.6	0.6
114.5°	0.3	0.6	0.6	0.6	0.6	0.6
115°	0.3	0.6	0.6	0.6	0.6	0.6
115.5°	0.5	0.6	0.6	0.6	0.6	0.6
116°	0.5	0.6	0.6	0.6	0.6	0.6
116.5°	0.5	0.6	0.6	0.6	0.6	0.6
117°	0.5	0.6	0.6	0.6	0.6	0.6
117.5°	0.3	0.6	0.6	0.6	0.6	0.6
118°	0.3	0.6	0.7	0.6	0.6	0.7
118.5°	0.4	0.6	0.8	0.7	0.6	0.7
119°	0.5	0.6	0.7	0.8	0.6	0.6
119.5°	0.5	0.6	0.7	0.8	0.6	0.7
120°	0.5	0.6	0.7	0.8	0.8	0.8
120.5°	0.6	0.6	0.8	0.8	0.8	0.8
121°	0.6	0.6	0.8	0.9	0.8	0.8
121.5°	0.6	0.6	0.8	0.9	0.8	0.8
122°	0.7	0.7	0.8	0.9	0.8	0.8
122.5°	0.4	0.7	0.8	0.9	0.9	0.8
123°	0.5	0.7	0.9	0.9	0.9	0.8
123.5°	0.5	0.7	0.8	0.9	0.9	0.8
124°	0.4	0.8	0.8	1.0	0.9	1.0
124.5°	0.6	0.8	0.8	1.0	1.0	1.0
125°	0.6	0.9	0.8	1.0	1.0	0.9
125.5°	0.5	0.8	0.8	1.0	1.0	0.9
126°	0.5	0.8	0.8	1.0	1.0	0.9
126.5°	0.5	1.0	0.9	1.0	1.0	1.0
127°	0.5	1.0	0.8	1.0	1.0	1.0
127.5°	0.7	0.9	0.8	1.0	1.0	1.0
128°	0.7	0.9	1.0	1.0	1.0	1.0
128.5°	0.7	1.0	1.0	1.0	1.1	1.0
129°	0.6	1.0	1.0	1.0	1.1	1.0
129.5°	0.6	1.0	1.1	1.0	1.1	1.0
130°	0.6	1.0	1.1	1.0	1.1	1.0
130.5°	0.6	1.0	1.0	1.0	1.2	1.0
131°	0.6	1.1	1.0	1.0	1.2	1.0
131.5°	0.6	1.1	1.0	1.0	1.2	1.0
132°	0.6	1.0	1.0	1.0	1.2	1.1
132.5°	0.6	1.0	1.1	1.0	1.2	1.1
133°	0.6	1.0	1.1	1.0	1.2	1.2
133.5°	0.8	1.0	1.2	1.0	1.2	1.2



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.1	1.2	1.1	1.1	1.1	1.5
158°	1.1	1.2	1.1	1.1	1.1	1.5
158.5°	1.1	1.2	1.1	1.1	1.1	1.5
159°	1.4	1.2	1.1	1.1	1.2	1.5
159.5°	1.1	1.2	1.1	1.1	1.2	1.5
160°	1.2	1.2	1.1	1.1	1.2	1.5
160.5°	1.2	1.2	1.1	1.1	1.2	1.5
161°	1.3	1.2	1.7	1.2	1.2	1.5
161.5°	1.3	1.2	1.7	1.2	1.2	1.5
162°	1.3	1.2	1.7	1.2	1.2	1.5
162.5°	1.3	1.2	1.7	1.2	1.2	1.5
163°	1.3	1.2	1.7	1.2	1.2	1.5
163.5°	1.3	1.3	1.7	1.2	1.2	1.5
164°	1.3	1.3	1.7	1.2	1.6	1.5
164.5°	1.4	1.4	1.7	1.2	1.7	1.5
165°	1.4	1.5	1.7	1.2	1.7	1.5
165.5°	1.0	1.8	1.7	1.2	1.7	1.5
166°	1.3	1.8	1.7	1.3	1.7	1.5
166.5°	1.5	1.7	1.7	1.2	1.7	1.5
167°	1.5	1.7	1.7	1.3	1.7	1.5
167.5°	1.4	1.7	1.7	1.9	1.7	1.5
168°	1.4	1.7	1.7	1.8	1.7	1.5
168.5°	1.4	1.7	1.7	1.8	1.7	1.5
169°	1.4	1.7	1.7	1.8	1.7	1.5
169.5°	1.4	1.7	1.7	1.8	1.7	1.5
170°	1.4	1.7	1.7	1.8	1.7	1.5
170.5°	1.4	1.7	1.7	1.8	1.7	1.5
171°	1.4	1.7	1.7	1.8	1.7	1.5
171.5°	1.4	1.7	1.7	1.8	1.7	1.5
172°	1.4	1.7	1.7	1.8	1.7	1.5
172.5°	1.4	1.7	1.7	1.8	1.7	1.5
173°	1.4	1.7	1.7	1.7	1.7	1.5
173.5°	1.4	1.7	1.7	1.7	1.7	1.5
174°	1.4	1.7	1.7	1.7	1.7	1.5
174.5°	1.4	1.7	1.7	1.7	1.7	1.5
175°	1.4	1.7	1.7	1.7	1.7	1.5
175.5°	1.4	1.7	1.7	1.7	1.7	1.5
176°	1.4	1.7	1.7	1.7	1.7	1.5
176.5°	1.4	1.7	1.7	1.7	1.7	1.5
177°	1.4	1.7	1.7	1.8	1.7	1.5
177.5°	1.4	1.7	1.7	1.8	1.7	1.5
178°	1.4	1.7	1.7	1.8	1.7	1.5
178.5°	1.4	1.7	1.7	1.8	1.7	1.5



TEST NUMBER: P417441

CATALOG NUMBER: SMD6S129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.5	1.5	1.5	1.5	1.5	1.5



Report Generated By E9808895 / USPTCWHP6082093





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







21.5°	412.8	410.1	409.2	408.7	409.7	409.6	411.0	412.8	414.8	416.1	417.2
22°	411.1	408.6	407.4	406.8	408.0	408.1	409.4	411.1	413.3	414.5	415.6



44°	306.6	302.3	299.7	299.1	302.6	303.0	305.4	308.7	313.0	314.9	316.9
44.5°	303.6	299.3	296.5	296.0	299.6	299.9	302.4	305.9	310.1	312.0	313.8



66.5°	151.9	147.1	144.0	143.0	146.3	147.6	151.0	156.0	161.6	164.2	166.1
67°	148.2	143.3	140.2	139.3	142.6	143.8	147.5	152.3	157.9	160.6	162.7



89°	1.7	0.7	0.7	0.6	0.3	0.9	3.4	6.5	9.9	12.4	13.7
89.5°	0.8	0.6	0.7	0.7	0.3	0.3	1.0	4.5	7.4	9.8	11.1



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



134°	1.1	1.1	1.1	1.2	0.8	0.6	0.6	0.9	0.8	0.7	0.6
134.5°	1.1	1.1	1.1	1.1	0.8	0.7	0.7	0.9	0.8	0.7	0.6



156.5°	1.2	1.4	1.1	1.2	1.2	1.3	1.1	1.0	1.3	1.2	1.4
157°	1.2	1.4	1.1	1.3	1.1	1.3	1.1	1.0	1.3	1.2	1.3



179°	1.5	1.4	1.3	1.5	1.5	1.7	1.7	1.7	1.7	1.5	1.4
179.5°	1.5	1.4	1.3	2.0	1.6	1.7	1.7	1.7	1.7	1.5	1.4





21.5°	418.0	418.2	416.6	415.8	414.3	412.8
22°	416.3	416.7	415.4	414.3	412.6	411.1



44°	318.1	317.4	314.7	311.8	308.9	306.6
44.5°	315.2	314.3	311.6	309.0	306.1	303.6



66.5°	168.0	166.7	163.4	159.6	155.3	151.9
67°	164.4	163.0	159.8	155.7	151.6	148.2



89°	14.3	11.8	9.8	7.2	4.6	1.7
89.5°	11.6	9.3	7.5	4.8	2.2	0.8



111.5°	0.3	0.6	0.6	0.6	0.6	0.6
112°	0.3	0.6	0.6	0.6	0.6	0.6



134°	0.6	1.0	1.2	1.0	1.1	1.1
134.5°	0.6	1.0	1.1	1.0	1.1	1.1



156.5°	1.0	1.3	1.1	1.0	1.1	1.2
157°	0.9	1.3	1.1	1.1	1.1	1.2



179°	1.3	1.7	1.7	1.8	1.7	1.5
179.5°	1.3	1.7	1.7	1.8	1.7	1.5



(END OF REPORT)