

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: P417440

Luminaire Tested: **SMD6S129SWH - 4000K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417440
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 - 4000K
Description: SMD SELECTABLE CCT 4000K
Light Source: SELECTABLE CCT LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1291.4 lumens
Efficiency: N/A
Efficacy: 86.7 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

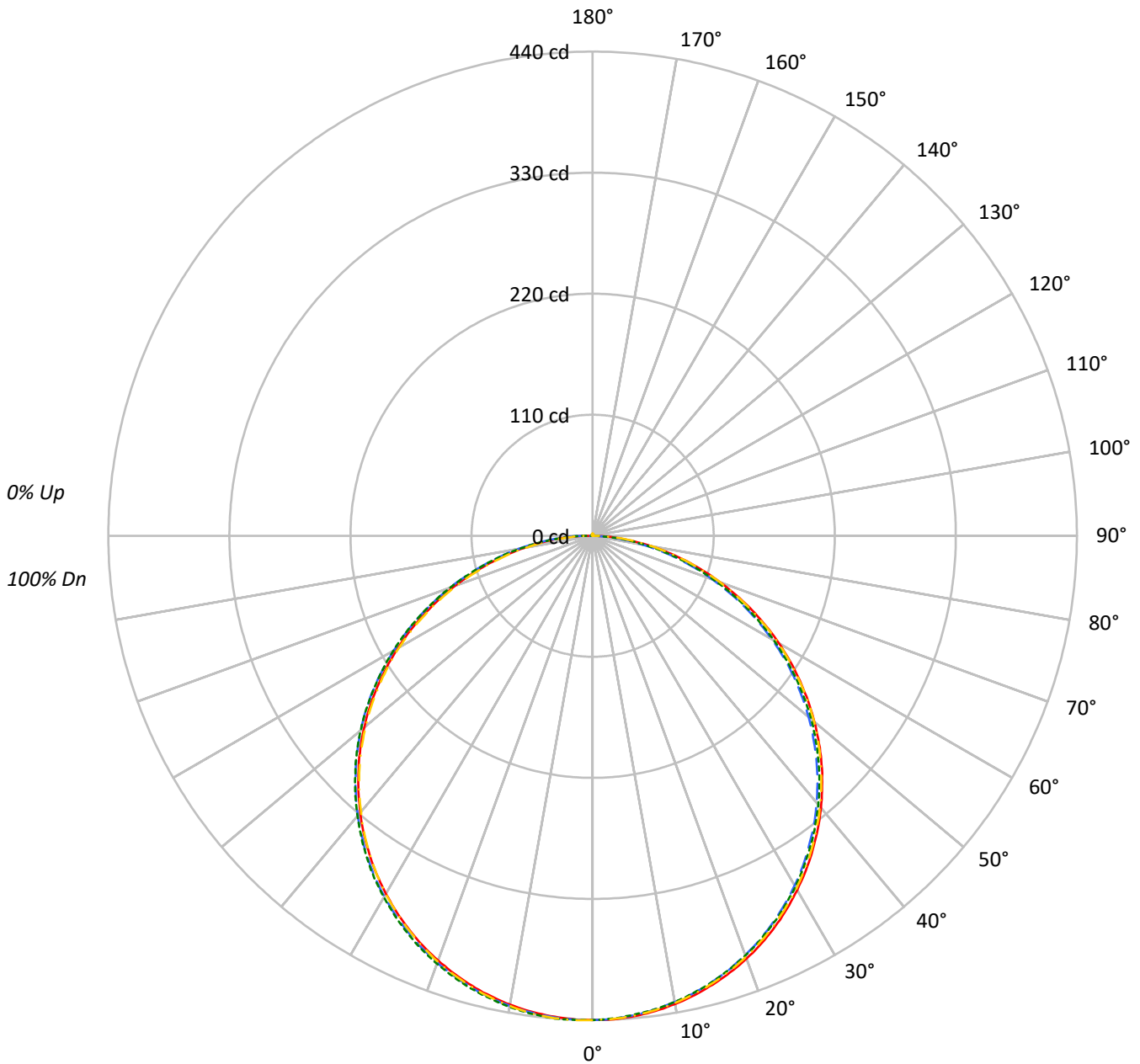
Input Watts (W): 14.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: SMD6S129SWH - 4000K

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°	18949	18949	18949	18949
5°	18935	18874	18939	19004
10°	18891	18804	18909	19009
15°	18819	18708	18873	18993
20°	18735	18598	18818	18955
25°	18618	18456	18751	18917
30°	18480	18316	18673	18852
35°	18318	18128	18575	18791
40°	18143	17929	18458	18683
45°	17920	17670	18316	18565
50°	17616	17369	18139	18420
55°	17258	16927	17911	18218
60°	16843	16378	17610	18006
65°	16290	15710	17207	17717
70°	15509	14779	16730	17322
75°	14573	13658	16153	16902
80°	13166	12125	15670	16538
85°	10868	9386	15660	16697



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	3.2
10°-20°	119.3	9.2
20°-30°	181.1	14.0
30°-40°	219.2	17.0
40°-50°	228.8	17.7
50°-60°	208.6	16.1
60°-70°	161.6	12.5
70°-80°	96.7	7.5
80°-90°	29.9	2.3
90°-100°	0.6	0.0
100°-110°	0.4	0.0
110°-120°	0.5	0.0
120°-130°	0.7	0.1
130°-140°	0.7	0.1
140°-150°	0.6	0.0
150°-160°	0.5	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	342.0	26.5
0°-40°	561.2	43.5
0°-60°	998.6	77.3
0°-90°	1286.8	99.6
90°-120°	1.6	0.1
90°-150°	3.6	0.3
90°-180°	5.0	0.4
0°-180°	1291.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	440	440	440	440	440	
5°	438	437	438	440	438	42
15°	422	420	423	426	422	119
25°	392	388	395	398	392	181
35°	348	345	353	358	348	218
45°	294	290	301	305	294	227
55°	230	226	239	243	230	205
65°	160	154	169	174	160	158
75°	88	82	97	102	88	93
85°	22	19	32	34	22	24
90°	1	0	5	7	1	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	1
115°	0	0	0	0	0	1
125°	1	1	1	1	1	1
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	1
165°	1	1	2	2	1	0
175°	1	2	2	2	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	440.1	440.1	440.1	440.1	440.1	440.1	440.1	440.1	440.1	440.1	440.1
0.5°	440.0	440.1	439.9	440.2	439.9	439.7	440.1	439.9	440.0	440.0	439.9
1°	440.0	440.1	439.9	440.1	439.7	439.7	439.9	439.9	439.9	440.0	440.0
1.5°	440.1	439.8	439.9	439.9	439.6	439.5	439.7	439.9	439.9	440.0	440.0
2°	440.1	439.6	439.5	439.6	439.3	439.4	439.7	439.7	439.9	439.9	439.9
2.5°	439.9	439.5	439.3	439.3	439.0	439.1	439.3	439.2	439.5	439.9	439.9
3°	439.7	439.2	438.9	438.8	438.8	438.8	439.1	439.1	439.3	439.7	439.7
3.5°	439.3	438.8	438.6	438.5	438.7	438.4	439.0	438.9	439.1	439.6	439.5
4°	438.9	438.4	438.1	438.2	437.6	438.0	438.4	438.6	438.9	439.5	439.4
4.5°	438.6	438.0	437.7	437.5	437.3	437.5	438.0	438.0	438.4	439.1	439.1
5°	438.1	437.6	437.2	437.2	436.7	437.1	437.7	437.7	438.2	438.8	438.8
5.5°	437.8	437.1	436.8	436.8	436.2	436.5	437.1	437.1	437.8	438.2	438.4
6°	437.2	436.6	436.2	436.0	435.7	436.0	436.5	436.9	437.2	437.9	438.2
6.5°	436.8	435.8	435.6	435.3	435.2	435.4	436.1	436.3	436.9	437.5	437.8
7°	436.2	435.3	434.8	434.8	434.6	434.8	435.4	435.9	436.3	437.0	437.3
7.5°	435.6	434.6	434.0	434.1	434.2	434.3	434.8	435.2	435.9	436.4	436.7
8°	435.0	433.9	433.5	433.3	433.3	433.7	434.1	434.7	435.3	436.0	436.3
8.5°	434.5	433.2	432.6	432.6	432.5	432.7	433.3	433.9	434.6	435.5	435.7
9°	433.6	432.5	431.9	432.0	431.8	432.0	432.7	433.2	434.0	434.6	435.4
9.5°	432.8	431.7	431.0	431.1	431.0	431.3	431.9	432.4	433.3	434.0	434.6
10°	432.1	430.9	430.2	430.2	430.1	430.4	431.1	431.7	432.5	433.4	433.9
10.5°	431.3	430.0	429.5	429.4	429.3	429.5	430.2	430.8	431.9	432.7	433.0
11°	430.4	429.3	428.5	428.3	428.3	428.6	429.3	430.1	431.1	432.0	432.4
11.5°	429.5	428.1	427.4	427.2	427.5	427.5	428.4	429.2	430.3	431.2	431.6
12°	428.4	427.1	426.4	426.1	426.3	426.6	427.5	428.2	429.3	430.4	430.9
12.5°	427.7	426.0	425.5	425.1	425.4	425.5	426.3	427.2	428.4	429.3	429.9
13°	426.6	425.0	424.5	424.1	424.2	424.4	425.4	426.2	427.5	428.4	429.0
13.5°	425.5	423.9	423.4	423.0	423.2	423.2	424.4	425.3	426.7	427.5	428.1
14°	424.4	422.9	422.3	421.7	422.1	422.2	423.3	424.4	425.5	426.9	427.1
14.5°	423.2	421.6	421.1	420.5	421.1	420.9	422.1	423.2	424.5	425.5	426.0
15°	422.2	420.4	419.7	419.3	419.7	419.9	421.0	422.0	423.4	424.5	424.9
15.5°	420.9	419.1	418.4	418.0	418.5	418.7	419.8	420.8	422.3	423.4	423.9
16°	419.8	418.0	417.1	416.7	417.3	417.5	418.6	419.6	421.1	422.4	422.9
16.5°	418.4	416.6	415.9	415.4	415.8	415.9	417.2	418.4	419.9	421.1	421.8
17°	417.2	415.5	414.5	414.1	414.5	414.7	415.9	417.1	418.7	420.0	420.5
17.5°	416.0	413.9	413.2	412.4	413.3	413.3	414.5	415.9	417.5	418.7	419.3
18°	414.7	412.6	411.7	411.0	411.8	412.0	413.2	414.3	416.2	417.5	418.2
18.5°	413.3	411.1	410.0	409.6	410.1	410.4	411.7	413.1	414.9	416.1	416.8
19°	411.9	409.6	408.4	408.1	408.8	409.1	410.2	411.7	413.4	414.8	415.5
19.5°	410.4	408.0	406.9	406.7	407.5	407.5	408.7	410.2	412.1	413.3	414.3
20°	408.9	406.5	405.5	405.2	405.9	406.0	407.3	408.8	410.7	411.8	412.9
20.5°	407.3	404.9	403.8	403.5	404.4	404.4	405.8	407.2	409.3	410.5	411.4
21°	406.0	403.4	402.3	401.8	402.7	402.8	404.3	405.7	407.7	409.2	409.9



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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°	400.9	398.3	397.1	396.8	397.8	397.8	399.1	400.9	403.1	404.5	405.5
23°	399.2	396.5	395.4	395.1	395.9	396.1	397.6	399.1	401.6	403.0	404.0
23.5°	397.4	394.6	393.5	393.2	394.2	394.3	395.7	397.5	399.9	401.3	402.3
24°	395.6	392.9	391.7	391.2	392.3	392.4	394.1	395.9	398.3	399.6	400.6
24.5°	393.9	391.1	389.7	389.3	390.5	390.7	392.1	394.1	396.6	397.9	398.9
25°	391.9	389.3	387.8	387.5	388.5	389.0	390.4	392.3	394.7	396.1	397.2
25.5°	390.1	387.3	385.8	385.4	386.8	386.9	388.4	390.4	392.9	394.3	395.5
26°	388.4	385.4	383.8	383.5	384.9	384.9	386.5	388.7	391.3	392.7	393.7
26.5°	386.3	383.3	381.9	381.5	382.9	383.0	384.5	386.7	389.4	391.0	391.9
27°	384.2	381.4	379.9	379.6	380.8	381.0	382.7	384.7	387.6	389.1	390.2
27.5°	382.3	379.4	377.7	377.4	378.8	379.0	380.5	382.7	385.6	387.0	388.2
28°	380.2	377.4	375.8	375.4	376.6	376.9	378.5	380.8	383.7	385.1	386.4
28.5°	378.0	375.4	373.5	373.2	374.5	374.9	376.4	378.7	381.8	383.1	384.4
29°	375.9	373.2	371.4	371.3	372.5	372.9	374.5	376.8	379.5	381.1	382.5
29.5°	373.8	371.1	369.2	368.9	370.7	370.9	372.2	374.6	377.6	379.1	380.5
30°	371.7	368.8	367.1	366.7	368.4	368.7	370.3	372.6	375.6	376.9	378.5
30.5°	369.5	366.5	364.8	364.2	366.0	366.7	368.0	370.6	373.4	374.8	376.4
31°	367.3	364.5	362.6	362.2	363.9	364.2	366.0	368.5	371.2	372.8	374.5
31.5°	365.1	362.1	360.1	359.7	361.6	362.1	363.5	366.2	369.4	370.7	372.2
32°	362.8	359.8	357.9	357.5	359.4	359.7	361.3	364.0	367.1	368.8	370.2
32.5°	360.6	357.4	355.5	355.0	357.0	357.5	359.0	361.7	364.9	366.3	367.9
33°	358.1	354.9	353.2	352.7	354.5	355.0	356.7	359.4	362.7	364.1	365.9
33.5°	355.8	352.4	350.6	350.1	352.2	352.8	354.3	357.0	360.5	361.9	363.5
34°	353.4	350.1	348.2	347.7	349.8	350.2	352.1	354.7	358.2	359.8	361.3
34.5°	351.1	347.8	345.7	345.1	347.3	347.9	349.6	352.3	356.0	357.4	358.9
35°	348.5	345.3	343.1	342.6	344.9	345.5	347.2	349.9	353.4	355.0	356.5
35.5°	346.1	342.6	340.6	339.9	342.5	343.0	344.8	347.4	351.1	352.7	354.1
36°	343.6	340.3	338.0	337.6	339.9	340.4	342.2	345.0	348.8	350.3	351.9
36.5°	341.0	337.7	335.6	334.9	337.4	337.8	339.6	342.5	346.4	347.8	349.4
37°	338.6	335.2	332.9	332.4	334.9	335.4	337.1	340.0	343.8	345.4	346.8
37.5°	336.2	332.5	330.2	329.7	332.2	332.7	334.6	337.4	341.4	342.9	344.4
38°	333.5	329.8	327.7	327.1	329.5	330.0	332.0	335.0	338.9	340.3	342.0
38.5°	330.8	327.1	324.9	324.3	326.9	327.4	329.3	332.4	336.4	337.8	339.4
39°	328.1	324.5	322.3	321.5	324.3	324.8	326.8	329.8	333.8	335.5	336.9
39.5°	325.5	321.8	319.4	318.7	321.7	321.9	324.0	327.1	331.2	332.9	334.5
40°	322.8	319.1	316.7	315.9	319.0	319.2	321.3	324.5	328.4	330.1	331.9
40.5°	320.0	316.3	313.9	313.0	316.1	316.5	318.6	321.6	325.8	327.5	329.2
41°	317.4	313.3	310.9	310.3	313.5	313.6	315.9	319.0	323.0	325.0	326.6
41.5°	314.4	310.4	308.0	307.3	310.6	310.8	313.1	316.3	320.5	322.2	324.0
42°	311.6	307.5	305.3	304.6	307.8	308.0	310.3	313.5	317.7	319.5	321.3
42.5°	308.7	304.6	302.3	301.9	304.8	305.0	307.5	310.8	315.0	316.7	318.4
43°	305.9	301.9	299.5	299.0	302.0	302.3	304.7	308.0	312.1	314.1	315.8
43.5°	302.9	298.9	296.5	295.9	299.3	299.5	301.8	305.2	309.4	311.3	313.1



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CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	294.3	289.9	287.5	286.8	290.2	290.6	293.2	296.7	300.8	302.9	304.6
45.5°	291.2	287.0	284.4	283.9	287.2	287.6	290.1	293.7	298.1	300.0	301.7
46°	288.4	284.0	281.3	280.8	284.1	284.6	287.1	290.8	295.1	297.1	299.0
46.5°	285.2	280.9	278.2	277.6	281.2	281.6	284.2	287.8	292.3	294.4	296.1
47°	282.3	277.5	275.0	274.5	278.1	278.6	281.1	284.9	289.1	291.3	293.1
47.5°	278.9	274.5	271.8	271.4	274.9	275.4	278.0	281.7	286.2	288.3	290.1
48°	275.8	271.3	268.9	268.4	271.9	272.4	275.0	278.7	283.1	285.3	287.1
48.5°	272.6	268.4	265.7	265.2	268.6	269.1	272.0	275.6	280.2	282.3	284.0
49°	269.5	265.2	262.7	262.0	265.8	266.2	268.7	272.6	277.2	279.3	281.1
49.5°	266.3	262.2	259.3	258.7	262.7	262.9	265.8	269.3	274.0	276.2	278.0
50°	263.0	258.8	256.1	255.4	259.3	259.7	262.6	266.4	270.8	273.1	274.9
50.5°	259.6	255.4	252.8	252.3	256.1	256.5	259.3	263.3	267.7	269.7	271.9
51°	256.6	252.1	249.6	249.0	252.6	253.3	256.1	260.2	264.7	266.6	268.8
51.5°	253.2	249.1	246.2	245.6	249.3	249.9	252.9	257.0	261.6	263.7	265.7
52°	249.9	245.7	243.0	242.2	245.8	246.6	249.5	253.6	258.3	260.6	262.6
52.5°	246.8	242.4	239.6	239.0	242.5	243.2	246.3	250.3	255.1	257.4	259.3
53°	243.5	239.0	236.2	235.5	238.9	239.9	242.9	247.0	251.7	254.2	255.9
53.5°	239.9	235.7	232.7	232.2	235.5	236.3	239.4	243.7	248.6	250.9	252.7
54°	236.6	232.3	229.6	228.8	232.1	233.0	236.0	240.3	245.3	247.7	249.7
54.5°	233.3	229.1	226.2	225.4	228.9	229.7	232.5	237.0	242.0	244.5	246.3
55°	229.9	225.7	223.0	222.0	225.5	226.3	229.2	233.6	238.6	241.2	242.9
55.5°	226.5	222.4	219.5	218.7	222.1	222.9	225.8	230.2	235.2	237.8	239.5
56°	223.2	219.0	216.2	215.3	218.5	219.4	222.3	226.8	231.8	234.3	236.2
56.5°	219.8	215.7	212.9	212.0	215.1	215.9	218.9	223.4	228.3	230.9	232.8
57°	216.4	212.3	209.3	208.5	211.7	212.5	215.6	219.9	224.9	227.6	229.3
57.5°	213.0	208.7	205.8	205.0	208.1	208.9	212.1	216.4	221.6	224.1	226.0
58°	209.5	205.3	202.3	201.5	204.6	205.5	208.6	213.2	218.3	220.7	222.6
58.5°	206.1	201.8	198.8	198.1	200.9	202.1	205.2	209.6	214.7	217.3	219.2
59°	202.5	198.1	195.3	194.4	197.4	198.7	201.7	206.2	211.1	213.7	215.7
59.5°	199.2	194.6	191.6	190.8	193.8	195.1	198.2	202.6	207.7	210.2	212.1
60°	195.6	191.0	188.0	187.4	190.2	191.4	194.6	199.3	204.5	206.7	208.7
60.5°	192.0	187.5	184.5	183.7	186.7	187.8	191.2	195.9	200.9	203.4	205.2
61°	188.6	183.9	180.8	180.2	183.0	184.1	187.7	192.3	197.6	199.9	201.8
61.5°	185.1	180.4	177.3	176.5	179.6	180.7	184.0	188.7	194.0	196.5	198.4
62°	181.5	176.8	173.6	172.9	176.0	177.0	180.4	185.0	190.5	193.0	194.9
62.5°	177.7	173.0	169.9	169.2	172.2	173.4	176.8	181.4	186.9	189.2	191.3
63°	174.2	169.4	166.3	165.6	168.6	169.9	173.1	177.8	183.3	185.6	187.7
63.5°	170.5	165.9	162.8	162.1	165.0	166.3	169.5	174.3	179.7	182.2	184.1
64°	166.9	162.3	159.2	158.5	161.5	162.8	166.0	170.8	176.1	178.7	180.7
64.5°	163.4	158.8	155.6	154.8	157.8	159.2	162.3	167.1	172.5	175.0	177.1
65°	159.9	155.1	151.9	151.1	154.2	155.5	158.8	163.6	168.9	171.4	173.5
65.5°	156.2	151.4	148.4	147.3	150.7	151.9	155.2	159.9	165.3	167.9	169.8
66°	152.4	147.6	144.7	143.7	146.9	148.1	151.7	156.3	161.8	164.2	166.3



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	141.5	136.7	133.7	132.6	136.0	137.2	140.7	145.5	151.0	153.6	155.6
68°	137.8	133.0	130.0	129.0	132.2	133.5	137.0	141.8	147.2	150.0	152.0
68.5°	134.1	129.3	126.5	125.5	128.6	130.0	133.5	138.3	143.7	146.4	148.4
69°	130.5	125.9	122.8	121.8	125.0	126.4	130.0	134.6	140.1	142.9	144.9
69.5°	126.9	122.1	119.1	118.1	121.1	122.8	126.4	130.9	136.5	139.3	141.3
70°	123.2	118.5	115.5	114.5	117.4	119.1	122.8	127.4	132.9	135.5	137.6
70.5°	119.5	114.9	111.8	110.8	114.0	115.5	119.2	123.8	129.3	131.9	134.0
71°	115.9	111.3	108.2	107.3	110.4	111.7	115.5	120.4	125.8	128.3	130.5
71.5°	112.4	107.8	104.6	103.8	106.6	108.1	112.0	116.5	122.0	124.8	126.9
72°	108.7	104.1	101.0	100.3	103.1	104.6	108.5	112.9	118.4	121.2	123.4
72.5°	105.1	100.4	97.4	96.6	99.5	101.1	104.8	109.4	114.9	117.6	119.6
73°	101.6	96.8	93.9	93.1	96.0	97.5	101.2	105.8	111.2	114.0	115.9
73.5°	98.1	93.3	90.5	89.8	92.5	94.1	97.6	102.3	107.5	110.3	112.3
74°	94.4	89.9	87.1	86.3	89.0	90.8	94.2	98.8	104.0	106.7	108.9
74.5°	91.1	86.3	83.6	82.6	85.7	87.3	90.9	95.4	100.4	103.1	105.2
75°	87.6	82.8	80.1	79.4	82.1	83.9	87.4	92.0	97.1	99.6	101.8
75.5°	84.1	79.4	76.6	75.9	78.8	80.6	84.1	88.5	93.6	96.2	98.3
76°	80.7	75.9	73.2	72.4	75.4	77.2	80.7	85.2	90.2	92.9	95.0
76.5°	77.0	72.4	69.7	69.0	72.0	73.7	77.3	81.7	86.8	89.4	91.5
77°	73.6	69.0	66.3	65.5	68.6	70.4	73.9	78.3	83.4	86.1	88.1
77.5°	70.2	65.6	62.9	62.1	65.1	67.0	70.6	75.0	80.1	82.7	84.8
78°	66.7	62.2	59.6	58.8	61.8	63.7	67.3	71.7	76.7	79.5	81.4
78.5°	63.4	58.9	56.2	55.4	58.5	60.4	63.9	68.4	73.4	76.0	78.1
79°	59.9	55.5	52.9	52.1	55.3	57.2	60.5	65.1	69.9	72.6	74.6
79.5°	56.5	52.2	49.6	48.7	52.1	53.9	57.4	61.7	66.6	69.2	71.3
80°	53.1	48.7	46.2	45.3	48.9	50.7	54.1	58.5	63.2	65.9	67.9
80.5°	49.7	45.5	42.9	42.1	45.5	47.6	51.0	55.3	60.0	62.7	64.6
81°	46.4	42.3	40.0	39.1	42.4	44.5	47.9	52.3	56.8	59.4	61.4
81.5°	43.1	39.1	36.8	35.8	39.3	41.3	44.7	48.9	53.5	56.1	58.0
82°	40.2	36.0	33.7	32.8	36.2	38.2	41.6	45.7	50.3	52.9	54.8
82.5°	36.8	32.9	30.6	29.8	33.1	35.3	38.5	42.5	47.2	49.8	51.6
83°	33.7	29.9	27.7	27.0	30.3	32.2	35.5	39.7	43.9	46.7	48.5
83.5°	30.6	27.0	24.7	24.1	27.4	29.2	32.5	36.5	40.9	43.5	45.4
84°	27.7	24.1	22.1	21.4	24.4	26.3	29.5	33.5	37.8	40.3	42.2
84.5°	24.7	21.5	19.2	18.5	21.8	23.5	26.7	30.5	34.8	37.4	39.2
85°	22.0	18.6	16.4	15.8	19.0	20.9	23.8	27.7	31.7	34.4	36.1
85.5°	19.2	15.8	13.8	13.2	16.2	18.2	21.2	24.7	28.8	31.4	33.1
86°	16.4	13.1	11.1	10.6	13.7	15.5	18.5	22.1	25.9	28.4	30.2
86.5°	13.7	10.5	8.5	8.0	11.1	12.8	15.7	19.3	23.1	25.6	27.4
87°	11.1	8.1	6.1	5.8	8.6	10.3	13.0	16.5	20.4	22.9	24.3
87.5°	8.5	5.9	3.7	3.5	6.3	7.9	10.5	13.9	17.7	20.1	21.8
88°	6.3	3.7	1.9	1.6	4.0	5.7	8.0	11.3	14.9	17.5	19.0
88.5°	4.0	1.6	0.8	0.8	1.5	3.3	5.8	8.7	12.3	14.7	16.1



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

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	5.1	7.2	8.3
90.5°	0.6	0.6	0.6	0.6	0.2	0.3	0.2	0.2	2.8	4.9	6.0
91°	0.6	0.5	0.6	0.6	0.3	0.3	0.2	0.2	0.5	2.8	3.7
91.5°	0.6	0.5	0.6	0.6	0.2	0.3	0.2	0.3	0.1	0.7	1.7
92°	0.6	0.5	0.6	0.6	0.2	0.3	0.2	0.3	0.1	0.5	0.5
92.5°	0.6	0.5	0.6	0.6	0.3	0.3	0.2	0.1	0.1	0.5	0.1
93°	0.6	0.5	0.6	0.6	0.3	0.3	0.3	0.5	0.1	0.4	0.0
93.5°	0.6	0.5	0.6	0.6	0.1	0.3	0.3	0.0	0.1	0.4	0.1
94°	0.5	0.5	0.6	0.6	0.1	0.3	0.3	0.0	0.1	0.4	0.0
94.5°	0.5	0.5	0.6	0.6	0.1	0.3	0.3	0.2	0.1	0.4	0.0
95°	0.5	0.5	0.6	0.6	0.1	0.3	0.3	0.0	0.1	0.4	0.2
95.5°	0.5	0.5	0.6	0.6	0.1	0.3	0.3	0.3	0.1	0.4	0.2
96°	0.5	0.5	0.6	0.6	0.0	0.3	0.3	0.1	0.1	0.4	0.3
96.5°	0.5	0.5	0.6	0.6	0.0	0.3	0.3	0.0	0.1	0.4	0.0
97°	0.5	0.5	0.6	0.6	0.4	0.3	0.3	0.1	0.1	0.4	0.1
97.5°	0.5	0.5	0.6	0.6	0.1	0.3	0.3	0.1	0.1	0.4	0.2
98°	0.5	0.5	0.6	0.6	0.0	0.3	0.3	0.0	0.1	0.4	0.0
98.5°	0.5	0.5	0.6	0.6	0.4	0.3	0.3	0.0	0.2	0.4	0.1
99°	0.5	0.5	0.6	0.6	0.4	0.3	0.3	0.0	0.1	0.4	0.1
99.5°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.2	0.3	0.4	0.2
100°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.2	0.3	0.4	0.1
100.5°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.1	0.3	0.5	0.1
101°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.1	0.3	0.5	0.1
101.5°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.2	0.3	0.5	0.1
102°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.2	0.3	0.5	0.2
102.5°	0.5	0.5	0.6	0.6	0.4	0.3	0.3	0.1	0.4	0.6	0.1
103°	0.5	0.5	0.6	0.6	0.4	0.3	0.3	0.1	0.5	0.6	0.1
103.5°	0.5	0.5	0.6	0.6	0.2	0.3	0.4	0.2	0.5	0.1	0.1
104°	0.5	0.5	0.6	0.6	0.4	0.3	0.4	0.2	0.4	0.0	0.2
104.5°	0.5	0.5	0.6	0.6	0.4	0.3	0.3	0.2	0.4	0.3	0.2
105°	0.5	0.5	0.6	0.6	0.3	0.3	0.5	0.2	0.4	0.3	0.2
105.5°	0.5	0.5	0.6	0.6	0.4	0.4	0.3	0.3	0.4	0.3	0.1
106°	0.5	0.5	0.6	0.6	0.2	0.3	0.3	0.3	0.4	0.3	0.1
106.5°	0.5	0.5	0.6	0.6	0.5	0.3	0.2	0.1	0.4	0.4	0.1
107°	0.5	0.5	0.6	0.6	0.6	0.4	0.4	0.1	0.4	0.3	0.2
107.5°	0.5	0.5	0.6	0.6	0.5	0.3	0.4	0.5	0.4	0.2	0.2
108°	0.5	0.5	0.6	0.6	0.5	0.3	0.4	0.5	0.5	0.4	0.3
108.5°	0.5	0.5	0.6	0.6	0.5	0.3	0.4	0.7	0.5	0.4	0.2
109°	0.5	0.5	0.6	0.6	0.5	0.3	0.4	0.7	0.5	0.2	0.5
109.5°	0.5	0.5	0.6	0.6	0.5	0.3	0.4	0.6	0.5	0.1	0.1
110°	0.5	0.5	0.6	0.6	0.4	0.3	0.5	0.7	0.5	0.3	0.3
110.5°	0.5	0.5	0.6	0.6	0.5	0.4	0.5	0.7	0.5	0.3	0.3
111°	0.5	0.5	0.6	0.6	0.5	0.3	0.5	0.7	0.5	0.5	0.3



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	440.1	440.1	440.1	440.1	440.1	440.1
0.5°	440.2	440.1	439.9	440.2	440.3	440.0
1°	440.3	440.1	440.1	440.2	440.3	440.0
1.5°	440.1	440.1	440.1	440.4	440.3	440.1
2°	440.2	440.2	440.1	440.4	440.3	440.1
2.5°	440.1	440.2	440.1	440.4	440.3	439.9
3°	440.1	440.2	440.1	440.4	440.0	439.7
3.5°	439.9	440.2	440.1	440.4	439.9	439.3
4°	439.7	440.1	440.1	439.9	439.5	438.9
4.5°	439.5	440.0	439.7	439.8	439.3	438.6
5°	439.2	439.7	439.5	439.4	438.9	438.1
5.5°	438.8	439.4	439.2	439.0	438.3	437.8
6°	438.6	438.9	438.9	438.7	437.9	437.2
6.5°	438.3	438.5	438.5	438.1	437.6	436.8
7°	437.7	438.2	438.0	437.8	437.0	436.2
7.5°	437.1	437.8	437.4	437.2	436.5	435.6
8°	436.7	437.2	436.9	436.6	435.7	435.0
8.5°	436.2	436.7	436.3	435.9	435.2	434.5
9°	435.7	436.0	435.7	435.3	434.4	433.6
9.5°	435.0	435.3	434.9	434.6	433.8	432.8
10°	434.5	434.8	434.1	433.9	432.9	432.1
10.5°	433.8	433.9	433.5	433.1	432.2	431.3
11°	433.0	433.3	432.8	432.3	431.3	430.4
11.5°	432.3	432.5	432.1	431.2	430.5	429.5
12°	431.5	431.5	431.0	430.6	429.6	428.4
12.5°	430.5	430.5	430.0	429.6	428.7	427.7
13°	429.6	429.8	429.2	428.6	427.9	426.6
13.5°	428.8	429.0	428.1	427.9	426.9	425.5
14°	427.8	428.0	427.2	426.6	425.7	424.4
14.5°	426.8	427.0	426.2	425.6	424.6	423.2
15°	425.8	426.1	425.2	424.3	423.5	422.2
15.5°	424.7	425.0	424.0	423.1	422.2	420.9
16°	423.7	423.7	423.0	422.0	420.9	419.8
16.5°	422.6	422.5	421.7	420.8	419.8	418.4
17°	421.3	421.7	420.6	419.6	418.5	417.2
17.5°	420.2	420.1	419.4	418.4	417.1	416.0
18°	418.9	419.0	418.1	417.2	415.9	414.7
18.5°	417.6	417.7	416.6	415.8	414.4	413.3
19°	416.2	416.4	415.4	414.5	413.0	411.9
19.5°	415.1	415.1	414.1	413.2	411.7	410.4
20°	413.7	413.7	412.7	411.7	410.2	408.9
20.5°	412.3	412.6	411.0	410.3	408.7	407.3
21°	410.8	411.0	409.7	408.7	407.2	406.0



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	406.2	406.6	405.2	404.3	402.4	400.9
23°	404.6	405.0	403.5	402.3	400.7	399.2
23.5°	403.0	403.5	401.8	400.7	399.0	397.4
24°	401.3	401.5	400.2	398.9	397.2	395.6
24.5°	399.8	400.0	398.6	397.1	395.4	393.9
25°	398.1	398.2	396.7	395.3	393.6	391.9
25.5°	396.4	396.6	394.9	393.5	391.6	390.1
26°	394.4	394.7	393.3	391.5	389.9	388.4
26.5°	392.8	393.0	391.4	389.7	387.7	386.3
27°	390.9	391.1	389.4	387.8	386.0	384.2
27.5°	389.2	389.2	387.4	385.9	384.0	382.3
28°	387.2	387.1	385.5	383.9	382.0	380.2
28.5°	385.4	385.2	383.4	381.9	380.1	378.0
29°	383.4	383.3	381.6	379.8	377.9	375.9
29.5°	381.4	381.3	379.4	377.8	375.7	373.8
30°	379.3	379.2	377.4	375.6	373.5	371.7
30.5°	377.4	377.4	375.5	373.5	371.6	369.5
31°	375.4	375.1	373.4	371.6	369.4	367.3
31.5°	373.3	373.1	371.2	369.5	367.3	365.1
32°	371.0	371.0	368.9	367.1	365.0	362.8
32.5°	369.2	369.0	366.8	365.0	362.9	360.6
33°	366.8	366.6	364.7	362.6	360.5	358.1
33.5°	364.6	364.6	362.3	360.4	358.3	355.8
34°	362.4	362.1	360.1	357.9	355.9	353.4
34.5°	360.1	359.7	357.7	355.6	353.5	351.1
35°	357.7	357.5	355.4	353.0	351.1	348.5
35.5°	355.5	355.0	352.8	350.7	348.5	346.1
36°	353.2	352.4	350.5	348.2	346.1	343.6
36.5°	350.9	350.2	348.1	345.7	343.6	341.0
37°	348.4	347.8	345.6	343.3	341.0	338.6
37.5°	345.9	345.2	343.0	340.9	338.4	336.2
38°	343.5	342.7	340.5	338.1	336.0	333.5
38.5°	340.9	340.3	337.8	335.6	333.3	330.8
39°	338.4	337.6	335.3	333.1	330.6	328.1
39.5°	335.8	335.1	332.7	330.3	328.0	325.5
40°	333.2	332.4	330.0	327.3	325.2	322.8
40.5°	330.7	329.9	327.4	324.8	322.5	320.0
41°	327.8	327.2	324.7	322.3	319.7	317.4
41.5°	325.3	324.5	322.0	319.5	316.8	314.4
42°	322.5	321.6	319.3	316.6	313.9	311.6
42.5°	319.9	319.2	316.6	313.9	311.1	308.7
43°	317.0	316.3	313.8	311.1	308.3	305.9
43.5°	314.3	313.5	311.0	308.2	305.4	302.9



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	305.8	304.9	302.3	299.7	296.6	294.3
45.5°	303.0	302.2	299.5	296.7	293.7	291.2
46°	300.3	299.5	296.4	293.7	290.7	288.4
46.5°	297.4	296.4	293.5	290.8	287.8	285.2
47°	294.4	293.4	290.6	287.9	284.6	282.3
47.5°	291.4	290.8	287.6	284.6	281.5	278.9
48°	288.3	287.5	284.7	281.6	278.4	275.8
48.5°	285.5	284.5	281.6	278.4	275.6	272.6
49°	282.3	281.5	278.5	275.4	272.2	269.5
49.5°	279.2	278.3	275.2	272.2	269.2	266.3
50°	276.0	275.0	272.2	269.0	266.1	263.0
50.5°	273.0	271.9	269.1	266.1	262.9	259.6
51°	270.0	268.7	266.0	262.8	259.7	256.6
51.5°	266.9	265.6	262.8	259.6	256.4	253.2
52°	263.6	262.6	259.7	256.3	253.0	249.9
52.5°	260.5	259.2	256.3	253.2	249.8	246.8
53°	257.2	255.9	253.2	250.0	246.5	243.5
53.5°	253.9	252.5	249.8	246.5	243.1	239.9
54°	250.6	249.4	246.6	243.3	239.8	236.6
54.5°	247.4	246.1	243.3	239.9	236.5	233.3
55°	244.2	242.7	240.0	236.6	232.9	229.9
55.5°	241.0	239.3	236.6	233.3	229.7	226.5
56°	237.5	236.0	233.2	230.0	226.3	223.2
56.5°	234.2	232.7	230.0	226.6	223.0	219.8
57°	230.8	229.4	226.7	223.3	219.6	216.4
57.5°	227.5	226.0	223.4	219.9	216.2	213.0
58°	224.1	222.7	219.9	216.5	212.9	209.5
58.5°	220.7	219.4	216.6	213.1	209.5	206.1
59°	217.3	216.1	213.3	209.7	205.9	202.5
59.5°	213.9	212.6	209.8	206.3	202.3	199.2
60°	210.2	209.1	206.3	202.7	198.7	195.6
60.5°	206.7	205.6	202.8	199.3	195.3	192.0
61°	203.4	202.2	199.3	195.7	191.8	188.6
61.5°	200.0	198.8	195.8	192.1	188.2	185.1
62°	196.5	195.3	192.3	188.4	184.7	181.5
62.5°	192.9	191.6	188.6	185.0	181.1	177.7
63°	189.5	188.2	185.1	181.4	177.5	174.2
63.5°	186.0	184.7	181.5	177.8	173.9	170.5
64°	182.4	181.0	178.0	174.2	170.3	166.9
64.5°	179.0	177.5	174.3	170.5	166.7	163.4
65°	175.3	173.9	170.9	166.8	163.1	159.9
65.5°	171.7	170.3	167.2	163.4	159.6	156.2
66°	168.1	166.7	163.6	159.8	155.8	152.4



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	157.3	156.0	152.8	148.9	144.8	141.5
68°	153.4	152.3	149.2	145.3	141.1	137.8
68.5°	149.8	148.7	145.6	141.7	137.4	134.1
69°	146.1	145.0	141.9	137.9	133.8	130.5
69.5°	142.3	141.2	138.2	134.4	130.1	126.9
70°	138.8	137.6	134.6	130.8	126.6	123.2
70.5°	135.1	133.9	130.8	127.2	123.0	119.5
71°	131.3	130.2	127.4	123.4	119.3	115.9
71.5°	127.8	126.8	123.8	119.9	115.7	112.4
72°	124.4	123.1	120.1	116.2	112.2	108.7
72.5°	120.8	119.5	116.4	112.6	108.6	105.1
73°	117.0	115.8	112.8	109.0	105.0	101.6
73.5°	113.3	112.4	109.3	105.4	101.4	98.1
74°	109.9	108.7	105.6	101.7	97.9	94.4
74.5°	106.3	105.2	102.0	98.2	94.4	91.1
75°	102.8	101.6	98.5	94.7	91.0	87.6
75.5°	99.3	98.1	94.9	91.3	87.6	84.1
76°	95.9	94.5	91.5	87.9	84.1	80.7
76.5°	92.5	91.1	88.0	84.3	80.7	77.0
77°	88.9	87.6	84.5	81.0	77.3	73.6
77.5°	85.4	84.1	81.0	77.5	73.9	70.2
78°	82.1	80.6	77.6	74.0	70.4	66.7
78.5°	78.7	77.1	74.1	70.7	66.9	63.4
79°	75.3	73.7	70.6	67.2	63.5	59.9
79.5°	71.8	70.0	67.2	63.8	60.1	56.5
80°	68.5	66.7	63.8	60.4	56.7	53.1
80.5°	65.2	63.4	60.4	56.9	53.3	49.7
81°	62.0	60.0	57.0	53.7	50.0	46.4
81.5°	58.7	56.6	53.7	50.4	46.6	43.1
82°	55.5	53.2	50.3	47.0	43.4	40.2
82.5°	52.2	49.8	47.0	43.8	40.3	36.8
83°	49.0	46.7	43.7	40.8	37.0	33.7
83.5°	45.9	43.3	40.7	37.5	33.9	30.6
84°	42.7	40.3	37.6	34.5	30.8	27.7
84.5°	39.8	37.0	34.6	31.4	28.0	24.7
85°	36.7	33.8	31.5	28.4	25.0	22.0
85.5°	33.6	30.7	28.5	25.4	22.3	19.2
86°	30.5	27.8	25.5	22.9	19.4	16.4
86.5°	27.6	25.1	22.9	20.0	16.8	13.7
87°	24.5	22.3	20.1	17.3	14.2	11.1
87.5°	22.2	19.5	17.4	14.7	11.6	8.5
88°	19.4	16.9	14.8	12.1	8.9	6.3
88.5°	16.5	14.0	12.2	9.5	6.6	4.0



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	8.7	6.7	5.1	2.5	0.9	0.7
90.5°	6.4	4.7	3.0	1.0	0.7	0.6
91°	4.3	2.4	1.2	0.6	0.6	0.6
91.5°	2.2	0.9	0.6	0.6	0.6	0.6
92°	0.5	0.7	0.6	0.5	0.5	0.6
92.5°	0.2	0.7	0.7	0.5	0.6	0.6
93°	0.2	0.6	0.7	0.5	0.5	0.6
93.5°	0.1	0.6	0.6	0.5	0.5	0.6
94°	0.1	0.6	0.6	0.5	0.5	0.5
94.5°	0.1	0.6	0.6	0.5	0.5	0.5
95°	0.1	0.5	0.5	0.5	0.5	0.5
95.5°	0.1	0.5	0.5	0.5	0.5	0.5
96°	0.2	0.5	0.5	0.5	0.5	0.5
96.5°	0.1	0.5	0.5	0.5	0.5	0.5
97°	0.2	0.5	0.5	0.5	0.5	0.5
97.5°	0.2	0.5	0.5	0.5	0.5	0.5
98°	0.1	0.5	0.5	0.5	0.5	0.5
98.5°	0.1	0.5	0.5	0.5	0.5	0.5
99°	0.1	0.5	0.5	0.5	0.5	0.5
99.5°	0.1	0.5	0.5	0.5	0.5	0.5
100°	0.1	0.5	0.5	0.5	0.5	0.5
100.5°	0.1	0.5	0.5	0.5	0.5	0.5
101°	0.1	0.5	0.5	0.5	0.5	0.5
101.5°	0.1	0.5	0.5	0.5	0.5	0.5
102°	0.1	0.5	0.5	0.5	0.5	0.5
102.5°	0.1	0.5	0.5	0.5	0.5	0.5
103°	0.1	0.5	0.5	0.5	0.5	0.5
103.5°	0.1	0.5	0.5	0.5	0.5	0.5
104°	0.2	0.5	0.5	0.5	0.5	0.5
104.5°	0.2	0.5	0.5	0.5	0.5	0.5
105°	0.2	0.5	0.5	0.5	0.5	0.5
105.5°	0.2	0.5	0.5	0.5	0.5	0.5
106°	0.2	0.5	0.5	0.5	0.5	0.5
106.5°	0.2	0.5	0.5	0.5	0.5	0.5
107°	0.3	0.5	0.5	0.5	0.5	0.5
107.5°	0.3	0.5	0.5	0.5	0.5	0.5
108°	0.3	0.5	0.5	0.5	0.5	0.5
108.5°	0.3	0.5	0.5	0.5	0.5	0.5
109°	0.3	0.5	0.5	0.5	0.5	0.5
109.5°	0.3	0.5	0.5	0.5	0.5	0.5
110°	0.3	0.5	0.5	0.5	0.5	0.5
110.5°	0.3	0.5	0.5	0.5	0.5	0.5
111°	0.3	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417440

CATALOG NUMBER: SMD6S129SWH - 4000K

CANDELA DISTRIBUTION (continued):

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



Report Generated By E9808895 / USPTCWHP6082093





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







21.5°	404.2	401.6	400.7	400.2	401.2	401.1	402.5	404.2	406.2	407.5	408.5
22°	402.6	400.1	398.9	398.4	399.6	399.6	400.9	402.6	404.7	405.9	407.0



44°	300.3	296.0	293.5	292.9	296.3	296.7	299.1	302.3	306.5	308.4	310.3
44.5°	297.3	293.1	290.3	289.9	293.3	293.7	296.1	299.5	303.7	305.5	307.3



66.5°	148.7	144.1	141.0	140.0	143.3	144.5	147.9	152.8	158.2	160.8	162.7
67°	145.1	140.3	137.3	136.4	139.6	140.8	144.4	149.1	154.6	157.3	159.3



89°	1.6	0.7	0.7	0.6	0.3	0.9	3.3	6.4	9.7	12.1	13.4
89.5°	0.8	0.6	0.7	0.7	0.3	0.3	1.0	4.4	7.3	9.6	10.9



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



134°	1.1	1.1	1.1	1.2	0.7	0.5	0.6	0.9	0.7	0.7	0.5
134.5°	1.1	1.1	1.1	1.1	0.7	0.7	0.7	0.9	0.7	0.7	0.5



156.5°	1.1	1.4	1.1	1.2	1.2	1.3	1.1	0.9	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°	1.4	1.4	1.3	1.5	1.5	1.7	1.7	1.7	1.6	1.4	1.4
179.5°	1.4	1.4	1.3	2.0	1.6	1.7	1.7	1.7	1.6	1.4	1.4





21.5°	409.3	409.5	408.0	407.1	405.7	404.2
22°	407.7	408.0	406.7	405.7	404.0	402.6



44°	311.5	310.8	308.2	305.3	302.5	300.3
44.5°	308.7	307.8	305.1	302.6	299.7	297.3



66.5°	164.6	163.2	160.0	156.3	152.1	148.7
67°	161.0	159.6	156.5	152.4	148.4	145.1



89°	14.0	11.6	9.6	7.1	4.5	1.6
89.5°	11.4	9.1	7.3	4.7	2.1	0.8



111.5°	0.3	0.5	0.5	0.5	0.5	0.5
112°	0.3	0.5	0.5	0.5	0.5	0.5



134°	0.5	1.0	1.2	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	1.1
157°	0.9	1.3	1.1	1.1	1.1	1.2



179°	1.3	1.7	1.7	1.8	1.6	1.4
179.5°	1.3	1.7	1.7	1.8	1.6	1.4



(END OF REPORT)