

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: P417443

Luminaire Tested: **SMD6S129SWHE - 3000K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417443
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 - 3000K
Description: SMD SELECTABLE CCT 3000K
Light Source: SELECTABLE CCT LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1311.8 lumens
Efficiency: N/A
Efficacy: 89.2 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

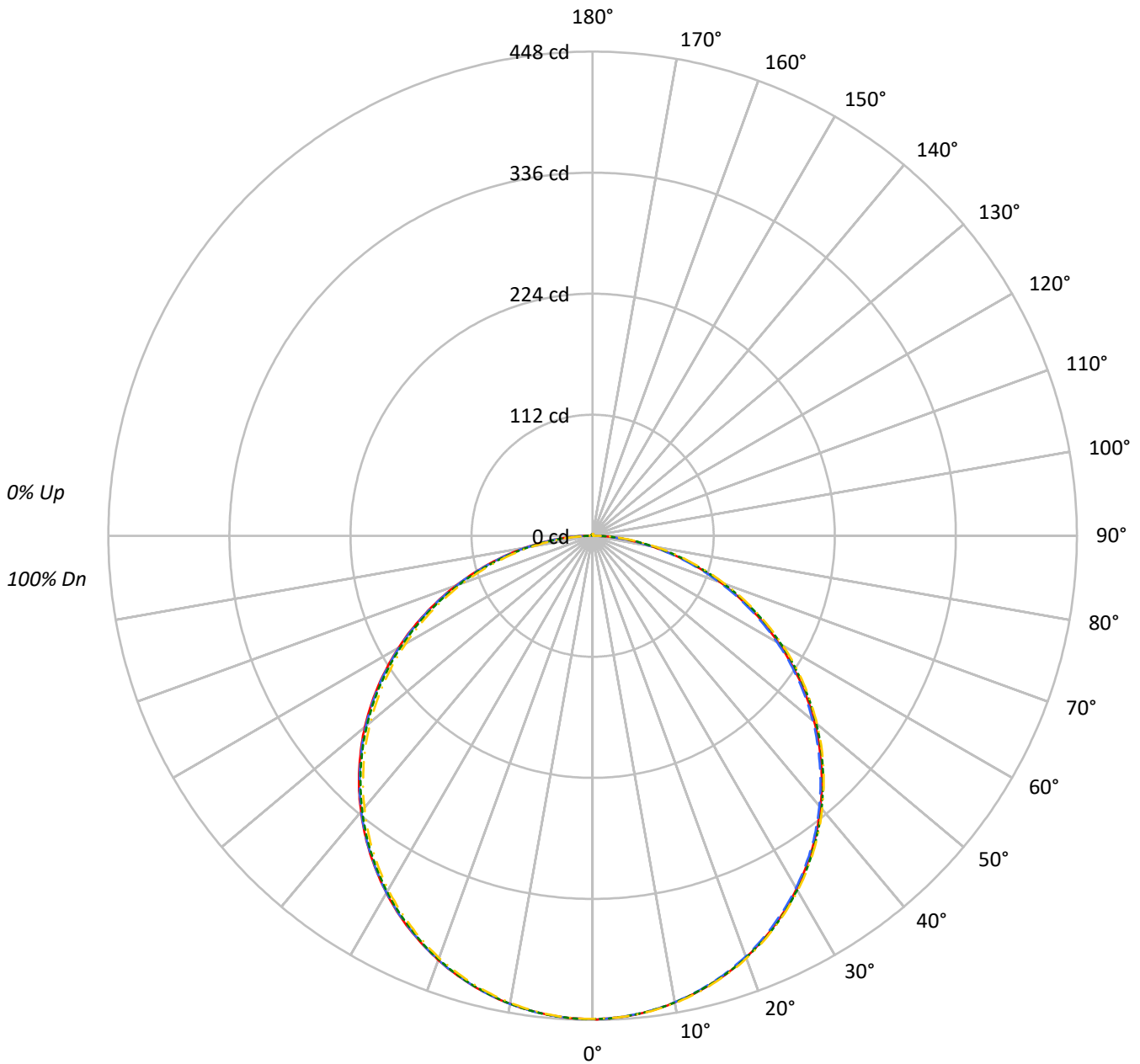
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	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°	19246	19246	19246	19246
5°	19229	19224	19250	19250
10°	19171	19171	19224	19219
15°	19100	19096	19189	19176
20°	19019	19033	19139	19102
25°	18908	18946	19064	19007
30°	18763	18823	18967	18902
35°	18601	18675	18864	18791
40°	18430	18508	18739	18638
45°	18206	18322	18602	18462
50°	17925	18079	18427	18246
55°	17573	17783	18158	17963
60°	17128	17394	17851	17575
65°	16545	16861	17421	17075
70°	15824	16164	16894	16491
75°	14855	15321	16253	15654
80°	13538	14207	15546	14629
85°	11412	12992	15265	13437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	3.2
10°-20°	121.2	9.2
20°-30°	184.0	14.0
30°-40°	222.7	17.0
40°-50°	232.4	17.7
50°-60°	211.9	16.2
60°-70°	164.1	12.5
70°-80°	98.0	7.5
80°-90°	30.1	2.3
90°-100°	0.6	0.0
100°-110°	0.5	0.0
110°-120°	0.7	0.1
120°-130°	0.8	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°	347.5	26.5
0°-40°	570.1	43.5
0°-60°	1014.4	77.3
0°-90°	1306.6	99.6
90°-120°	1.8	0.1
90°-150°	4.1	0.3
90°-180°	5.0	0.4
0°-180°	1311.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	447	447	447	447	447	
5°	445	445	445	445	445	42
15°	428	428	430	430	428	121
25°	398	399	401	400	398	183
35°	354	355	359	358	354	221
45°	299	301	306	303	299	231
55°	234	237	242	239	234	209
65°	162	166	171	168	162	161
75°	89	92	98	94	89	94
85°	23	26	31	27	23	25
90°	1	1	4	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°	447.0	447.0	447.0	447.0	447.0	447.0	447.0	447.0	447.0	447.0	447.0
0.5°	447.7	447.0	447.1	447.4	447.1	447.5	446.9	447.1	447.2	447.0	447.1
1°	447.1	447.0	447.0	447.3	447.0	447.4	446.9	447.3	447.1	447.3	447.1
1.5°	446.9	446.8	447.0	447.0	446.9	447.3	446.8	447.1	446.9	447.0	447.1
2°	446.9	446.8	446.8	446.7	446.9	447.1	446.8	446.9	446.9	447.1	446.9
2.5°	446.5	446.4	446.4	446.5	446.6	446.9	446.4	446.9	446.8	446.9	446.8
3°	446.3	446.2	446.1	446.4	446.2	446.6	446.4	446.8	446.6	446.7	446.7
3.5°	446.0	445.9	445.9	446.1	446.0	446.3	446.0	446.5	446.4	446.4	446.4
4°	445.7	445.6	445.5	445.7	445.7	445.9	445.8	446.3	446.1	446.3	446.1
4.5°	445.3	445.1	445.1	445.1	445.2	445.7	445.4	446.0	445.7	445.9	445.8
5°	444.9	444.9	444.7	444.7	444.8	445.2	445.0	445.6	445.4	445.6	445.3
5.5°	444.5	444.4	444.2	444.3	444.4	444.7	444.6	445.1	445.1	445.1	445.0
6°	444.0	444.0	443.7	443.9	443.8	444.2	444.2	444.6	444.4	444.8	444.6
6.5°	443.4	443.2	443.2	443.2	443.3	443.8	443.6	444.1	444.1	444.2	444.2
7°	442.8	442.6	442.5	442.9	442.7	443.3	443.2	443.6	443.5	443.9	443.8
7.5°	442.2	442.0	442.0	442.2	442.1	442.7	442.6	443.2	443.1	443.2	443.1
8°	441.5	441.3	441.3	441.5	441.6	442.0	441.9	442.4	442.4	442.7	442.6
8.5°	440.7	440.5	440.5	440.6	440.8	441.3	441.3	441.6	441.8	442.0	441.9
9°	440.1	439.8	439.8	440.0	440.0	440.6	440.6	441.1	441.2	441.2	441.3
9.5°	439.2	438.9	439.0	439.2	439.2	440.0	439.9	440.4	440.6	440.5	440.6
10°	438.5	438.0	438.2	438.4	438.5	439.2	439.1	439.7	439.7	440.0	440.0
10.5°	437.7	437.3	437.4	437.5	437.6	438.2	438.3	438.8	439.2	439.1	439.2
11°	436.9	436.4	436.2	436.6	436.7	437.4	437.4	438.1	438.2	438.5	438.4
11.5°	435.9	435.5	435.5	435.6	436.0	436.4	436.5	437.0	437.5	437.5	437.4
12°	434.9	434.5	434.5	434.7	434.9	435.6	435.6	436.1	436.5	436.7	436.6
12.5°	434.0	433.5	433.3	433.8	433.9	434.6	434.7	435.1	435.7	435.9	435.6
13°	433.0	432.4	432.4	432.7	432.7	433.7	433.7	434.3	434.5	434.8	434.6
13.5°	432.0	431.3	431.4	431.5	431.8	432.4	432.7	433.3	433.8	434.0	433.7
14°	430.9	430.1	430.1	430.3	430.6	431.4	431.6	432.3	432.7	432.8	432.7
14.5°	429.7	429.0	429.0	429.2	429.5	430.2	430.4	431.1	431.7	431.7	431.5
15°	428.5	427.8	427.9	428.0	428.4	429.2	429.3	429.9	430.5	430.6	430.4
15.5°	427.4	426.7	426.6	427.0	427.3	427.9	428.1	428.8	429.4	429.7	429.3
16°	426.3	425.5	425.3	425.6	426.2	427.0	426.9	427.7	428.2	428.3	428.2
16.5°	425.0	424.1	424.2	424.3	424.9	425.5	425.6	426.6	427.0	427.2	427.0
17°	423.9	422.8	422.9	423.1	423.7	424.6	424.5	425.4	426.0	426.0	425.7
17.5°	422.5	421.5	421.5	421.8	422.4	423.1	423.1	423.9	424.6	424.9	424.4
18°	421.1	420.1	420.1	420.4	421.0	421.8	421.9	422.6	423.3	423.2	423.1
18.5°	419.6	418.8	418.6	418.9	419.8	420.3	420.5	421.2	422.1	422.1	421.8
19°	418.0	417.3	417.2	417.5	418.3	419.0	419.2	419.9	420.6	420.6	420.4
19.5°	416.4	415.6	415.8	416.2	416.8	417.5	417.6	418.4	419.1	419.4	419.0
20°	415.1	414.2	414.1	414.6	415.4	416.1	416.0	417.0	417.7	417.8	417.6
20.5°	413.5	412.7	412.7	413.0	413.9	414.4	414.7	415.4	416.1	416.3	416.1
21°	411.9	411.1	411.1	411.4	412.3	412.9	413.2	414.0	414.6	414.7	414.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	406.9	406.0	405.9	406.4	407.4	407.8	408.2	409.1	409.8	409.9	409.6
23°	405.2	404.1	404.0	404.4	405.8	406.3	406.5	407.3	408.2	408.3	408.0
23.5°	403.5	402.2	402.5	402.6	404.2	404.4	404.8	405.7	406.5	406.6	406.2
24°	401.6	400.4	400.5	400.7	402.4	402.6	402.8	403.9	404.8	404.8	404.4
24.5°	399.7	398.6	398.6	399.0	400.6	400.8	401.1	402.2	403.2	403.0	402.8
25°	398.0	396.6	396.7	397.2	398.8	398.9	399.1	400.2	401.3	401.2	400.9
25.5°	395.9	394.6	394.7	395.2	397.0	397.1	397.4	398.5	399.6	399.5	399.1
26°	394.1	392.8	392.7	393.3	395.0	395.2	395.6	396.5	397.7	397.7	397.2
26.5°	392.1	391.0	390.9	391.5	393.1	393.2	393.7	394.6	395.8	395.6	395.3
27°	390.4	389.0	388.8	389.5	391.0	391.4	391.7	392.7	394.0	393.7	393.6
27.5°	388.2	387.0	386.9	387.6	389.1	389.3	389.7	390.9	392.0	391.8	391.5
28°	386.2	385.0	384.9	385.4	386.9	387.3	387.6	388.9	389.9	389.9	389.6
28.5°	384.0	382.9	382.7	383.2	385.0	384.9	385.8	386.7	387.9	387.9	387.6
29°	381.8	380.6	380.6	381.1	382.8	383.0	383.6	384.7	385.9	385.8	385.7
29.5°	379.6	378.6	378.4	379.1	380.5	380.8	381.5	382.5	383.8	383.7	383.5
30°	377.4	376.4	376.2	376.7	378.6	378.8	379.3	380.4	381.5	381.3	381.4
30.5°	375.3	374.2	374.0	374.6	376.6	376.6	377.2	378.3	379.3	379.3	379.1
31°	373.0	371.9	371.7	372.2	374.3	374.4	374.9	376.1	377.2	377.1	377.1
31.5°	370.7	369.6	369.4	370.2	372.1	372.2	372.7	373.8	375.0	374.9	374.7
32°	368.3	367.2	367.1	367.8	369.9	370.0	370.4	371.6	372.7	372.6	372.4
32.5°	366.0	364.9	364.8	365.6	367.5	367.6	368.2	369.3	370.6	370.4	370.2
33°	363.6	362.5	362.4	363.1	365.2	365.3	365.7	367.1	368.3	368.0	368.1
33.5°	361.2	360.1	359.9	360.8	362.7	362.8	363.5	364.7	365.9	365.7	365.5
34°	358.9	357.9	357.7	358.3	360.4	360.5	361.0	362.5	363.5	363.3	363.2
34.5°	356.5	355.3	355.0	356.0	358.0	358.3	358.8	360.0	361.3	361.0	360.9
35°	353.9	352.9	352.8	353.4	355.3	355.8	356.3	357.7	358.9	358.6	358.5
35.5°	351.5	350.4	350.1	351.0	352.8	353.5	353.9	355.3	356.5	356.3	356.1
36°	349.0	347.8	347.8	348.3	350.6	350.9	351.4	352.9	354.0	353.8	353.8
36.5°	346.5	345.3	345.0	345.7	348.2	348.3	349.0	350.2	351.6	351.5	351.2
37°	343.9	342.7	342.6	343.0	345.4	345.8	346.3	347.7	348.9	348.9	348.7
37.5°	341.3	340.1	339.8	340.5	342.8	343.3	343.8	345.1	346.5	346.4	346.1
38°	338.7	337.5	337.2	337.9	340.3	340.6	341.0	342.6	343.9	343.7	343.6
38.5°	335.9	334.8	334.4	335.2	337.5	338.0	338.5	339.9	341.3	341.1	340.9
39°	333.2	332.0	331.7	332.4	335.0	335.4	335.8	337.3	338.7	338.5	338.3
39.5°	330.5	329.4	328.9	329.9	332.6	332.7	333.1	334.6	336.1	335.8	335.7
40°	327.9	326.6	326.2	327.1	329.3	330.0	330.3	331.9	333.4	333.0	333.1
40.5°	325.0	323.7	323.5	324.3	326.7	327.1	327.6	329.2	330.6	330.1	330.1
41°	322.4	321.0	320.6	321.5	324.0	324.5	324.8	326.5	328.0	327.6	327.4
41.5°	319.6	318.2	317.7	318.7	321.2	321.8	322.1	323.6	325.4	325.0	324.5
42°	316.7	315.1	314.9	315.7	318.3	319.0	319.2	320.7	322.5	322.3	321.9
42.5°	313.9	312.3	312.0	313.0	315.6	315.9	316.4	317.9	319.9	319.4	319.0
43°	311.0	309.3	309.1	309.9	312.7	313.2	313.5	315.1	317.0	316.4	316.2
43.5°	307.9	306.4	306.0	307.0	309.7	310.1	310.6	312.2	314.1	313.7	313.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	299.0	297.3	296.9	297.9	300.9	301.3	301.8	303.4	305.5	304.8	304.5
45.5°	295.9	294.5	293.9	294.9	297.9	298.2	298.9	300.4	302.5	301.9	301.5
46°	292.8	291.2	290.8	291.8	294.9	295.2	295.8	297.3	299.6	298.8	298.5
46.5°	289.9	288.4	287.8	289.0	291.8	292.3	293.0	294.3	296.5	296.0	295.4
47°	286.8	285.1	284.8	285.8	288.8	289.3	290.0	291.4	293.6	292.9	292.4
47.5°	283.7	282.1	281.6	282.7	285.8	286.2	286.9	288.5	290.5	289.9	289.4
48°	280.5	278.9	278.5	279.5	282.7	283.1	283.6	285.3	287.7	286.9	286.4
48.5°	277.3	275.7	275.5	276.4	279.6	280.1	280.6	282.2	284.5	283.8	283.2
49°	274.2	272.5	272.3	273.2	276.2	276.8	277.2	279.1	281.4	280.5	280.3
49.5°	270.8	269.3	269.0	269.9	273.2	273.5	274.2	276.0	278.2	277.5	277.0
50°	267.6	266.1	265.7	266.6	269.9	270.4	270.9	272.8	275.1	274.4	273.9
50.5°	264.3	262.7	262.3	263.2	266.7	267.0	267.9	269.8	271.8	271.2	270.7
51°	261.1	259.4	259.0	260.0	263.5	263.8	264.5	266.5	268.6	267.9	267.4
51.5°	257.9	256.3	255.8	256.7	260.3	260.7	261.4	263.2	265.4	264.7	264.1
52°	254.7	253.0	252.6	253.5	257.1	257.4	258.1	260.0	262.0	261.3	260.8
52.5°	251.3	249.6	249.3	250.1	253.6	254.1	254.9	256.9	258.6	258.1	257.6
53°	247.8	246.2	245.8	246.7	250.4	250.8	251.5	253.5	255.4	254.9	254.5
53.5°	244.4	242.7	242.4	243.2	247.0	247.6	248.3	250.2	252.1	251.6	251.1
54°	240.9	239.4	239.0	239.8	243.5	244.1	244.9	246.7	248.7	248.1	247.7
54.5°	237.5	236.1	235.5	236.4	240.1	240.8	241.6	243.5	245.4	244.8	244.5
55°	234.1	232.5	232.2	232.9	236.9	237.3	238.2	240.0	241.9	241.4	241.1
55.5°	230.5	228.9	228.6	229.4	233.2	233.9	234.8	236.5	238.6	237.9	237.7
56°	227.0	225.6	225.2	225.9	229.9	230.5	231.4	233.1	235.1	234.6	234.3
56.5°	223.6	222.4	221.9	222.6	226.3	227.0	227.9	229.8	231.7	231.2	230.8
57°	220.2	218.7	218.4	219.2	223.0	223.6	224.5	226.2	228.1	227.8	227.3
57.5°	216.6	215.2	214.9	215.6	219.6	220.2	221.0	223.0	224.8	224.3	224.1
58°	213.1	211.7	211.2	212.0	216.2	216.6	217.6	219.4	221.3	220.9	220.5
58.5°	209.5	208.2	207.6	208.5	212.6	213.1	214.1	215.9	218.0	217.5	217.1
59°	206.0	204.7	204.2	204.9	209.1	209.5	210.6	212.3	214.3	214.0	213.5
59.5°	202.3	201.0	200.5	201.3	205.4	206.0	206.9	208.8	210.8	210.4	210.1
60°	198.9	197.4	196.9	197.7	202.0	202.4	203.3	205.2	207.3	206.9	206.4
60.5°	195.2	193.9	193.3	194.2	198.3	198.7	199.8	201.6	203.8	203.2	202.9
61°	191.7	190.3	189.8	190.5	194.8	195.2	196.1	197.9	200.2	199.7	199.2
61.5°	188.0	186.6	186.2	187.0	191.1	191.6	192.6	194.3	196.7	196.1	195.6
62°	184.5	183.0	182.5	183.4	187.6	188.1	189.0	190.6	193.1	192.6	192.0
62.5°	180.7	179.4	178.8	179.5	183.9	184.4	185.3	187.0	189.5	188.9	188.5
63°	177.1	175.6	175.2	176.0	180.2	180.7	181.8	183.3	185.7	185.2	184.8
63.5°	173.3	172.0	171.5	172.4	176.6	177.0	178.1	179.7	182.3	181.6	181.1
64°	169.8	168.3	168.0	168.8	172.9	173.5	174.4	176.0	178.5	178.0	177.5
64.5°	166.0	164.6	164.2	165.0	169.2	169.7	170.8	172.3	174.9	174.3	173.9
65°	162.4	161.0	160.6	161.5	165.5	166.1	167.1	168.6	171.0	170.6	170.0
65.5°	158.7	157.3	156.9	157.8	161.8	162.4	163.5	164.9	167.5	167.0	166.3
66°	155.1	153.8	153.3	154.3	158.0	158.7	159.7	161.3	163.7	163.1	162.7



TEST NUMBER: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	144.1	142.6	142.3	143.2	147.2	147.8	148.8	150.6	152.8	152.3	151.8
68°	140.4	138.8	138.5	139.4	143.4	144.1	145.2	147.0	149.0	148.5	148.0
68.5°	136.7	135.1	134.9	135.7	139.7	140.3	141.5	143.4	145.3	144.9	144.4
69°	133.1	131.5	131.1	132.1	136.0	136.7	137.8	139.7	141.7	141.1	140.6
69.5°	129.2	127.8	127.5	128.3	132.2	132.9	134.2	136.0	137.9	137.5	137.0
70°	125.7	124.0	123.9	124.6	128.4	129.3	130.4	132.4	134.2	133.7	133.2
70.5°	122.0	120.5	120.1	121.1	124.9	125.5	126.9	128.8	130.6	130.1	129.6
71°	118.4	116.7	116.5	117.3	121.3	122.0	123.2	125.2	126.9	126.4	126.0
71.5°	114.7	113.1	112.8	113.7	117.5	118.2	119.5	121.5	123.2	122.6	122.3
72°	111.1	109.5	109.2	110.0	114.0	114.6	115.9	117.9	119.7	119.2	118.6
72.5°	107.3	105.8	105.4	106.5	110.2	111.1	112.2	114.2	116.1	115.6	115.1
73°	103.6	102.1	101.9	102.8	106.6	107.3	108.6	110.5	112.2	111.9	111.4
73.5°	100.0	98.6	98.2	99.1	102.9	103.6	105.0	106.8	108.6	108.2	107.8
74°	96.3	94.9	94.6	95.4	99.3	100.1	101.4	103.3	105.1	104.6	104.1
74.5°	92.8	91.4	91.0	92.0	95.7	96.5	97.7	99.6	101.3	101.0	100.6
75°	89.3	87.9	87.6	88.5	92.1	92.9	94.2	95.9	97.7	97.4	97.0
75.5°	85.7	84.4	84.0	85.0	88.7	89.4	90.6	92.3	94.0	93.7	93.3
76°	82.1	80.9	80.6	81.4	85.0	86.0	87.2	88.8	90.5	90.2	89.7
76.5°	78.5	77.4	77.1	77.9	81.5	82.4	83.5	85.3	87.1	86.8	86.3
77°	75.0	73.8	73.6	74.3	78.0	78.8	80.1	81.8	83.7	83.2	82.7
77.5°	71.6	70.4	70.1	70.9	74.4	75.4	76.6	78.3	80.0	79.8	79.2
78°	68.1	67.0	66.8	67.4	71.0	72.0	73.1	74.8	76.4	76.2	75.7
78.5°	64.6	63.6	63.4	64.1	67.4	68.4	69.6	71.4	73.1	72.8	72.2
79°	61.2	60.3	60.0	60.8	64.1	64.9	66.2	67.8	69.5	69.3	68.8
79.5°	57.9	56.9	56.7	57.4	60.7	61.6	62.7	64.4	66.1	65.9	65.4
80°	54.6	53.6	53.6	54.2	57.3	58.2	59.4	61.1	62.7	62.4	62.0
80.5°	51.4	50.4	50.3	51.0	54.1	55.0	56.2	57.8	59.4	59.1	58.7
81°	48.0	47.2	47.0	47.5	50.9	51.8	53.0	54.6	55.9	55.8	55.4
81.5°	44.8	44.0	43.9	44.4	47.6	48.5	49.9	51.2	52.7	52.7	52.2
82°	41.5	40.8	40.7	41.1	44.4	45.4	46.5	48.0	49.8	49.3	48.9
82.5°	38.3	37.7	37.6	38.1	41.3	42.2	43.4	45.0	46.3	46.2	45.8
83°	35.0	34.7	34.5	35.0	38.2	39.3	40.3	41.8	43.2	43.1	42.6
83.5°	32.2	31.5	31.4	31.9	35.1	36.1	37.2	38.7	40.1	39.9	39.6
84°	29.0	28.5	28.4	28.9	32.2	33.1	34.2	35.5	37.1	36.9	36.5
84.5°	26.2	25.5	25.4	26.0	29.3	30.2	31.3	32.6	34.1	33.9	33.6
85°	23.1	22.7	22.7	23.1	26.3	27.3	28.4	29.7	30.9	30.9	30.6
85.5°	20.4	19.9	19.9	20.3	23.4	24.4	25.5	26.8	28.1	28.1	27.6
86°	17.6	17.2	17.0	17.5	20.8	21.7	22.7	23.9	25.1	25.1	24.8
86.5°	14.8	14.3	14.2	14.8	18.0	18.9	20.0	21.3	22.4	22.3	22.0
87°	12.1	11.5	11.5	12.0	15.3	16.1	17.2	18.5	19.6	19.7	19.2
87.5°	9.5	9.1	8.9	9.5	12.6	13.5	14.6	15.8	16.8	16.9	16.6
88°	7.1	6.6	6.3	7.0	10.0	10.9	12.0	13.1	14.2	14.3	13.9
88.5°	4.9	4.1	3.9	4.8	7.6	8.4	9.3	10.5	11.4	11.6	11.2



TEST NUMBER: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

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	1.5	2.3	3.4	4.4	4.6	4.0
90.5°	0.6	0.7	0.5	0.6	0.4	0.4	0.8	1.5	2.1	2.2	1.8
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°	0.5	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	0.3	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	0.4	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	0.5	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	0.5	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	0.5	0.1	0.5	0.6
106.5°	0.5	0.6	0.5	0.5	0.5	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	0.5	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	0.5	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: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

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



TEST NUMBER: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

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: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	447.0	447.0	447.0	447.0	447.0	447.0
0.5°	447.4	447.4	447.4	446.9	447.3	447.7
1°	447.3	447.3	447.3	447.0	447.3	447.1
1.5°	447.2	447.1	447.4	446.8	447.1	446.9
2°	447.0	447.0	447.1	446.8	447.0	446.9
2.5°	446.8	446.8	447.0	446.4	446.8	446.5
3°	446.8	446.5	446.7	446.4	446.3	446.3
3.5°	446.5	446.3	446.4	446.0	446.1	446.0
4°	446.2	446.0	446.1	445.7	445.9	445.7
4.5°	445.9	445.8	445.9	445.3	445.5	445.3
5°	445.7	445.4	445.5	444.9	445.2	444.9
5.5°	445.2	445.0	445.1	444.5	444.6	444.5
6°	444.8	444.7	444.6	444.0	444.1	444.0
6.5°	444.3	444.1	444.1	443.5	443.6	443.4
7°	443.6	443.6	443.5	442.8	443.0	442.8
7.5°	443.3	443.1	442.9	442.3	442.4	442.2
8°	442.7	442.6	442.3	441.7	441.8	441.5
8.5°	442.1	441.9	441.8	441.2	441.2	440.7
9°	441.4	441.2	441.0	440.3	440.4	440.1
9.5°	440.8	440.4	440.2	439.6	439.3	439.2
10°	439.9	439.6	439.4	438.8	438.7	438.5
10.5°	439.1	438.9	438.7	437.9	438.1	437.7
11°	438.2	438.0	437.8	437.1	437.2	436.9
11.5°	437.5	437.2	436.9	436.1	436.1	435.9
12°	436.4	436.1	435.9	435.2	435.4	434.9
12.5°	435.5	435.4	434.8	434.1	434.3	434.0
13°	434.6	434.3	433.9	433.2	433.1	433.0
13.5°	433.6	433.3	433.0	432.2	432.0	432.0
14°	432.5	432.2	431.8	431.1	430.9	430.9
14.5°	431.5	431.3	430.6	430.0	429.9	429.7
15°	430.4	430.2	429.5	428.9	428.7	428.5
15.5°	429.2	429.0	428.2	427.6	427.6	427.4
16°	427.9	428.0	427.2	426.6	426.2	426.3
16.5°	426.8	426.7	425.9	425.1	424.9	425.0
17°	425.6	425.3	424.7	423.9	423.7	423.9
17.5°	424.3	424.1	423.4	422.6	422.7	422.5
18°	423.1	422.8	422.0	421.3	421.1	421.1
18.5°	421.6	421.3	420.4	419.8	419.6	419.6
19°	420.4	419.8	419.1	418.4	418.2	418.0
19.5°	418.8	418.5	417.7	417.0	416.8	416.4
20°	417.4	416.9	416.2	415.6	415.2	415.1
20.5°	415.9	415.5	414.8	413.9	413.6	413.5
21°	414.4	414.0	413.1	412.3	412.0	411.9



TEST NUMBER: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	409.6	409.1	408.2	407.2	407.2	406.9
23°	408.0	407.3	406.6	405.5	405.3	405.2
23.5°	406.2	405.6	404.9	403.8	403.5	403.5
24°	404.5	403.7	403.1	402.1	401.6	401.6
24.5°	402.7	402.0	401.3	400.1	399.8	399.7
25°	401.0	400.1	399.4	398.3	397.9	398.0
25.5°	399.1	398.2	397.6	396.4	395.9	395.9
26°	397.4	396.3	395.6	394.5	394.0	394.1
26.5°	395.5	394.5	393.7	392.4	392.0	392.1
27°	393.5	392.5	391.7	390.5	390.1	390.4
27.5°	391.7	390.6	389.8	388.6	388.1	388.2
28°	389.6	388.6	387.8	386.6	386.1	386.2
28.5°	387.6	386.6	385.5	384.4	384.0	384.0
29°	385.6	384.5	383.5	382.5	381.8	381.8
29.5°	383.4	382.5	381.4	380.3	379.8	379.6
30°	381.4	380.2	379.2	378.2	377.5	377.4
30.5°	379.1	378.1	377.1	375.9	375.4	375.3
31°	377.0	375.8	375.0	373.7	373.1	373.0
31.5°	374.8	373.8	372.7	371.4	371.0	370.7
32°	372.5	371.4	370.5	369.0	368.5	368.3
32.5°	370.1	369.2	368.0	366.7	366.3	366.0
33°	367.8	366.9	365.9	364.4	363.7	363.6
33.5°	365.4	364.7	363.3	362.1	361.5	361.2
34°	363.3	362.1	360.9	359.7	359.1	358.9
34.5°	360.7	359.9	358.6	357.2	356.6	356.5
35°	358.5	357.5	356.3	354.8	354.1	353.9
35.5°	356.1	355.2	353.8	352.4	351.9	351.5
36°	353.7	352.5	351.3	350.0	349.1	349.0
36.5°	351.1	350.1	348.8	347.3	346.6	346.5
37°	348.7	347.6	346.3	344.7	343.9	343.9
37.5°	346.0	345.0	343.8	342.0	341.3	341.3
38°	343.4	342.3	341.0	339.3	338.5	338.7
38.5°	340.8	339.6	338.4	336.7	336.1	335.9
39°	338.2	337.1	335.7	334.0	333.2	333.2
39.5°	335.5	334.5	333.1	331.1	330.6	330.5
40°	332.9	331.6	330.1	328.3	327.8	327.9
40.5°	330.3	328.9	327.4	325.7	325.2	325.0
41°	327.4	326.0	324.6	323.0	322.2	322.4
41.5°	324.7	323.4	321.9	320.1	319.4	319.6
42°	322.0	320.5	319.0	317.2	316.5	316.7
42.5°	319.2	317.7	316.2	314.4	313.6	313.9
43°	316.3	314.7	313.2	311.4	310.7	311.0
43.5°	313.5	312.0	310.3	308.4	307.8	307.9



TEST NUMBER: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	304.5	303.2	301.3	299.6	298.7	299.0
45.5°	301.5	300.2	298.4	296.4	295.8	295.9
46°	298.5	297.1	295.3	293.4	292.7	292.8
46.5°	295.5	294.2	292.2	290.5	289.7	289.9
47°	292.5	291.2	289.4	287.3	286.7	286.8
47.5°	289.4	288.3	286.1	284.3	283.6	283.7
48°	286.4	285.1	283.1	281.2	280.3	280.5
48.5°	283.3	282.0	280.0	277.9	277.2	277.3
49°	280.2	278.9	276.9	274.6	274.0	274.2
49.5°	277.0	275.6	273.5	271.4	270.7	270.8
50°	273.8	272.4	270.2	268.3	267.6	267.6
50.5°	270.7	269.2	266.9	265.0	264.2	264.3
51°	267.4	265.8	263.7	261.5	260.8	261.1
51.5°	264.3	262.5	260.4	258.3	257.7	257.9
52°	261.0	259.4	257.1	255.1	254.4	254.7
52.5°	257.8	256.1	254.0	251.8	251.0	251.3
53°	254.7	252.9	250.5	248.3	247.6	247.8
53.5°	251.2	249.5	247.3	245.1	244.1	244.4
54°	247.9	246.2	243.7	241.7	240.9	240.9
54.5°	244.6	242.8	240.4	238.4	237.3	237.5
55°	241.2	239.3	236.9	234.9	233.9	234.1
55.5°	237.7	235.8	233.3	231.6	230.5	230.5
56°	234.2	232.4	229.9	228.1	227.0	227.0
56.5°	230.8	228.9	226.6	224.4	223.5	223.6
57°	227.4	225.4	223.0	221.2	220.0	220.2
57.5°	224.0	222.0	219.6	217.7	216.5	216.6
58°	220.5	218.4	216.2	214.0	213.1	213.1
58.5°	216.9	215.0	212.8	210.5	209.4	209.5
59°	213.4	211.4	209.1	206.8	205.8	206.0
59.5°	209.8	207.8	205.5	203.3	202.3	202.3
60°	206.3	204.1	201.9	199.7	198.7	198.9
60.5°	202.5	200.5	198.4	196.2	195.1	195.2
61°	198.9	196.8	194.7	192.5	191.4	191.7
61.5°	195.2	193.2	191.3	188.9	187.9	188.0
62°	191.5	189.7	187.5	185.3	184.3	184.5
62.5°	187.9	186.0	183.9	181.8	180.6	180.7
63°	184.2	182.3	180.2	178.1	176.8	177.1
63.5°	180.6	178.6	176.7	174.4	173.2	173.3
64°	176.9	174.9	173.0	170.6	169.7	169.8
64.5°	173.2	171.2	169.3	167.1	165.9	166.0
65°	169.5	167.6	165.6	163.4	162.3	162.4
65.5°	165.8	163.9	161.8	159.8	158.7	158.7
66°	162.2	160.1	158.1	156.1	155.1	155.1



TEST NUMBER: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	151.5	149.3	147.1	145.0	144.1	144.1
68°	147.8	145.6	143.4	141.3	140.3	140.4
68.5°	144.2	142.0	139.7	137.7	136.7	136.7
69°	140.5	138.3	136.0	134.0	133.0	133.1
69.5°	136.8	134.6	132.2	130.2	129.2	129.2
70°	133.1	131.0	128.5	126.5	125.5	125.7
70.5°	129.5	127.2	124.8	123.0	121.9	122.0
71°	125.8	123.5	121.2	119.2	118.3	118.4
71.5°	122.1	120.0	117.6	115.5	114.6	114.7
72°	118.6	116.2	113.9	111.9	110.8	111.1
72.5°	114.9	112.5	110.2	108.1	107.2	107.3
73°	111.1	108.8	106.6	104.6	103.5	103.6
73.5°	107.5	105.2	102.8	100.9	99.9	100.0
74°	103.8	101.4	99.2	97.3	96.2	96.3
74.5°	100.1	97.8	95.6	93.7	92.8	92.8
75°	96.4	94.1	92.0	90.2	89.3	89.3
75.5°	92.8	90.5	88.5	86.7	85.6	85.7
76°	89.2	87.0	85.0	83.0	82.0	82.1
76.5°	85.8	83.4	81.2	79.6	78.5	78.5
77°	82.2	79.9	77.8	76.1	75.0	75.0
77.5°	78.7	76.3	74.2	72.7	71.7	71.6
78°	75.2	72.7	70.8	69.2	68.2	68.1
78.5°	71.7	69.4	67.5	65.9	64.8	64.6
79°	68.2	65.9	64.0	62.5	61.4	61.2
79.5°	64.8	62.5	60.6	59.1	58.1	57.9
80°	61.3	59.0	57.3	55.8	54.7	54.6
80.5°	58.0	55.8	54.1	52.7	51.7	51.4
81°	54.8	52.5	50.8	49.4	48.3	48.0
81.5°	51.5	49.2	47.5	46.2	45.2	44.8
82°	48.3	46.0	44.4	43.0	41.9	41.5
82.5°	45.1	42.8	41.2	39.7	38.6	38.3
83°	42.0	39.5	38.1	36.6	35.6	35.0
83.5°	38.9	36.4	34.9	33.5	32.5	32.2
84°	35.8	33.3	31.8	30.4	29.5	29.0
84.5°	32.9	30.3	28.8	27.6	26.4	26.2
85°	29.9	27.2	25.9	24.6	23.5	23.1
85.5°	26.9	24.3	23.0	21.8	20.8	20.4
86°	24.1	21.5	20.2	18.9	17.9	17.6
86.5°	21.5	18.8	17.5	16.2	15.0	14.8
87°	18.7	15.9	14.7	13.4	12.6	12.1
87.5°	15.9	13.3	11.9	10.7	9.9	9.5
88°	13.3	10.6	9.4	8.3	7.5	7.1
88.5°	10.7	8.2	7.0	5.8	5.0	4.9



TEST NUMBER: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	3.9	1.4	1.1	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	0.5	0.5	0.6
91.5°	0.4	0.5	0.6	0.5	0.5	0.5
92°	0.5	0.5	0.5	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°	0.5	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°	0.5	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°	0.7	0.6	0.5	0.5	0.7	0.6
110.5°	0.7	0.6	0.5	0.5	0.8	0.6
111°	0.7	0.6	0.5	0.5	0.8	0.6



TEST NUMBER: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

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



TEST NUMBER: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.9	1.0	1.2	1.1	1.0	1.0
135.5°	0.9	1.0	1.2	1.1	1.1	1.1
136°	0.9	1.0	1.2	1.1	1.1	1.1
136.5°	1.0	1.0	1.2	1.1	1.1	1.1
137°	1.0	1.0	1.2	1.1	1.1	1.1
137.5°	1.0	1.0	1.2	1.1	1.1	1.1
138°	1.0	1.1	1.2	1.1	1.1	1.1
138.5°	1.0	1.1	1.2	1.1	1.1	1.1
139°	1.0	1.1	1.2	1.1	1.1	1.1
139.5°	1.0	1.1	1.2	1.1	1.1	1.1
140°	1.0	1.1	1.2	1.1	1.1	1.1
140.5°	1.0	1.1	1.2	1.1	1.1	1.1
141°	1.0	1.1	1.2	1.1	1.1	1.1
141.5°	1.0	1.1	1.2	1.1	1.1	1.2
142°	1.0	1.1	1.2	1.1	1.1	1.1
142.5°	1.0	1.1	1.2	1.1	1.1	1.1
143°	1.0	1.1	1.2	1.1	1.1	1.1
143.5°	1.0	1.1	1.2	1.1	1.1	1.1
144°	1.0	1.1	1.2	1.1	1.1	1.1
144.5°	1.0	1.1	1.2	1.1	1.1	1.1
145°	1.0	1.1	1.2	1.1	1.1	1.1
145.5°	1.1	1.1	1.2	1.1	1.1	1.1
146°	1.1	1.1	1.2	1.1	1.1	1.1
146.5°	1.1	1.1	1.2	1.1	1.1	1.1
147°	1.1	1.1	1.2	1.1	1.1	1.1
147.5°	1.1	1.1	1.2	1.1	1.1	1.1
148°	1.1	1.1	1.2	1.1	1.1	1.1
148.5°	1.1	1.2	1.2	1.1	1.1	1.1
149°	1.2	1.2	1.2	1.1	1.1	1.1
149.5°	1.1	1.2	1.2	1.1	1.1	1.1
150°	1.1	1.2	1.2	1.1	1.1	1.1
150.5°	1.1	1.2	1.2	1.1	1.1	1.2
151°	1.2	1.2	1.2	1.1	1.1	1.2
151.5°	1.2	1.2	1.2	1.1	1.1	1.2
152°	1.2	1.2	1.2	1.1	1.1	1.2
152.5°	1.2	1.2	1.2	1.1	1.1	1.2
153°	1.2	1.2	1.2	1.1	1.1	1.2
153.5°	1.2	1.2	1.2	1.1	1.1	1.2
154°	1.2	1.2	1.2	1.1	1.1	1.2
154.5°	1.2	1.2	1.2	1.1	1.1	1.2
155°	1.3	1.2	1.2	1.1	1.1	1.2
155.5°	1.2	1.2	1.2	1.1	1.1	1.2
156°	1.3	1.2	1.2	1.1	1.1	1.2



TEST NUMBER: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417443

CATALOG NUMBER: SMD6S129SWHE - 3000K

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°	410.3	409.1	409.4	409.9	410.6	411.1	411.5	412.4	413.0	413.2	412.9
22°	408.6	407.7	407.7	408.1	409.1	409.6	409.8	410.7	411.5	411.7	411.5



44°	305.0	303.4	303.0	303.9	306.9	307.2	307.8	309.3	311.2	310.6	310.3
44.5°	302.0	300.5	300.0	301.0	303.9	304.2	304.9	306.3	308.3	307.9	307.3



66.5°	151.4	150.0	149.6	150.5	154.5	155.0	156.2	157.7	160.0	159.5	159.0
67°	147.8	146.3	146.0	146.9	150.7	151.4	152.5	154.3	156.4	155.9	155.4



89°	2.1	1.7	1.8	2.4	5.3	6.1	6.8	8.0	9.1	9.1	8.7
89.5°	0.9	0.8	0.7	1.0	3.0	3.9	4.4	5.6	6.6	6.7	6.2



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



134°	1.0	1.2	1.1	1.1	0.8	1.0	1.0	1.0	0.9	0.9	0.8
134.5°	1.0	1.2	1.1	1.1	0.8	1.0	1.0	1.0	0.9	0.9	0.8



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



179°	1.6	1.3	1.4	1.6	1.6	1.3	1.2	1.6	1.5	1.6	1.3
179.5°	1.6	1.3	1.4	1.6	1.6	1.3	1.2	1.6	1.5	1.6	1.3





21.5°	412.8	412.4	411.5	410.7	410.6	410.3
22°	411.3	410.8	409.7	409.0	408.7	408.6



44°	310.4	309.0	307.4	305.5	304.8	305.0
44.5°	307.4	306.2	304.3	302.4	301.7	302.0



66.5°	158.6	156.6	154.6	152.5	151.4	151.4
67°	155.1	153.1	150.9	148.7	147.8	147.8



89°	8.2	6.1	4.9	3.5	2.8	2.1
89.5°	5.9	3.8	2.6	1.6	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°	0.9	1.0	1.2	1.1	1.0	1.0
134.5°	0.9	1.0	1.2	1.1	1.1	1.0



156.5°	1.4	1.2	1.2	1.1	1.1	1.2
157°	1.4	1.2	1.2	1.1	1.1	1.2



179°	1.4	1.3	1.2	1.6	1.5	1.6
179.5°	1.4	1.3	1.2	1.6	1.5	1.6



(END OF REPORT)