

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: P579674

Luminaire Tested: **SMD14R209SWHE-EM - 2700K**

Issue Date: 11/23/2021



Test Information

Test Method: LM-41-14
Report Number: P579674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2110240B001)
Test Lab:
Issue Date: 11/23/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD14R209SWHE-EM - 2700K
Description: SMD SELECTABLE CCT 2700K
Light Source: SELECTABLE CCT LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

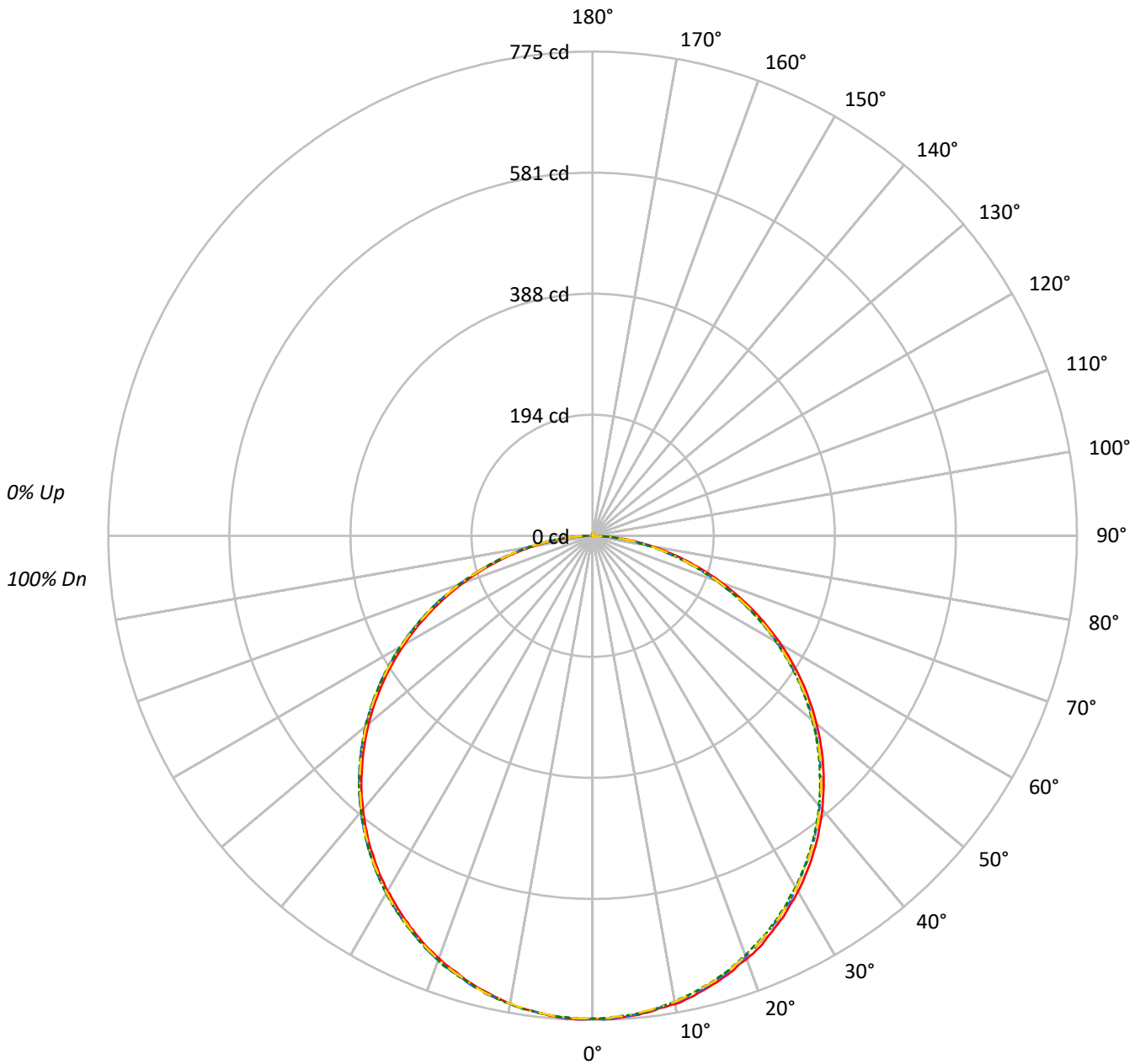
Lumens per Lamp: N/A
Luminaire Lumens: 2255.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29																			
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10591	10591	10591	10591
5°	10603	10574	10614	10599
10°	10590	10539	10579	10588
15°	10546	10488	10541	10563
20°	10515	10421	10494	10546
25°	10458	10349	10448	10499
30°	10403	10280	10391	10460
35°	10326	10181	10313	10395
40°	10230	10081	10226	10314
45°	10113	9943	10112	10228
50°	9970	9769	9978	10119
55°	9789	9567	9792	9961
60°	9550	9284	9547	9750
65°	9229	8924	9239	9482
70°	8808	8439	8832	9112
75°	8266	7795	8292	8647
80°	7593	6922	7608	8106
85°	6620	5582	6683	7516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.2
10°-20°	209.6	9.3
20°-30°	318.2	14.1
30°-40°	385.3	17.1
40°-50°	401.9	17.8
50°-60°	365.3	16.2
60°-70°	281.0	12.5
70°-80°	165.0	7.3
80°-90°	47.9	2.1
90°-100°	0.3	0.0
100°-110°	0.4	0.0
110°-120°	0.8	0.0
120°-130°	1.1	0.0
130°-140°	1.3	0.1
140°-150°	1.3	0.1
150°-160°	1.3	0.1
160°-170°	1.0	0.0
170°-180°	0.3	0.0
0°-30°	600.9	26.6
0°-40°	986.2	43.7
0°-60°	1753.4	77.8
0°-90°	2247.2	99.7
90°-120°	1.5	0.1
90°-150°	5.3	0.2
90°-180°	8.0	0.4
0°-180°	2255.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	773	773	773	773	773	
5°	771	769	772	770	771	73
15°	743	739	743	744	743	210
25°	692	684	691	694	692	319
35°	617	608	616	621	617	386
45°	522	513	522	528	522	402
55°	410	400	410	417	410	366
65°	285	275	285	292	285	281
75°	156	147	157	163	156	165
85°	42	36	42	48	42	46
90°	1	0	1	4	1	3
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	1	1	1	1	1	1
125°	1	1	1	1	1	1
135°	2	2	2	2	2	1
145°	2	2	2	3	2	1
155°	3	3	3	3	3	1
165°	3	3	3	4	3	1
175°	3	3	4	4	3	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8	772.8
0.5°	773.3	772.3	773.6	773.1	772.9	772.5	772.4	773.4	773.6	773.2	773.1
1°	773.4	773.3	774.9	772.9	772.4	773.2	772.1	772.5	774.4	773.5	774.1
1.5°	773.6	772.8	774.3	770.9	772.2	772.7	772.2	772.4	774.4	773.0	774.4
2°	774.2	772.7	773.3	771.6	772.1	772.5	772.2	772.5	774.4	773.2	773.8
2.5°	773.9	773.4	772.6	771.2	771.1	771.8	771.1	771.6	773.7	772.2	773.6
3°	772.9	771.6	772.3	770.4	770.5	771.4	770.6	771.0	774.1	772.9	772.9
3.5°	772.1	771.9	771.3	771.2	769.7	770.4	770.6	770.6	773.4	771.1	772.9
4°	771.7	771.4	771.3	770.2	769.3	770.5	769.7	770.4	773.0	771.8	772.1
4.5°	771.1	770.3	771.0	767.8	769.6	769.8	769.1	769.4	771.8	771.2	771.0
5°	770.7	770.0	769.1	767.7	768.6	768.2	768.0	769.1	771.5	771.1	770.4
5.5°	770.5	768.9	768.5	767.0	767.7	768.8	767.4	768.3	770.1	769.7	770.0
6°	768.4	768.7	767.7	767.1	767.4	767.6	765.8	767.9	769.0	769.4	769.4
6.5°	768.1	767.2	766.6	765.5	767.0	766.5	765.3	767.2	767.9	767.6	768.7
7°	767.3	766.7	765.7	764.6	764.3	765.1	764.5	766.2	767.3	767.8	767.1
7.5°	766.1	765.9	764.4	763.7	763.6	764.2	763.1	764.6	766.6	766.2	766.1
8°	763.9	764.2	763.1	762.5	762.9	762.8	762.3	764.0	765.5	764.8	765.9
8.5°	763.3	762.9	761.6	761.5	760.9	762.5	761.3	763.1	764.8	763.7	764.4
9°	762.7	761.0	759.9	759.9	759.8	760.4	759.6	760.8	763.8	762.5	763.8
9.5°	761.1	759.9	758.7	758.7	758.6	758.8	758.4	759.1	762.3	761.2	762.6
10°	761.0	758.6	758.9	757.6	757.3	756.7	757.4	757.9	760.2	760.1	760.8
10.5°	760.3	757.3	756.5	754.9	754.8	755.9	755.8	756.5	759.2	759.1	759.6
11°	758.5	756.3	755.3	753.9	753.6	754.2	754.5	754.9	757.3	757.3	758.3
11.5°	756.7	754.6	753.6	752.5	751.8	752.4	752.6	752.5	755.8	755.6	757.4
12°	755.3	753.0	751.5	751.7	750.2	750.3	750.7	751.6	754.4	754.6	755.7
12.5°	753.4	750.7	749.9	749.6	748.3	749.3	749.2	749.9	752.1	753.2	754.3
13°	751.2	749.1	748.2	745.8	746.8	747.9	747.1	748.2	750.3	752.4	753.3
13.5°	749.5	747.8	747.5	744.2	744.2	745.3	745.5	747.1	748.7	750.5	751.3
14°	747.7	746.4	745.2	742.4	742.7	744.0	743.3	744.6	747.1	747.0	749.2
14.5°	745.7	744.2	743.2	740.7	740.7	742.3	741.6	742.4	745.1	745.9	747.5
15°	743.3	742.1	741.4	739.3	739.2	740.4	740.0	740.3	742.9	743.7	745.8
15.5°	741.8	740.4	738.6	737.1	736.6	738.0	737.8	738.4	740.9	741.6	743.6
16°	739.9	738.0	736.2	735.1	734.4	735.4	735.0	736.2	738.7	739.6	740.8
16.5°	737.2	735.4	734.5	732.2	732.4	733.8	732.5	733.9	736.3	737.2	738.7
17°	735.5	733.6	732.2	729.8	730.3	731.4	730.5	731.8	733.7	734.9	736.8
17.5°	733.2	731.1	728.7	728.1	728.0	728.6	728.7	729.8	731.1	733.0	734.4
18°	730.9	728.3	726.9	725.5	725.0	726.0	726.1	727.2	729.5	731.0	732.5
18.5°	727.3	725.5	724.9	722.8	722.2	723.6	723.1	723.9	727.2	728.4	730.0
19°	724.2	723.4	722.3	720.2	719.9	720.9	720.9	721.4	725.2	726.0	728.5
19.5°	722.8	720.7	719.5	716.9	717.0	718.5	718.1	720.2	722.5	723.9	725.9
20°	721.0	718.0	717.1	714.2	714.5	715.9	715.4	717.8	719.5	720.9	723.6
20.5°	718.2	715.4	713.8	712.0	711.7	712.6	713.1	715.4	717.1	718.1	720.9
21°	716.4	713.4	711.7	709.7	708.7	709.8	710.5	712.1	714.2	716.0	717.9



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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°	708.5	704.4	702.9	700.3	700.2	701.6	701.9	703.2	706.4	707.2	709.6
23°	704.8	700.9	699.6	697.3	697.5	698.7	698.8	700.6	703.3	704.3	706.4
23.5°	700.9	698.1	696.6	693.5	695.0	695.3	696.1	697.5	699.8	701.4	703.5
24°	697.8	695.1	693.6	690.6	691.4	691.5	692.9	694.2	697.4	697.8	700.3
24.5°	694.8	691.8	689.9	687.8	687.5	688.3	689.7	691.2	693.4	694.5	697.3
25°	691.6	688.8	686.3	684.6	684.4	685.3	686.3	687.8	690.9	692.0	694.3
25.5°	688.4	685.8	684.0	681.4	681.6	682.2	683.2	685.0	686.8	688.9	690.8
26°	685.2	683.0	680.6	678.0	678.0	679.2	680.1	682.2	684.1	685.6	687.7
26.5°	682.6	679.4	676.7	675.1	674.4	675.4	676.6	678.5	680.4	682.4	684.6
27°	679.0	676.1	673.5	671.8	671.1	672.4	673.3	675.5	677.0	679.0	681.4
27.5°	675.1	672.7	670.1	668.0	668.0	669.2	669.7	671.8	674.1	676.3	678.4
28°	671.3	669.3	667.0	664.5	663.9	665.5	666.3	668.5	670.1	672.2	674.9
28.5°	667.9	665.7	663.8	660.5	659.7	661.7	662.6	664.7	666.5	669.2	671.3
29°	664.7	661.9	659.6	657.0	655.7	657.9	659.0	661.5	663.2	665.8	667.5
29.5°	660.9	657.8	655.7	653.6	652.9	654.3	655.3	657.2	659.2	661.4	664.2
30°	657.4	653.9	651.8	649.7	649.6	650.9	651.3	653.4	656.6	657.9	660.5
30.5°	653.7	650.1	647.9	645.7	645.5	646.9	647.5	649.9	652.8	654.3	656.7
31°	649.9	646.5	643.6	641.6	641.5	643.0	643.3	646.5	648.6	650.5	653.5
31.5°	646.2	642.7	639.5	637.8	637.4	639.1	639.7	642.4	645.0	646.6	649.4
32°	642.0	638.7	635.3	634.0	633.5	635.4	636.1	638.6	641.1	642.4	645.3
32.5°	638.0	634.6	631.2	629.9	630.0	631.8	632.3	634.8	637.2	638.5	641.4
33°	634.0	630.3	627.3	625.9	625.6	627.6	627.8	630.5	632.9	634.9	637.4
33.5°	629.9	625.9	623.1	622.2	621.1	622.9	623.3	626.2	629.0	631.3	633.2
34°	625.7	621.9	619.4	618.1	617.0	618.7	619.3	622.2	624.7	626.6	629.8
34.5°	621.3	617.7	615.3	613.6	613.5	614.8	615.4	618.2	620.2	621.8	625.2
35°	617.2	613.5	611.1	609.1	608.5	610.2	611.3	614.1	616.4	618.0	620.9
35.5°	613.3	609.0	607.0	604.7	604.7	605.6	607.3	609.7	612.7	614.2	616.7
36°	608.8	604.8	602.4	600.3	600.6	601.2	602.6	604.8	608.2	610.4	612.5
36.5°	604.5	600.3	598.1	595.6	595.8	597.0	598.2	600.4	604.1	605.7	608.5
37°	599.8	596.1	593.1	591.0	591.3	592.3	593.6	595.8	599.3	601.2	603.9
37.5°	594.6	591.3	588.4	586.7	587.1	588.1	589.1	591.3	594.7	597.2	599.6
38°	590.1	586.4	583.7	582.1	582.4	583.3	584.6	586.8	590.5	592.3	595.0
38.5°	585.7	582.1	579.1	577.4	577.7	578.9	579.9	582.2	585.9	587.9	590.3
39°	581.2	577.6	574.6	572.5	573.1	574.5	575.0	577.9	581.3	583.3	586.1
39.5°	576.5	572.7	570.0	567.5	568.5	569.5	570.6	573.1	576.4	578.2	581.7
40°	571.8	568.0	565.2	562.6	563.5	564.3	565.9	568.6	571.6	573.9	577.1
40.5°	566.8	563.3	560.2	558.0	558.8	560.1	561.0	563.4	566.7	569.1	572.2
41°	561.8	558.4	555.3	553.6	553.9	554.9	556.2	558.8	562.0	564.5	567.2
41.5°	556.9	553.4	550.4	548.9	549.0	549.9	551.4	554.1	557.8	560.0	562.3
42°	552.0	548.5	545.6	543.6	543.7	545.0	546.6	549.0	552.8	554.3	557.5
42.5°	547.4	543.3	540.8	538.3	539.0	540.0	541.5	543.9	547.7	549.8	552.6
43°	542.3	538.1	535.9	533.5	533.7	535.0	536.2	538.9	542.6	545.1	548.0
43.5°	537.2	532.7	530.7	527.9	528.1	529.9	531.4	533.6	537.6	540.2	543.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	521.8	517.8	515.0	512.2	513.0	514.2	515.8	518.5	521.7	524.4	527.9
45.5°	516.8	512.4	510.0	507.0	507.6	509.3	510.5	513.4	516.7	519.0	522.3
46°	511.6	507.3	504.8	501.9	502.1	503.6	505.1	508.1	511.4	513.9	517.2
46.5°	506.2	502.2	499.2	496.5	497.1	498.3	499.8	502.7	506.0	508.9	512.0
47°	500.8	497.1	493.8	490.9	491.6	493.0	494.3	497.2	500.7	503.0	506.5
47.5°	495.4	492.1	488.1	485.3	486.5	487.6	489.1	491.8	495.0	497.8	501.3
48°	489.9	486.7	482.7	479.9	481.5	482.3	483.5	486.3	489.8	493.1	496.0
48.5°	484.4	481.2	477.5	474.5	475.9	476.7	478.2	481.1	484.4	487.5	490.7
49°	479.0	475.9	472.0	468.9	469.8	470.9	472.4	475.5	479.0	481.8	485.2
49.5°	473.5	470.3	466.3	463.2	464.1	465.4	467.1	469.9	473.4	476.5	480.1
50°	467.6	464.6	460.5	457.4	458.2	459.8	461.4	464.2	468.0	471.0	474.1
50.5°	462.0	459.0	454.8	451.8	452.8	454.0	455.6	458.5	462.3	465.3	468.9
51°	456.4	453.1	449.2	446.0	447.2	448.5	449.7	452.7	456.4	459.6	463.1
51.5°	450.9	447.1	443.3	440.1	441.8	442.6	444.1	447.3	450.8	454.1	457.4
52°	445.3	440.9	437.4	434.5	436.1	437.0	438.5	441.3	444.8	448.2	451.6
52.5°	439.1	435.1	431.5	428.4	430.3	430.8	432.7	435.5	439.4	442.3	445.9
53°	433.4	429.3	425.6	422.6	424.2	425.1	426.6	429.4	433.3	436.4	440.3
53.5°	427.7	423.5	419.6	416.7	418.1	419.1	420.6	423.6	427.4	430.3	434.4
54°	421.7	417.5	413.7	410.5	412.3	413.3	414.4	417.5	421.5	424.3	428.4
54.5°	416.0	411.7	408.0	404.4	406.3	407.5	409.0	411.6	415.6	419.1	422.3
55°	409.7	405.7	401.7	398.3	400.4	401.4	402.9	405.8	409.8	413.0	416.6
55.5°	403.8	399.6	395.5	392.2	394.1	395.1	396.7	399.7	403.8	407.3	410.9
56°	397.5	393.3	389.3	386.1	388.2	389.0	390.8	393.6	398.0	401.0	404.6
56.5°	391.5	387.2	383.2	380.3	381.7	383.1	384.6	387.7	391.6	395.0	398.2
57°	385.5	381.0	377.0	374.5	375.9	376.8	378.4	381.7	385.3	388.7	392.3
57.5°	379.1	375.0	371.0	368.5	369.7	370.7	372.3	375.4	379.0	383.3	386.4
58°	372.9	368.7	364.8	362.2	363.5	364.7	366.1	369.3	372.8	376.8	380.1
58.5°	366.8	362.4	358.4	355.8	357.3	358.4	359.9	363.1	366.9	370.4	374.1
59°	360.6	355.9	352.2	349.4	351.0	352.1	353.8	357.2	360.6	364.1	367.9
59.5°	354.4	349.7	346.1	343.0	344.9	345.9	347.8	350.9	354.3	358.0	361.7
60°	348.4	343.4	339.9	336.4	338.7	340.0	341.7	344.9	348.3	351.9	355.4
60.5°	341.9	336.9	333.8	330.2	332.5	333.7	335.4	338.4	342.1	345.6	349.5
61°	335.4	330.5	327.5	323.7	326.1	327.7	329.1	332.1	335.8	339.6	343.4
61.5°	329.2	324.5	321.2	317.8	319.7	321.3	322.8	325.9	329.8	333.4	337.1
62°	322.7	318.4	314.6	311.5	313.6	314.9	316.6	319.9	323.6	326.7	330.6
62.5°	316.4	312.1	308.3	305.1	306.9	308.7	310.2	313.3	317.1	320.5	324.5
63°	310.1	305.6	302.0	298.6	300.7	302.1	303.7	307.0	310.7	314.6	318.2
63.5°	303.6	299.1	295.3	292.1	294.3	295.6	297.3	300.8	304.2	307.9	312.0
64°	297.3	292.8	288.9	285.6	288.0	289.3	290.9	294.2	297.8	301.7	305.2
64.5°	290.8	286.3	282.6	279.5	281.4	282.9	284.4	287.8	291.5	294.9	299.0
65°	284.6	280.1	276.1	273.0	275.2	276.4	278.0	281.5	284.9	288.7	292.3
65.5°	278.1	273.3	269.4	266.4	268.7	269.9	271.7	275.0	278.7	282.4	285.9
66°	271.6	266.6	262.9	259.9	262.2	263.4	265.1	268.6	272.2	275.9	279.4



TEST NUMBER: P579674

CATALOG NUMBER: SMD14R209SWHE-EM - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	252.1	247.5	243.4	240.0	242.9	244.1	245.9	249.2	252.7	256.3	260.0
68°	245.3	240.8	236.8	233.8	236.4	237.7	239.3	242.5	246.2	249.7	253.5
68.5°	238.8	234.5	230.3	227.2	229.8	231.3	233.0	236.1	239.9	243.5	247.0
69°	232.5	227.9	223.9	220.8	223.2	224.6	226.3	229.7	233.3	236.8	240.4
69.5°	226.2	221.6	217.3	214.3	217.2	218.1	220.1	223.0	226.8	230.3	233.9
70°	219.8	215.3	211.2	207.9	210.6	212.0	213.7	216.8	220.4	223.8	227.4
70.5°	213.6	208.7	204.7	201.2	204.3	205.3	207.2	210.5	214.1	217.6	220.9
71°	207.2	202.2	198.2	194.8	197.9	199.0	201.0	204.4	208.0	211.0	214.4
71.5°	200.9	195.7	191.5	188.4	191.5	192.4	194.2	197.7	201.2	204.5	207.8
72°	194.4	189.5	185.4	182.3	184.9	186.0	187.9	191.4	194.5	198.1	201.5
72.5°	187.8	183.2	178.8	175.9	178.5	179.7	181.7	184.9	188.1	191.7	195.2
73°	181.5	176.6	172.5	169.6	172.1	173.3	175.1	178.5	181.8	185.6	188.7
73.5°	175.1	170.4	166.2	163.4	165.8	167.0	168.8	172.1	175.4	179.0	182.3
74°	168.7	164.1	159.9	156.9	159.5	160.8	162.4	165.8	169.2	172.5	175.9
74.5°	162.3	157.7	153.6	150.7	153.6	154.5	156.2	159.5	162.9	166.1	169.3
75°	156.1	151.6	147.5	144.6	147.2	148.0	150.1	153.3	156.6	159.8	163.1
75.5°	150.0	145.3	141.3	138.5	140.9	142.1	143.8	147.0	150.4	153.6	156.8
76°	143.7	139.1	135.2	132.3	134.8	135.9	137.8	141.0	144.2	147.4	150.8
76.5°	137.6	133.0	128.8	126.2	128.7	129.7	131.6	134.6	138.0	141.1	144.4
77°	131.4	127.1	123.0	120.3	122.6	123.9	125.6	128.6	132.0	135.1	138.5
77.5°	125.4	121.1	117.0	114.3	116.7	117.9	119.8	122.6	125.9	128.8	132.2
78°	119.6	115.1	111.2	108.4	111.0	112.0	113.7	116.6	119.9	122.9	126.3
78.5°	113.5	109.2	105.3	102.5	105.2	106.1	107.7	111.0	113.8	117.0	120.1
79°	107.8	103.5	99.6	96.7	99.2	100.3	101.8	105.0	107.9	111.1	114.2
79.5°	101.9	97.7	94.0	91.2	93.5	94.6	96.0	99.1	102.2	105.0	108.1
80°	96.2	91.9	88.3	85.6	87.7	88.8	90.4	93.5	96.4	99.3	102.3
80.5°	90.6	86.4	82.7	80.0	82.3	83.1	85.1	87.6	90.6	93.5	96.6
81°	85.1	80.9	77.1	74.5	76.7	77.7	79.3	82.3	85.1	87.8	90.9
81.5°	79.4	75.4	71.7	69.1	71.3	72.5	74.0	76.6	79.6	82.4	85.2
82°	73.9	69.8	66.3	63.7	65.7	66.7	68.3	71.0	73.8	76.8	79.6
82.5°	68.3	64.4	60.9	58.4	60.5	61.2	63.0	65.5	68.3	71.3	74.1
83°	62.8	59.1	55.6	53.2	55.4	56.2	57.7	60.2	63.1	66.0	68.9
83.5°	57.4	53.8	50.3	47.9	50.4	50.7	52.8	55.1	57.7	60.8	63.5
84°	52.4	48.8	45.2	43.0	45.1	46.0	47.5	50.0	52.7	55.4	58.1
84.5°	47.3	43.7	40.2	38.1	40.2	41.1	42.5	44.9	47.5	50.5	53.2
85°	42.1	38.8	35.4	33.1	35.5	36.0	37.5	40.0	42.5	45.3	47.9
85.5°	37.2	33.8	30.7	28.5	30.5	31.3	32.7	35.0	37.6	40.4	42.9
86°	32.3	29.0	26.0	23.8	25.9	26.4	27.9	30.2	32.7	35.5	38.1
86.5°	27.6	24.4	21.7	19.5	21.3	22.0	23.3	25.6	28.1	30.7	33.4
87°	23.1	20.2	17.4	15.2	17.0	17.7	19.1	21.1	23.4	26.0	28.5
87.5°	18.8	15.9	13.4	11.2	12.9	13.5	14.8	16.8	19.1	21.6	23.9
88°	14.6	12.0	9.6	7.9	8.9	9.6	10.8	12.6	14.9	17.5	19.6
88.5°	10.6	8.3	6.1	4.5	5.9	6.4	7.5	9.0	11.0	13.2	15.4



TEST NUMBER: P579674

CATALOG NUMBER: SMD14R209SWHE-EM - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.8	0.5	0.3	0.3	0.0	0.1	0.1	0.3	1.4	3.1	4.8
90.5°	0.4	0.3	0.3	0.3	0.0	0.0	0.1	0.1	0.1	0.6	2.1
91°	0.3	0.3	0.3	0.3	0.0	0.1	0.1	0.1	0.1	0.1	0.1
91.5°	0.3	0.3	0.3	0.3	0.0	0.1	0.1	0.1	0.1	0.1	0.1
92°	0.3	0.3	0.3	0.3	0.0	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.0
93°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1
93.5°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1
94°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1
94.5°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1
95.5°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1
96°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.2	0.1	0.1	0.1
96.5°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.2	0.1	0.1	0.1
97°	0.3	0.3	0.3	0.2	0.0	0.1	0.1	0.2	0.1	0.1	0.1
97.5°	0.3	0.3	0.3	0.2	0.0	0.3	0.1	0.2	0.1	0.2	0.1
98°	0.3	0.3	0.3	0.2	0.0	0.3	0.2	0.2	0.2	0.1	0.1
98.5°	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.1
99°	0.3	0.3	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.1
99.5°	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2
100°	0.3	0.0	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2
100.5°	0.3	0.0	0.3	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2
101°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
101.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
102°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
102.5°	0.3	0.0	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3
103°	0.3	0.0	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3
103.5°	0.3	0.0	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3
104°	0.3	0.0	0.3	0.3	0.5	0.5	0.4	0.3	0.4	0.3	0.4
104.5°	0.3	0.1	0.3	0.5	0.4	0.4	0.5	0.4	0.3	0.4	0.4
105°	0.3	0.3	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.4	0.4
105.5°	0.3	0.3	0.4	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4
106°	0.3	0.3	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.4
106.5°	0.3	0.4	0.6	0.6	0.5	0.5	0.6	0.5	0.4	0.5	0.5
107°	0.4	0.4	0.6	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.5
107.5°	0.5	0.4	0.6	0.7	0.5	0.6	0.6	0.5	0.5	0.5	0.5
108°	0.4	0.4	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5
108.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6
109°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.6
109.5°	0.7	0.6	0.6	0.6	0.7	0.6	0.8	0.6	0.6	0.6	0.6
110°	0.7	0.6	0.6	0.6	0.6	0.7	0.8	0.7	0.5	0.6	0.6
110.5°	0.8	0.7	0.6	0.6	0.7	0.7	0.8	0.7	0.6	0.6	0.6
111°	0.8	0.6	0.6	0.6	0.7	0.7	0.8	0.7	0.6	0.6	0.6



TEST NUMBER: P579674

CATALOG NUMBER: SMD14R209SWHE-EM - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.7	0.6	0.6	0.6	0.8	0.7	1.0	0.8	0.7	0.8	0.8
113°	0.7	0.6	0.6	0.6	0.8	0.8	1.0	0.8	0.7	0.8	0.8
113.5°	0.7	0.6	0.6	0.6	0.9	0.8	1.0	0.8	0.7	0.8	0.8
114°	0.7	0.6	0.6	0.6	0.9	0.8	1.0	0.9	0.8	0.8	0.8
114.5°	0.7	0.6	0.6	0.7	0.9	0.8	1.0	0.8	0.8	0.8	0.8
115°	0.7	0.6	0.6	0.7	1.0	0.8	1.0	1.0	0.8	0.8	1.0
115.5°	0.7	0.6	0.7	0.7	1.0	1.0	1.2	1.0	0.8	0.9	1.0
116°	0.7	0.6	0.7	0.8	1.0	1.0	1.1	1.0	0.8	0.9	0.9
116.5°	0.7	0.7	0.7	0.8	1.0	1.0	1.1	1.0	0.9	0.9	0.9
117°	0.7	0.7	0.8	0.8	1.1	1.0	1.2	1.0	1.0	1.0	1.0
117.5°	0.7	0.7	0.8	0.8	1.0	1.0	1.2	1.0	1.0	1.0	1.0
118°	0.7	0.7	0.8	0.8	1.0	1.0	1.2	1.1	0.9	1.0	1.0
118.5°	0.7	0.7	0.8	0.8	1.2	1.2	1.3	1.1	0.9	1.0	1.0
119°	0.7	0.7	0.8	0.8	1.2	1.1	1.3	1.2	1.0	1.0	1.0
119.5°	0.7	0.9	0.9	0.9	1.1	1.1	1.3	1.2	1.0	1.1	1.1
120°	0.7	0.9	0.9	0.9	1.1	1.2	1.4	1.2	1.0	1.1	1.1
120.5°	0.7	0.9	0.8	0.9	1.2	1.1	1.4	1.2	1.0	1.1	1.1
121°	0.7	0.8	0.8	0.9	1.2	1.1	1.4	1.2	1.1	1.1	1.1
121.5°	0.7	0.8	0.9	1.0	1.2	1.2	1.4	1.2	1.1	1.2	1.2
122°	0.7	1.0	1.0	1.0	1.2	1.2	1.5	1.3	1.1	1.1	1.2
122.5°	0.8	1.1	1.0	1.0	1.3	1.2	1.5	1.3	1.2	1.2	1.2
123°	0.8	1.2	1.0	1.0	1.3	1.2	1.5	1.3	1.2	1.2	1.2
123.5°	0.8	1.2	1.0	1.2	1.3	1.2	1.5	1.3	1.2	1.2	1.2
124°	0.8	1.3	1.0	1.2	1.3	1.2	1.6	1.3	1.2	1.2	1.2
124.5°	0.8	1.3	1.0	1.3	1.3	1.2	1.5	1.4	1.2	1.2	1.2
125°	0.9	1.3	1.1	1.3	1.3	1.2	1.6	1.4	1.2	1.2	1.2
125.5°	0.9	1.4	1.2	1.3	1.4	1.3	1.6	1.5	1.3	1.2	1.3
126°	0.9	1.5	1.3	1.4	1.4	1.3	1.6	1.4	1.3	1.2	1.3
126.5°	1.0	1.4	1.6	1.4	1.4	1.3	1.6	1.4	1.4	1.3	1.3
127°	1.0	1.4	1.7	1.5	1.4	1.3	1.6	1.4	1.4	1.3	1.3
127.5°	1.0	1.4	1.7	1.3	1.4	1.3	1.7	1.5	1.4	1.3	1.3
128°	1.0	1.4	1.6	1.6	1.4	1.4	1.7	1.5	1.4	1.4	1.3
128.5°	1.4	1.5	1.6	1.5	1.4	1.4	1.6	1.5	1.4	1.4	1.3
129°	1.5	1.6	1.6	1.5	1.5	1.4	1.7	1.6	1.4	1.4	1.3
129.5°	1.5	1.4	1.6	1.5	1.5	1.4	1.7	1.6	1.4	1.4	1.3
130°	1.5	1.8	1.6	1.6	1.5	1.4	1.7	1.6	1.4	1.4	1.3
130.5°	1.4	1.8	1.6	1.5	1.5	1.4	1.7	1.6	1.5	1.4	1.4
131°	1.5	1.7	1.6	1.5	1.6	1.4	1.7	1.6	1.5	1.5	1.4
131.5°	1.5	1.7	1.6	1.7	1.5	1.4	1.8	1.7	1.5	1.5	1.4
132°	1.5	1.7	1.6	1.7	1.7	1.4	1.8	1.7	1.5	1.5	1.4
132.5°	1.6	1.7	1.7	1.6	1.6	1.5	1.8	1.7	1.5	1.5	1.4
133°	1.7	1.7	1.7	1.6	1.7	1.5	1.8	1.7	1.5	1.5	1.4
133.5°	1.6	1.7	1.7	1.6	1.7	1.5	1.8	1.7	1.5	1.5	1.4



TEST NUMBER: P579674

CATALOG NUMBER: SMD14R209SWHE-EM - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.6	1.7	1.9	1.6	1.7	1.5	1.9	1.7	1.7	1.7	1.4
135.5°	1.6	1.7	1.9	1.6	1.7	1.5	1.9	1.7	1.6	1.7	1.4
136°	1.6	1.7	1.9	1.6	1.7	1.5	1.9	1.8	1.6	1.7	1.4
136.5°	1.6	1.7	1.8	1.6	1.7	1.5	1.9	1.8	1.7	1.7	1.4
137°	1.6	1.7	1.9	1.6	1.7	1.5	1.9	1.8	1.7	1.7	1.4
137.5°	1.7	1.7	1.9	1.6	1.7	1.6	2.0	1.9	1.7	1.7	1.5
138°	1.6	1.7	1.9	1.6	1.7	1.6	2.0	1.8	1.7	1.7	1.5
138.5°	1.6	1.7	1.9	1.6	1.7	1.6	2.0	1.8	1.7	1.7	1.5
139°	1.7	1.9	1.9	1.7	1.7	1.6	2.0	1.9	1.7	1.7	1.5
139.5°	1.7	1.9	2.1	1.8	1.7	1.6	2.0	1.9	1.8	1.8	1.6
140°	1.7	1.8	2.1	1.9	1.7	1.7	2.1	1.9	1.8	1.8	1.6
140.5°	1.8	1.9	2.0	1.9	1.7	1.7	2.1	1.9	1.8	1.8	1.6
141°	1.8	1.9	2.0	1.9	1.7	1.7	2.1	1.9	1.8	1.8	1.6
141.5°	1.9	2.0	2.0	1.9	1.7	1.7	2.1	2.0	1.8	1.9	1.6
142°	1.9	1.9	2.0	1.9	1.7	1.7	2.1	2.0	1.9	1.9	1.7
142.5°	1.9	2.1	2.1	2.0	1.7	1.7	2.1	2.0	1.9	1.9	1.6
143°	2.0	2.1	2.1	2.1	1.7	1.7	2.1	2.0	1.9	1.9	1.6
143.5°	2.0	2.1	2.1	2.1	1.7	1.7	2.1	2.1	2.0	2.0	1.7
144°	2.0	2.1	2.1	2.1	1.9	1.8	2.1	2.1	2.0	1.9	1.7
144.5°	2.0	2.2	2.1	2.3	1.9	1.8	2.1	2.1	2.0	2.0	1.7
145°	2.1	2.3	2.1	2.5	1.9	1.7	2.1	2.1	2.0	2.0	1.7
145.5°	2.0	2.5	2.1	2.6	1.9	1.8	2.1	2.2	2.0	2.0	1.7
146°	2.2	2.6	2.2	2.6	1.9	1.8	2.1	2.1	2.1	2.0	1.8
146.5°	2.4	2.6	2.3	2.6	1.9	1.8	2.1	2.3	2.1	2.0	1.7
147°	2.4	2.8	2.3	2.6	2.2	1.9	2.1	2.2	2.2	2.0	1.9
147.5°	2.4	2.8	2.4	2.6	2.2	1.9	2.1	2.2	2.2	2.0	1.9
148°	2.6	2.7	2.5	2.6	2.3	1.9	2.1	2.3	2.2	2.0	1.9
148.5°	2.6	2.7	2.6	2.6	2.4	1.9	2.1	2.4	2.3	2.0	1.9
149°	2.6	2.7	2.6	2.6	2.4	2.0	2.1	2.4	2.3	2.0	2.0
149.5°	2.6	2.7	2.6	2.6	2.5	2.1	2.3	2.4	2.4	2.0	2.0
150°	2.6	2.7	2.7	2.6	2.6	2.1	2.3	2.4	2.4	2.0	2.0
150.5°	2.6	2.7	2.8	2.6	2.6	2.2	2.2	2.4	2.3	2.0	2.1
151°	2.6	2.7	2.8	2.6	2.6	2.2	2.2	2.4	2.4	2.0	2.1
151.5°	2.6	2.7	2.8	2.6	2.6	2.3	2.2	2.5	2.3	2.1	2.1
152°	2.6	2.7	2.8	2.7	2.6	2.3	2.4	2.4	2.3	2.1	2.2
152.5°	2.6	2.7	2.8	2.7	2.7	2.4	2.4	2.6	2.4	2.2	2.3
153°	2.6	2.7	2.8	2.8	2.8	2.5	2.3	2.6	2.4	2.1	2.3
153.5°	2.6	2.7	2.8	2.7	2.8	2.6	2.4	2.5	2.5	2.3	2.3
154°	2.6	2.7	2.8	2.8	2.8	2.6	2.5	2.5	2.5	2.3	2.3
154.5°	2.6	2.7	2.8	2.8	2.8	2.8	2.5	2.5	2.6	2.3	2.3
155°	2.7	2.7	2.8	2.9	2.8	2.9	2.6	2.5	2.6	2.3	2.3
155.5°	2.7	2.7	2.8	2.8	2.9	3.0	2.6	2.5	2.6	2.4	2.4
156°	2.7	2.7	2.8	3.0	3.3	3.0	2.6	2.6	2.6	2.4	2.4



TEST NUMBER: P579674

CATALOG NUMBER: SMD14R209SWHE-EM - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	2.7	2.7	3.0	3.2	3.4	3.3	2.9	2.7	2.7	2.6	2.7
158°	2.7	2.7	3.0	3.3	3.5	3.4	3.1	2.7	2.8	2.7	2.8
158.5°	2.7	2.8	3.1	3.4	3.5	3.5	3.2	2.8	2.8	2.8	2.8
159°	2.8	2.8	3.1	3.5	3.6	3.5	3.2	2.8	2.8	2.8	2.8
159.5°	2.8	3.0	3.1	3.7	3.7	3.7	3.3	2.9	2.8	2.9	2.9
160°	2.8	2.9	3.2	3.8	3.7	3.7	3.3	3.0	2.9	3.0	3.0
160.5°	2.8	3.0	3.3	3.7	3.7	3.7	3.3	3.1	2.9	3.0	3.0
161°	2.8	3.0	3.4	3.7	3.7	3.7	3.5	3.2	2.9	3.0	3.2
161.5°	2.8	3.0	3.4	3.7	3.6	3.7	3.5	3.2	2.9	3.0	3.2
162°	2.8	3.3	3.6	3.7	3.6	3.7	3.5	3.2	3.0	3.0	3.3
162.5°	2.8	3.3	3.7	3.8	3.6	3.6	3.4	3.2	3.1	3.0	3.3
163°	2.8	3.4	3.7	3.7	3.6	3.7	3.6	3.4	3.2	3.0	3.2
163.5°	2.8	3.4	3.8	3.9	3.5	3.5	3.6	3.4	3.2	3.1	3.2
164°	2.8	3.5	3.7	3.8	3.5	3.5	3.5	3.5	3.2	3.1	3.2
164.5°	2.8	3.7	3.7	3.8	3.5	3.5	3.5	3.5	3.3	3.1	3.2
165°	2.8	3.7	3.7	3.9	3.3	3.5	3.5	3.5	3.3	3.2	3.2
165.5°	2.8	3.7	3.7	3.9	3.3	3.5	3.5	3.7	3.4	3.2	3.2
166°	2.8	3.7	3.7	3.9	3.5	3.5	3.5	3.7	3.4	3.2	3.2
166.5°	2.8	3.7	3.7	3.9	3.4	3.5	3.5	3.7	3.4	3.2	3.2
167°	2.8	3.7	3.7	3.9	3.4	3.5	3.5	3.7	3.6	3.2	3.2
167.5°	2.9	3.7	3.7	3.9	3.3	3.5	3.5	3.7	3.6	3.2	3.2
168°	2.8	3.7	3.7	3.9	3.3	3.5	3.5	3.7	3.6	3.2	3.2
168.5°	2.8	3.7	3.7	3.9	3.3	3.5	3.5	3.7	3.6	3.3	3.2
169°	2.8	3.7	3.7	3.9	3.4	3.5	3.5	3.7	3.6	3.2	3.2
169.5°	2.8	3.8	3.7	4.0	3.4	3.5	3.5	3.7	3.6	3.3	3.2
170°	2.8	3.8	3.7	3.9	3.5	3.5	3.5	3.7	3.6	3.3	3.3
170.5°	2.8	3.8	3.7	3.9	3.4	3.5	3.5	3.7	3.6	3.3	3.3
171°	2.8	3.8	3.7	3.8	3.5	3.5	3.5	3.7	3.6	3.3	3.3
171.5°	2.9	3.8	3.7	3.7	3.3	3.5	3.5	3.7	3.6	3.4	3.4
172°	2.8	3.8	3.7	3.8	3.3	3.5	3.5	3.7	3.6	3.4	3.3
172.5°	2.8	3.8	3.7	3.7	3.3	3.5	3.5	3.7	3.6	3.4	3.3
173°	3.0	3.9	3.7	3.7	3.5	3.5	3.5	3.7	3.7	3.4	3.5
173.5°	3.0	3.9	3.7	3.7	3.5	3.5	3.5	3.7	3.7	3.4	3.4
174°	2.9	3.7	3.7	3.6	3.5	3.5	3.5	3.7	3.5	3.4	3.4
174.5°	2.9	3.7	3.7	3.6	3.4	3.5	3.5	3.7	3.5	3.5	3.4
175°	2.9	3.7	3.8	3.5	3.4	3.5	3.5	3.7	3.5	3.5	3.4
175.5°	2.9	3.7	3.8	3.5	3.4	3.5	3.5	3.7	3.5	3.5	3.5
176°	2.9	3.7	3.7	3.5	3.4	3.7	3.5	3.7	3.5	3.5	3.5
176.5°	2.9	3.7	3.6	3.5	3.4	3.7	3.6	3.7	3.5	3.5	3.5
177°	2.9	3.7	3.6	3.5	3.4	3.7	3.6	3.9	3.5	3.5	3.5
177.5°	2.9	3.6	3.6	3.5	3.5	3.7	3.7	3.9	3.5	3.7	3.6
178°	3.1	3.6	3.6	3.5	3.6	3.7	3.7	3.8	3.5	3.6	3.7
178.5°	3.3	3.6	3.6	3.5	3.8	3.7	3.7	3.8	3.5	3.6	3.6



TEST NUMBER: P579674

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5



TEST NUMBER: P579674

CATALOG NUMBER: SMD14R209SWHE-EM - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	772.8	772.8	772.8	772.8	772.8	772.8
0.5°	772.3	773.2	772.9	772.0	772.4	773.3
1°	772.3	772.8	772.7	772.9	772.9	773.4
1.5°	772.3	772.7	772.7	772.6	773.3	773.6
2°	772.3	772.5	772.5	772.7	772.7	774.2
2.5°	772.7	772.5	773.4	772.7	772.4	773.9
3°	771.8	771.9	773.9	772.0	772.6	772.9
3.5°	771.5	771.9	773.2	771.9	772.9	772.1
4°	771.6	771.6	772.0	772.3	771.7	771.7
4.5°	771.2	771.2	772.1	771.1	770.9	771.1
5°	770.2	770.4	771.6	770.4	770.4	770.7
5.5°	769.9	769.9	770.4	769.3	769.8	770.5
6°	768.5	769.1	769.9	768.7	768.7	768.4
6.5°	769.0	768.9	769.6	768.3	768.0	768.1
7°	767.8	767.5	768.9	767.7	767.0	767.3
7.5°	767.6	766.6	767.6	766.7	765.5	766.1
8°	766.0	766.0	765.9	764.9	765.0	763.9
8.5°	764.3	765.2	764.8	764.1	763.9	763.3
9°	763.5	763.7	763.4	763.3	762.5	762.7
9.5°	762.8	762.5	762.3	761.4	761.0	761.1
10°	760.7	760.8	761.2	760.4	759.7	761.0
10.5°	759.4	760.0	760.1	759.5	758.9	760.3
11°	758.3	758.1	758.4	757.1	758.0	758.5
11.5°	757.0	756.8	757.0	755.8	756.5	756.7
12°	755.7	755.0	756.6	755.5	754.6	755.3
12.5°	753.8	753.1	755.7	753.7	752.9	753.4
13°	751.7	751.7	753.2	752.2	750.9	751.2
13.5°	750.5	749.6	750.2	750.6	749.6	749.5
14°	748.9	748.0	748.5	748.6	748.0	747.7
14.5°	746.9	746.4	747.0	746.3	745.6	745.7
15°	745.0	744.5	745.4	744.0	743.2	743.3
15.5°	743.4	742.2	743.5	742.0	740.6	741.8
16°	741.6	740.2	741.6	739.6	739.5	739.9
16.5°	739.7	738.4	739.5	737.1	737.7	737.2
17°	737.7	736.8	737.1	735.2	734.7	735.5
17.5°	734.8	734.8	735.2	733.6	732.4	733.2
18°	733.2	732.5	733.2	731.1	730.4	730.9
18.5°	730.8	730.7	731.0	728.7	728.3	727.3
19°	728.2	729.0	728.7	726.5	725.7	724.2
19.5°	725.8	726.3	726.6	724.3	723.4	722.8
20°	723.2	723.1	724.4	722.0	721.1	721.0
20.5°	720.5	719.8	721.2	719.3	718.2	718.2
21°	717.5	718.0	718.7	716.4	715.5	716.4



TEST NUMBER: P579674

CATALOG NUMBER: SMD14R209SWHE-EM - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	710.3	709.2	710.8	707.8	707.4	708.5
23°	707.5	706.4	707.9	705.0	705.3	704.8
23.5°	704.3	703.4	703.8	701.8	702.4	700.9
24°	701.8	700.2	700.6	698.7	698.8	697.8
24.5°	698.4	697.5	697.9	695.7	695.6	694.8
25°	695.4	694.3	694.9	692.9	692.2	691.6
25.5°	692.2	691.3	691.8	689.3	689.2	688.4
26°	689.3	688.2	688.6	686.4	686.0	685.2
26.5°	685.4	684.9	686.0	683.5	683.0	682.6
27°	682.6	681.6	683.0	680.0	679.8	679.0
27.5°	679.2	678.4	679.7	676.6	676.0	675.1
28°	675.9	675.1	675.1	673.0	672.2	671.3
28.5°	672.5	671.6	671.8	670.6	668.9	667.9
29°	668.7	668.2	667.7	666.8	665.4	664.7
29.5°	665.1	664.6	663.7	663.1	661.5	660.9
30°	661.3	661.0	660.3	659.4	657.9	657.4
30.5°	657.8	657.1	657.0	655.8	654.5	653.7
31°	654.0	653.2	653.1	652.4	650.5	649.9
31.5°	650.7	649.4	649.8	648.2	646.6	646.2
32°	645.9	645.5	646.2	644.3	643.3	642.0
32.5°	642.1	641.7	642.2	639.9	639.2	638.0
33°	638.7	637.5	638.0	636.3	635.4	634.0
33.5°	634.9	633.6	633.9	632.6	630.9	629.9
34°	630.3	629.7	629.7	628.5	627.0	625.7
34.5°	626.8	625.5	626.1	624.3	622.8	621.3
35°	622.6	621.3	621.9	620.0	618.9	617.2
35.5°	618.5	617.0	617.3	615.5	614.4	613.3
36°	614.0	612.9	613.1	610.8	610.0	608.8
36.5°	610.2	608.6	608.8	606.6	605.4	604.5
37°	606.0	604.0	604.5	602.5	600.9	599.8
37.5°	601.5	599.8	600.2	598.2	596.8	594.6
38°	596.7	595.1	595.5	593.3	592.2	590.1
38.5°	592.3	590.7	590.9	589.0	587.7	585.7
39°	587.6	585.9	586.0	584.3	583.4	581.2
39.5°	583.1	581.2	581.4	579.6	578.3	576.5
40°	578.5	576.5	577.0	575.1	573.3	571.8
40.5°	573.9	572.0	572.2	570.4	568.4	566.8
41°	569.2	567.3	567.1	565.8	563.9	561.8
41.5°	564.4	562.7	562.4	560.8	559.2	556.9
42°	559.4	558.0	557.6	555.9	554.2	552.0
42.5°	554.5	553.0	552.9	551.1	549.5	547.4
43°	549.3	548.2	548.2	546.3	544.7	542.3
43.5°	544.3	543.2	543.4	541.2	539.8	537.2



TEST NUMBER: P579674

CATALOG NUMBER: SMD14R209SWHE-EM - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	529.3	527.7	527.7	526.0	523.8	521.8
45.5°	524.7	522.5	522.8	520.9	518.7	516.8
46°	519.2	517.3	517.4	515.9	513.7	511.6
46.5°	513.9	512.1	512.2	510.8	508.4	506.2
47°	509.1	506.8	506.9	505.1	502.9	500.8
47.5°	503.3	501.4	501.5	499.4	497.7	495.4
48°	497.6	496.1	496.2	494.3	492.2	489.9
48.5°	492.5	490.7	490.7	488.8	486.7	484.4
49°	487.3	485.3	485.2	483.7	481.3	479.0
49.5°	481.2	480.1	480.1	478.4	476.0	473.5
50°	476.0	474.6	474.4	472.7	470.1	467.6
50.5°	470.0	468.9	468.8	467.3	464.6	462.0
51°	464.3	462.9	463.2	461.8	459.0	456.4
51.5°	458.9	457.5	457.5	456.3	453.0	450.9
52°	453.2	451.8	452.0	450.5	447.5	445.3
52.5°	447.5	445.9	446.1	444.5	441.5	439.1
53°	441.8	440.4	440.3	438.6	435.9	433.4
53.5°	435.8	434.5	434.4	432.7	430.0	427.7
54°	429.9	428.4	428.4	426.8	424.1	421.7
54.5°	424.4	422.5	422.7	420.9	418.2	416.0
55°	418.4	416.9	416.8	415.1	412.1	409.7
55.5°	412.9	411.0	410.6	409.0	406.0	403.8
56°	406.4	405.0	404.2	403.1	400.0	397.5
56.5°	400.5	398.9	398.1	396.9	394.0	391.5
57°	394.6	392.8	392.1	390.8	387.9	385.5
57.5°	388.6	386.6	386.0	384.7	381.9	379.1
58°	382.5	380.4	379.9	378.5	375.7	372.9
58.5°	376.1	374.3	373.7	372.3	369.7	366.8
59°	370.0	368.1	367.6	366.2	363.3	360.6
59.5°	363.8	361.9	361.3	359.8	356.9	354.4
60°	357.7	355.7	355.1	353.5	350.7	348.4
60.5°	351.6	349.2	349.0	347.4	344.5	341.9
61°	345.4	342.9	342.9	341.2	338.0	335.4
61.5°	339.4	336.7	336.5	335.0	332.2	329.2
62°	333.1	330.5	330.3	328.3	325.9	322.7
62.5°	326.6	324.2	323.9	322.0	319.4	316.4
63°	320.6	317.8	317.4	315.5	313.0	310.1
63.5°	314.3	311.5	311.0	309.5	306.7	303.6
64°	307.8	305.1	304.6	303.2	300.6	297.3
64.5°	301.2	298.7	298.4	296.6	294.1	290.8
65°	294.9	292.4	292.0	290.2	287.6	284.6
65.5°	288.4	285.8	285.5	284.1	281.1	278.1
66°	282.1	279.5	279.2	277.5	274.8	271.6



TEST NUMBER: P579674

CATALOG NUMBER: SMD14R209SWHE-EM - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	262.8	260.0	259.7	258.3	255.4	252.1
68°	255.7	253.4	253.2	252.1	249.1	245.3
68.5°	249.6	247.0	246.7	245.4	242.5	238.8
69°	242.8	240.5	240.4	239.1	236.3	232.5
69.5°	236.3	233.9	233.9	232.1	229.5	226.2
70°	229.7	227.4	227.2	225.6	223.1	219.8
70.5°	223.5	220.9	220.9	219.2	216.8	213.6
71°	217.2	214.5	214.3	213.0	210.3	207.2
71.5°	210.7	208.1	208.0	206.6	203.9	200.9
72°	204.3	201.5	201.4	200.1	197.5	194.4
72.5°	197.9	195.3	195.1	193.8	190.7	187.8
73°	191.6	188.7	188.6	187.4	184.7	181.5
73.5°	185.1	182.4	182.5	181.1	178.5	175.1
74°	178.7	176.1	176.1	174.5	172.1	168.7
74.5°	172.3	169.8	169.8	168.4	165.7	162.3
75°	165.9	163.3	163.3	162.2	159.5	156.1
75.5°	159.4	157.1	157.2	155.9	153.3	150.0
76°	153.4	150.9	150.9	149.7	147.2	143.7
76.5°	147.2	144.7	144.7	143.8	141.0	137.6
77°	141.2	138.4	138.6	137.6	134.9	131.4
77.5°	135.0	132.4	132.5	131.4	128.7	125.4
78°	128.8	126.4	126.5	125.1	122.7	119.6
78.5°	122.5	120.4	120.4	119.5	116.7	113.5
79°	116.8	114.5	114.4	113.4	111.0	107.8
79.5°	110.6	108.5	108.6	107.5	105.0	101.9
80°	104.8	102.7	102.8	101.4	99.3	96.2
80.5°	99.2	96.8	97.1	95.9	93.6	90.6
81°	93.4	91.0	91.3	90.4	88.2	85.1
81.5°	87.7	85.6	85.8	84.9	82.5	79.4
82°	82.1	80.1	80.2	79.4	76.9	73.9
82.5°	76.5	74.5	74.7	73.7	71.4	68.3
83°	71.0	69.1	69.0	68.1	65.9	62.8
83.5°	65.4	63.6	63.6	62.6	60.5	57.4
84°	60.2	58.2	58.4	57.4	55.3	52.4
84.5°	55.2	53.1	53.2	52.1	50.1	47.3
85°	50.0	47.8	48.0	47.0	45.0	42.1
85.5°	44.9	42.7	43.0	41.8	39.9	37.2
86°	40.0	37.7	37.9	37.1	34.9	32.3
86.5°	35.1	32.9	32.9	32.0	30.1	27.6
87°	30.4	28.2	28.1	27.3	25.4	23.1
87.5°	25.6	23.7	23.6	22.8	21.1	18.8
88°	21.3	19.3	19.4	18.5	16.6	14.6
88.5°	16.9	15.1	15.1	14.2	12.6	10.6



TEST NUMBER: P579674

CATALOG NUMBER: SMD14R209SWHE-EM - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	5.9	4.3	4.2	3.7	2.0	0.8
90.5°	2.9	1.4	1.4	1.1	0.4	0.4
91°	0.5	0.3	0.4	0.4	0.3	0.3
91.5°	0.0	0.3	0.3	0.3	0.3	0.3
92°	0.0	0.3	0.3	0.3	0.2	0.3
92.5°	0.1	0.3	0.3	0.3	0.2	0.3
93°	0.1	0.3	0.3	0.3	0.2	0.3
93.5°	0.1	0.3	0.3	0.3	0.2	0.3
94°	0.1	0.3	0.3	0.3	0.2	0.3
94.5°	0.1	0.3	0.3	0.3	0.2	0.3
95°	0.1	0.3	0.3	0.3	0.2	0.3
95.5°	0.1	0.3	0.3	0.3	0.2	0.3
96°	0.1	0.3	0.3	0.3	0.2	0.3
96.5°	0.2	0.3	0.3	0.3	0.2	0.3
97°	0.2	0.3	0.3	0.3	0.2	0.3
97.5°	0.2	0.3	0.3	0.3	0.2	0.3
98°	0.2	0.3	0.3	0.3	0.2	0.3
98.5°	0.1	0.3	0.3	0.3	0.2	0.3
99°	0.3	0.3	0.3	0.3	0.2	0.3
99.5°	0.3	0.3	0.3	0.3	0.2	0.3
100°	0.2	0.3	0.3	0.3	0.2	0.3
100.5°	0.2	0.3	0.3	0.3	0.2	0.3
101°	0.3	0.3	0.3	0.3	0.2	0.3
101.5°	0.3	0.3	0.4	0.3	0.2	0.3
102°	0.3	0.3	0.4	0.3	0.2	0.3
102.5°	0.3	0.3	0.3	0.3	0.2	0.3
103°	0.4	0.3	0.5	0.3	0.2	0.3
103.5°	0.4	0.3	0.5	0.3	0.2	0.3
104°	0.4	0.3	0.5	0.3	0.2	0.3
104.5°	0.4	0.3	0.5	0.3	0.2	0.3
105°	0.5	0.3	0.5	0.3	0.2	0.3
105.5°	0.5	0.3	0.5	0.5	0.2	0.3
106°	0.5	0.3	0.5	0.5	0.4	0.3
106.5°	0.5	0.4	0.5	0.6	0.3	0.3
107°	0.5	0.4	0.5	0.6	0.5	0.4
107.5°	0.6	0.4	0.6	0.6	0.7	0.5
108°	0.6	0.5	0.6	0.6	0.7	0.4
108.5°	0.6	0.5	0.6	0.8	0.6	0.6
109°	0.6	0.5	0.6	0.8	0.6	0.6
109.5°	0.7	0.7	0.6	0.7	0.6	0.7
110°	0.7	0.7	0.6	0.7	0.6	0.7
110.5°	0.6	0.6	0.7	0.7	0.6	0.8
111°	0.7	0.6	0.7	0.7	0.6	0.8



TEST NUMBER: P579674

CATALOG NUMBER: SMD14R209SWHE-EM - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.8	0.6	0.7	0.7	0.6	0.7
113°	0.8	0.6	0.7	0.7	0.6	0.7
113.5°	0.8	0.6	0.7	0.7	0.6	0.7
114°	0.8	0.6	0.7	0.7	0.6	0.7
114.5°	0.9	0.6	0.7	0.7	0.6	0.7
115°	1.0	0.6	0.7	0.7	0.6	0.7
115.5°	0.9	0.6	0.8	0.7	0.6	0.7
116°	0.9	0.6	0.8	0.7	0.6	0.7
116.5°	1.0	0.7	0.8	0.7	0.6	0.7
117°	1.0	0.7	0.8	0.7	0.6	0.7
117.5°	1.1	0.8	0.8	0.7	0.6	0.7
118°	1.1	0.8	0.8	0.7	0.7	0.7
118.5°	1.1	0.8	0.8	0.8	0.7	0.7
119°	1.1	0.8	0.8	0.8	0.8	0.7
119.5°	1.1	0.8	0.8	0.8	0.8	0.7
120°	1.2	0.8	0.8	0.9	0.8	0.7
120.5°	1.2	0.8	0.9	0.9	0.8	0.7
121°	1.2	0.8	0.8	0.9	0.8	0.7
121.5°	1.2	0.8	0.8	0.9	0.9	0.7
122°	1.2	0.8	1.0	1.0	0.9	0.7
122.5°	1.3	0.9	1.0	1.0	0.8	0.8
123°	1.3	0.9	0.9	1.0	1.0	0.8
123.5°	1.4	1.0	0.9	1.0	0.9	0.8
124°	1.4	1.0	0.9	1.0	1.0	0.8
124.5°	1.4	1.0	0.9	1.1	1.0	0.8
125°	1.4	1.0	0.9	1.0	0.9	0.9
125.5°	1.4	1.0	0.9	1.2	1.0	0.9
126°	1.5	1.1	0.9	1.2	1.1	0.9
126.5°	1.5	1.1	0.9	1.2	1.1	1.0
127°	1.4	1.3	0.9	1.3	1.2	1.0
127.5°	1.4	1.4	1.0	1.3	1.2	1.0
128°	1.5	1.4	1.0	1.4	1.3	1.0
128.5°	1.5	1.5	1.0	1.5	1.3	1.4
129°	1.5	1.5	1.0	1.5	1.4	1.5
129.5°	1.6	1.7	1.0	1.5	1.5	1.5
130°	1.5	1.7	1.2	1.5	1.4	1.5
130.5°	1.5	1.7	1.2	1.6	1.5	1.4
131°	1.7	1.7	1.2	1.6	1.5	1.5
131.5°	1.6	1.7	1.2	1.6	1.5	1.5
132°	1.7	1.7	1.5	1.6	1.5	1.5
132.5°	1.7	1.7	1.4	1.6	1.5	1.6
133°	1.7	1.7	1.5	1.6	1.5	1.7
133.5°	1.7	1.7	1.5	1.6	1.5	1.6



TEST NUMBER: P579674

CATALOG NUMBER: SMD14R209SWHE-EM - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	1.9	1.7	1.6	1.7	1.5	1.6
135.5°	1.8	1.7	1.6	1.7	1.5	1.6
136°	1.8	1.7	1.6	1.7	1.6	1.6
136.5°	1.9	1.8	1.6	1.8	2.2	1.6
137°	1.9	1.8	1.6	1.7	2.2	1.6
137.5°	1.9	1.8	1.6	1.9	2.2	1.7
138°	1.9	1.7	1.6	1.8	2.2	1.6
138.5°	1.9	1.9	1.6	1.9	2.2	1.6
139°	2.0	1.9	1.6	1.9	2.2	1.7
139.5°	2.1	2.3	1.6	1.9	2.2	1.7
140°	2.1	2.3	1.7	1.9	2.2	1.7
140.5°	2.1	2.3	1.6	1.9	2.2	1.8
141°	2.1	2.3	1.7	2.0	2.2	1.8
141.5°	2.1	2.3	1.7	2.0	2.2	1.9
142°	2.1	2.3	1.7	2.0	2.2	1.9
142.5°	2.3	2.3	1.8	2.0	2.2	1.9
143°	2.2	2.3	1.8	2.1	2.2	2.0
143.5°	2.2	2.3	1.9	2.0	2.2	2.0
144°	2.3	2.4	1.9	2.1	2.2	2.0
144.5°	2.3	2.5	1.9	2.1	2.3	2.0
145°	2.4	2.6	2.0	2.1	2.4	2.1
145.5°	2.4	2.7	2.0	2.3	2.3	2.0
146°	2.4	2.7	2.0	2.2	2.4	2.2
146.5°	2.4	2.8	2.1	2.3	2.5	2.4
147°	2.5	2.8	2.2	2.4	2.6	2.4
147.5°	2.5	2.7	2.3	2.4	2.6	2.4
148°	2.5	2.7	2.4	2.6	2.6	2.6
148.5°	2.5	2.7	2.5	2.5	2.6	2.6
149°	2.6	2.7	2.5	2.5	2.6	2.6
149.5°	2.6	2.7	2.6	2.6	2.6	2.6
150°	2.6	2.8	2.6	2.7	2.6	2.6
150.5°	2.6	2.7	2.6	2.7	2.6	2.6
151°	2.7	2.7	2.6	2.8	2.6	2.6
151.5°	2.7	2.8	2.6	2.7	2.6	2.6
152°	2.7	2.8	2.6	2.7	2.6	2.6
152.5°	2.7	2.9	2.6	2.7	2.6	2.6
153°	2.7	3.0	2.7	2.7	2.6	2.6
153.5°	2.7	3.0	2.7	2.7	2.6	2.6
154°	2.8	3.1	2.8	2.7	2.6	2.6
154.5°	2.8	3.1	2.8	2.7	2.6	2.6
155°	2.8	3.1	2.8	2.7	2.6	2.7
155.5°	2.8	3.2	3.0	2.7	2.6	2.7
156°	3.0	3.3	3.0	2.7	2.6	2.7



TEST NUMBER: P579674

CATALOG NUMBER: SMD14R209SWHE-EM - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	3.1	3.7	3.4	2.7	2.6	2.7
158°	3.2	3.7	3.5	2.7	2.6	2.7
158.5°	3.2	3.7	3.7	2.7	2.6	2.7
159°	3.2	3.7	3.6	2.7	2.6	2.8
159.5°	3.3	3.7	3.7	2.7	2.6	2.8
160°	3.3	3.7	3.7	2.7	2.6	2.8
160.5°	3.3	3.7	3.7	2.7	2.6	2.8
161°	3.4	3.7	3.8	2.8	2.6	2.8
161.5°	3.4	3.7	3.8	2.8	2.6	2.8
162°	3.4	3.7	3.7	2.9	2.6	2.8
162.5°	3.4	3.7	3.7	3.0	2.6	2.8
163°	3.4	3.7	3.7	3.0	2.6	2.8
163.5°	3.5	3.7	3.7	3.0	2.7	2.8
164°	3.5	3.7	3.7	3.2	2.8	2.8
164.5°	3.5	3.7	3.7	3.2	2.8	2.8
165°	3.5	3.7	3.7	3.3	2.8	2.8
165.5°	3.5	3.7	3.7	3.5	2.8	2.8
166°	3.5	3.7	3.7	3.5	3.0	2.8
166.5°	3.5	3.7	3.7	3.7	2.9	2.8
167°	3.5	3.7	3.7	3.7	3.0	2.8
167.5°	3.5	3.7	3.7	3.7	3.0	2.9
168°	3.5	3.7	3.7	3.7	3.0	2.8
168.5°	3.5	3.7	3.7	3.7	3.0	2.8
169°	3.5	3.7	3.7	3.7	3.0	2.8
169.5°	3.5	3.7	3.7	3.7	3.0	2.8
170°	3.5	3.7	3.7	3.7	3.0	2.8
170.5°	3.5	3.7	3.9	3.7	3.0	2.8
171°	3.5	3.7	3.8	3.7	3.0	2.8
171.5°	3.5	3.7	3.8	3.7	3.0	2.9
172°	3.5	3.8	3.8	3.7	3.0	2.8
172.5°	3.5	3.8	3.8	3.7	3.0	2.8
173°	3.5	3.7	3.8	3.7	3.0	3.0
173.5°	3.5	3.7	3.8	3.7	3.0	3.0
174°	3.5	3.7	3.9	3.7	3.0	2.9
174.5°	3.5	3.7	3.8	3.7	3.0	2.9
175°	3.5	3.7	3.8	3.7	3.0	2.9
175.5°	3.5	3.6	3.8	3.7	3.0	2.9
176°	3.5	3.7	3.7	3.7	3.0	2.9
176.5°	3.6	3.6	3.7	3.7	3.0	2.9
177°	3.6	3.6	3.7	3.8	3.1	2.9
177.5°	3.6	3.7	3.7	3.8	3.2	2.9
178°	3.6	3.7	3.7	3.8	3.5	3.1
178.5°	3.6	3.7	3.7	3.8	3.5	3.3



TEST NUMBER: P579674

CATALOG NUMBER: SMD14R209SWHE-EM - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	3.5	3.5	3.5	3.5	3.5	3.5



Report Generated By 670245859 / DESKTOP-HRDQ47P





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







21.5°	713.5	710.4	708.8	705.7	705.6	707.2	708.0	709.0	712.0	713.4	715.2
22°	711.1	707.4	705.7	702.7	703.1	704.6	705.0	706.0	709.3	710.4	712.6



44°	532.3	527.9	525.5	522.6	523.0	524.5	526.1	528.6	532.2	534.9	537.6
44.5°	527.2	522.9	520.3	517.4	518.2	519.4	521.0	523.3	526.9	529.6	532.8



66.5°	265.1	260.3	256.3	253.2	255.5	256.4	258.5	261.9	265.4	269.4	272.8
67°	258.6	253.9	249.9	246.8	249.3	250.4	252.3	255.5	259.2	262.8	266.4



89°	6.9	4.8	3.0	1.7	3.0	3.4	4.4	5.7	7.5	9.6	11.4
89.5°	3.5	1.6	0.9	0.4	0.7	0.9	1.6	2.7	4.2	6.4	8.0



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



134°	1.6	1.7	1.7	1.6	1.7	1.5	1.9	1.7	1.5	1.5	1.4
134.5°	1.6	1.7	1.7	1.6	1.7	1.5	1.9	1.7	1.6	1.7	1.4



156.5°	2.7	2.7	2.8	3.1	3.3	3.2	2.7	2.6	2.6	2.5	2.5
157°	2.7	2.7	2.9	3.2	3.2	3.3	2.8	2.6	2.7	2.5	2.6



179°	3.5	3.6	3.6	3.5	3.8	3.7	3.7	3.8	3.4	3.7	3.6
179.5°	3.5	3.6	3.6	3.5	3.8	3.7	3.7	3.8	3.4	3.5	3.6





21.5°	714.4	715.4	715.8	713.7	712.9	713.5
22°	712.9	712.6	713.1	711.0	710.2	711.1



44°	539.6	538.0	538.2	536.3	534.5	532.3
44.5°	534.7	532.8	533.2	531.1	529.1	527.2



66.5°	275.7	273.0	272.8	271.2	268.6	265.1
67°	269.2	266.5	266.3	264.8	261.9	258.6



89°	12.7	11.0	11.1	10.4	8.9	6.9
89.5°	9.1	7.3	7.4	7.0	5.3	3.5



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



134°	1.7	1.7	1.6	1.6	1.5	1.6
134.5°	1.7	1.7	1.5	1.7	1.5	1.6



156.5°	3.0	3.5	3.1	2.7	2.6	2.7
157°	3.0	3.7	3.3	2.7	2.6	2.7



179°	3.6	3.7	3.7	3.8	3.4	3.5
179.5°	3.6	3.7	3.7	3.8	3.4	3.5



(END OF REPORT)