

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: P579675

Luminaire Tested: **SMD14R209SWHE-EM - 3000K**

Issue Date: 11/23/2021



**Test Information**

Test Method: LM-41-14  
Report Number: P579675  
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 - 3000K  
Description: SMD SELECTABLE CCT 3000K  
Light Source: SELECTABLE CCT LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

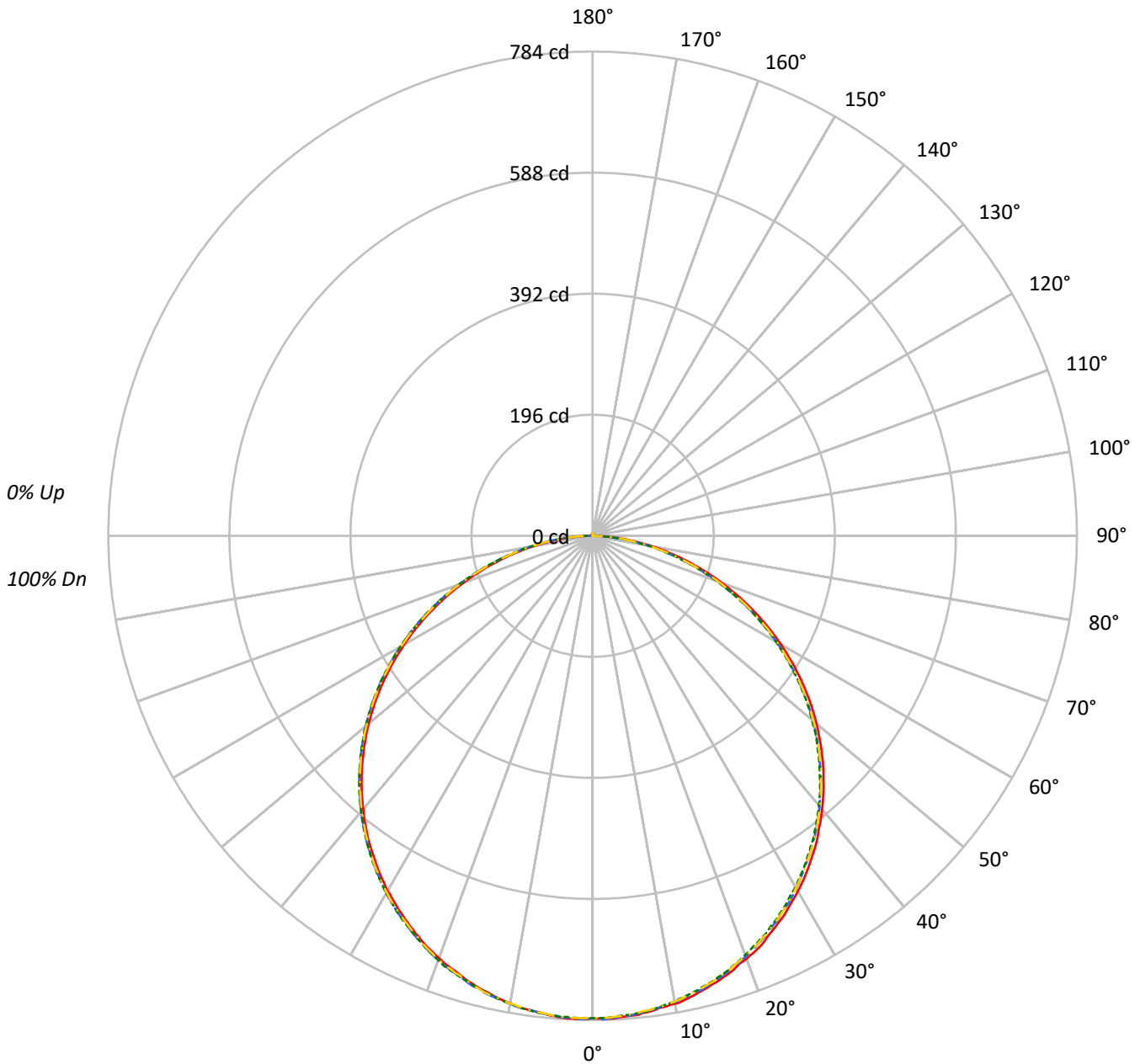
Lumens per Lamp: N/A  
Luminaire Lumens: 2280.0 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Circular (Dia: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 29.4  
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	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°	10709	10709	10709	10709
5°	10721	10691	10732	10717
10°	10709	10656	10698	10706
15°	10664	10604	10657	10681
20°	10632	10536	10610	10664
25°	10573	10464	10564	10616
30°	10519	10394	10505	10576
35°	10440	10294	10427	10509
40°	10343	10194	10341	10428
45°	10226	10051	10224	10340
50°	10081	9876	10089	10230
55°	9899	9672	9899	10071
60°	9657	9385	9651	9857
65°	9333	9025	9343	9586
70°	8904	8531	8932	9212
75°	8356	7879	8388	8742
80°	7679	6993	7687	8192
85°	6699	5645	6762	7595



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.0	3.2
10°-20°	211.9	9.3
20°-30°	321.7	14.1
30°-40°	389.5	17.1
40°-50°	406.3	17.8
50°-60°	369.4	16.2
60°-70°	284.1	12.5
70°-80°	166.8	7.3
80°-90°	48.4	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°	607.6	26.6
0°-40°	997.1	43.7
0°-60°	1772.8	77.8
0°-90°	2272.1	99.7
90°-120°	1.6	0.1
90°-150°	5.3	0.2
90°-180°	8.0	0.4
0°-180°	2280.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	781	781	781	781	781	
5°	779	777	780	779	779	74
15°	752	747	751	753	752	212
25°	699	692	699	702	699	322
35°	624	615	623	628	624	390
45°	528	519	528	534	528	407
55°	414	405	414	422	414	370
65°	288	278	288	296	288	284
75°	158	149	158	165	158	167
85°	43	36	43	48	43	46
90°	1	0	2	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°	781.4	781.4	781.4	781.4	781.4	781.4	781.4	781.4	781.4	781.4	781.4
0.5°	781.9	780.9	782.1	781.7	781.4	781.1	781.0	781.9	782.1	781.8	781.6
1°	782.0	781.9	783.5	781.5	781.0	781.7	780.6	781.0	783.0	782.1	782.7
1.5°	782.2	781.4	782.9	779.5	780.8	781.2	780.7	781.0	783.0	781.5	783.0
2°	782.7	781.2	781.9	780.2	780.6	781.1	780.8	781.0	783.0	781.8	782.3
2.5°	782.5	781.9	781.1	779.7	779.7	780.4	779.7	780.2	782.3	780.7	782.2
3°	781.5	780.2	780.9	779.0	779.0	779.9	779.2	779.5	782.7	781.5	781.4
3.5°	780.6	780.4	779.9	779.8	778.2	778.9	779.1	779.2	782.0	779.7	781.5
4°	780.3	780.0	779.8	778.8	777.8	779.1	778.2	779.0	781.6	780.4	780.7
4.5°	779.6	778.9	779.5	776.3	778.1	778.4	777.6	777.9	780.4	779.8	779.5
5°	779.3	778.5	777.6	776.3	777.1	776.8	776.5	777.6	780.1	779.6	779.0
5.5°	779.1	777.4	777.0	775.5	776.2	777.4	775.9	776.9	778.6	778.3	778.5
6°	776.9	777.2	776.2	775.6	775.9	776.1	774.3	776.4	777.5	777.9	778.0
6.5°	776.6	775.8	775.1	774.0	775.5	775.0	773.8	775.7	776.4	776.2	777.2
7°	775.8	775.2	774.2	773.1	772.8	773.6	773.0	774.7	775.8	776.3	775.6
7.5°	774.6	774.3	772.9	772.1	772.1	772.7	771.6	773.1	775.1	774.7	774.6
8°	772.4	772.6	771.6	770.9	771.4	771.3	770.8	772.5	773.9	773.3	774.4
8.5°	771.7	771.4	770.1	769.9	769.3	770.9	769.7	771.6	773.3	772.2	772.9
9°	771.1	769.5	768.3	768.3	768.2	768.8	768.0	769.2	772.3	771.0	772.3
9.5°	769.5	768.3	767.1	767.1	767.1	767.2	766.8	767.5	770.8	769.7	771.1
10°	769.5	767.0	767.3	766.0	765.7	765.1	765.8	766.3	768.7	768.5	769.2
10.5°	768.7	765.7	764.8	763.2	763.2	764.3	764.1	764.9	767.7	767.5	768.1
11°	766.9	764.7	763.7	762.2	762.0	762.6	762.9	763.3	765.7	765.7	766.7
11.5°	765.1	763.0	761.9	760.8	760.1	760.7	760.9	760.9	764.2	763.9	765.8
12°	763.6	761.4	759.8	760.0	758.5	758.6	759.0	759.9	762.8	763.0	764.1
12.5°	761.7	759.0	758.2	757.9	756.5	757.6	757.5	758.2	760.4	761.5	762.7
13°	759.5	757.4	756.5	754.1	755.1	756.1	755.4	756.5	758.6	760.8	761.7
13.5°	757.8	756.1	755.8	752.5	752.5	753.5	753.8	755.4	757.0	758.9	759.6
14°	756.0	754.6	753.5	750.6	750.9	752.3	751.6	752.8	755.4	755.2	757.5
14.5°	753.9	752.4	751.5	748.9	748.9	750.5	749.8	750.6	753.3	754.2	755.8
15°	751.6	750.3	749.6	747.5	747.4	748.6	748.2	748.5	751.1	751.9	754.1
15.5°	750.0	748.6	746.8	745.3	744.8	746.2	746.0	746.6	749.2	749.9	751.8
16°	748.1	746.1	744.3	743.3	742.6	743.5	743.1	744.4	746.8	747.8	749.0
16.5°	745.4	743.6	742.6	740.3	740.5	741.9	740.7	742.0	744.5	745.4	746.9
17°	743.6	741.8	740.3	737.9	738.4	739.5	738.6	739.9	741.8	743.1	745.0
17.5°	741.4	739.3	736.7	736.2	736.0	736.7	736.8	737.9	739.2	741.1	742.6
18°	739.0	736.4	734.9	733.5	733.0	734.0	734.1	735.2	737.6	739.1	740.6
18.5°	735.4	733.5	733.0	730.8	730.2	731.6	731.1	731.9	735.3	736.5	738.1
19°	732.2	731.4	730.3	728.2	727.9	728.9	728.9	729.4	733.2	734.1	736.5
19.5°	730.8	728.7	727.5	724.9	725.0	726.5	726.0	728.2	730.5	731.9	734.0
20°	729.0	726.0	725.0	722.1	722.4	723.8	723.3	725.8	727.5	728.9	731.6
20.5°	726.2	723.3	721.7	719.9	719.5	720.5	721.0	723.3	725.0	726.1	728.9
21°	724.3	721.4	719.5	717.6	716.6	717.7	718.4	720.0	722.1	723.9	725.9



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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°	716.4	712.2	710.7	708.1	708.0	709.4	709.7	711.0	714.2	715.1	717.4
23°	712.7	708.7	707.4	705.0	705.3	706.5	706.5	708.4	711.0	712.1	714.2
23.5°	708.6	705.8	704.3	701.2	702.7	703.0	703.8	705.3	707.6	709.2	711.3
24°	705.5	702.8	701.3	698.3	699.0	699.2	700.6	701.9	705.1	705.5	708.1
24.5°	702.5	699.5	697.5	695.4	695.1	695.9	697.3	698.8	701.1	702.2	705.0
25°	699.2	696.4	693.9	692.2	692.0	692.9	693.9	695.4	698.6	699.7	702.0
25.5°	696.0	693.4	691.6	688.9	689.2	689.8	690.8	692.6	694.4	696.6	698.5
26°	692.8	690.6	688.2	685.5	685.5	686.7	687.6	689.8	691.7	693.2	695.3
26.5°	690.2	687.0	684.2	682.6	681.9	682.9	684.1	686.0	688.0	689.9	692.2
27°	686.6	683.6	680.9	679.2	678.6	679.9	680.8	683.0	684.5	686.5	688.9
27.5°	682.6	680.2	677.5	675.4	675.4	676.7	677.2	679.2	681.6	683.8	686.0
28°	678.7	676.7	674.4	671.9	671.3	672.9	673.7	675.9	677.6	679.6	682.4
28.5°	675.3	673.1	671.2	667.8	667.0	669.1	670.0	672.0	673.9	676.6	678.7
29°	672.1	669.2	666.9	664.2	663.0	665.2	666.3	668.8	670.6	673.1	674.9
29.5°	668.3	665.1	663.0	660.9	660.1	661.5	662.6	664.5	666.5	668.8	671.5
30°	664.7	661.2	659.1	656.9	656.8	658.1	658.5	660.6	663.8	665.2	667.8
30.5°	661.0	657.3	655.1	652.9	652.6	654.1	654.7	657.2	660.0	661.5	664.0
31°	657.1	653.7	650.7	648.8	648.6	650.1	650.5	653.7	655.7	657.7	660.7
31.5°	653.3	649.8	646.6	644.9	644.5	646.1	646.8	649.5	652.1	653.7	656.6
32°	649.1	645.8	642.3	641.1	640.5	642.5	643.2	645.6	648.2	649.6	652.5
32.5°	645.1	641.6	638.2	636.9	637.0	638.8	639.3	641.9	644.3	645.5	648.5
33°	641.0	637.3	634.2	632.9	632.5	634.5	634.8	637.5	639.9	641.9	644.5
33.5°	636.9	632.9	630.0	629.1	628.0	629.8	630.2	633.1	636.0	638.3	640.2
34°	632.6	628.8	626.3	625.0	623.8	625.6	626.2	629.1	631.6	633.5	636.7
34.5°	628.2	624.6	622.1	620.4	620.3	621.6	622.2	625.0	627.1	628.7	632.2
35°	624.0	620.3	617.9	615.8	615.3	617.0	618.1	620.9	623.2	624.8	627.8
35.5°	620.1	615.8	613.7	611.4	611.4	612.3	614.1	616.5	619.5	621.0	623.5
36°	615.6	611.5	609.1	606.9	607.2	607.8	609.3	611.5	614.9	617.2	619.3
36.5°	611.2	606.9	604.7	602.2	602.4	603.6	604.9	607.0	610.8	612.4	615.3
37°	606.5	602.7	599.7	597.5	597.9	598.8	600.2	602.4	605.9	607.9	610.6
37.5°	601.2	597.8	594.9	593.2	593.6	594.6	595.6	597.8	601.3	603.8	606.3
38°	596.6	592.9	590.2	588.6	588.8	589.7	591.1	593.4	597.1	598.9	601.6
38.5°	592.2	588.5	585.5	583.8	584.1	585.3	586.3	588.7	592.4	594.4	596.9
39°	587.6	584.0	580.9	578.8	579.4	580.9	581.4	584.3	587.7	589.7	592.6
39.5°	582.8	579.1	576.4	573.8	574.8	575.8	576.9	579.4	582.8	584.6	588.1
40°	578.1	574.3	571.4	568.8	569.8	570.6	572.2	574.9	578.0	580.3	583.5
40.5°	573.1	569.5	566.4	564.2	565.0	566.3	567.2	569.6	573.0	575.5	578.6
41°	568.0	564.6	561.4	559.7	560.0	561.0	562.4	565.0	568.3	570.8	573.5
41.5°	563.1	559.6	556.5	555.0	555.1	556.0	557.5	560.2	564.0	566.2	568.6
42°	558.2	554.6	551.7	549.6	549.7	551.0	552.7	555.1	558.9	560.4	563.6
42.5°	553.5	549.3	546.8	544.3	545.0	546.0	547.5	550.0	553.7	555.9	558.8
43°	548.3	544.1	541.8	539.4	539.6	540.9	542.2	544.9	548.6	551.1	554.1
43.5°	543.1	538.6	536.6	533.8	534.0	535.8	537.3	539.6	543.5	546.2	549.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	527.6	523.5	520.7	517.9	518.6	519.9	521.5	524.3	527.5	530.2	533.7
45.5°	522.5	518.1	515.7	512.6	513.2	514.9	516.2	519.1	522.4	524.7	528.1
46°	517.3	512.9	510.4	507.4	507.7	509.2	510.7	513.7	517.1	519.6	523.0
46.5°	511.8	507.7	504.8	502.0	502.6	503.9	505.4	508.2	511.6	514.6	517.7
47°	506.3	502.6	499.3	496.4	497.0	498.5	499.8	502.7	506.3	508.6	512.1
47.5°	500.9	497.5	493.5	490.7	491.9	493.0	494.5	497.3	500.5	503.3	506.9
48°	495.4	492.1	488.1	485.2	486.8	487.7	488.8	491.7	495.2	498.6	501.5
48.5°	489.7	486.5	482.8	479.8	481.2	481.9	483.5	486.4	489.8	492.9	496.2
49°	484.3	481.2	477.2	474.1	475.0	476.2	477.6	480.7	484.3	487.2	490.6
49.5°	478.8	475.5	471.4	468.4	469.2	470.6	472.3	475.1	478.6	481.8	485.4
50°	472.8	469.8	465.6	462.4	463.2	464.9	466.5	469.4	473.2	476.3	479.4
50.5°	467.1	464.0	459.9	456.8	457.8	459.0	460.6	463.6	467.4	470.5	474.1
51°	461.5	458.1	454.1	450.9	452.1	453.5	454.7	457.7	461.4	464.7	468.2
51.5°	455.9	452.0	448.3	445.0	446.7	447.5	449.1	452.2	455.8	459.2	462.4
52°	450.2	445.8	442.2	439.3	441.0	441.8	443.4	446.2	449.7	453.2	456.6
52.5°	443.9	440.0	436.3	433.2	435.0	435.6	437.5	440.3	444.2	447.3	450.9
53°	438.2	434.1	430.4	427.3	428.9	429.8	431.4	434.1	438.1	441.3	445.2
53.5°	432.5	428.2	424.2	421.3	422.7	423.7	425.3	428.3	432.1	435.1	439.2
54°	426.4	422.1	418.3	415.0	416.9	417.9	419.0	422.1	426.2	429.0	433.2
54.5°	420.6	416.3	412.5	408.9	410.8	412.0	413.6	416.2	420.2	423.7	426.9
55°	414.3	410.2	406.2	402.7	404.8	405.9	407.4	410.3	414.3	417.6	421.3
55.5°	408.2	404.0	399.9	396.5	398.4	399.5	401.1	404.1	408.3	411.8	415.5
56°	401.9	397.7	393.6	390.3	392.5	393.3	395.1	397.9	402.4	405.5	409.1
56.5°	395.9	391.5	387.5	384.5	386.0	387.4	388.9	392.0	395.9	399.4	402.6
57°	389.8	385.2	381.1	378.6	380.1	380.9	382.6	385.9	389.6	393.0	396.7
57.5°	383.3	379.1	375.1	372.6	373.8	374.8	376.4	379.6	383.2	387.5	390.7
58°	377.0	372.8	368.8	366.2	367.6	368.7	370.2	373.4	377.0	380.9	384.4
58.5°	370.9	366.4	362.4	359.7	361.2	362.4	363.9	367.1	370.9	374.6	378.2
59°	364.6	359.9	356.1	353.3	354.9	356.0	357.7	361.2	364.6	368.2	372.0
59.5°	358.4	353.6	349.9	346.8	348.7	349.8	351.6	354.8	358.3	362.0	365.7
60°	352.3	347.2	343.7	340.1	342.4	343.8	345.5	348.7	352.1	355.8	359.4
60.5°	345.7	340.6	337.5	333.8	336.1	337.4	339.2	342.2	345.9	349.5	353.4
61°	339.2	334.2	331.1	327.3	329.8	331.3	332.8	335.8	339.5	343.4	347.2
61.5°	332.9	328.1	324.7	321.3	323.2	324.8	326.4	329.6	333.5	337.1	340.8
62°	326.3	321.9	318.1	315.0	317.1	318.4	320.2	323.4	327.2	330.3	334.2
62.5°	319.9	315.6	311.7	308.5	310.3	312.1	313.7	316.7	320.6	324.1	328.1
63°	313.5	308.9	305.4	301.9	304.0	305.5	307.1	310.4	314.1	318.1	321.7
63.5°	307.0	302.4	298.5	295.3	297.6	298.9	300.6	304.1	307.6	311.3	315.4
64°	300.6	296.0	292.1	288.8	291.2	292.5	294.1	297.5	301.1	305.0	308.6
64.5°	294.0	289.5	285.7	282.6	284.5	286.0	287.5	291.0	294.8	298.1	302.3
65°	287.8	283.2	279.1	276.1	278.3	279.5	281.1	284.6	288.1	291.9	295.6
65.5°	281.2	276.3	272.4	269.4	271.7	272.9	274.7	278.1	281.8	285.5	289.0
66°	274.6	269.6	265.9	262.7	265.1	266.3	268.0	271.6	275.2	279.0	282.5





TEST NUMBER: P579675

CATALOG NUMBER: SMD14R209SWHE-EM - 3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	254.9	250.3	246.1	242.7	245.6	246.8	248.6	251.9	255.5	259.1	262.8
68°	248.0	243.5	239.4	236.3	239.0	240.4	242.0	245.2	248.9	252.5	256.4
68.5°	241.4	237.1	232.8	229.7	232.3	233.9	235.5	238.7	242.6	246.2	249.7
69°	235.1	230.4	226.4	223.3	225.7	227.1	228.9	232.2	235.9	239.4	243.0
69.5°	228.7	224.1	219.7	216.7	219.6	220.5	222.6	225.5	229.3	232.9	236.5
70°	222.2	217.7	213.5	210.2	212.9	214.3	216.0	219.2	222.9	226.2	229.9
70.5°	216.0	211.1	206.9	203.4	206.5	207.6	209.5	212.9	216.5	220.0	223.3
71°	209.5	204.4	200.4	197.0	200.1	201.2	203.2	206.6	210.3	213.4	216.8
71.5°	203.1	197.8	193.6	190.5	193.6	194.6	196.4	199.8	203.4	206.7	210.1
72°	196.6	191.6	187.5	184.3	186.9	188.1	190.0	193.5	196.7	200.3	203.8
72.5°	189.9	185.2	180.8	177.8	180.5	181.7	183.7	187.0	190.2	193.8	197.3
73°	183.5	178.6	174.4	171.5	174.0	175.2	177.0	180.5	183.8	187.7	190.8
73.5°	177.0	172.2	168.1	165.2	167.7	168.8	170.7	174.0	177.4	180.9	184.3
74°	170.6	165.9	161.7	158.7	161.3	162.6	164.2	167.7	171.1	174.5	177.8
74.5°	164.1	159.4	155.3	152.4	155.3	156.2	157.9	161.3	164.7	167.9	171.2
75°	157.8	153.3	149.1	146.2	148.8	149.6	151.8	155.0	158.4	161.6	164.9
75.5°	151.6	146.9	142.9	140.0	142.5	143.7	145.4	148.6	152.1	155.3	158.5
76°	145.3	140.6	136.6	133.7	136.3	137.4	139.4	142.5	145.8	149.0	152.4
76.5°	139.1	134.5	130.3	127.6	130.1	131.2	133.1	136.1	139.5	142.6	146.0
77°	132.8	128.5	124.3	121.6	123.9	125.3	127.0	130.0	133.4	136.6	140.0
77.5°	126.8	122.4	118.3	115.5	118.0	119.2	121.1	123.9	127.3	130.2	133.6
78°	120.9	116.4	112.4	109.6	112.2	113.2	115.0	117.9	121.2	124.2	127.7
78.5°	114.8	110.4	106.4	103.6	106.4	107.2	108.9	112.2	115.1	118.3	121.4
79°	109.0	104.7	100.7	97.8	100.3	101.4	103.0	106.2	109.1	112.4	115.5
79.5°	103.1	98.8	95.0	92.2	94.6	95.6	97.1	100.2	103.3	106.2	109.3
80°	97.3	92.9	89.2	86.6	88.6	89.8	91.4	94.5	97.4	100.4	103.4
80.5°	91.6	87.4	83.6	80.9	83.2	84.0	86.0	88.6	91.6	94.6	97.7
81°	86.1	81.8	77.9	75.3	77.6	78.5	80.2	83.2	86.1	88.8	91.9
81.5°	80.3	76.2	72.5	69.8	72.1	73.3	74.8	77.4	80.5	83.3	86.2
82°	74.7	70.6	67.0	64.4	66.4	67.5	69.0	71.8	74.6	77.6	80.5
82.5°	69.1	65.1	61.6	59.0	61.2	61.9	63.7	66.2	69.1	72.1	74.9
83°	63.5	59.8	56.2	53.8	56.0	56.8	58.3	60.8	63.8	66.7	69.7
83.5°	58.1	54.4	50.8	48.5	50.9	51.2	53.4	55.7	58.4	61.4	64.3
84°	53.0	49.3	45.7	43.4	45.6	46.5	48.0	50.5	53.2	56.0	58.8
84.5°	47.8	44.2	40.7	38.5	40.6	41.6	42.9	45.4	48.0	51.1	53.8
85°	42.6	39.2	35.8	33.5	35.9	36.4	37.9	40.4	43.0	45.8	48.5
85.5°	37.6	34.2	31.0	28.8	30.9	31.7	33.0	35.4	38.0	40.9	43.4
86°	32.7	29.3	26.3	24.1	26.2	26.7	28.2	30.5	33.1	35.9	38.5
86.5°	27.9	24.7	21.9	19.7	21.6	22.2	23.6	25.9	28.4	31.1	33.7
87°	23.4	20.4	17.6	15.4	17.2	17.9	19.3	21.3	23.6	26.3	28.8
87.5°	19.0	16.1	13.6	11.4	13.1	13.7	15.0	17.0	19.3	21.8	24.1
88°	14.8	12.1	9.7	8.0	9.0	9.7	10.9	12.7	15.1	17.6	19.8
88.5°	10.7	8.4	6.2	4.6	6.0	6.5	7.5	9.1	11.1	13.4	15.6



TEST NUMBER: P579675

CATALOG NUMBER: SMD14R209SWHE-EM - 3000K

**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	1.5	3.2	4.9
90.5°	0.4	0.3	0.3	0.3	0.0	0.0	0.1	0.1	0.1	0.7	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	0.5	0.4	0.3	0.3	0.3	0.3
104°	0.3	0.0	0.3	0.3	0.5	0.5	0.5	0.3	0.4	0.3	0.4
104.5°	0.3	0.1	0.3	0.5	0.5	0.4	0.5	0.5	0.3	0.4	0.4
105°	0.3	0.3	0.5	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	0.5
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°	0.5	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	0.7	0.5	0.5	0.5	0.5
108°	0.4	0.5	0.6	0.7	0.6	0.6	0.7	0.6	0.5	0.5	0.5
108.5°	0.7	0.7	0.6	0.7	0.6	0.6	0.7	0.7	0.5	0.5	0.6
109°	0.6	0.7	0.6	0.7	0.6	0.6	0.7	0.7	0.5	0.5	0.6
109.5°	0.7	0.7	0.6	0.7	0.7	0.6	0.8	0.7	0.6	0.6	0.6
110°	0.7	0.7	0.6	0.7	0.7	0.7	0.8	0.7	0.5	0.6	0.6
110.5°	0.8	0.7	0.6	0.7	0.7	0.7	0.8	0.7	0.6	0.6	0.6
111°	0.8	0.7	0.6	0.7	0.7	0.7	0.8	0.7	0.6	0.7	0.6



TEST NUMBER: P579675

CATALOG NUMBER: SMD14R209SWHE-EM - 3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.7	0.7	0.6	0.7	0.8	0.7	1.0	0.8	0.7	0.8	0.8
113°	0.7	0.7	0.6	0.7	0.8	0.8	1.0	0.8	0.7	0.8	0.8
113.5°	0.7	0.7	0.6	0.7	0.9	0.8	1.0	0.8	0.7	0.8	0.8
114°	0.7	0.7	0.6	0.7	0.9	0.8	1.0	0.9	0.8	0.8	0.8
114.5°	0.7	0.7	0.7	0.7	0.9	0.8	1.0	0.8	0.8	0.8	0.8
115°	0.7	0.7	0.6	0.7	1.0	0.8	1.0	1.0	0.8	0.8	1.0
115.5°	0.7	0.7	0.7	0.7	1.0	1.0	1.2	1.0	0.8	0.9	1.0
116°	0.7	0.7	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	1.4	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	1.4	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	1.6	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	1.6	1.4	1.4	1.6	1.6	1.4	1.4	1.3
129°	1.5	1.6	1.6	1.6	1.5	1.4	1.8	1.6	1.4	1.4	1.3
129.5°	1.5	1.4	1.6	1.6	1.5	1.4	1.8	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	1.6	1.5	1.4	1.7	1.6	1.5	1.4	1.4
131°	1.6	1.8	1.6	1.6	1.6	1.4	1.7	1.6	1.5	1.5	1.4
131.5°	1.5	1.8	1.6	1.7	1.6	1.4	1.8	1.7	1.5	1.5	1.4
132°	1.6	1.8	1.6	1.7	1.7	1.4	1.8	1.7	1.5	1.6	1.4
132.5°	1.6	1.8	1.7	1.6	1.6	1.5	1.8	1.8	1.6	1.6	1.4
133°	1.7	1.8	1.7	1.6	1.7	1.5	1.8	1.7	1.6	1.6	1.4
133.5°	1.6	1.8	1.7	1.6	1.7	1.5	1.8	1.7	1.6	1.6	1.4



TEST NUMBER: P579675

CATALOG NUMBER: SMD14R209SWHE-EM - 3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.6	1.8	1.9	1.6	1.7	1.6	1.9	1.8	1.7	1.7	1.4
135.5°	1.6	1.8	1.9	1.6	1.7	1.5	1.9	1.8	1.6	1.7	1.4
136°	1.6	1.8	1.9	1.6	1.8	1.5	2.0	1.8	1.6	1.7	1.4
136.5°	1.6	1.8	1.8	1.6	1.8	1.6	2.0	1.8	1.8	1.8	1.4
137°	1.6	1.8	2.0	1.6	1.8	1.6	2.0	1.8	1.8	1.7	1.4
137.5°	1.7	1.8	2.0	1.6	1.8	1.6	2.0	1.9	1.8	1.8	1.5
138°	1.6	1.8	2.0	1.6	1.8	1.6	2.0	1.8	1.8	1.8	1.6
138.5°	1.6	1.8	2.0	1.6	1.8	1.6	2.0	1.8	1.8	1.8	1.6
139°	1.8	1.9	2.0	1.8	1.8	1.6	2.0	1.9	1.8	1.8	1.6
139.5°	1.8	1.9	2.1	1.8	1.8	1.6	2.0	1.9	1.8	1.8	1.6
140°	1.8	1.8	2.1	1.9	1.8	1.7	2.1	1.9	1.8	1.8	1.6
140.5°	1.8	1.9	2.0	1.9	1.8	1.7	2.1	1.9	1.8	1.8	1.6
141°	1.8	1.9	2.0	1.9	1.8	1.7	2.1	1.9	1.8	1.8	1.6
141.5°	1.9	2.0	2.0	1.9	1.8	1.8	2.1	2.0	1.8	1.9	1.6
142°	1.9	2.0	2.0	1.9	1.8	1.7	2.1	2.0	1.9	1.9	1.7
142.5°	1.9	2.1	2.1	2.0	1.8	1.8	2.1	2.0	1.9	2.0	1.6
143°	2.0	2.1	2.1	2.1	1.8	1.7	2.1	2.0	1.9	2.0	1.6
143.5°	2.0	2.1	2.1	2.1	1.8	1.7	2.1	2.1	2.0	2.0	1.8
144°	2.0	2.1	2.1	2.1	1.9	1.8	2.1	2.1	2.0	2.0	1.8
144.5°	2.0	2.2	2.1	2.3	1.9	1.8	2.1	2.1	2.0	2.0	1.8
145°	2.1	2.3	2.1	2.5	1.9	1.8	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	2.7	2.2	2.6	1.9	1.8	2.1	2.2	2.1	2.0	1.8
146.5°	2.4	2.7	2.3	2.6	2.0	1.8	2.1	2.3	2.1	2.0	1.8
147°	2.5	2.8	2.3	2.6	2.2	1.9	2.1	2.2	2.2	2.0	1.9
147.5°	2.5	2.8	2.4	2.6	2.2	2.0	2.1	2.2	2.2	2.0	1.9
148°	2.6	2.7	2.5	2.6	2.3	2.0	2.1	2.3	2.2	2.0	1.9
148.5°	2.6	2.7	2.6	2.6	2.4	2.0	2.1	2.4	2.3	2.0	1.9
149°	2.6	2.7	2.7	2.6	2.5	2.0	2.1	2.4	2.3	2.0	2.0
149.5°	2.6	2.7	2.7	2.6	2.5	2.1	2.3	2.4	2.4	2.0	2.0
150°	2.6	2.7	2.7	2.7	2.6	2.1	2.3	2.4	2.4	2.0	2.0
150.5°	2.7	2.7	2.9	2.7	2.6	2.2	2.2	2.5	2.3	2.0	2.1
151°	2.6	2.7	2.9	2.7	2.6	2.2	2.2	2.5	2.4	2.0	2.1
151.5°	2.6	2.7	2.8	2.7	2.7	2.3	2.3	2.5	2.3	2.1	2.1
152°	2.6	2.7	2.8	2.7	2.7	2.3	2.4	2.5	2.4	2.1	2.2
152.5°	2.6	2.7	2.8	2.7	2.7	2.5	2.4	2.6	2.5	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°	2.7	2.7	2.8	2.7	2.8	2.7	2.4	2.5	2.5	2.3	2.3
154°	2.6	2.7	2.8	2.9	2.9	2.7	2.5	2.5	2.5	2.3	2.3
154.5°	2.6	2.7	2.8	2.9	2.9	2.9	2.5	2.5	2.6	2.3	2.3
155°	2.7	2.7	2.8	2.9	2.9	2.9	2.6	2.5	2.6	2.3	2.3
155.5°	2.7	2.7	2.9	2.9	2.9	3.1	2.7	2.5	2.6	2.4	2.5
156°	2.7	2.7	2.8	3.0	3.3	3.1	2.7	2.6	2.6	2.4	2.5



TEST NUMBER: P579675

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



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6



TEST NUMBER: P579675

CATALOG NUMBER: SMD14R209SWHE-EM - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	781.4	781.4	781.4	781.4	781.4	781.4
0.5°	780.9	781.7	781.5	780.5	781.0	781.9
1°	780.8	781.4	781.2	781.4	781.5	782.0
1.5°	780.8	781.2	781.2	781.2	781.9	782.2
2°	780.8	781.0	781.0	781.2	781.3	782.7
2.5°	781.3	781.1	782.0	781.2	781.0	782.5
3°	780.4	780.4	782.5	780.6	781.2	781.5
3.5°	780.1	780.4	781.7	780.5	781.4	780.6
4°	780.1	780.1	780.5	780.9	780.3	780.3
4.5°	779.8	779.7	780.6	779.6	779.4	779.6
5°	778.8	779.0	780.2	779.0	778.9	779.3
5.5°	778.4	778.4	778.9	777.8	778.4	779.1
6°	777.0	777.7	778.5	777.2	777.2	776.9
6.5°	777.6	777.4	778.1	776.8	776.5	776.6
7°	776.3	776.0	777.4	776.2	775.5	775.8
7.5°	776.1	775.1	776.1	775.2	774.0	774.6
8°	774.5	774.5	774.4	773.4	773.5	772.4
8.5°	772.7	773.7	773.3	772.5	772.3	771.7
9°	771.9	772.1	771.9	771.8	771.0	771.1
9.5°	771.3	770.9	770.7	769.8	769.5	769.5
10°	769.1	769.3	769.6	768.8	768.1	769.5
10.5°	767.8	768.4	768.5	767.9	767.3	768.7
11°	766.7	766.5	766.8	765.5	766.4	766.9
11.5°	765.4	765.2	765.4	764.2	764.9	765.1
12°	764.0	763.4	765.0	763.9	762.9	763.6
12.5°	762.2	761.5	764.0	762.1	761.2	761.7
13°	760.1	760.0	761.5	760.6	759.2	759.5
13.5°	758.8	757.9	758.5	758.9	757.9	757.8
14°	757.2	756.2	756.8	756.9	756.3	756.0
14.5°	755.1	754.7	755.3	754.6	753.9	753.9
15°	753.2	752.8	753.6	752.2	751.4	751.6
15.5°	751.6	750.4	751.7	750.3	748.8	750.0
16°	749.8	748.4	749.8	747.8	747.7	748.1
16.5°	747.9	746.5	747.7	745.3	745.9	745.4
17°	745.8	745.0	745.3	743.3	742.9	743.6
17.5°	743.0	743.0	743.3	741.8	740.5	741.4
18°	741.3	740.6	741.3	739.2	738.5	739.0
18.5°	738.9	738.8	739.1	736.8	736.4	735.4
19°	736.3	737.1	736.7	734.5	733.8	732.2
19.5°	733.8	734.4	734.7	732.4	731.5	730.8
20°	731.2	731.2	732.5	730.0	729.0	729.0
20.5°	728.5	727.8	729.2	727.3	726.2	726.2
21°	725.4	725.9	726.7	724.4	723.4	724.3



TEST NUMBER: P579675

CATALOG NUMBER: SMD14R209SWHE-EM - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	718.2	717.1	718.7	715.7	715.3	716.4
23°	715.3	714.2	715.8	712.8	713.1	712.7
23.5°	712.1	711.2	711.6	709.5	710.1	708.6
24°	709.5	707.9	708.3	706.4	706.5	705.5
24.5°	706.2	705.3	705.7	703.5	703.3	702.5
25°	703.1	702.0	702.6	700.6	699.9	699.2
25.5°	699.9	698.9	699.5	696.9	696.9	696.0
26°	696.9	695.8	696.2	694.0	693.6	692.8
26.5°	693.0	692.5	693.6	691.0	690.6	690.2
27°	690.2	689.1	690.6	687.6	687.3	686.6
27.5°	686.7	685.9	687.3	684.1	683.5	682.6
28°	683.4	682.6	682.6	680.5	679.6	678.7
28.5°	679.9	679.1	679.2	678.1	676.3	675.3
29°	676.1	675.6	675.2	674.2	672.8	672.1
29.5°	672.5	671.9	671.1	670.5	668.9	668.3
30°	668.6	668.3	667.6	666.7	665.2	664.7
30.5°	665.0	664.4	664.3	663.1	661.7	661.0
31°	661.3	660.4	660.3	659.6	657.7	657.1
31.5°	657.9	656.6	657.0	655.4	653.8	653.3
32°	653.1	652.7	653.3	651.4	650.4	649.1
32.5°	649.2	648.8	649.3	647.0	646.3	645.1
33°	645.7	644.6	645.1	643.4	642.4	641.0
33.5°	642.0	640.6	640.9	639.6	637.9	636.9
34°	637.3	636.7	636.7	635.5	634.0	632.6
34.5°	633.7	632.4	633.0	631.3	629.7	628.2
35°	629.5	628.1	628.8	626.8	625.7	624.0
35.5°	625.4	623.9	624.1	622.4	621.3	620.1
36°	620.8	619.7	619.9	617.6	616.7	615.6
36.5°	617.0	615.3	615.5	613.3	612.1	611.2
37°	612.7	610.7	611.2	609.1	607.6	606.5
37.5°	608.1	606.4	606.9	604.8	603.4	601.2
38°	603.3	601.7	602.1	599.9	598.7	596.6
38.5°	598.9	597.2	597.4	595.5	594.3	592.2
39°	594.1	592.4	592.5	590.7	589.9	587.6
39.5°	589.6	587.6	587.9	586.1	584.7	582.8
40°	584.9	582.9	583.4	581.5	579.7	578.1
40.5°	580.2	578.3	578.5	576.8	574.7	573.1
41°	575.5	573.6	573.4	572.0	570.2	568.0
41.5°	570.7	568.9	568.6	567.0	565.4	563.1
42°	565.6	564.2	563.8	562.0	560.4	558.2
42.5°	560.6	559.2	559.0	557.2	555.6	553.5
43°	555.4	554.3	554.3	552.4	550.8	548.3
43.5°	550.3	549.2	549.4	547.2	545.7	543.1





TEST NUMBER: P579675

CATALOG NUMBER: SMD14R209SWHE-EM - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	535.2	533.5	533.6	531.8	529.6	527.6
45.5°	530.5	528.3	528.6	526.7	524.5	522.5
46°	525.0	523.0	523.1	521.6	519.4	517.3
46.5°	519.6	517.8	517.9	516.5	514.0	511.8
47°	514.8	512.4	512.5	510.7	508.5	506.3
47.5°	508.9	507.0	507.0	504.9	503.2	500.9
48°	503.1	501.6	501.7	499.8	497.6	495.4
48.5°	497.9	496.1	496.2	494.3	492.1	489.7
49°	492.7	490.7	490.6	489.0	486.6	484.3
49.5°	486.6	485.4	485.4	483.7	481.3	478.8
50°	481.3	479.8	479.7	477.9	475.3	472.8
50.5°	475.2	474.1	474.0	472.4	469.8	467.1
51°	469.4	468.0	468.3	466.9	464.1	461.5
51.5°	464.0	462.6	462.6	461.3	458.1	455.9
52°	458.2	456.8	457.0	455.5	452.5	450.2
52.5°	452.4	450.9	451.0	449.4	446.4	443.9
53°	446.7	445.3	445.2	443.5	440.7	438.2
53.5°	440.6	439.3	439.2	437.5	434.8	432.5
54°	434.6	433.2	433.2	431.5	428.8	426.4
54.5°	429.2	427.2	427.3	425.5	422.8	420.6
55°	423.1	421.5	421.4	419.7	416.7	414.3
55.5°	417.4	415.6	415.1	413.5	410.5	408.2
56°	410.9	409.4	408.7	407.5	404.5	401.9
56.5°	404.9	403.3	402.5	401.3	398.4	395.9
57°	398.9	397.1	396.5	395.1	392.2	389.8
57.5°	392.9	390.9	390.3	388.9	386.2	383.3
58°	386.7	384.6	384.1	382.7	379.9	377.0
58.5°	380.3	378.5	377.8	376.4	373.8	370.9
59°	374.1	372.1	371.7	370.2	367.4	364.6
59.5°	367.9	366.0	365.3	363.8	360.9	358.4
60°	361.6	359.6	359.1	357.4	354.6	352.3
60.5°	355.5	353.1	352.9	351.2	348.4	345.7
61°	349.2	346.7	346.7	345.0	341.8	339.2
61.5°	343.2	340.4	340.3	338.8	335.9	332.9
62°	336.8	334.1	334.0	332.0	329.5	326.3
62.5°	330.2	327.8	327.5	325.5	322.9	319.9
63°	324.1	321.3	320.9	319.0	316.5	313.5
63.5°	317.7	315.0	314.4	313.0	310.1	307.0
64°	311.2	308.4	308.0	306.5	303.9	300.6
64.5°	304.5	302.0	301.7	299.9	297.3	294.0
65°	298.2	295.6	295.3	293.4	290.8	287.8
65.5°	291.6	289.0	288.7	287.2	284.2	281.2
66°	285.2	282.6	282.3	280.6	277.8	274.6



TEST NUMBER: P579675

CATALOG NUMBER: SMD14R209SWHE-EM - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	265.7	262.9	262.6	261.1	258.3	254.9
68°	258.5	256.3	256.0	254.9	251.8	248.0
68.5°	252.4	249.8	249.5	248.2	245.2	241.4
69°	245.5	243.1	243.1	241.7	239.0	235.1
69.5°	238.9	236.5	236.5	234.7	232.1	228.7
70°	232.3	229.9	229.7	228.1	225.6	222.2
70.5°	225.9	223.3	223.4	221.7	219.2	216.0
71°	219.6	216.9	216.7	215.3	212.6	209.5
71.5°	213.0	210.4	210.3	208.9	206.2	203.1
72°	206.5	203.7	203.6	202.3	199.7	196.6
72.5°	200.1	197.4	197.2	195.9	192.8	189.9
73°	193.7	190.8	190.7	189.4	186.7	183.5
73.5°	187.2	184.4	184.5	183.2	180.4	177.0
74°	180.7	178.1	178.0	176.5	174.0	170.6
74.5°	174.2	171.7	171.6	170.3	167.6	164.1
75°	167.7	165.1	165.1	164.0	161.3	157.8
75.5°	161.2	158.8	158.9	157.6	155.0	151.6
76°	155.1	152.5	152.6	151.3	148.8	145.3
76.5°	148.8	146.3	146.3	145.4	142.6	139.1
77°	142.7	139.9	140.2	139.1	136.4	132.8
77.5°	136.5	133.9	134.0	132.9	130.1	126.8
78°	130.2	127.8	127.9	126.5	124.1	120.9
78.5°	123.9	121.8	121.8	120.9	118.0	114.8
79°	118.1	115.8	115.7	114.7	112.2	109.0
79.5°	111.9	109.7	109.8	108.7	106.2	103.1
80°	106.0	103.8	103.9	102.6	100.4	97.3
80.5°	100.3	97.9	98.1	96.9	94.7	91.6
81°	94.4	92.0	92.3	91.4	89.1	86.1
81.5°	88.7	86.5	86.8	85.8	83.4	80.3
82°	83.0	81.0	81.1	80.2	77.8	74.7
82.5°	77.4	75.4	75.5	74.5	72.2	69.1
83°	71.8	69.8	69.8	68.9	66.7	63.5
83.5°	66.1	64.3	64.3	63.3	61.1	58.1
84°	60.9	58.9	59.0	58.1	55.9	53.0
84.5°	55.8	53.7	53.8	52.7	50.7	47.8
85°	50.6	48.3	48.6	47.5	45.5	42.6
85.5°	45.4	43.2	43.4	42.3	40.3	37.6
86°	40.4	38.1	38.3	37.5	35.3	32.7
86.5°	35.5	33.2	33.2	32.4	30.4	27.9
87°	30.7	28.5	28.4	27.6	25.7	23.4
87.5°	25.9	23.9	23.9	23.0	21.3	19.0
88°	21.5	19.5	19.6	18.7	16.8	14.8
88.5°	17.1	15.2	15.3	14.4	12.8	10.7



TEST NUMBER: P579675

CATALOG NUMBER: SMD14R209SWHE-EM - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	5.9	4.3	4.3	3.7	2.0	0.8
90.5°	2.9	1.4	1.4	1.1	0.5	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	0.7	0.5	0.5
107.5°	0.6	0.5	0.6	0.7	0.7	0.5
108°	0.6	0.5	0.6	0.7	0.7	0.4
108.5°	0.6	0.5	0.6	0.8	0.7	0.7
109°	0.6	0.5	0.7	0.8	0.7	0.6
109.5°	0.7	0.7	0.7	0.7	0.7	0.7
110°	0.7	0.7	0.7	0.7	0.7	0.7
110.5°	0.7	0.7	0.7	0.7	0.7	0.8
111°	0.7	0.7	0.7	0.7	0.7	0.8



TEST NUMBER: P579675

CATALOG NUMBER: SMD14R209SWHE-EM - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.8	0.7	0.7	0.7	0.7	0.7
113°	0.8	0.7	0.7	0.7	0.7	0.7
113.5°	0.8	0.7	0.7	0.7	0.7	0.7
114°	0.8	0.7	0.7	0.7	0.7	0.7
114.5°	0.9	0.7	0.7	0.7	0.7	0.7
115°	1.0	0.7	0.7	0.7	0.7	0.7
115.5°	0.9	0.7	0.8	0.7	0.7	0.7
116°	0.9	0.7	0.8	0.7	0.7	0.7
116.5°	1.0	0.7	0.8	0.7	0.7	0.7
117°	1.0	0.7	0.8	0.7	0.7	0.7
117.5°	1.1	0.8	0.8	0.7	0.7	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	0.9	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	1.4	0.9	1.3	1.2	1.0
127.5°	1.4	1.4	1.0	1.3	1.2	1.0
128°	1.6	1.4	1.0	1.4	1.3	1.0
128.5°	1.5	1.5	1.0	1.6	1.3	1.4
129°	1.5	1.6	1.0	1.6	1.4	1.5
129.5°	1.6	1.7	1.0	1.6	1.5	1.5
130°	1.6	1.7	1.2	1.6	1.4	1.5
130.5°	1.6	1.7	1.2	1.6	1.5	1.4
131°	1.7	1.7	1.2	1.6	1.6	1.6
131.5°	1.6	1.7	1.2	1.6	1.6	1.5
132°	1.7	1.7	1.5	1.6	1.6	1.6
132.5°	1.7	1.7	1.4	1.6	1.6	1.6
133°	1.7	1.7	1.6	1.6	1.6	1.7
133.5°	1.8	1.7	1.5	1.6	1.6	1.6



TEST NUMBER: P579675

CATALOG NUMBER: SMD14R209SWHE-EM - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	1.9	1.8	1.6	1.7	1.6	1.6
135.5°	1.8	1.8	1.6	1.7	1.6	1.6
136°	1.8	1.8	1.6	1.8	1.6	1.6
136.5°	2.0	1.8	1.6	1.8	2.2	1.6
137°	2.0	1.8	1.6	1.8	2.2	1.6
137.5°	2.0	1.8	1.6	1.9	2.2	1.7
138°	2.0	1.8	1.6	1.8	2.2	1.6
138.5°	2.0	1.9	1.6	1.9	2.2	1.6
139°	2.0	1.9	1.6	1.9	2.2	1.8
139.5°	2.1	2.3	1.6	1.9	2.2	1.8
140°	2.1	2.3	1.7	1.9	2.2	1.8
140.5°	2.1	2.3	1.6	1.9	2.2	1.8
141°	2.1	2.3	1.8	2.0	2.2	1.8
141.5°	2.1	2.3	1.8	2.0	2.2	1.9
142°	2.1	2.3	1.8	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	2.5	1.9	2.1	2.2	2.0
144.5°	2.3	2.5	2.0	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	2.5	2.2
146.5°	2.4	2.8	2.1	2.3	2.5	2.4
147°	2.5	2.8	2.2	2.5	2.7	2.5
147.5°	2.5	2.7	2.3	2.4	2.7	2.5
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	2.7	2.7	2.6	2.6
150°	2.7	2.8	2.7	2.7	2.6	2.6
150.5°	2.7	2.7	2.7	2.7	2.6	2.7
151°	2.7	2.7	2.7	2.8	2.6	2.6
151.5°	2.7	2.9	2.7	2.7	2.6	2.6
152°	2.7	2.8	2.7	2.7	2.6	2.6
152.5°	2.7	3.0	2.7	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	2.7
154°	2.8	3.1	2.8	2.7	2.6	2.6
154.5°	2.8	3.1	2.9	2.7	2.6	2.6
155°	2.8	3.1	2.9	2.7	2.6	2.7
155.5°	2.9	3.3	3.0	2.7	2.6	2.7
156°	3.0	3.4	3.1	2.7	2.6	2.7



TEST NUMBER: P579675

CATALOG NUMBER: SMD14R209SWHE-EM - 3000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P579675

CATALOG NUMBER: SMD14R209SWHE-EM - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	3.6	3.6	3.6	3.6	3.6	3.6



Report Generated By 670245859 / DESKTOP-HRDQ47P







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







21.5°	721.4	718.3	716.7	713.5	713.4	715.1	715.8	716.9	719.9	721.3	723.1
22°	719.0	715.2	713.5	710.4	710.9	712.4	712.8	713.8	717.2	718.3	720.5



44°	538.2	533.7	531.3	528.4	528.8	530.4	532.0	534.4	538.1	540.8	543.5
44.5°	533.0	528.7	526.1	523.1	523.9	525.2	526.8	529.1	532.7	535.5	538.7



66.5°	268.1	263.2	259.1	256.0	258.3	259.3	261.3	264.8	268.4	272.4	275.8
67°	261.4	256.7	252.7	249.5	252.0	253.2	255.1	258.4	262.1	265.7	269.4



89°	7.0	4.9	3.1	1.7	3.0	3.4	4.4	5.8	7.6	9.7	11.5
89.5°	3.5	1.6	0.9	0.5	0.7	0.9	1.6	2.7	4.3	6.5	8.1





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



134°	1.6	1.8	1.8	1.6	1.7	1.5	1.9	1.8	1.6	1.6	1.4
134.5°	1.6	1.8	1.8	1.6	1.7	1.5	1.9	1.8	1.6	1.7	1.4



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



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





21.5°	722.3	723.3	723.7	721.6	720.8	721.4
22°	720.8	720.5	721.0	718.9	718.1	719.0



44°	545.5	543.9	544.1	542.2	540.4	538.2
44.5°	540.7	538.7	539.1	537.0	535.0	533.0



66.5°	278.7	276.0	275.8	274.2	271.6	268.1
67°	272.2	269.4	269.2	267.7	264.8	261.4





89°	12.8	11.2	11.2	10.5	9.0	7.0
89.5°	9.2	7.4	7.5	7.1	5.4	3.5



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



134°	1.8	1.7	1.6	1.6	1.6	1.6
134.5°	1.8	1.7	1.6	1.7	1.6	1.6



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



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



(END OF REPORT)