

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: P579682

Luminaire Tested: **SMD14S209SWHE-EM - 4000K**

Issue Date: 11/23/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P579682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2110240A001)  
Test Lab:  
Issue Date: 11/23/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD14S209SWHE-EM - 4000K  
Description: SMD SELECTABLE CCT 4000K  
Light Source: SELECTABLE CCT LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

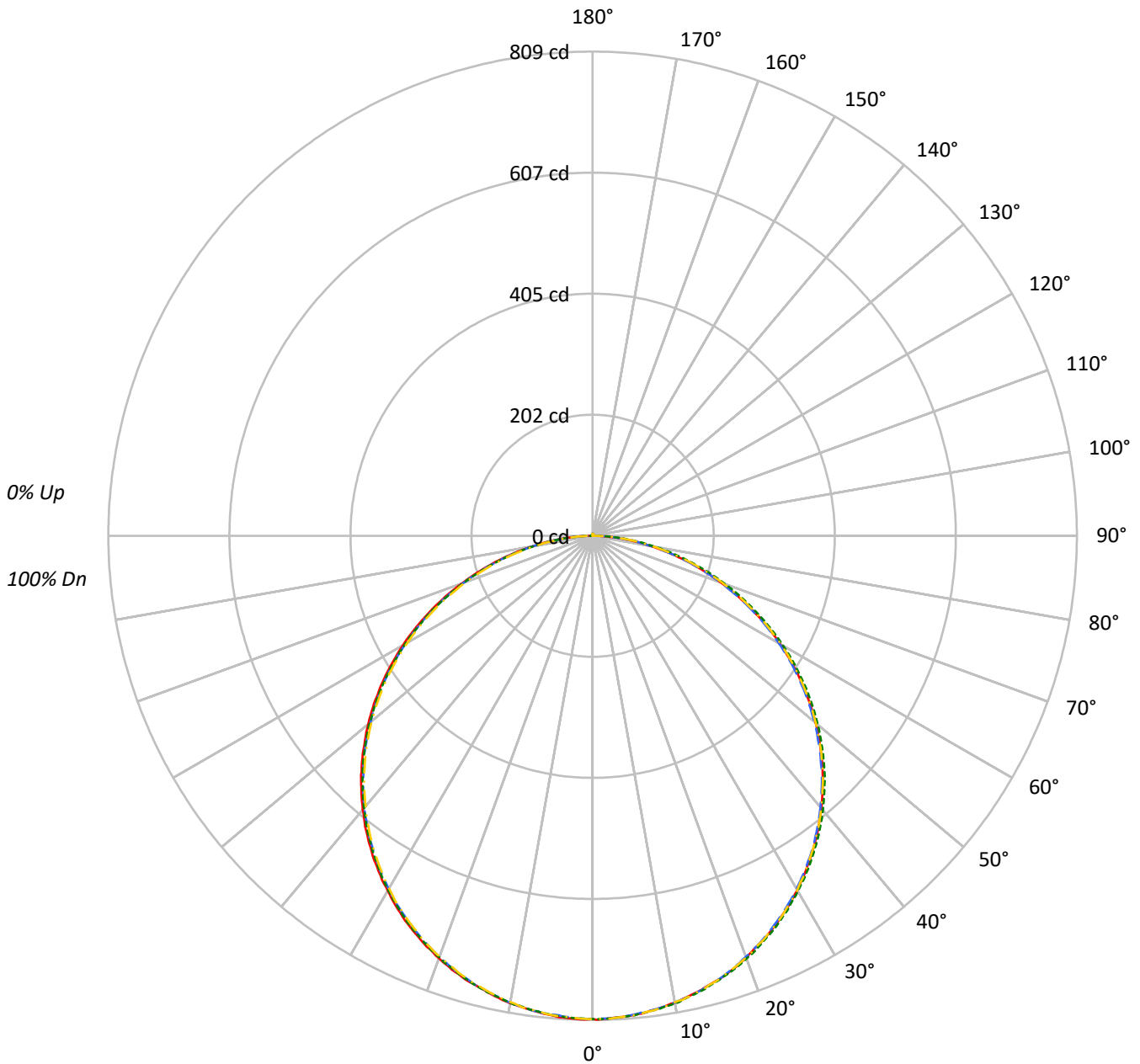
Lumens per Lamp: N/A  
Luminaire Lumens: 2350.0 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 29.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37			
7	64	51	42	36	63	50	41	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	39	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°	8693	8693	8693	8693
5°	8684	8689	8688	8680
10°	8658	8674	8666	8659
15°	8622	8636	8633	8630
20°	8591	8609	8604	8588
25°	8545	8579	8567	8550
30°	8495	8525	8509	8493
35°	8430	8468	8458	8424
40°	8352	8411	8398	8352
45°	8261	8330	8310	8260
50°	8140	8220	8192	8137
55°	7991	8086	8062	7983
60°	7787	7922	7883	7791
65°	7516	7692	7638	7529
70°	7169	7418	7323	7185
75°	6712	7045	6920	6750
80°	6118	6602	6416	6199
85°	5286	6113	5829	5360



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.4	3.2
10°-20°	218.6	9.3
20°-30°	331.6	14.1
30°-40°	401.1	17.1
40°-50°	418.2	17.8
50°-60°	380.2	16.2
60°-70°	292.9	12.5
70°-80°	173.0	7.4
80°-90°	51.0	2.2
90°-100°	0.3	0.0
100°-110°	0.4	0.0
110°-120°	0.8	0.0
120°-130°	0.9	0.0
130°-140°	1.2	0.1
140°-150°	1.2	0.1
150°-160°	1.1	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	626.5	26.7
0°-40°	1027.7	43.7
0°-60°	1826.0	77.7
0°-90°	2342.9	99.7
90°-120°	1.4	0.1
90°-150°	4.8	0.2
90°-180°	7.0	0.3
0°-180°	2350.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	808	808	808	808	808	
5°	804	804	804	803	804	76
15°	774	775	775	774	774	219
25°	720	722	721	720	720	332
35°	642	644	644	641	642	401
45°	543	547	546	543	543	418
55°	426	431	430	425	426	380
65°	295	302	300	296	295	292
75°	161	169	166	162	161	171
85°	43	50	47	43	43	46
90°	1	4	3	0	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	2	2	1
155°	3	3	2	3	3	1
165°	3	3	3	4	3	1
175°	3	3	3	3	3	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6	807.6
0.5°	808.7	807.3	806.5	808.1	807.7	808.1	807.6	807.8	808.1	807.7	807.8
1°	808.3	806.3	806.7	808.1	807.8	808.2	807.2	807.4	808.5	807.7	807.6
1.5°	807.4	806.1	806.8	807.4	807.6	807.2	807.8	808.1	808.3	807.4	806.8
2°	806.7	807.1	807.2	807.4	807.0	808.1	807.6	808.1	807.6	807.2	806.5
2.5°	806.1	806.7	806.4	807.9	806.4	807.9	806.7	807.6	807.3	806.7	806.1
3°	805.4	805.6	805.6	806.7	806.1	807.5	806.1	806.7	806.7	804.8	805.2
3.5°	805.7	805.1	805.7	806.1	805.6	806.4	805.6	807.2	806.4	804.9	805.0
4°	805.1	803.7	804.8	805.8	804.9	806.4	805.2	806.8	806.3	804.7	803.4
4.5°	804.3	803.9	803.6	805.2	804.7	805.5	805.0	806.1	805.3	804.5	802.7
5°	803.7	802.7	803.2	804.1	804.2	804.6	804.1	805.0	804.1	803.7	802.4
5.5°	802.7	802.2	802.0	803.1	802.9	804.1	803.4	804.1	803.2	803.1	802.1
6°	802.4	801.4	800.1	801.7	801.6	803.8	802.1	802.4	802.7	802.1	802.0
6.5°	800.9	800.1	799.3	802.0	801.2	802.9	800.8	802.4	801.2	801.1	800.3
7°	799.3	799.4	799.3	801.1	800.0	801.5	800.1	801.7	800.0	799.0	799.9
7.5°	798.8	798.4	798.0	800.1	799.3	800.5	798.9	800.5	798.6	798.1	799.0
8°	797.4	796.9	797.1	798.3	798.5	799.3	797.4	799.5	797.7	797.4	797.2
8.5°	795.9	795.3	795.9	797.5	796.7	798.0	796.0	798.1	796.7	796.2	795.2
9°	794.6	794.3	794.1	795.9	796.0	796.3	794.7	797.1	795.2	794.8	795.0
9.5°	793.0	793.2	793.2	794.6	794.7	795.0	793.1	795.2	794.2	793.8	793.6
10°	792.1	792.0	791.6	793.3	793.6	794.0	791.4	794.8	792.9	792.6	792.1
10.5°	790.7	790.3	790.1	792.1	792.6	791.7	790.4	792.4	791.7	790.7	790.7
11°	788.5	788.8	788.7	790.6	790.2	790.3	789.5	790.0	790.0	788.8	789.0
11.5°	786.9	787.4	787.4	789.1	788.0	789.0	787.5	789.0	787.8	787.3	787.1
12°	785.2	785.7	786.3	787.0	786.2	787.5	786.4	787.4	786.5	786.6	785.2
12.5°	783.2	784.2	784.4	785.2	784.6	785.6	783.3	785.9	784.5	784.4	783.2
13°	781.7	781.4	782.4	783.4	783.0	783.6	782.2	783.8	782.8	782.4	781.9
13.5°	779.9	779.4	780.4	781.4	781.6	781.4	780.3	781.7	780.2	780.6	779.5
14°	777.7	777.8	778.0	779.6	779.9	779.0	778.7	780.2	778.7	777.9	777.9
14.5°	775.7	775.7	776.0	777.7	777.1	777.6	775.4	777.2	776.3	776.2	776.5
15°	773.7	774.0	774.6	775.6	775.0	775.2	773.9	775.7	774.7	773.7	773.9
15.5°	771.9	771.6	772.1	772.9	773.3	773.4	772.2	773.0	773.1	771.3	771.1
16°	770.5	769.6	769.7	770.6	771.4	771.6	770.3	770.9	771.1	769.7	768.8
16.5°	767.9	767.8	767.4	768.6	768.7	769.5	767.7	768.3	768.6	767.8	766.7
17°	765.8	765.1	765.1	766.4	766.8	767.2	765.1	766.5	766.0	765.0	764.2
17.5°	763.3	762.1	762.5	764.1	764.5	764.9	763.2	764.5	764.4	762.4	762.3
18°	761.1	759.5	760.0	761.4	762.3	762.3	760.3	760.9	762.2	760.4	759.4
18.5°	758.7	757.0	757.2	759.0	759.9	759.5	757.7	759.6	758.8	757.7	757.2
19°	756.0	754.7	754.5	756.3	757.4	756.6	754.9	757.0	756.4	754.9	753.8
19.5°	752.8	752.2	751.1	753.3	754.5	754.0	752.5	754.1	754.0	752.7	751.5
20°	750.0	748.5	748.6	750.5	751.6	751.5	749.5	751.6	751.1	749.9	749.4
20.5°	746.8	745.5	746.0	747.6	749.2	749.1	746.9	748.4	748.7	746.2	746.1
21°	743.7	743.1	743.3	744.7	746.8	746.1	744.6	745.7	745.2	743.7	742.9



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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°	735.2	733.6	734.3	736.2	737.5	737.2	735.2	736.9	737.3	734.9	733.8
23°	732.5	731.0	730.9	733.5	734.2	734.1	732.5	733.7	734.1	731.7	731.1
23.5°	729.3	727.9	727.6	730.5	730.7	731.3	729.2	731.1	730.5	728.4	727.5
24°	726.1	724.8	724.4	727.3	728.5	727.7	725.6	728.2	728.0	725.7	724.6
24.5°	722.8	721.7	721.4	723.8	725.4	724.3	723.3	724.4	724.7	722.2	721.0
25°	719.5	718.2	717.9	720.7	722.3	721.0	719.0	721.2	721.3	718.5	717.6
25.5°	716.0	714.6	714.2	717.2	718.9	717.8	715.6	717.5	718.1	715.6	714.1
26°	712.7	711.2	710.9	713.5	715.0	714.5	712.7	714.0	715.0	712.0	710.9
26.5°	709.2	707.3	707.6	709.9	711.5	711.0	709.3	710.4	711.3	708.3	707.5
27°	705.9	703.9	704.0	706.8	708.6	707.4	705.8	707.2	707.2	705.5	704.0
27.5°	702.3	700.8	700.2	703.1	705.1	704.2	701.8	702.5	703.8	701.8	700.4
28°	698.8	696.9	696.6	699.0	700.9	700.3	698.0	699.4	700.7	697.6	696.9
28.5°	694.9	693.0	693.1	695.4	696.7	696.4	694.8	695.8	696.7	694.1	693.3
29°	691.2	688.9	689.4	691.7	693.6	692.6	691.2	692.3	692.6	691.0	690.2
29.5°	687.3	685.0	685.5	688.0	689.8	688.8	687.2	688.3	688.4	686.8	684.7
30°	683.5	681.4	681.4	684.3	685.9	684.8	683.6	684.4	684.6	683.0	681.4
30.5°	679.6	677.4	677.3	680.3	682.0	681.0	679.0	680.3	680.9	678.9	677.1
31°	675.6	673.4	673.1	676.2	678.1	676.8	674.7	676.6	677.5	674.9	673.3
31.5°	671.7	669.7	669.1	672.2	674.5	672.7	671.2	672.6	673.6	671.0	668.9
32°	667.3	665.3	665.2	668.0	670.4	668.7	667.2	668.8	669.1	667.4	665.1
32.5°	663.0	661.0	660.7	663.9	666.0	664.5	662.6	664.8	665.1	663.1	662.0
33°	658.6	656.7	656.4	659.3	662.1	660.3	658.4	660.6	660.7	658.3	657.7
33.5°	654.6	652.3	652.3	655.2	657.7	656.1	654.0	656.1	656.7	653.9	652.5
34°	650.3	648.0	648.3	650.8	653.4	651.8	649.5	651.8	653.0	649.7	647.8
34.5°	645.9	643.6	643.9	646.4	648.8	647.3	645.3	648.4	648.8	645.4	644.0
35°	641.5	639.2	639.3	642.1	644.4	643.0	640.8	644.5	643.7	641.0	639.6
35.5°	637.2	634.8	634.7	637.8	640.1	638.6	636.7	639.3	639.3	637.0	635.4
36°	632.6	630.3	630.5	633.2	635.8	634.3	632.2	634.8	635.3	632.3	631.0
36.5°	627.8	625.7	625.8	628.9	631.5	629.6	627.3	629.7	630.7	627.6	627.1
37°	623.3	620.7	620.9	624.2	626.9	625.2	622.6	625.0	625.6	623.7	621.6
37.5°	618.4	615.9	616.1	619.5	622.3	620.6	618.4	620.3	621.6	618.6	617.5
38°	613.5	611.3	611.4	614.5	617.5	615.6	613.7	615.4	617.1	614.5	612.5
38.5°	608.8	606.5	606.6	609.8	613.1	611.0	608.6	611.3	611.7	609.4	607.7
39°	604.0	601.8	602.0	604.9	608.4	606.4	604.0	606.0	606.7	604.5	603.3
39.5°	599.3	597.1	596.8	600.2	603.4	601.6	598.8	601.6	601.7	599.1	598.5
40°	594.4	592.0	591.9	594.9	598.6	596.4	593.7	596.5	597.7	594.4	593.3
40.5°	589.4	587.1	586.8	589.8	593.5	591.5	588.5	591.6	592.2	589.3	587.9
41°	584.2	581.9	581.9	584.6	588.5	586.8	583.9	586.6	587.6	584.5	583.1
41.5°	579.1	576.9	576.6	579.6	583.4	581.8	579.1	581.4	582.2	579.3	577.7
42°	573.9	571.7	571.4	574.3	578.5	576.7	573.8	576.0	577.2	573.9	573.1
42.5°	569.0	566.7	566.6	569.2	573.4	571.2	569.0	571.3	571.9	569.2	567.4
43°	563.9	561.5	561.6	563.8	568.3	566.2	564.0	566.3	567.0	564.1	561.9
43.5°	558.6	556.3	556.3	558.3	563.5	561.0	558.6	560.7	562.2	558.3	557.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	542.7	539.8	539.8	542.4	547.2	544.7	542.8	544.8	545.9	542.0	541.1
45.5°	537.4	534.6	534.4	537.0	541.7	539.2	537.0	539.0	540.4	536.4	536.1
46°	531.7	529.1	529.0	531.4	536.2	534.0	531.8	533.6	534.5	531.1	530.8
46.5°	526.2	523.8	523.3	525.7	530.7	528.8	526.6	527.8	529.4	526.3	525.0
47°	520.5	518.0	517.7	520.2	525.3	523.3	520.8	522.3	523.3	520.4	519.6
47.5°	514.9	512.5	512.2	514.7	519.3	517.3	515.1	517.1	517.6	514.3	513.3
48°	509.1	506.8	506.4	508.9	513.8	511.9	509.5	511.4	512.2	508.7	507.8
48.5°	503.6	501.0	500.8	503.4	508.1	506.2	503.3	505.6	506.4	503.6	502.0
49°	497.8	495.3	495.4	497.8	502.5	500.7	497.8	500.0	501.2	497.6	496.2
49.5°	492.0	489.6	489.8	492.0	496.7	495.0	492.2	494.4	495.1	492.2	490.3
50°	486.1	483.8	483.8	486.1	490.9	489.0	486.8	488.2	489.2	486.0	484.5
50.5°	480.4	477.8	477.5	480.0	484.9	483.0	480.7	482.6	483.6	480.3	478.6
51°	474.5	471.8	471.5	474.2	479.4	477.4	474.8	476.6	477.5	474.4	472.6
51.5°	468.4	465.8	465.4	468.2	473.7	471.5	469.0	471.1	471.9	468.9	466.9
52°	462.2	460.0	459.6	462.5	467.5	465.3	463.1	464.8	465.9	462.2	461.2
52.5°	456.4	453.7	453.5	456.2	461.7	459.6	457.2	459.1	460.1	456.2	455.1
53°	450.3	447.6	447.5	450.2	455.7	453.4	450.9	452.3	453.9	450.4	449.0
53.5°	444.1	441.5	441.4	444.3	449.6	447.3	445.1	446.5	447.2	444.2	442.8
54°	437.8	435.4	435.2	438.1	443.6	441.3	438.9	440.0	441.5	438.5	437.0
54.5°	431.9	429.5	429.0	432.1	437.6	435.2	432.8	433.9	435.7	432.4	431.2
55°	425.8	423.3	423.1	425.9	430.9	429.2	426.9	427.9	429.6	426.4	425.1
55.5°	419.5	417.0	416.7	419.5	424.8	423.0	420.5	421.8	423.1	419.7	418.8
56°	413.3	410.7	410.5	413.3	418.6	416.7	414.3	415.5	417.1	413.5	412.7
56.5°	406.9	404.2	404.1	406.8	412.3	410.4	408.0	409.2	410.6	407.4	406.2
57°	400.3	397.9	398.0	400.7	406.1	404.2	401.7	403.0	404.2	401.3	399.7
57.5°	394.4	391.4	391.6	394.3	399.8	397.9	395.2	396.6	397.9	395.0	393.2
58°	387.7	385.1	385.1	387.9	393.8	391.5	388.9	390.0	391.6	388.6	387.1
58.5°	381.1	378.6	378.6	381.4	387.2	385.1	382.9	383.4	385.3	382.3	380.6
59°	374.5	372.3	372.2	375.2	380.7	378.3	376.2	376.8	378.8	375.7	374.2
59.5°	368.1	365.9	365.8	368.5	374.1	372.2	369.5	370.7	372.5	369.2	367.5
60°	361.7	359.5	359.3	361.9	368.0	366.2	363.2	364.5	366.2	362.8	361.3
60.5°	355.0	353.0	352.8	355.1	361.5	359.5	356.9	357.8	359.9	356.4	354.6
61°	348.6	346.5	346.2	348.6	355.0	352.7	350.3	351.1	353.4	349.7	348.1
61.5°	342.0	339.9	339.7	341.9	348.4	346.0	343.5	344.7	346.3	343.3	341.8
62°	335.5	333.4	333.0	335.4	342.1	340.1	337.4	338.2	339.7	337.0	335.1
62.5°	328.9	326.7	326.4	329.0	335.6	333.3	330.7	331.8	333.0	330.3	328.3
63°	322.2	320.0	319.9	322.2	328.9	325.9	324.0	325.0	326.6	323.5	322.1
63.5°	315.6	313.3	313.4	315.5	322.3	319.9	317.6	318.5	320.0	317.0	315.3
64°	308.7	306.6	306.9	309.0	315.4	312.8	310.9	311.9	313.1	310.6	308.8
64.5°	301.6	299.9	300.2	302.4	308.5	306.5	304.2	305.3	306.6	303.9	302.1
65°	295.1	293.2	293.7	295.9	302.0	299.7	297.6	298.8	299.9	296.9	295.3
65.5°	288.7	286.5	286.9	289.4	295.3	293.3	290.9	292.4	293.4	290.8	288.9
66°	281.8	279.8	280.1	282.7	288.9	286.6	284.3	285.8	286.7	283.9	282.2





TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	261.6	259.6	259.9	262.4	268.9	266.7	264.1	265.5	266.6	263.3	262.1
68°	254.8	252.9	253.3	255.7	262.2	259.9	257.5	258.7	259.8	256.9	255.5
68.5°	248.0	246.2	246.6	249.2	255.7	253.3	251.0	251.9	253.2	250.3	248.8
69°	241.1	239.5	240.1	242.6	249.1	246.9	244.9	245.3	246.3	243.7	242.7
69.5°	234.4	232.7	233.3	235.7	242.0	240.1	237.5	238.4	239.6	236.9	235.6
70°	227.8	226.1	226.7	229.0	235.7	233.3	231.2	231.9	232.7	230.3	229.0
70.5°	220.8	219.7	220.1	222.5	229.2	226.9	225.0	225.3	226.2	223.8	222.4
71°	214.2	213.0	213.6	215.7	222.2	220.4	218.3	218.7	219.6	216.8	216.1
71.5°	207.5	206.3	207.0	209.1	215.6	213.5	211.5	212.0	212.9	210.4	209.6
72°	200.9	199.7	200.1	202.3	209.0	207.0	204.8	205.2	206.1	203.4	202.9
72.5°	194.0	193.1	193.6	195.4	202.6	200.5	198.4	198.6	199.2	197.0	196.1
73°	187.3	186.5	187.1	189.2	195.9	193.9	191.6	192.1	192.7	190.2	189.6
73.5°	181.0	179.9	180.5	182.6	189.2	187.2	185.2	185.5	186.2	183.9	183.3
74°	174.6	173.3	173.9	176.0	182.6	181.0	178.5	178.8	179.6	177.3	176.6
74.5°	167.9	166.7	167.5	169.3	176.1	174.4	172.0	172.2	173.0	170.9	169.9
75°	161.4	160.3	161.1	163.1	169.4	167.8	165.6	165.9	166.4	164.5	163.5
75.5°	154.9	154.1	154.7	156.6	163.3	161.3	159.3	159.4	160.1	158.0	157.3
76°	148.4	147.4	148.3	150.2	156.9	155.2	153.0	153.2	153.8	151.5	150.9
76.5°	142.1	141.2	142.0	143.4	150.3	148.7	146.5	146.8	147.3	145.2	144.4
77°	135.6	134.7	135.5	137.5	143.9	142.4	140.1	140.5	140.7	138.8	138.1
77.5°	129.3	128.5	129.5	131.3	137.7	136.1	133.8	134.0	134.4	132.7	132.0
78°	123.2	122.2	123.1	125.1	131.3	129.6	127.7	127.7	128.1	126.5	125.8
78.5°	116.9	116.1	117.3	119.3	125.2	123.6	121.5	121.4	122.0	120.3	119.8
79°	110.8	110.0	111.2	113.2	119.0	117.3	115.4	115.1	115.8	114.0	113.5
79.5°	104.8	104.0	105.1	107.2	112.8	111.2	109.4	109.1	109.5	108.0	107.6
80°	98.7	98.1	99.0	101.1	106.5	105.2	103.4	103.2	103.5	101.8	101.5
80.5°	92.8	92.2	93.1	95.0	100.7	99.1	97.4	97.3	97.5	95.8	95.8
81°	87.1	86.7	87.5	89.4	94.6	93.1	91.7	91.3	91.5	90.1	89.9
81.5°	81.2	80.9	81.9	83.6	88.8	87.4	85.9	85.7	85.7	84.2	84.1
82°	75.6	75.2	76.2	77.9	82.8	81.6	80.0	79.7	79.8	78.4	78.1
82.5°	69.9	69.5	70.4	72.1	77.1	75.9	74.1	74.2	74.1	72.9	72.6
83°	64.2	63.8	64.8	66.3	71.4	70.3	68.7	68.5	68.5	67.3	67.0
83.5°	58.8	58.4	59.4	60.7	65.9	64.7	63.2	63.0	63.1	61.8	61.2
84°	53.4	53.1	54.0	55.3	60.2	59.2	57.8	57.6	57.7	56.3	56.0
84.5°	48.1	47.8	48.6	49.8	54.7	54.0	52.5	52.3	52.5	51.2	50.7
85°	42.8	42.5	43.2	44.5	49.5	48.5	47.0	47.0	47.2	45.9	45.4
85.5°	37.7	37.6	38.2	39.1	44.0	43.2	42.1	41.8	42.0	40.7	40.2
86°	32.8	32.5	33.2	33.9	38.9	38.0	36.8	36.9	37.0	35.7	35.3
86.5°	28.0	27.7	28.3	29.0	33.8	33.2	32.0	32.0	32.1	30.8	30.3
87°	23.4	23.3	23.6	24.3	28.7	28.2	27.2	27.2	27.2	26.0	25.5
87.5°	19.1	18.8	19.3	19.8	23.7	23.2	22.5	22.7	22.7	21.5	21.0
88°	14.8	14.7	15.1	15.5	19.3	18.9	18.2	18.2	18.3	17.1	16.6
88.5°	10.9	10.8	11.1	11.4	14.7	14.6	14.0	13.9	13.9	12.8	12.3



TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.6	0.7	0.9	0.9	3.6	3.6	3.4	3.1	2.8	2.2	2.0
90.5°	0.3	0.4	0.4	0.3	0.7	0.7	0.4	0.3	0.1	0.1	0.0
91°	0.3	0.3	0.3	0.3	0.0	0.1	0.0	0.1	0.1	0.1	0.0
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	0.0	0.0	0.1	0.1
92.5°	0.3	0.3	0.3	0.3	0.0	0.1	0.1	0.0	0.0	0.1	0.1
93°	0.3	0.3	0.3	0.3	0.0	0.1	0.1	0.0	0.0	0.1	0.1
93.5°	0.3	0.3	0.3	0.3	0.0	0.1	0.1	0.1	0.1	0.1	0.1
94°	0.3	0.3	0.3	0.3	0.0	0.1	0.1	0.1	0.1	0.1	0.1
94.5°	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95.5°	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
96°	0.3	0.3	0.3	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.1
96.5°	0.3	0.3	0.3	0.3	0.1	0.2	0.2	0.1	0.1	0.1	0.2
97°	0.3	0.3	0.3	0.3	0.1	0.1	0.2	0.1	0.1	0.1	0.2
97.5°	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
98°	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.2
98.5°	0.3	0.3	0.3	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.2
99°	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.3
99.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.2
100°	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.1	0.2	0.2	0.2
100.5°	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.3
101°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3
101.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.3
102°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3
102.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3
103°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
103.5°	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.4	0.4
104°	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.4	0.4	0.4
104.5°	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4
105°	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.5	0.4
105.5°	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.5	0.4
106°	0.4	0.4	0.3	0.3	0.4	0.5	0.4	0.5	0.3	0.4	0.4
106.5°	0.5	0.5	0.4	0.3	0.5	0.5	0.5	0.5	0.3	0.5	0.4
107°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5
107.5°	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.5
108°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5
108.5°	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5
109°	0.5	0.7	0.7	0.7	0.6	0.5	0.6	0.5	0.4	0.6	0.6
109.5°	0.6	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.6
110°	0.7	0.7	0.7	0.7	0.6	0.5	0.7	0.5	0.5	0.7	0.6
110.5°	0.7	0.7	0.7	0.7	0.7	0.5	0.7	0.7	0.5	0.7	0.7
111°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.7	0.7



TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

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



TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.5	1.7	1.7	1.8	1.7	1.3	1.7	1.5	1.5	1.5	1.3
135.5°	1.5	1.7	1.7	1.9	1.7	1.3	1.7	1.5	1.5	1.6	1.3
136°	1.6	1.7	1.7	1.9	1.7	1.3	1.7	1.5	1.5	1.6	1.3
136.5°	1.6	1.7	1.7	1.9	1.7	1.4	1.7	1.5	1.5	1.5	1.3
137°	1.6	1.7	1.7	1.9	1.7	1.4	1.8	1.5	1.5	1.6	1.3
137.5°	1.7	1.7	1.7	1.9	1.7	1.4	1.8	1.6	1.5	1.5	1.4
138°	1.7	1.7	1.7	1.9	1.7	1.4	1.7	1.6	1.5	1.5	1.4
138.5°	1.6	1.7	1.7	1.9	1.7	1.5	1.7	1.5	1.5	1.7	1.4
139°	1.6	1.7	1.7	1.9	1.7	1.5	1.9	1.5	1.6	1.7	1.5
139.5°	1.6	1.7	1.7	1.9	1.7	1.4	1.9	1.6	1.6	1.7	1.5
140°	1.6	1.7	1.7	1.9	1.7	1.4	1.8	1.6	1.7	1.7	1.5
140.5°	1.6	1.7	1.8	1.9	1.8	1.5	1.8	1.6	1.7	1.7	1.5
141°	1.6	1.7	1.9	1.9	1.8	1.5	1.8	1.6	1.6	1.7	1.5
141.5°	1.7	1.7	1.8	1.9	1.8	1.5	1.8	1.6	1.6	1.7	1.5
142°	1.6	1.7	1.8	1.9	1.8	1.5	1.8	1.6	1.7	1.7	1.5
142.5°	1.7	1.7	1.8	1.9	1.8	1.6	1.8	1.7	1.7	1.8	1.5
143°	1.7	1.9	1.8	1.9	1.9	1.6	1.8	1.7	1.7	1.7	1.5
143.5°	1.7	1.9	1.8	1.9	1.9	1.6	1.8	1.7	1.7	1.7	1.5
144°	1.8	1.8	1.8	1.9	1.9	1.6	1.8	1.7	1.8	1.8	1.6
144.5°	1.7	1.8	1.8	1.9	1.9	1.7	1.8	1.7	1.8	1.7	1.6
145°	1.9	1.9	1.8	1.9	1.9	1.7	1.8	1.8	1.8	1.9	1.5
145.5°	1.9	1.9	1.8	1.9	2.0	1.7	1.8	1.9	1.7	1.9	1.5
146°	1.9	2.0	1.9	1.9	2.0	1.7	1.8	1.8	1.9	1.8	1.5
146.5°	1.9	2.0	1.9	2.0	2.1	1.8	1.8	1.9	1.9	1.8	1.7
147°	1.9	2.0	1.9	2.0	2.1	1.8	1.8	1.9	1.9	1.8	1.7
147.5°	2.0	2.1	1.9	2.0	2.1	1.9	1.8	1.9	1.9	1.8	1.6
148°	2.1	2.1	1.9	2.1	2.1	1.9	1.8	1.9	1.9	1.8	1.6
148.5°	2.1	2.2	1.9	2.1	2.1	1.9	1.8	2.0	2.0	1.8	1.6
149°	2.1	2.2	1.9	2.1	2.3	1.9	1.8	2.0	2.0	1.9	1.6
149.5°	2.1	2.3	1.9	2.3	2.2	2.1	1.8	1.9	2.0	1.9	1.7
150°	2.3	2.3	1.9	2.3	2.3	2.1	1.8	1.9	2.1	1.9	1.7
150.5°	2.3	2.3	1.9	2.5	2.3	2.1	1.8	1.9	2.1	1.9	1.7
151°	2.5	2.3	1.9	2.6	2.4	2.2	1.8	2.0	2.1	1.9	1.8
151.5°	2.5	2.3	1.9	2.6	2.5	2.2	1.9	2.1	2.1	2.0	1.8
152°	2.6	2.3	2.0	2.7	2.5	2.3	1.9	2.0	2.1	2.0	1.8
152.5°	2.6	2.5	2.0	2.7	2.5	2.3	1.9	2.0	2.2	1.9	1.9
153°	2.6	2.4	2.0	2.8	2.6	2.4	2.0	2.0	2.2	1.9	1.9
153.5°	2.7	2.4	2.1	2.8	2.7	2.4	2.1	2.0	2.3	2.0	2.0
154°	2.7	2.6	2.1	2.7	2.7	2.5	2.1	2.0	2.2	2.0	2.0
154.5°	2.7	2.6	2.1	2.7	2.8	2.6	2.2	2.1	2.2	2.1	2.0
155°	2.7	2.6	2.5	2.7	2.8	2.7	2.2	2.1	2.2	2.0	2.0
155.5°	2.7	2.6	2.5	2.7	2.8	2.7	2.3	2.1	2.3	2.1	2.1
156°	2.7	2.7	2.6	2.7	2.9	2.7	2.3	2.2	2.3	2.1	2.2



TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

**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	2.7	2.9	3.0	3.0	2.5	2.2	2.3	2.2	2.3
158°	2.7	2.7	2.7	2.8	3.1	3.1	2.6	2.3	2.4	2.4	2.3
158.5°	2.7	2.7	2.7	2.9	3.3	3.3	2.8	2.3	2.4	2.3	2.5
159°	2.7	2.8	2.7	2.9	3.3	3.3	2.8	2.4	2.4	2.5	2.6
159.5°	2.7	2.8	2.7	2.9	3.4	3.3	2.8	2.5	2.5	2.6	2.6
160°	2.7	2.8	2.7	2.9	3.3	3.4	2.9	2.5	2.5	2.7	2.7
160.5°	2.7	2.8	2.7	2.9	3.3	3.4	3.0	2.7	2.5	2.7	2.7
161°	2.7	2.8	2.7	2.9	3.3	3.3	3.0	2.7	2.6	2.7	2.9
161.5°	2.7	2.8	2.7	2.9	3.3	3.3	3.1	2.9	2.5	2.7	2.8
162°	2.7	2.8	2.7	2.9	3.3	3.3	3.1	2.8	2.7	2.7	2.9
162.5°	2.7	2.8	2.7	2.9	3.3	3.3	3.1	2.9	2.8	2.7	2.9
163°	2.8	2.9	2.8	2.9	3.3	3.3	3.1	2.9	2.9	2.7	3.0
163.5°	2.7	2.9	2.9	3.0	3.3	3.3	3.1	3.0	2.9	2.7	3.1
164°	2.9	2.9	2.9	3.1	3.3	3.3	3.1	3.1	2.9	2.7	3.1
164.5°	2.9	2.9	2.9	3.0	3.3	3.3	3.1	3.1	2.9	2.8	3.1
165°	2.8	2.9	2.9	3.0	3.3	3.3	3.1	3.1	2.9	2.8	3.1
165.5°	2.8	3.0	2.9	3.1	3.3	3.3	3.1	3.1	2.9	2.9	3.1
166°	2.8	3.0	3.0	3.1	3.3	3.3	3.1	3.1	2.9	2.9	3.1
166.5°	2.8	3.0	3.1	3.1	3.3	3.3	3.1	3.1	2.9	3.0	3.1
167°	2.8	3.1	3.1	3.1	3.3	3.3	3.1	3.1	2.9	3.0	3.1
167.5°	2.8	3.1	3.0	3.1	3.3	3.3	3.1	3.1	2.9	3.0	3.1
168°	2.8	3.1	3.0	3.1	3.3	3.3	3.1	3.1	2.9	3.0	3.1
168.5°	2.8	3.1	3.0	3.1	3.3	3.3	3.1	3.1	2.9	3.1	3.1
169°	2.8	3.1	3.0	3.1	3.3	3.3	3.1	3.1	2.9	3.1	3.1
169.5°	2.8	3.1	3.1	3.1	3.3	3.3	3.1	3.1	2.9	3.2	3.1
170°	2.8	3.1	3.1	3.1	3.3	3.3	3.1	3.1	2.9	3.1	3.1
170.5°	2.8	3.1	3.1	3.1	3.3	3.3	3.1	3.1	2.9	3.2	3.1
171°	2.8	3.1	3.1	3.1	3.3	3.3	3.1	3.1	2.9	3.2	3.1
171.5°	2.8	3.1	3.1	3.1	3.3	3.4	3.1	3.1	2.9	3.3	3.1
172°	2.8	3.1	3.1	3.1	3.3	3.4	3.1	3.1	2.9	3.3	3.1
172.5°	2.8	3.1	3.1	3.1	3.3	3.4	3.1	3.1	2.9	3.3	3.1
173°	2.8	3.1	3.1	3.1	3.3	3.4	3.1	3.1	2.9	3.3	3.1
173.5°	2.8	3.1	3.1	3.1	3.3	3.5	3.1	3.1	2.9	3.3	3.1
174°	2.8	3.1	3.1	3.1	3.3	3.4	3.1	3.1	2.9	3.3	3.1
174.5°	2.8	3.1	3.1	3.1	3.3	3.4	3.1	3.1	2.9	3.3	3.1
175°	2.8	3.1	3.1	3.1	3.3	3.4	3.1	3.1	2.9	3.3	3.1
175.5°	2.8	3.1	3.1	3.1	3.3	3.4	3.1	3.1	2.9	3.3	3.1
176°	2.8	3.1	3.1	3.1	3.3	3.4	3.1	3.1	2.9	3.3	3.1
176.5°	2.8	3.1	3.1	3.1	3.3	3.4	3.1	3.1	2.9	3.3	3.1
177°	2.8	3.1	3.1	3.1	3.3	3.4	3.1	3.1	2.9	3.4	3.1
177.5°	2.8	3.1	3.1	3.1	3.4	3.5	3.1	3.1	2.9	3.4	3.1
178°	2.8	3.1	3.1	3.1	3.5	3.5	3.1	3.1	2.9	3.3	3.1
178.5°	2.9	3.1	3.1	3.1	3.6	3.5	3.1	3.1	2.9	3.3	3.1



TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3



TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	807.6	807.6	807.6	807.6	807.6	807.6
0.5°	807.7	807.7	807.5	807.4	807.7	808.7
1°	808.6	807.0	807.4	807.1	807.2	808.3
1.5°	808.4	806.3	807.2	807.0	807.4	807.4
2°	808.2	806.6	806.7	806.2	807.3	806.7
2.5°	807.9	806.0	806.5	805.0	806.7	806.1
3°	807.6	805.8	806.7	805.1	805.8	805.4
3.5°	807.0	804.9	805.9	805.1	805.4	805.7
4°	806.7	804.6	805.8	805.2	804.8	805.1
4.5°	806.2	804.4	805.3	804.0	805.1	804.3
5°	805.3	803.3	804.7	803.3	803.7	803.7
5.5°	804.2	802.5	803.9	802.7	802.8	802.7
6°	802.0	801.6	802.2	801.4	802.1	802.4
6.5°	802.2	800.3	801.3	800.6	800.7	800.9
7°	801.5	799.2	800.0	799.1	798.7	799.3
7.5°	800.9	798.8	798.4	798.1	797.7	798.8
8°	798.9	796.9	797.7	797.9	796.5	797.4
8.5°	796.2	795.7	796.8	796.4	795.5	795.9
9°	795.6	794.6	796.3	794.2	794.8	794.6
9.5°	794.6	794.0	794.8	792.4	793.0	793.0
10°	792.8	792.2	793.3	791.2	792.0	792.1
10.5°	791.7	790.8	791.4	789.5	790.4	790.7
11°	790.2	788.6	789.0	787.8	788.3	788.5
11.5°	788.0	787.0	787.8	786.7	787.5	786.9
12°	786.6	785.6	785.7	784.9	785.6	785.2
12.5°	784.8	783.5	783.6	782.8	783.1	783.2
13°	783.2	782.6	781.9	780.8	781.2	781.7
13.5°	781.3	780.4	780.7	778.8	779.6	779.9
14°	779.4	778.6	778.1	776.7	778.1	777.7
14.5°	776.8	776.6	776.2	774.6	776.0	775.7
15°	775.6	774.4	774.1	773.0	774.0	773.7
15.5°	773.0	772.1	772.5	770.7	771.9	771.9
16°	770.9	769.9	769.8	768.4	769.6	770.5
16.5°	768.7	768.4	767.5	766.1	767.9	767.9
17°	766.2	765.2	765.0	763.9	765.3	765.8
17.5°	764.3	761.9	762.1	760.7	762.5	763.3
18°	761.6	759.5	759.6	758.0	759.8	761.1
18.5°	758.7	757.5	757.2	755.1	757.2	758.7
19°	756.6	755.5	755.2	753.2	755.0	756.0
19.5°	753.6	752.5	752.3	750.7	752.3	752.8
20°	750.6	749.7	749.6	748.1	749.4	750.0
20.5°	748.2	746.8	746.5	745.4	746.5	746.8
21°	745.8	744.4	743.8	742.5	743.9	743.7



TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	736.6	735.4	734.7	733.3	734.9	735.2
23°	733.9	732.2	731.6	730.6	731.7	732.5
23.5°	730.7	729.0	728.5	727.2	729.1	729.3
24°	727.5	726.0	725.1	723.6	725.9	726.1
24.5°	724.6	723.0	721.5	720.4	722.7	722.8
25°	721.0	719.9	718.1	717.0	719.1	719.5
25.5°	717.2	716.5	714.9	713.5	715.6	716.0
26°	714.0	713.1	711.3	710.1	712.0	712.7
26.5°	710.1	709.5	707.5	706.5	708.4	709.2
27°	706.6	705.6	703.9	702.9	704.9	705.9
27.5°	702.5	702.1	700.0	699.6	701.3	702.3
28°	698.9	698.6	696.3	696.0	697.5	698.8
28.5°	695.4	694.8	692.5	692.4	693.7	694.9
29°	691.8	690.9	688.7	688.3	690.0	691.2
29.5°	688.1	687.0	684.7	684.3	686.3	687.3
30°	684.3	683.3	680.9	680.4	682.4	683.5
30.5°	679.2	679.4	677.0	676.5	678.3	679.6
31°	676.4	675.4	673.0	672.5	674.1	675.6
31.5°	672.4	671.4	669.0	668.4	669.9	671.7
32°	668.1	667.3	664.6	664.1	666.1	667.3
32.5°	663.8	663.0	660.3	659.6	661.9	663.0
33°	659.8	658.4	656.2	655.3	657.4	658.6
33.5°	655.1	654.3	651.8	651.2	653.1	654.6
34°	651.0	650.1	647.2	646.7	648.8	650.3
34.5°	646.7	645.6	642.7	642.3	644.3	645.9
35°	642.1	641.1	638.4	637.9	640.1	641.5
35.5°	637.6	636.7	634.0	633.4	635.7	637.2
36°	633.1	632.4	629.6	628.9	631.0	632.6
36.5°	628.2	627.8	625.0	624.2	626.2	627.8
37°	623.6	623.3	620.6	619.5	621.7	623.3
37.5°	619.0	618.5	615.7	614.6	616.7	618.4
38°	614.4	613.7	611.0	609.8	611.8	613.5
38.5°	609.8	608.9	606.1	604.9	607.3	608.8
39°	605.1	604.0	601.2	600.2	602.7	604.0
39.5°	600.4	599.2	596.2	595.2	597.7	599.3
40°	595.2	594.4	591.3	590.0	592.5	594.4
40.5°	590.5	589.1	586.3	584.9	587.5	589.4
41°	585.3	584.0	581.4	579.9	582.4	584.2
41.5°	580.1	578.7	576.2	575.0	577.0	579.1
42°	575.0	573.8	571.2	570.0	571.5	573.9
42.5°	569.8	568.6	565.9	564.7	566.7	569.0
43°	564.8	563.6	560.6	559.4	561.5	563.9
43.5°	559.3	558.4	555.3	554.0	556.3	558.6





TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	543.5	542.6	539.2	538.0	540.4	542.7
45.5°	538.2	537.0	533.8	532.6	535.1	537.4
46°	532.8	531.2	528.5	527.0	529.6	531.7
46.5°	527.3	525.7	522.9	521.4	524.1	526.2
47°	521.8	520.1	517.2	515.9	518.3	520.5
47.5°	515.9	514.6	511.4	510.1	512.4	514.9
48°	510.3	509.1	505.7	504.6	506.4	509.1
48.5°	504.2	503.4	500.1	499.0	500.9	503.6
49°	498.7	497.9	494.4	493.2	495.5	497.8
49.5°	493.4	491.9	488.5	487.3	489.7	492.0
50°	487.2	485.9	482.7	481.3	483.7	486.1
50.5°	481.0	480.0	476.7	475.4	477.5	480.4
51°	475.1	474.0	470.7	469.3	471.6	474.5
51.5°	469.3	468.0	464.7	463.6	465.8	468.4
52°	463.5	462.1	458.6	457.5	459.9	462.2
52.5°	457.3	456.0	452.6	451.3	453.7	456.4
53°	451.5	449.9	446.5	445.3	447.6	450.3
53.5°	445.3	443.6	440.3	439.2	441.5	444.1
54°	439.1	437.5	434.3	432.9	435.0	437.8
54.5°	433.1	431.3	428.0	427.0	429.2	431.9
55°	426.7	425.4	421.9	420.8	423.0	425.8
55.5°	420.8	419.1	415.7	414.6	416.8	419.5
56°	414.7	412.9	409.4	408.4	410.3	413.3
56.5°	408.2	406.5	403.1	402.0	404.2	406.9
57°	401.3	400.1	396.8	395.7	397.7	400.3
57.5°	395.0	393.8	390.4	389.4	391.4	394.4
58°	388.8	387.3	384.1	382.9	384.8	387.7
58.5°	381.9	380.8	377.7	376.5	378.1	381.1
59°	375.6	374.5	371.1	370.1	371.4	374.5
59.5°	369.4	368.1	364.6	363.8	365.3	368.1
60°	363.4	361.9	358.3	357.2	358.7	361.7
60.5°	356.3	355.2	351.6	350.5	352.1	355.0
61°	349.8	348.4	344.9	344.0	345.7	348.6
61.5°	343.7	341.7	338.4	337.5	339.2	342.0
62°	337.1	335.0	332.0	331.0	332.6	335.5
62.5°	330.3	328.3	325.4	324.4	326.0	328.9
63°	324.1	321.7	318.6	317.6	319.3	322.2
63.5°	316.9	315.0	311.7	311.1	312.6	315.6
64°	310.9	308.6	305.5	304.4	305.9	308.7
64.5°	304.3	302.2	298.7	297.9	299.3	301.6
65°	298.0	295.6	292.1	291.3	292.8	295.1
65.5°	291.2	289.0	285.4	284.5	286.1	288.7
66°	284.0	282.1	279.0	277.7	279.3	281.8



TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	263.9	262.0	258.8	257.4	258.9	261.6
68°	257.4	255.3	252.1	250.8	252.1	254.8
68.5°	251.1	248.6	245.6	244.2	245.5	248.0
69°	244.2	242.0	238.8	237.7	238.8	241.1
69.5°	237.4	235.2	231.9	231.1	232.1	234.4
70°	230.7	228.3	225.6	224.5	225.4	227.8
70.5°	224.1	221.9	219.0	217.9	218.8	220.8
71°	217.6	215.2	212.3	211.3	212.1	214.2
71.5°	210.9	208.5	205.5	204.7	205.2	207.5
72°	204.6	201.5	198.9	197.9	198.7	200.9
72.5°	197.8	195.1	192.4	191.4	192.0	194.0
73°	191.3	188.5	185.9	184.8	185.3	187.3
73.5°	184.3	181.8	179.4	178.3	178.7	181.0
74°	178.3	175.5	172.9	171.8	172.3	174.6
74.5°	171.4	168.9	166.2	165.1	165.6	167.9
75°	164.9	162.3	159.8	158.7	159.4	161.4
75.5°	158.7	156.2	153.5	152.3	152.9	154.9
76°	152.4	149.6	147.1	146.0	146.4	148.4
76.5°	146.2	143.4	140.6	139.7	140.1	142.1
77°	139.7	136.8	134.4	133.2	133.8	135.6
77.5°	133.3	130.7	128.1	127.1	127.6	129.3
78°	127.2	124.4	121.9	121.1	121.4	123.2
78.5°	120.9	118.3	115.8	114.8	115.2	116.9
79°	114.9	112.1	109.9	108.9	109.4	110.8
79.5°	108.8	106.1	103.7	102.8	103.3	104.8
80°	102.5	100.0	97.6	96.7	97.2	98.7
80.5°	96.8	93.9	91.7	91.0	91.4	92.8
81°	90.7	88.3	86.3	85.5	85.8	87.1
81.5°	84.9	82.5	80.5	79.8	80.1	81.2
82°	79.1	76.7	74.8	74.1	74.5	75.6
82.5°	73.5	71.0	69.1	68.4	68.6	69.9
83°	67.9	65.2	63.4	62.8	63.0	64.2
83.5°	62.4	59.5	57.9	57.2	57.7	58.8
84°	56.8	54.1	52.5	52.1	52.3	53.4
84.5°	51.7	48.7	47.3	46.8	47.0	48.1
85°	46.2	43.4	41.8	41.6	41.6	42.8
85.5°	41.0	38.2	36.7	36.5	36.7	37.7
86°	35.5	33.1	31.7	31.6	31.7	32.8
86.5°	30.9	28.0	26.9	26.8	27.0	28.0
87°	26.0	23.4	22.4	22.3	22.5	23.4
87.5°	21.4	18.8	17.8	17.9	18.1	19.1
88°	16.8	14.4	13.6	13.7	14.0	14.8
88.5°	12.5	10.3	9.6	9.8	10.1	10.9



TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	1.8	0.5	0.4	0.5	0.5	0.6
90.5°	0.1	0.3	0.3	0.3	0.3	0.3
91°	0.1	0.3	0.1	0.3	0.3	0.3
91.5°	0.1	0.3	0.1	0.3	0.3	0.3
92°	0.1	0.3	0.1	0.3	0.3	0.3
92.5°	0.1	0.3	0.1	0.3	0.3	0.3
93°	0.1	0.3	0.1	0.3	0.3	0.3
93.5°	0.1	0.3	0.1	0.3	0.3	0.3
94°	0.1	0.3	0.1	0.3	0.3	0.3
94.5°	0.1	0.3	0.1	0.3	0.3	0.3
95°	0.1	0.3	0.1	0.3	0.3	0.3
95.5°	0.1	0.3	0.1	0.3	0.3	0.3
96°	0.1	0.3	0.1	0.3	0.3	0.3
96.5°	0.1	0.5	0.1	0.3	0.3	0.3
97°	0.1	0.5	0.1	0.3	0.3	0.3
97.5°	0.2	0.4	0.1	0.3	0.3	0.3
98°	0.2	0.4	0.1	0.3	0.3	0.3
98.5°	0.2	0.4	0.1	0.3	0.3	0.3
99°	0.2	0.4	0.1	0.3	0.3	0.3
99.5°	0.3	0.4	0.1	0.3	0.3	0.3
100°	0.2	0.4	0.1	0.3	0.3	0.3
100.5°	0.3	0.4	0.1	0.3	0.3	0.3
101°	0.3	0.4	0.1	0.3	0.3	0.3
101.5°	0.3	0.4	0.1	0.3	0.3	0.3
102°	0.3	0.4	0.1	0.3	0.3	0.3
102.5°	0.3	0.4	0.1	0.3	0.3	0.3
103°	0.4	0.4	0.1	0.3	0.3	0.3
103.5°	0.3	0.4	0.1	0.3	0.3	0.3
104°	0.3	0.4	0.1	0.3	0.3	0.3
104.5°	0.3	0.5	0.2	0.3	0.3	0.4
105°	0.4	0.5	0.3	0.3	0.3	0.4
105.5°	0.5	0.5	0.2	0.3	0.3	0.4
106°	0.5	0.5	0.3	0.3	0.5	0.4
106.5°	0.5	0.5	0.5	0.4	0.5	0.5
107°	0.6	0.5	0.5	0.5	0.5	0.5
107.5°	0.6	0.6	0.6	0.5	0.5	0.5
108°	0.5	0.7	0.7	0.7	0.6	0.5
108.5°	0.5	0.7	0.7	0.7	0.6	0.5
109°	0.5	0.7	0.7	0.7	0.7	0.5
109.5°	0.6	0.7	0.8	0.8	0.7	0.6
110°	0.6	0.7	0.8	0.8	0.7	0.7
110.5°	0.7	0.7	0.7	0.7	0.7	0.7
111°	0.7	0.7	0.7	0.7	0.7	0.7



TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.7	0.7	0.8	0.7	0.7	0.7
113°	0.7	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°	0.8	0.7	0.6	0.7	0.7	0.7
115°	0.9	0.7	0.6	0.7	0.7	0.7
115.5°	0.9	0.7	0.6	0.7	0.7	0.8
116°	0.9	0.7	0.6	0.7	0.7	0.8
116.5°	0.9	0.7	0.6	0.7	0.7	0.7
117°	0.9	0.7	0.6	0.7	0.7	0.7
117.5°	1.0	0.7	0.6	0.7	0.7	0.7
118°	0.9	0.7	0.6	0.7	0.7	0.7
118.5°	0.9	0.8	0.7	0.7	0.7	0.7
119°	1.1	0.8	0.7	0.7	0.7	0.7
119.5°	1.1	0.7	0.7	0.8	0.7	0.7
120°	1.1	0.7	0.7	0.7	0.7	0.7
120.5°	1.1	0.7	0.7	0.9	0.7	0.7
121°	1.1	0.9	0.7	0.9	0.7	0.7
121.5°	1.2	0.8	0.8	0.8	0.7	0.7
122°	1.2	0.8	0.8	0.9	0.7	0.7
122.5°	1.2	0.9	0.7	0.9	0.7	0.8
123°	1.2	0.9	0.7	0.9	0.8	0.8
123.5°	1.2	0.9	0.7	0.9	0.8	0.8
124°	1.3	0.9	0.8	0.9	0.8	0.8
124.5°	1.3	0.9	0.8	0.9	0.8	0.8
125°	1.3	0.9	0.8	0.9	0.9	0.9
125.5°	1.3	0.9	0.8	1.0	0.9	1.0
126°	1.3	1.0	0.9	1.0	0.9	1.0
126.5°	1.3	1.0	0.9	1.0	0.9	0.9
127°	1.3	1.0	0.9	1.0	1.0	0.9
127.5°	1.3	1.0	1.1	1.1	1.0	0.9
128°	1.3	1.1	1.1	1.1	1.1	0.9
128.5°	1.3	1.1	1.1	1.1	1.1	0.9
129°	1.4	1.2	1.1	1.1	1.1	0.9
129.5°	1.3	1.5	1.1	1.2	1.1	0.9
130°	1.5	1.6	1.2	1.4	1.1	1.1
130.5°	1.5	1.7	1.2	1.5	1.2	1.1
131°	1.4	1.7	1.2	1.5	1.3	1.1
131.5°	1.4	1.7	1.2	1.6	1.5	1.1
132°	1.5	1.7	1.3	1.5	1.5	1.1
132.5°	1.5	1.8	1.3	1.6	1.5	1.2
133°	1.5	1.8	1.9	1.6	1.7	1.5
133.5°	1.5	1.8	1.9	1.7	1.7	1.6



TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	2.9	3.1	2.9	2.4	2.7	2.7
158°	2.9	3.3	3.0	2.5	2.7	2.7
158.5°	2.9	3.2	2.9	2.6	2.7	2.7
159°	2.9	3.3	3.1	2.6	2.7	2.7
159.5°	2.9	3.3	3.0	2.7	2.7	2.7
160°	2.9	3.5	3.0	2.7	2.7	2.7
160.5°	2.9	3.6	3.0	2.7	2.8	2.7
161°	3.0	3.6	3.0	2.7	2.8	2.7
161.5°	3.0	3.5	3.0	2.7	2.8	2.7
162°	3.1	3.5	3.0	2.7	2.8	2.7
162.5°	3.1	3.5	3.0	2.7	2.9	2.7
163°	3.1	3.5	3.0	2.7	2.9	2.8
163.5°	3.1	3.5	3.0	2.7	2.9	2.7
164°	3.1	3.5	3.0	2.8	2.9	2.9
164.5°	3.1	3.5	3.0	2.8	2.9	2.9
165°	3.1	3.5	3.0	2.8	2.9	2.8
165.5°	3.1	3.5	3.1	2.8	2.9	2.8
166°	3.1	3.5	3.1	2.9	2.9	2.8
166.5°	3.1	3.5	3.1	2.9	2.9	2.8
167°	3.1	3.5	3.1	2.9	2.9	2.8
167.5°	3.1	3.5	3.1	2.9	2.9	2.8
168°	3.1	3.5	3.1	2.9	2.9	2.8
168.5°	3.1	3.5	3.1	2.9	2.9	2.8
169°	3.1	3.5	3.1	2.9	2.9	2.8
169.5°	3.1	3.5	3.1	3.0	2.9	2.8
170°	3.1	3.5	3.1	3.0	2.9	2.8
170.5°	3.1	3.5	3.1	3.0	2.9	2.8
171°	3.1	3.5	3.1	3.0	2.9	2.8
171.5°	3.1	3.5	3.1	3.1	2.9	2.8
172°	3.1	3.5	3.1	3.0	2.9	2.8
172.5°	3.1	3.5	3.1	3.0	2.9	2.8
173°	3.1	3.5	3.1	3.0	2.9	2.8
173.5°	3.1	3.5	3.1	3.0	2.9	2.8
174°	3.1	3.5	3.1	3.0	2.9	2.8
174.5°	3.1	3.5	3.1	3.0	2.9	2.8
175°	3.1	3.4	3.1	3.0	2.9	2.8
175.5°	3.1	3.4	3.1	3.0	2.9	2.8
176°	3.1	3.4	3.1	3.0	2.9	2.8
176.5°	3.1	3.4	3.1	3.0	2.9	2.8
177°	3.1	3.4	3.1	3.1	2.9	2.8
177.5°	3.1	3.4	3.1	3.1	2.9	2.8
178°	3.1	3.5	3.1	3.1	2.9	2.8
178.5°	3.1	3.4	3.1	3.1	2.9	2.9



TEST NUMBER: P579682

CATALOG NUMBER: SMD14S209SWHE-EM - 4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	3.3	3.3	3.3	3.3	3.3	3.3



Report Generated By 670245859 / DESKTOP-HRDQ47P







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







21.5°	740.5	740.4	740.1	742.2	744.2	743.0	740.9	743.4	742.3	740.5	740.0
22°	737.9	736.9	737.3	739.3	740.5	740.3	737.7	739.9	740.2	737.6	736.5



44°	553.3	550.7	550.8	552.9	558.0	555.6	553.4	555.9	557.1	553.0	551.1
44.5°	548.1	545.3	545.3	547.6	552.4	550.2	548.0	550.6	550.8	547.6	546.4



66.5°	275.2	273.1	273.4	276.0	282.2	280.1	277.5	279.1	280.1	276.9	275.8
67°	268.1	266.3	266.5	269.3	275.5	273.3	271.0	272.1	273.2	270.0	269.6



89°	7.3	7.2	7.4	7.7	10.5	10.3	10.2	9.9	9.9	9.0	8.6
89.5°	3.5	3.7	4.1	4.2	7.0	7.0	6.8	6.4	6.2	5.7	5.3





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



134°	1.6	1.6	1.8	1.9	1.6	1.4	1.6	1.5	1.4	1.5	1.3
134.5°	1.5	1.7	1.7	1.9	1.5	1.3	1.7	1.5	1.4	1.5	1.3



156.5°	2.7	2.7	2.6	2.8	2.9	2.9	2.4	2.1	2.4	2.1	2.2
157°	2.7	2.7	2.7	2.7	3.0	3.0	2.5	2.3	2.4	2.2	2.3



179°	3.1	3.1	3.1	3.1	3.6	3.5	3.1	3.1	2.9	3.4	3.1
179.5°	3.2	3.1	3.1	3.1	3.6	3.5	3.1	3.1	2.9	3.4	3.1





21.5°	742.6	741.6	740.9	739.3	740.8	740.5
22°	739.5	738.5	738.0	736.5	738.0	737.9



44°	553.9	553.2	550.0	548.8	550.9	553.3
44.5°	549.0	548.1	544.6	543.5	545.6	548.1



66.5°	277.6	275.3	272.2	270.9	272.5	275.2
67°	271.1	268.6	265.7	264.2	265.6	268.1





89°	8.5	6.3	5.9	6.3	6.5	7.3
89.5°	5.0	2.7	2.5	2.8	2.9	3.5



111.5°	0.7	0.7	0.7	0.7	0.7	0.7
112°	0.7	0.7	0.5	0.7	0.7	0.7



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



156.5°	2.7	3.1	2.8	2.3	2.6	2.7
157°	2.7	3.1	2.7	2.3	2.7	2.7



179°	3.1	3.4	3.1	3.1	2.9	3.1
179.5°	3.1	3.5	3.1	3.1	2.9	3.2



(END OF REPORT)