

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: P579683

Luminaire Tested: **SMD14S209SWHE-EM - 5000K**

Issue Date: 11/23/2021



Test Information

Test Method: LM-41-14
Report Number: P579683
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 - 5000K
Description: SMD SELECTABLE CCT 5000K
Light Source: SELECTABLE CCT LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

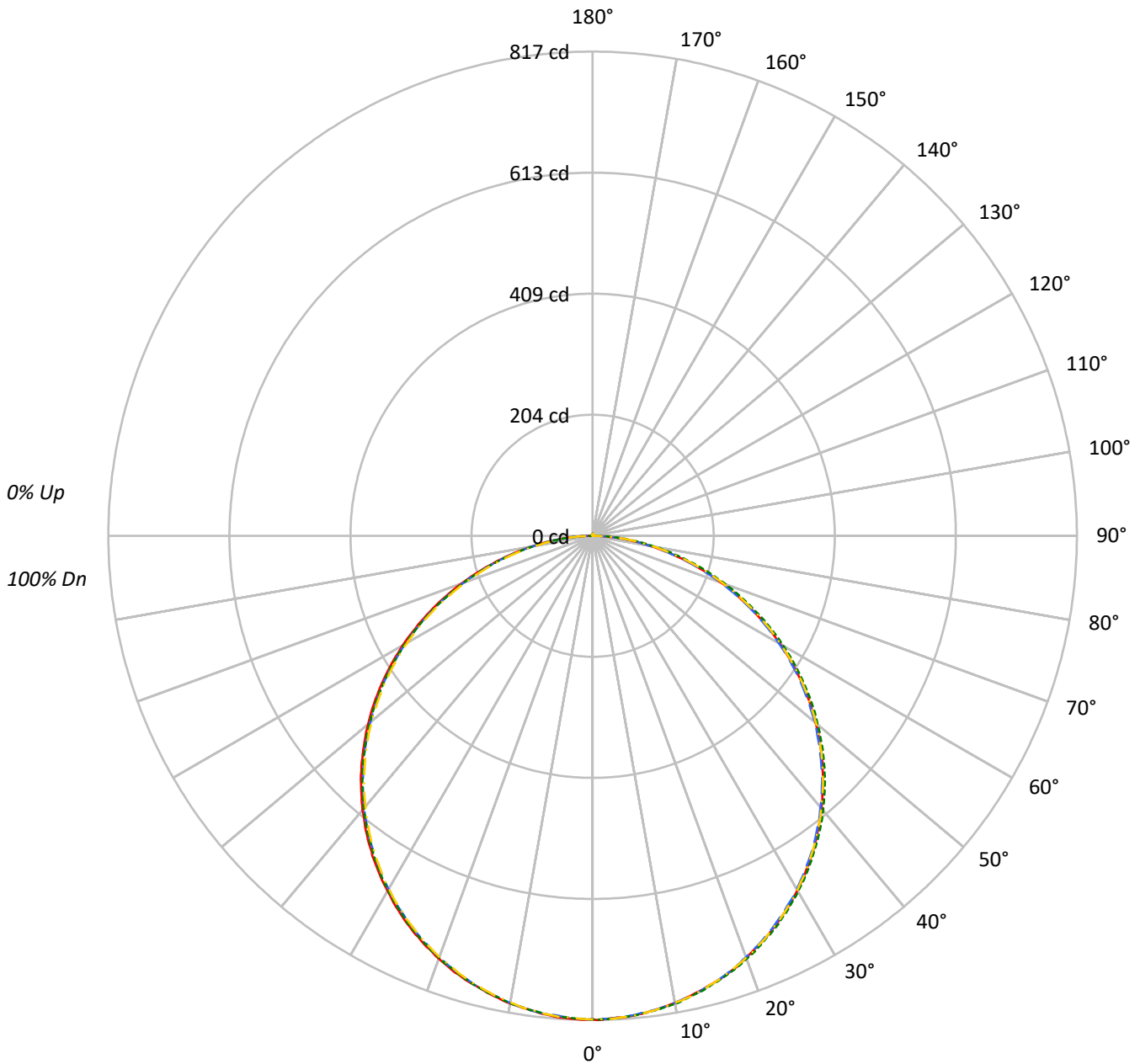
Lumens per Lamp: N/A
Luminaire Lumens: 2375.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 29.4
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									
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	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°	8786	8786	8786	8786
5°	8776	8781	8780	8772
10°	8751	8767	8758	8752
15°	8714	8729	8725	8721
20°	8683	8701	8695	8679
25°	8636	8670	8658	8640
30°	8586	8616	8600	8584
35°	8520	8558	8548	8514
40°	8441	8500	8487	8441
45°	8348	8420	8398	8348
50°	8225	8308	8279	8224
55°	8077	8171	8146	8068
60°	7868	8006	7965	7875
65°	7598	7773	7720	7610
70°	7245	7497	7402	7264
75°	6783	7120	6991	6825
80°	6180	6676	6484	6267
85°	5348	6175	5891	5422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	3.2
10°-20°	220.9	9.3
20°-30°	335.1	14.1
30°-40°	405.4	17.1
40°-50°	422.6	17.8
50°-60°	384.3	16.2
60°-70°	296.0	12.5
70°-80°	174.8	7.4
80°-90°	51.6	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°	1.2	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	633.2	26.7
0°-40°	1038.6	43.7
0°-60°	1845.5	77.7
0°-90°	2367.9	99.7
90°-120°	1.4	0.1
90°-150°	4.8	0.2
90°-180°	7.0	0.3
0°-180°	2375.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	816	816	816	816	816	
5°	812	813	813	812	812	77
15°	782	783	783	783	782	221
25°	727	730	729	728	727	335
35°	648	651	650	648	648	406
45°	548	553	552	548	548	423
55°	430	435	434	430	430	384
65°	298	305	303	299	298	295
75°	163	171	168	164	163	173
85°	43	50	48	44	43	47
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°	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2	816.2
0.5°	817.3	815.9	815.1	816.7	816.3	816.7	816.2	816.4	816.7	816.2	816.4
1°	816.9	814.9	815.3	816.7	816.4	816.8	815.8	816.0	817.1	816.3	816.2
1.5°	815.9	814.7	815.4	815.9	816.1	815.8	816.4	816.7	816.9	816.0	815.4
2°	815.3	815.7	815.7	816.0	815.6	816.7	816.2	816.7	816.2	815.8	815.1
2.5°	814.7	815.2	815.0	816.5	814.9	816.5	815.3	816.2	815.9	815.3	814.7
3°	814.0	814.2	814.1	815.3	814.7	816.1	814.7	815.3	815.3	813.3	813.7
3.5°	814.2	813.6	814.3	814.7	814.2	815.0	814.1	815.8	815.0	813.4	813.6
4°	813.7	812.2	813.4	814.3	813.5	815.0	813.8	815.4	814.9	813.2	812.0
4.5°	812.9	812.5	812.2	813.7	813.3	814.0	813.5	814.6	813.8	813.1	811.2
5°	812.2	811.3	811.8	812.7	812.7	813.1	812.7	813.6	812.6	812.2	811.0
5.5°	811.2	810.7	810.6	811.6	811.4	812.7	811.9	812.7	811.7	811.7	810.6
6°	811.0	809.9	808.6	810.3	810.2	812.3	810.7	810.9	811.2	810.7	810.5
6.5°	809.4	808.7	807.8	810.6	809.7	811.4	809.3	810.9	809.7	809.7	808.8
7°	807.8	807.9	807.8	809.6	808.5	810.0	808.6	810.3	808.5	807.5	808.4
7.5°	807.3	806.9	806.5	808.6	807.8	809.0	807.4	809.1	807.1	806.5	807.5
8°	805.9	805.4	805.6	806.8	807.0	807.8	805.9	808.0	806.2	805.9	805.7
8.5°	804.3	803.7	804.3	805.9	805.2	806.5	804.5	806.6	805.1	804.6	803.7
9°	803.0	802.8	802.6	804.4	804.4	804.7	803.2	805.6	803.7	803.2	803.5
9.5°	801.4	801.7	801.7	803.0	803.1	803.4	801.6	803.7	802.6	802.2	802.0
10°	800.6	800.4	800.0	801.8	802.1	802.5	799.9	803.2	801.3	801.0	800.6
10.5°	799.1	798.7	798.5	800.5	801.0	800.1	798.8	800.9	800.2	799.1	799.1
11°	796.9	797.2	797.1	799.0	798.6	798.7	797.9	798.4	798.4	797.2	797.3
11.5°	795.2	795.7	795.8	797.5	796.4	797.4	795.9	797.4	796.1	795.7	795.4
12°	793.6	794.0	794.6	795.3	794.6	795.9	794.8	795.8	794.9	794.9	793.5
12.5°	791.5	792.5	792.8	793.5	793.0	794.0	791.6	794.3	792.8	792.7	791.5
13°	790.0	789.7	790.7	791.7	791.3	791.9	790.5	792.2	791.1	790.7	790.2
13.5°	788.2	787.7	788.7	789.8	789.9	789.7	788.6	790.0	788.5	788.9	787.8
14°	786.0	786.1	786.2	787.9	788.2	787.3	787.0	788.5	786.9	786.2	786.2
14.5°	783.9	784.0	784.3	786.0	785.4	785.8	783.7	785.5	784.6	784.5	784.8
15°	782.0	782.2	782.8	783.8	783.3	783.5	782.2	783.9	783.0	782.0	782.2
15.5°	780.1	779.8	780.3	781.1	781.5	781.6	780.4	781.2	781.4	779.5	779.3
16°	778.7	777.7	777.9	778.8	779.6	779.8	778.5	779.1	779.3	777.9	777.0
16.5°	776.1	776.0	775.6	776.8	776.9	777.6	775.8	776.5	776.8	775.9	774.9
17°	773.9	773.2	773.2	774.5	774.9	775.4	773.2	774.6	774.1	773.1	772.4
17.5°	771.4	770.2	770.6	772.2	772.6	773.1	771.3	772.7	772.6	770.5	770.4
18°	769.2	767.6	768.1	769.5	770.4	770.4	768.4	769.0	770.3	768.5	767.5
18.5°	766.8	765.0	765.2	767.1	768.0	767.6	765.8	767.7	766.8	765.7	765.3
19°	764.0	762.7	762.5	764.3	765.4	764.7	762.9	765.1	764.4	763.0	761.9
19.5°	760.8	760.2	759.1	761.3	762.5	762.1	760.5	762.1	762.0	760.7	759.5
20°	758.0	756.4	756.6	758.5	759.6	759.5	757.5	759.5	759.1	757.9	757.3
20.5°	754.7	753.5	753.9	755.6	757.2	757.0	754.8	756.3	756.6	754.2	754.1
21°	751.6	751.0	751.2	752.7	754.8	754.1	752.5	753.6	753.1	751.6	750.8



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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°	743.0	741.4	742.1	744.0	745.3	745.0	743.1	744.7	745.2	742.7	741.6
23°	740.2	738.8	738.7	741.3	742.0	741.9	740.3	741.5	741.9	739.5	738.9
23.5°	737.0	735.7	735.3	738.3	738.4	739.1	736.9	738.9	738.3	736.2	735.3
24°	733.8	732.5	732.1	735.0	736.3	735.4	733.3	736.0	735.8	733.4	732.3
24.5°	730.5	729.3	729.1	731.5	733.1	732.0	731.0	732.1	732.4	729.9	728.7
25°	727.1	725.8	725.5	728.4	730.0	728.7	726.6	728.8	729.0	726.1	725.3
25.5°	723.6	722.2	721.8	724.8	726.6	725.5	723.2	725.1	725.7	723.2	721.7
26°	720.3	718.8	718.4	721.1	722.6	722.1	720.3	721.6	722.6	719.6	718.5
26.5°	716.7	714.8	715.1	717.5	719.0	718.5	716.9	718.0	718.9	715.8	715.0
27°	713.4	711.4	711.5	714.3	716.1	714.9	713.3	714.7	714.8	713.0	711.5
27.5°	709.8	708.2	707.6	710.5	712.6	711.7	709.3	710.0	711.3	709.3	707.8
28°	706.2	704.3	704.0	706.4	708.4	707.8	705.4	706.9	708.1	705.0	704.3
28.5°	702.3	700.4	700.5	702.8	704.1	703.8	702.2	703.2	704.1	701.5	700.6
29°	698.5	696.2	696.8	699.1	701.0	700.0	698.6	699.7	700.0	698.3	697.5
29.5°	694.6	692.3	692.8	695.3	697.1	696.1	694.5	695.6	695.8	694.1	692.0
30°	690.8	688.7	688.7	691.5	693.2	692.1	690.9	691.7	691.9	690.2	688.7
30.5°	686.8	684.6	684.5	687.5	689.2	688.2	686.2	687.6	688.2	686.1	684.3
31°	682.8	680.5	680.3	683.4	685.3	684.0	681.8	683.8	684.7	682.0	680.5
31.5°	678.8	676.8	676.2	679.4	681.7	679.9	678.3	679.8	680.7	678.1	676.0
32°	674.4	672.4	672.2	675.1	677.6	675.9	674.3	675.9	676.3	674.5	672.1
32.5°	670.1	668.0	667.7	670.9	673.1	671.5	669.7	671.9	672.2	670.2	669.0
33°	665.7	663.6	663.4	666.4	669.2	667.3	665.4	667.7	667.7	665.3	664.7
33.5°	661.6	659.3	659.3	662.2	664.7	663.1	660.9	663.0	663.7	660.9	659.5
34°	657.2	654.9	655.2	657.7	660.4	658.7	656.4	658.8	659.9	656.6	654.6
34.5°	652.7	650.5	650.8	653.3	655.7	654.2	652.2	655.3	655.7	652.3	650.8
35°	648.4	646.0	646.2	648.9	651.3	649.9	647.6	651.4	650.5	647.8	646.4
35.5°	643.9	641.6	641.5	644.5	646.9	645.4	643.5	646.1	646.2	643.7	642.1
36°	639.3	637.0	637.2	640.0	642.6	641.0	638.9	641.5	642.0	639.0	637.7
36.5°	634.5	632.3	632.5	635.6	638.2	636.3	633.9	636.4	637.4	634.3	633.8
37°	629.9	627.3	627.5	630.8	633.5	631.8	629.3	631.7	632.2	630.3	628.3
37.5°	625.0	622.5	622.7	626.1	629.0	627.2	625.0	626.9	628.2	625.1	624.1
38°	620.1	617.8	617.9	621.1	624.1	622.2	620.2	621.9	623.6	621.1	619.1
38.5°	615.3	613.0	613.1	616.2	619.6	617.5	615.1	617.8	618.2	615.9	614.1
39°	610.5	608.2	608.4	611.3	614.9	612.9	610.5	612.4	613.1	611.0	609.8
39.5°	605.7	603.4	603.2	606.5	609.8	608.0	605.2	608.0	608.1	605.5	604.9
40°	600.7	598.3	598.2	601.3	604.9	602.8	600.0	602.8	604.0	600.7	599.6
40.5°	595.6	593.4	593.0	596.1	599.8	597.7	594.8	597.9	598.5	595.6	594.1
41°	590.4	588.1	588.0	590.8	594.7	593.1	590.1	592.8	593.8	590.7	589.3
41.5°	585.2	583.0	582.7	585.7	589.6	588.0	585.3	587.6	588.4	585.5	583.9
42°	580.0	577.8	577.5	580.4	584.7	582.8	579.9	582.2	583.3	580.0	579.2
42.5°	575.1	572.7	572.6	575.3	579.5	577.3	575.0	577.4	578.0	575.2	573.5
43°	569.9	567.5	567.6	569.8	574.3	572.2	570.0	572.3	573.0	570.1	567.9
43.5°	564.5	562.2	562.2	564.3	569.5	567.0	564.5	566.6	568.1	564.3	562.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	548.4	545.6	545.5	548.2	553.1	550.5	548.6	550.6	551.7	547.8	546.9
45.5°	543.1	540.3	540.1	542.8	547.4	545.0	542.8	544.7	546.1	542.1	541.8
46°	537.4	534.7	534.6	537.1	541.9	539.7	537.4	539.3	540.2	536.8	536.4
46.5°	531.8	529.4	528.9	531.3	536.4	534.4	532.2	533.4	535.0	531.9	530.6
47°	526.0	523.5	523.2	525.8	530.9	528.9	526.3	527.9	528.9	526.0	525.1
47.5°	520.4	517.9	517.6	520.2	524.8	522.8	520.6	522.6	523.1	519.8	518.8
48°	514.5	512.1	511.8	514.4	519.3	517.4	514.9	516.9	517.7	514.1	513.2
48.5°	509.0	506.4	506.1	508.7	513.5	511.6	508.7	511.0	511.7	509.0	507.3
49°	503.1	500.6	500.7	503.1	507.9	506.0	503.1	505.4	506.5	502.8	501.5
49.5°	497.3	494.8	495.0	497.2	502.0	500.2	497.5	499.6	500.4	497.4	495.5
50°	491.2	488.9	489.0	491.3	496.1	494.2	492.0	493.4	494.4	491.2	489.6
50.5°	485.5	482.9	482.6	485.1	490.0	488.2	485.8	487.7	488.7	485.4	483.7
51°	479.5	476.8	476.5	479.2	484.5	482.5	479.8	481.6	482.6	479.4	477.7
51.5°	473.4	470.8	470.4	473.1	478.7	476.6	474.0	476.1	476.9	473.8	471.9
52°	467.1	464.9	464.5	467.4	472.5	470.3	468.0	469.7	470.8	467.1	466.1
52.5°	461.3	458.5	458.4	461.0	466.6	464.5	462.0	464.0	465.0	461.0	459.9
53°	455.0	452.4	452.3	455.0	460.6	458.2	455.7	457.1	458.7	455.2	453.8
53.5°	448.8	446.2	446.1	449.0	454.4	452.1	449.8	451.2	452.0	448.9	447.5
54°	442.4	440.0	439.8	442.7	448.3	445.9	443.6	444.7	446.2	443.1	441.7
54.5°	436.5	434.1	433.6	436.7	442.2	439.8	437.4	438.5	440.4	437.0	435.8
55°	430.4	427.8	427.6	430.5	435.4	433.7	431.4	432.5	434.1	430.9	429.6
55.5°	424.0	421.4	421.1	424.0	429.3	427.5	424.9	426.3	427.6	424.2	423.2
56°	417.7	415.1	414.9	417.7	423.1	421.1	418.7	419.9	421.5	417.9	417.1
56.5°	411.2	408.5	408.4	411.2	416.7	414.8	412.4	413.6	415.0	411.7	410.5
57°	404.6	402.1	402.2	404.9	410.4	408.5	406.0	407.3	408.5	405.6	403.9
57.5°	398.6	395.6	395.7	398.5	404.0	402.1	399.4	400.8	402.1	399.2	397.4
58°	391.9	389.2	389.2	392.0	398.0	395.7	393.0	394.2	395.8	392.8	391.2
58.5°	385.2	382.7	382.6	385.5	391.4	389.2	386.9	387.5	389.4	386.4	384.6
59°	378.5	376.3	376.2	379.2	384.7	382.4	380.2	380.8	382.8	379.6	378.2
59.5°	372.0	369.8	369.7	372.5	378.1	376.2	373.5	374.6	376.5	373.1	371.4
60°	365.5	363.3	363.2	365.7	371.9	370.0	367.1	368.4	370.0	366.6	365.2
60.5°	358.8	356.7	356.6	358.9	365.3	363.3	360.7	361.6	363.7	360.2	358.4
61°	352.4	350.2	349.8	352.3	358.8	356.5	354.0	354.8	357.1	353.4	351.8
61.5°	345.7	343.5	343.4	345.6	352.1	349.7	347.2	348.3	350.0	346.9	345.4
62°	339.1	336.9	336.5	339.0	345.7	343.7	341.0	341.8	343.3	340.6	338.7
62.5°	332.4	330.2	329.9	332.5	339.2	336.8	334.2	335.3	336.6	333.9	331.8
63°	325.7	323.4	323.3	325.6	332.4	329.4	327.5	328.4	330.1	327.0	325.6
63.5°	319.0	316.7	316.8	318.8	325.7	323.3	320.9	321.9	323.4	320.4	318.7
64°	312.0	309.8	310.1	312.3	318.8	316.2	314.2	315.2	316.5	313.9	312.1
64.5°	304.9	303.1	303.4	305.6	311.8	309.8	307.4	308.6	309.9	307.1	305.3
65°	298.3	296.3	296.8	299.1	305.2	302.9	300.8	302.0	303.1	300.1	298.4
65.5°	291.7	289.6	290.0	292.4	298.5	296.4	294.0	295.5	296.5	293.9	291.9
66°	284.8	282.8	283.1	285.7	292.0	289.7	287.3	288.8	289.7	286.9	285.2



TEST NUMBER: P579683

CATALOG NUMBER: SMD14S209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	264.4	262.4	262.6	265.2	271.7	269.6	266.9	268.3	269.4	266.1	264.9
68°	257.5	255.6	256.0	258.5	265.0	262.7	260.3	261.5	262.6	259.6	258.2
68.5°	250.7	248.9	249.2	251.8	258.4	256.0	253.7	254.6	255.9	253.0	251.5
69°	243.6	242.1	242.6	245.1	251.8	249.6	247.5	247.9	248.9	246.3	245.2
69.5°	236.9	235.2	235.8	238.2	244.6	242.6	240.1	241.0	242.2	239.5	238.1
70°	230.2	228.5	229.1	231.5	238.2	235.7	233.7	234.4	235.2	232.8	231.4
70.5°	223.2	222.0	222.5	224.9	231.7	229.3	227.4	227.7	228.6	226.2	224.8
71°	216.5	215.3	215.8	218.0	224.5	222.7	220.6	221.0	221.9	219.1	218.4
71.5°	209.8	208.5	209.2	211.3	217.9	215.8	213.8	214.3	215.2	212.7	211.8
72°	203.1	201.8	202.2	204.4	211.2	209.2	207.0	207.4	208.3	205.6	205.0
72.5°	196.1	195.2	195.6	197.5	204.8	202.6	200.5	200.8	201.3	199.1	198.2
73°	189.3	188.5	189.1	191.2	198.0	195.9	193.6	194.1	194.8	192.2	191.6
73.5°	182.9	181.9	182.4	184.5	191.3	189.2	187.2	187.4	188.2	185.9	185.3
74°	176.4	175.1	175.8	177.8	184.5	182.9	180.4	180.7	181.5	179.1	178.5
74.5°	169.7	168.5	169.3	171.1	178.0	176.2	173.8	174.0	174.9	172.7	171.7
75°	163.1	162.0	162.8	164.8	171.2	169.5	167.4	167.6	168.1	166.2	165.2
75.5°	156.5	155.8	156.4	158.2	165.0	163.0	161.0	161.1	161.8	159.6	159.0
76°	150.0	149.0	149.8	151.8	158.5	156.8	154.6	154.9	155.5	153.1	152.5
76.5°	143.6	142.7	143.5	145.0	151.9	150.3	148.0	148.4	148.8	146.8	146.0
77°	137.0	136.2	136.9	138.9	145.4	143.9	141.5	142.0	142.2	140.3	139.6
77.5°	130.6	129.9	130.9	132.7	139.2	137.5	135.3	135.4	135.8	134.2	133.4
78°	124.5	123.5	124.4	126.5	132.7	130.9	129.0	129.1	129.5	127.8	127.2
78.5°	118.2	117.4	118.5	120.5	126.5	125.0	122.8	122.6	123.3	121.5	121.1
79°	112.0	111.1	112.3	114.4	120.2	118.6	116.6	116.4	117.1	115.2	114.7
79.5°	105.9	105.1	106.2	108.3	114.0	112.4	110.6	110.2	110.7	109.1	108.7
80°	99.7	99.2	100.0	102.2	107.7	106.3	104.5	104.3	104.6	102.9	102.6
80.5°	93.8	93.2	94.0	96.0	101.8	100.2	98.4	98.3	98.6	96.9	96.8
81°	88.0	87.7	88.4	90.3	95.6	94.1	92.6	92.3	92.5	91.1	90.9
81.5°	82.1	81.8	82.7	84.5	89.8	88.3	86.8	86.6	86.6	85.1	85.0
82°	76.4	76.0	77.0	78.7	83.6	82.5	80.9	80.6	80.7	79.3	78.9
82.5°	70.6	70.2	71.1	72.8	77.9	76.7	74.9	75.0	74.9	73.6	73.4
83°	64.9	64.5	65.5	67.0	72.2	71.1	69.5	69.3	69.3	68.0	67.7
83.5°	59.4	59.0	60.0	61.4	66.6	65.4	63.9	63.6	63.8	62.4	61.9
84°	54.0	53.6	54.6	55.8	60.8	59.9	58.4	58.2	58.3	56.9	56.6
84.5°	48.6	48.3	49.1	50.4	55.3	54.5	53.0	52.9	53.0	51.7	51.2
85°	43.3	43.0	43.7	44.9	50.0	49.0	47.5	47.5	47.7	46.4	45.9
85.5°	38.1	38.0	38.6	39.5	44.5	43.7	42.5	42.3	42.5	41.1	40.7
86°	33.1	32.8	33.5	34.3	39.3	38.4	37.2	37.3	37.4	36.1	35.7
86.5°	28.3	27.9	28.6	29.4	34.2	33.5	32.3	32.4	32.4	31.1	30.7
87°	23.7	23.5	23.9	24.5	29.0	28.5	27.5	27.5	27.5	26.3	25.8
87.5°	19.3	19.0	19.5	20.0	24.0	23.5	22.7	22.9	23.0	21.7	21.2
88°	15.0	14.8	15.2	15.7	19.5	19.1	18.4	18.4	18.5	17.3	16.8
88.5°	11.0	10.9	11.2	11.5	14.8	14.7	14.1	14.1	14.1	12.9	12.4



TEST NUMBER: P579683

CATALOG NUMBER: SMD14S209SWHE-EM - 5000K

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	3.5	3.2	2.8	2.2	2.1
90.5°	0.3	0.4	0.4	0.3	0.7	0.7	0.5	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: P579683

CATALOG NUMBER: SMD14S209SWHE-EM - 5000K

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	1.2	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	1.4	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	1.6	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	1.6	1.2	1.5	1.4	1.3	1.5	1.3
132.5°	1.2	1.6	1.7	1.3	1.6	1.3	1.7	1.4	1.3	1.4	1.3
133°	1.5	1.6	1.7	1.3	1.6	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: P579683

CATALOG NUMBER: SMD14S209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.6	1.7	1.7	1.8	1.7	1.3	1.7	1.5	1.5	1.5	1.3
135.5°	1.6	1.8	1.7	2.0	1.7	1.3	1.7	1.5	1.5	1.6	1.3
136°	1.6	1.8	1.7	2.0	1.7	1.3	1.7	1.5	1.5	1.6	1.3
136.5°	1.6	1.8	1.7	1.9	1.7	1.4	1.7	1.6	1.5	1.6	1.3
137°	1.6	1.8	1.7	1.9	1.7	1.4	1.8	1.6	1.6	1.6	1.3
137.5°	1.7	1.8	1.7	1.9	1.7	1.4	1.8	1.6	1.6	1.5	1.4
138°	1.7	1.8	1.7	1.9	1.7	1.4	1.8	1.6	1.6	1.5	1.4
138.5°	1.6	1.8	1.7	1.9	1.8	1.5	1.8	1.6	1.6	1.7	1.4
139°	1.6	1.8	1.7	1.9	1.8	1.5	1.9	1.6	1.6	1.7	1.5
139.5°	1.6	1.8	1.7	1.9	1.8	1.4	1.9	1.6	1.6	1.7	1.5
140°	1.6	1.8	1.7	1.9	1.8	1.4	1.8	1.6	1.7	1.7	1.5
140.5°	1.6	1.8	1.8	1.9	1.8	1.5	1.8	1.6	1.7	1.7	1.5
141°	1.6	1.8	1.9	1.9	1.8	1.6	1.8	1.6	1.6	1.7	1.5
141.5°	1.7	1.8	1.8	1.9	1.8	1.6	1.8	1.6	1.6	1.7	1.5
142°	1.6	1.8	1.8	1.9	1.8	1.6	1.8	1.6	1.8	1.7	1.5
142.5°	1.8	1.8	1.8	1.9	1.8	1.6	1.8	1.8	1.7	1.8	1.5
143°	1.8	1.9	1.8	1.9	2.0	1.6	1.8	1.8	1.8	1.8	1.5
143.5°	1.7	1.9	1.8	1.9	2.0	1.6	1.8	1.8	1.7	1.8	1.5
144°	1.8	1.8	1.8	1.9	2.0	1.6	1.8	1.8	1.8	1.8	1.6
144.5°	1.8	1.8	1.8	1.9	1.9	1.7	1.8	1.8	1.8	1.8	1.6
145°	1.9	1.9	1.8	2.0	2.0	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	1.8	1.9	1.5
146°	1.9	2.0	1.9	2.0	2.0	1.8	1.8	1.8	1.9	1.8	1.6
146.5°	2.0	2.0	1.9	2.0	2.1	1.8	1.8	2.0	1.9	1.8	1.7
147°	2.0	2.0	1.9	2.0	2.1	1.8	1.8	2.0	2.0	1.8	1.7
147.5°	2.0	2.2	1.9	2.0	2.1	1.9	1.8	1.9	2.0	1.8	1.6
148°	2.1	2.1	1.9	2.1	2.2	2.0	1.8	1.9	2.0	1.8	1.6
148.5°	2.1	2.2	1.9	2.2	2.2	2.0	1.8	2.0	2.0	1.8	1.6
149°	2.2	2.2	1.9	2.2	2.3	2.0	1.8	2.0	2.0	1.9	1.6
149.5°	2.2	2.3	1.9	2.3	2.2	2.1	1.8	2.0	2.0	1.9	1.7
150°	2.3	2.3	2.0	2.4	2.4	2.1	1.8	2.0	2.2	1.9	1.7
150.5°	2.4	2.3	2.0	2.6	2.3	2.2	1.8	2.0	2.2	2.0	1.7
151°	2.6	2.3	2.0	2.6	2.4	2.2	1.8	2.0	2.1	2.0	1.8
151.5°	2.6	2.4	2.0	2.6	2.5	2.2	2.0	2.1	2.1	2.0	1.8
152°	2.6	2.4	2.0	2.7	2.5	2.3	2.0	2.0	2.2	2.0	1.8
152.5°	2.6	2.5	2.0	2.7	2.6	2.3	2.0	2.0	2.2	2.0	1.9
153°	2.6	2.4	2.0	2.8	2.6	2.4	2.0	2.0	2.2	2.0	2.0
153.5°	2.8	2.4	2.1	2.8	2.7	2.4	2.1	2.0	2.3	2.0	2.0
154°	2.8	2.6	2.1	2.8	2.8	2.6	2.1	2.0	2.2	2.0	2.0
154.5°	2.8	2.6	2.2	2.8	2.8	2.6	2.2	2.1	2.2	2.1	2.0
155°	2.8	2.6	2.5	2.8	2.8	2.7	2.2	2.1	2.2	2.0	2.0
155.5°	2.8	2.6	2.5	2.8	2.8	2.8	2.4	2.2	2.4	2.1	2.2
156°	2.8	2.8	2.6	2.8	3.0	2.8	2.4	2.2	2.4	2.2	2.2



TEST NUMBER: P579683

CATALOG NUMBER: SMD14S209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	2.8	2.7	2.7	2.9	3.0	3.0	2.5	2.2	2.4	2.2	2.4
158°	2.8	2.8	2.7	2.8	3.2	3.2	2.6	2.4	2.4	2.4	2.4
158.5°	2.8	2.8	2.7	2.9	3.3	3.3	2.8	2.4	2.4	2.4	2.5
159°	2.8	2.8	2.7	3.0	3.4	3.3	2.8	2.4	2.4	2.5	2.6
159.5°	2.8	2.8	2.7	2.9	3.4	3.4	2.8	2.5	2.5	2.6	2.6
160°	2.8	2.8	2.7	2.9	3.4	3.4	2.9	2.6	2.5	2.7	2.8
160.5°	2.8	2.8	2.7	2.9	3.4	3.4	3.0	2.7	2.5	2.8	2.8
161°	2.8	2.8	2.7	2.9	3.4	3.4	3.0	2.8	2.6	2.8	2.9
161.5°	2.8	2.8	2.7	2.9	3.4	3.4	3.2	2.9	2.6	2.8	2.8
162°	2.8	2.8	2.8	2.9	3.4	3.4	3.2	2.8	2.7	2.8	2.9
162.5°	2.8	2.8	2.8	2.9	3.4	3.4	3.1	3.0	2.8	2.8	3.0
163°	2.8	2.9	2.8	3.0	3.4	3.4	3.1	3.0	2.9	2.8	3.0
163.5°	2.8	2.9	2.9	3.0	3.4	3.4	3.1	3.0	2.9	2.8	3.1
164°	2.9	2.9	2.9	3.1	3.4	3.4	3.1	3.2	2.9	2.8	3.1
164.5°	2.9	3.0	2.9	3.0	3.4	3.4	3.1	3.2	2.9	2.8	3.1
165°	2.8	3.0	3.0	3.0	3.4	3.4	3.1	3.1	2.9	2.8	3.1
165.5°	2.8	3.0	3.0	3.1	3.4	3.4	3.1	3.1	2.9	2.9	3.1
166°	2.8	3.0	3.0	3.1	3.4	3.4	3.1	3.1	2.9	3.0	3.1
166.5°	2.8	3.0	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.0	3.1
167°	2.8	3.1	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.0	3.1
167.5°	2.8	3.2	3.0	3.1	3.4	3.4	3.1	3.1	2.9	3.0	3.1
168°	2.8	3.2	3.0	3.1	3.4	3.4	3.1	3.1	2.9	3.0	3.1
168.5°	2.8	3.1	3.0	3.1	3.4	3.4	3.1	3.1	2.9	3.1	3.1
169°	2.8	3.1	3.0	3.1	3.4	3.4	3.1	3.1	2.9	3.1	3.1
169.5°	2.8	3.1	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.2	3.1
170°	2.8	3.1	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.2	3.1
170.5°	2.8	3.1	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.2	3.1
171°	2.8	3.1	3.2	3.1	3.4	3.4	3.1	3.1	2.9	3.2	3.1
171.5°	2.8	3.1	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.3	3.1
172°	2.8	3.1	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.3	3.1
172.5°	2.8	3.1	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.4	3.1
173°	2.8	3.1	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.3	3.1
173.5°	2.8	3.1	3.1	3.1	3.4	3.5	3.1	3.1	2.9	3.3	3.1
174°	2.8	3.1	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.3	3.1
174.5°	2.8	3.1	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.3	3.1
175°	2.8	3.1	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.3	3.1
175.5°	2.8	3.1	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.4	3.1
176°	2.8	3.1	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.4	3.1
176.5°	2.8	3.1	3.1	3.1	3.4	3.4	3.1	3.1	2.9	3.4	3.1
177°	2.8	3.1	3.1	3.1	3.4	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	3.6	3.5	3.1	3.1	2.9	3.4	3.1
178.5°	3.0	3.1	3.1	3.1	3.6	3.5	3.1	3.1	2.9	3.4	3.1



TEST NUMBER: P579683

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4



TEST NUMBER: P579683

CATALOG NUMBER: SMD14S209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	816.2	816.2	816.2	816.2	816.2	816.2
0.5°	816.3	816.3	816.1	816.0	816.3	817.3
1°	817.2	815.5	816.0	815.7	815.8	816.9
1.5°	817.0	814.9	815.8	815.6	816.0	815.9
2°	816.8	815.2	815.3	814.8	815.9	815.3
2.5°	816.5	814.6	815.0	813.5	815.3	814.7
3°	816.2	814.3	815.3	813.7	814.3	814.0
3.5°	815.6	813.5	814.5	813.7	813.9	814.2
4°	815.3	813.1	814.3	813.8	813.4	813.7
4.5°	814.8	813.0	813.9	812.6	813.6	812.9
5°	813.9	811.8	813.3	811.8	812.2	812.2
5.5°	812.7	811.1	812.4	811.3	811.4	811.2
6°	810.6	810.1	810.7	810.0	810.7	811.0
6.5°	810.8	808.8	809.8	809.1	809.2	809.4
7°	810.0	807.7	808.6	807.6	807.2	807.8
7.5°	809.4	807.3	806.9	806.6	806.2	807.3
8°	807.4	805.4	806.2	806.3	805.0	805.9
8.5°	804.7	804.2	805.2	804.9	804.0	804.3
9°	804.1	803.1	804.8	802.7	803.3	803.0
9.5°	803.1	802.4	803.2	800.9	801.4	801.4
10°	801.2	800.7	801.7	799.6	800.4	800.6
10.5°	800.1	799.2	799.8	797.9	798.8	799.1
11°	798.6	797.0	797.4	796.2	796.7	796.9
11.5°	796.4	795.4	796.1	795.0	795.9	795.2
12°	795.0	793.9	794.1	793.2	794.0	793.6
12.5°	793.2	791.9	791.9	791.1	791.5	791.5
13°	791.5	790.9	790.2	789.1	789.5	790.0
13.5°	789.6	788.7	789.0	787.1	787.9	788.2
14°	787.7	786.8	786.3	784.9	786.4	786.0
14.5°	785.1	784.9	784.5	782.9	784.3	783.9
15°	783.8	782.6	782.3	781.2	782.2	782.0
15.5°	781.2	780.3	780.7	778.9	780.1	780.1
16°	779.1	778.1	778.0	776.6	777.7	778.7
16.5°	776.9	776.6	775.7	774.2	776.0	776.1
17°	774.4	773.3	773.1	772.0	773.4	773.9
17.5°	772.4	770.0	770.3	768.8	770.6	771.4
18°	769.7	767.6	767.6	766.1	767.9	769.2
18.5°	766.7	765.6	765.2	763.1	765.3	766.8
19°	764.6	763.6	763.2	761.2	763.0	764.0
19.5°	761.6	760.5	760.3	758.7	760.3	760.8
20°	758.6	757.7	757.6	756.1	757.4	758.0
20.5°	756.2	754.7	754.5	753.3	754.4	754.7
21°	753.8	752.3	751.7	750.4	751.8	751.6



TEST NUMBER: P579683

CATALOG NUMBER: SMD14S209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	744.4	743.2	742.6	741.1	742.7	743.0
23°	741.7	740.0	739.4	738.3	739.5	740.2
23.5°	738.4	736.8	736.2	734.9	736.9	737.0
24°	735.3	733.7	732.8	731.3	733.6	733.8
24.5°	732.3	730.7	729.1	728.1	730.4	730.5
25°	728.7	727.5	725.8	724.6	726.8	727.1
25.5°	724.8	724.2	722.5	721.1	723.2	723.6
26°	721.6	720.7	718.9	717.7	719.6	720.3
26.5°	717.6	717.0	715.0	714.0	716.0	716.7
27°	714.2	713.1	711.4	710.4	712.4	713.4
27.5°	709.9	709.6	707.4	707.1	708.8	709.8
28°	706.4	706.0	703.7	703.4	704.9	706.2
28.5°	702.8	702.2	699.9	699.7	701.1	702.3
29°	699.2	698.2	696.0	695.6	697.3	698.5
29.5°	695.5	694.3	692.0	691.6	693.6	694.6
30°	691.6	690.6	688.1	687.6	689.6	690.8
30.5°	686.4	686.6	684.2	683.7	685.5	686.8
31°	683.6	682.5	680.2	679.7	681.3	682.8
31.5°	679.5	678.5	676.1	675.5	677.1	678.8
32°	675.2	674.4	671.7	671.2	673.2	674.4
32.5°	670.8	670.0	667.3	666.6	668.9	670.1
33°	666.8	665.4	663.2	662.3	664.4	665.7
33.5°	662.0	661.3	658.8	658.1	660.1	661.6
34°	658.0	657.0	654.1	653.6	655.7	657.2
34.5°	653.6	652.5	649.5	649.2	651.2	652.7
35°	648.9	647.9	645.2	644.7	646.9	648.4
35.5°	644.3	643.5	640.7	640.1	642.4	643.9
36°	639.9	639.1	636.3	635.6	637.7	639.3
36.5°	634.9	634.5	631.6	630.8	632.8	634.5
37°	630.2	629.9	627.2	626.1	628.3	629.9
37.5°	625.6	625.0	622.3	621.1	623.3	625.0
38°	620.9	620.3	617.5	616.3	618.3	620.1
38.5°	616.3	615.4	612.5	611.3	613.7	615.3
39°	611.6	610.4	607.6	606.6	609.1	610.5
39.5°	606.8	605.5	602.5	601.5	604.0	605.7
40°	601.5	600.7	597.6	596.3	598.8	600.7
40.5°	596.7	595.4	592.6	591.1	593.7	595.6
41°	591.5	590.2	587.6	586.1	588.6	590.4
41.5°	586.3	584.9	582.3	581.2	583.1	585.2
42°	581.2	579.9	577.3	576.0	577.6	580.0
42.5°	575.9	574.7	571.9	570.7	572.8	575.1
43°	570.8	569.6	566.6	565.3	567.5	569.9
43.5°	565.3	564.3	561.2	559.9	562.2	564.5



TEST NUMBER: P579683

CATALOG NUMBER: SMD14S209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	549.3	548.4	544.9	543.7	546.2	548.4
45.5°	543.9	542.7	539.5	538.2	540.8	543.1
46°	538.4	536.9	534.1	532.6	535.3	537.4
46.5°	532.9	531.3	528.4	526.9	529.7	531.8
47°	527.3	525.7	522.7	521.4	523.8	526.0
47.5°	521.3	520.0	516.8	515.6	517.8	520.4
48°	515.7	514.5	511.1	510.0	511.7	514.5
48.5°	509.5	508.7	505.4	504.4	506.2	509.0
49°	504.0	503.2	499.7	498.4	500.8	503.1
49.5°	498.6	497.2	493.7	492.4	494.9	497.3
50°	492.4	491.1	487.8	486.4	488.8	491.2
50.5°	486.1	485.1	481.7	480.4	482.6	485.5
51°	480.2	479.0	475.7	474.3	476.6	479.5
51.5°	474.3	473.0	469.7	468.5	470.7	473.4
52°	468.5	467.0	463.5	462.4	464.8	467.1
52.5°	462.2	460.9	457.4	456.1	458.6	461.3
53°	456.3	454.7	451.3	450.1	452.4	455.0
53.5°	450.0	448.3	445.0	443.9	446.2	448.8
54°	443.8	442.1	438.9	437.5	439.7	442.4
54.5°	437.7	435.9	432.6	431.6	433.8	436.5
55°	431.2	429.9	426.4	425.3	427.5	430.4
55.5°	425.2	423.5	420.1	419.0	421.2	424.0
56°	419.1	417.3	413.8	412.7	414.7	417.7
56.5°	412.6	410.8	407.4	406.2	408.5	411.2
57°	405.6	404.4	401.0	399.9	402.0	404.6
57.5°	399.2	398.0	394.6	393.6	395.6	398.6
58°	392.9	391.5	388.2	387.0	388.9	391.9
58.5°	386.0	384.9	381.7	380.5	382.2	385.2
59°	379.6	378.5	375.0	374.0	375.4	378.5
59.5°	373.3	372.0	368.5	367.7	369.2	372.0
60°	367.3	365.8	362.1	361.0	362.5	365.5
60.5°	360.1	358.9	355.3	354.2	355.9	358.8
61°	353.5	352.1	348.6	347.7	349.4	352.4
61.5°	347.4	345.3	342.0	341.1	342.8	345.7
62°	340.7	338.6	335.6	334.6	336.2	339.1
62.5°	333.8	331.8	328.8	327.9	329.5	332.4
63°	327.5	325.1	322.0	321.0	322.7	325.7
63.5°	320.3	318.4	315.0	314.4	315.9	319.0
64°	314.2	311.9	308.7	307.6	309.1	312.0
64.5°	307.5	305.4	301.9	301.1	302.5	304.9
65°	301.1	298.8	295.2	294.4	295.9	298.3
65.5°	294.3	292.1	288.4	287.5	289.2	291.7
66°	287.0	285.1	282.0	280.6	282.3	284.8



TEST NUMBER: P579683

CATALOG NUMBER: SMD14S209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	266.8	264.8	261.5	260.2	261.7	264.4
68°	260.1	258.1	254.8	253.5	254.8	257.5
68.5°	253.7	251.2	248.2	246.8	248.1	250.7
69°	246.8	244.6	241.4	240.2	241.4	243.6
69.5°	239.9	237.7	234.4	233.5	234.6	236.9
70°	233.1	230.8	228.0	226.9	227.8	230.2
70.5°	226.5	224.3	221.3	220.2	221.1	223.2
71°	219.9	217.4	214.5	213.6	214.3	216.5
71.5°	213.1	210.7	207.7	206.9	207.4	209.8
72°	206.7	203.7	201.0	200.0	200.8	203.1
72.5°	199.9	197.2	194.5	193.4	194.0	196.1
73°	193.3	190.5	187.9	186.8	187.3	189.3
73.5°	186.3	183.8	181.3	180.2	180.6	182.9
74°	180.2	177.4	174.7	173.6	174.1	176.4
74.5°	173.2	170.7	168.0	166.8	167.3	169.7
75°	166.7	164.1	161.5	160.4	161.1	163.1
75.5°	160.3	157.8	155.2	154.0	154.5	156.5
76°	154.0	151.2	148.6	147.5	148.0	150.0
76.5°	147.8	144.9	142.1	141.2	141.6	143.6
77°	141.1	138.3	135.8	134.6	135.2	137.0
77.5°	134.7	132.1	129.4	128.5	128.9	130.6
78°	128.5	125.7	123.2	122.4	122.7	124.5
78.5°	122.2	119.6	117.0	116.0	116.4	118.2
79°	116.1	113.3	111.1	110.0	110.6	112.0
79.5°	109.9	107.2	104.8	103.9	104.4	105.9
80°	103.6	101.1	98.7	97.8	98.3	99.7
80.5°	97.8	94.9	92.7	91.9	92.4	93.8
81°	91.6	89.2	87.2	86.4	86.7	88.0
81.5°	85.8	83.4	81.4	80.6	81.0	82.1
82°	79.9	77.5	75.6	74.9	75.3	76.4
82.5°	74.2	71.7	69.8	69.1	69.4	70.6
83°	68.6	65.8	64.1	63.5	63.7	64.9
83.5°	63.0	60.2	58.5	57.9	58.3	59.4
84°	57.4	54.7	53.1	52.6	52.9	54.0
84.5°	52.3	49.2	47.9	47.3	47.5	48.6
85°	46.7	43.9	42.3	42.0	42.1	43.3
85.5°	41.4	38.6	37.1	36.9	37.1	38.1
86°	35.9	33.4	32.1	31.9	32.0	33.1
86.5°	31.2	28.3	27.2	27.1	27.2	28.3
87°	26.3	23.7	22.7	22.5	22.8	23.7
87.5°	21.6	19.0	18.0	18.1	18.3	19.3
88°	17.0	14.5	13.7	13.9	14.2	15.0
88.5°	12.6	10.5	9.7	9.9	10.2	11.0



TEST NUMBER: P579683

CATALOG NUMBER: SMD14S209SWHE-EM - 5000K

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: P579683

CATALOG NUMBER: SMD14S209SWHE-EM - 5000K

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°	1.4	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	1.4	1.1
131.5°	1.4	1.8	1.2	1.6	1.5	1.1
132°	1.5	1.8	1.3	1.5	1.6	1.1
132.5°	1.5	1.8	1.3	1.6	1.6	1.2
133°	1.5	1.8	2.0	1.6	1.7	1.5
133.5°	1.5	1.8	1.9	1.7	1.7	1.6



TEST NUMBER: P579683

CATALOG NUMBER: SMD14S209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	1.6	1.8	1.8	1.7	1.6	1.6
135.5°	1.6	1.8	2.0	2.3	1.6	1.6
136°	1.6	1.8	2.0	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°	1.8	1.8	1.9	2.2	1.6	1.6
139°	1.8	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	1.8	1.6
141°	1.8	1.9	1.9	2.2	1.8	1.6
141.5°	1.8	2.0	1.9	2.2	1.8	1.7
142°	2.0	2.0	1.9	2.2	1.8	1.6
142.5°	1.9	2.0	1.9	2.2	1.8	1.8
143°	1.9	2.0	1.9	2.2	1.8	1.8
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	2.2	1.9	2.2	2.0	1.8
145°	2.0	2.2	1.9	2.2	2.0	1.9
145.5°	2.0	2.2	1.9	2.2	2.0	1.9
146°	2.0	2.4	1.9	2.2	2.0	1.9
146.5°	2.0	2.4	1.9	2.2	2.1	2.0
147°	2.0	2.6	1.9	2.2	2.1	2.0
147.5°	2.0	2.7	2.0	2.2	2.1	2.0
148°	2.0	2.7	2.0	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	2.2	2.2
149.5°	2.3	2.8	2.1	2.2	2.2	2.2
150°	2.3	2.8	2.1	2.2	2.4	2.3
150.5°	2.3	2.7	2.2	2.2	2.4	2.4
151°	2.3	2.7	2.2	2.2	2.4	2.6
151.5°	2.4	2.7	2.4	2.2	2.4	2.6
152°	2.4	2.8	2.5	2.2	2.6	2.6
152.5°	2.4	2.8	2.6	2.2	2.6	2.6
153°	2.5	2.8	2.8	2.2	2.6	2.6
153.5°	2.5	2.8	2.8	2.2	2.6	2.8
154°	2.5	2.9	2.8	2.2	2.6	2.8
154.5°	2.6	2.9	2.8	2.2	2.6	2.8
155°	2.6	3.0	2.8	2.2	2.6	2.8
155.5°	2.7	3.0	2.8	2.2	2.6	2.8
156°	2.6	3.1	2.8	2.2	2.6	2.8



TEST NUMBER: P579683

CATALOG NUMBER: SMD14S209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	2.9	3.2	3.0	2.4	2.8	2.8
158°	2.9	3.3	3.0	2.6	2.8	2.8
158.5°	2.9	3.2	3.0	2.6	2.8	2.8
159°	2.9	3.4	3.1	2.6	2.8	2.8
159.5°	2.9	3.4	3.0	2.7	2.8	2.8
160°	3.0	3.5	3.0	2.7	2.8	2.8
160.5°	2.9	3.6	3.0	2.7	2.8	2.8
161°	3.0	3.6	3.0	2.7	2.8	2.8
161.5°	3.0	3.6	3.0	2.7	2.8	2.8
162°	3.2	3.6	3.0	2.7	2.8	2.8
162.5°	3.2	3.6	3.0	2.7	3.0	2.8
163°	3.1	3.6	3.0	2.7	2.9	2.8
163.5°	3.1	3.6	3.0	2.7	2.9	2.8
164°	3.1	3.6	3.0	2.8	2.9	2.9
164.5°	3.1	3.6	3.0	2.8	2.9	2.9
165°	3.1	3.6	3.0	2.8	2.9	2.8
165.5°	3.1	3.6	3.2	2.8	2.9	2.8
166°	3.1	3.6	3.2	2.9	2.9	2.8
166.5°	3.1	3.6	3.1	2.9	2.9	2.8
167°	3.1	3.6	3.1	3.0	2.9	2.8
167.5°	3.1	3.6	3.1	3.0	2.9	2.8
168°	3.1	3.6	3.1	3.0	2.9	2.8
168.5°	3.1	3.6	3.1	3.0	2.9	2.8
169°	3.1	3.6	3.1	3.0	2.9	2.8
169.5°	3.1	3.6	3.1	3.0	2.9	2.8
170°	3.1	3.6	3.1	3.0	2.9	2.8
170.5°	3.1	3.6	3.1	3.0	2.9	2.8
171°	3.1	3.6	3.1	3.0	2.9	2.8
171.5°	3.1	3.6	3.1	3.1	2.9	2.8
172°	3.1	3.6	3.1	3.0	2.9	2.8
172.5°	3.1	3.6	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	3.2	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	3.0



TEST NUMBER: P579683

CATALOG NUMBER: SMD14S209SWHE-EM - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	3.4	3.4	3.4	3.4	3.4	3.4



Report Generated By 670245859 / DESKTOP-HRDQ47P





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







21.5°	748.4	748.2	748.0	750.1	752.1	751.0	748.8	751.3	750.2	748.4	747.9
22°	745.8	744.8	745.1	747.1	748.4	748.2	745.6	747.7	748.1	745.4	744.3



44°	559.2	556.6	556.6	558.8	564.0	561.5	559.3	561.8	563.0	558.9	557.0
44.5°	553.9	551.1	551.1	553.5	558.3	556.0	553.9	556.5	556.7	553.4	552.2



66.5°	278.1	276.0	276.3	279.0	285.2	283.1	280.4	282.1	283.0	279.9	278.7
67°	270.9	269.1	269.3	272.2	278.4	276.2	273.9	275.0	276.1	272.9	272.5



89°	7.4	7.3	7.5	7.7	10.6	10.5	10.3	10.0	10.0	9.1	8.7
89.5°	3.6	3.8	4.2	4.2	7.0	7.1	6.9	6.5	6.3	5.8	5.4



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°	1.6	1.7	1.7	1.9	1.6	1.4	1.7	1.5	1.4	1.5	1.3



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



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°	750.5	749.5	748.8	747.2	748.7	748.4
22°	747.4	746.4	745.8	744.4	745.9	745.8



44°	559.8	559.1	555.9	554.6	556.8	559.2
44.5°	554.8	553.9	550.4	549.2	551.4	553.9



66.5°	280.5	278.2	275.1	273.8	275.4	278.1
67°	274.0	271.5	268.5	267.0	268.5	270.9



89°	8.5	6.3	6.0	6.3	6.6	7.4
89.5°	5.0	2.7	2.5	2.8	3.0	3.6



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°	1.6	1.8	1.8	1.7	1.6	1.6



156.5°	2.8	3.2	2.8	2.3	2.6	2.8
157°	2.8	3.2	2.8	2.3	2.7	2.8



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



(END OF REPORT)