

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: P579680

Luminaire Tested: **SMD14S209SWHE-EM - 3000K**

Issue Date: 11/23/2021



Test Information

Test Method: LM-41-14
Report Number: P579680
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 - 3000K
Description: SMD SELECTABLE CCT 3000K
Light Source: SELECTABLE CCT LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

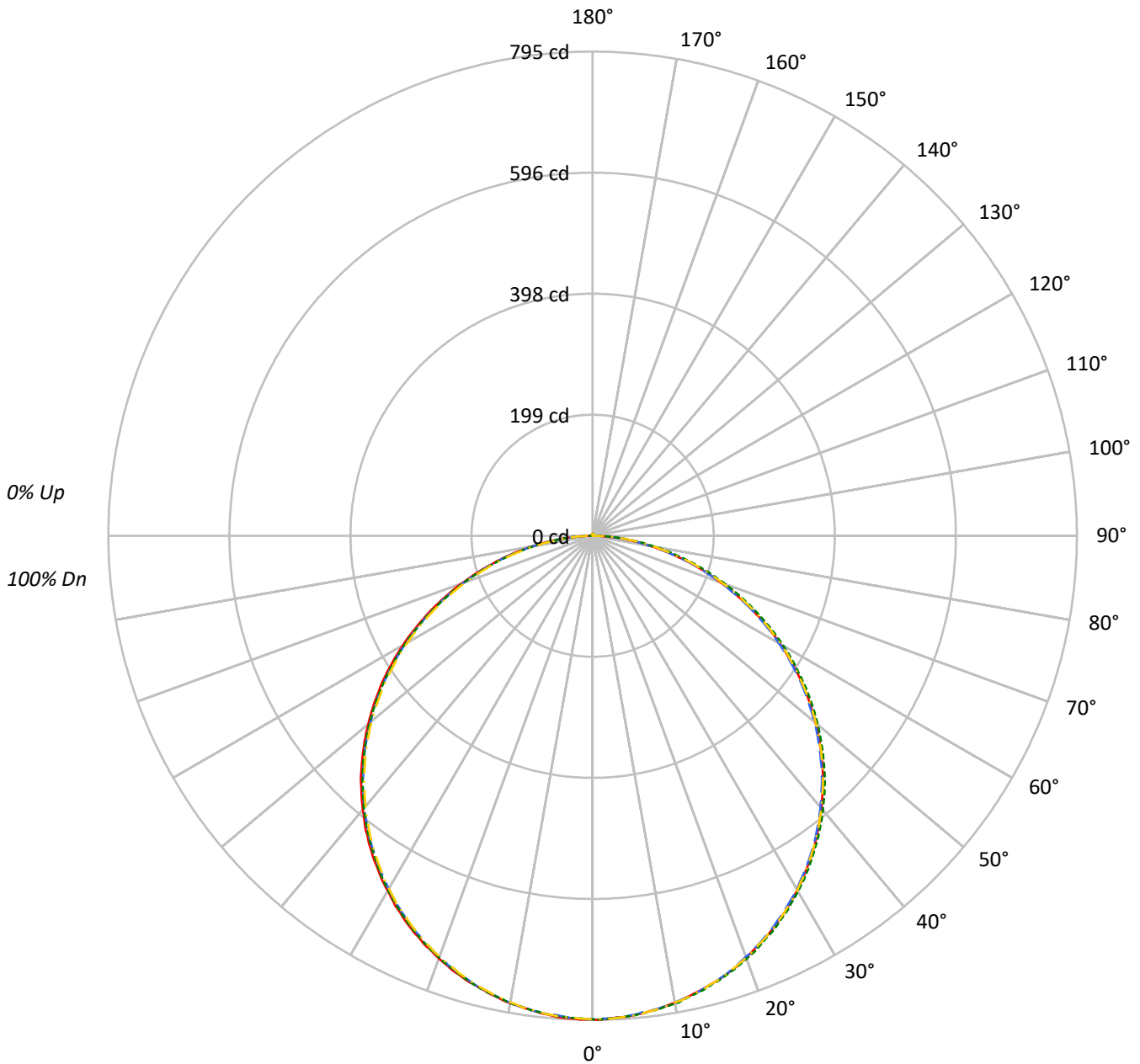
Lumens per Lamp: N/A
Luminaire Lumens: 2310.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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°	8545	8545	8545	8545
5°	8536	8541	8540	8532
10°	8510	8526	8519	8512
15°	8476	8489	8487	8483
20°	8444	8464	8457	8442
25°	8399	8432	8421	8404
30°	8351	8380	8365	8349
35°	8286	8324	8314	8280
40°	8210	8268	8255	8210
45°	8120	8188	8168	8118
50°	8001	8081	8053	7999
55°	7856	7948	7925	7848
60°	7653	7787	7748	7660
65°	7389	7562	7508	7401
70°	7046	7292	7201	7062
75°	6596	6924	6800	6638
80°	6013	6490	6310	6093
85°	5199	6002	5730	5274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	3.2
10°-20°	214.9	9.3
20°-30°	326.0	14.1
30°-40°	394.3	17.1
40°-50°	411.1	17.8
50°-60°	373.7	16.2
60°-70°	287.9	12.5
70°-80°	170.0	7.4
80°-90°	50.2	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°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	615.9	26.7
0°-40°	1010.2	43.7
0°-60°	1795.0	77.7
0°-90°	2303.1	99.7
90°-120°	1.4	0.1
90°-150°	4.7	0.2
90°-180°	7.0	0.3
0°-180°	2310.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	794	794	794	794	794	
5°	790	790	790	790	790	75
15°	761	762	762	761	761	215
25°	707	710	709	708	707	326
35°	631	634	633	630	631	394
45°	533	538	537	533	533	411
55°	419	424	422	418	419	374
65°	290	297	295	291	290	287
75°	159	166	164	160	159	168
85°	42	49	46	43	42	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	1	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°	793.9	793.9	793.9	793.9	793.9	793.9	793.9	793.9	793.9	793.9	793.9
0.5°	794.9	793.5	792.8	794.3	794.0	794.3	793.9	794.0	794.3	793.9	794.1
1°	794.5	792.6	793.0	794.4	794.0	794.4	793.4	793.6	794.7	794.0	793.9
1.5°	793.6	792.4	793.0	793.6	793.8	793.4	794.0	794.3	794.6	793.7	793.1
2°	793.0	793.4	793.4	793.7	793.3	794.4	793.8	794.3	793.8	793.5	792.8
2.5°	792.4	792.9	792.7	794.2	792.6	794.1	793.0	793.9	793.6	792.9	792.4
3°	791.7	791.9	791.9	793.0	792.4	793.7	792.4	793.0	793.0	791.1	791.5
3.5°	792.0	791.4	792.0	792.4	791.9	792.7	791.9	793.5	792.7	791.2	791.3
4°	791.4	790.0	791.1	792.0	791.2	792.7	791.5	793.1	792.6	791.0	789.8
4.5°	790.6	790.2	790.0	791.4	791.0	791.8	791.3	792.3	791.6	790.8	789.0
5°	790.0	789.1	789.6	790.5	790.5	790.9	790.4	791.3	790.4	790.0	788.8
5.5°	789.0	788.5	788.4	789.4	789.2	790.5	789.7	790.4	789.5	789.5	788.4
6°	788.8	787.8	786.4	788.1	788.0	790.1	788.5	788.7	789.0	788.5	788.3
6.5°	787.2	786.5	785.7	788.4	787.6	789.2	787.1	788.7	787.5	787.5	786.7
7°	785.7	785.8	785.7	787.4	786.4	787.9	786.4	788.1	786.3	785.4	786.3
7.5°	785.2	784.8	784.4	786.5	785.7	786.9	785.3	786.9	785.0	784.5	785.4
8°	783.8	783.3	783.5	784.7	784.9	785.7	783.8	785.9	784.2	783.8	783.6
8.5°	782.3	781.7	782.3	783.9	783.2	784.4	782.5	784.6	783.1	782.6	781.7
9°	781.1	780.8	780.6	782.4	782.4	782.7	781.2	783.5	781.7	781.2	781.5
9.5°	779.5	779.7	779.7	781.0	781.1	781.5	779.6	781.7	780.6	780.3	780.1
10°	778.6	778.5	778.1	779.8	780.1	780.5	778.0	781.2	779.4	779.1	778.7
10.5°	777.2	776.8	776.7	778.6	779.1	778.2	777.0	778.9	778.3	777.2	777.2
11°	775.1	775.4	775.3	777.1	776.7	776.9	776.1	776.5	776.6	775.3	775.5
11.5°	773.5	774.0	774.0	775.6	774.6	775.6	774.1	775.5	774.4	773.9	773.7
12°	771.9	772.3	772.9	773.6	772.8	774.1	773.0	774.0	773.1	773.2	771.8
12.5°	769.8	770.8	771.1	771.8	771.3	772.2	770.0	772.6	771.1	771.0	769.8
13°	768.4	768.1	769.0	770.0	769.7	770.2	768.9	770.5	769.4	769.1	768.6
13.5°	766.7	766.1	767.1	768.1	768.3	768.1	767.0	768.4	766.9	767.3	766.3
14°	764.5	764.6	764.7	766.4	766.6	765.8	765.4	766.9	765.4	764.6	764.7
14.5°	762.5	762.5	762.8	764.5	763.9	764.3	762.2	764.0	763.1	763.0	763.3
15°	760.6	760.8	761.4	762.4	761.8	762.0	760.7	762.5	761.6	760.6	760.8
15.5°	758.7	758.5	759.0	759.7	760.1	760.2	759.0	759.9	760.0	758.2	758.0
16°	757.4	756.5	756.6	757.5	758.2	758.5	757.2	757.8	757.9	756.6	755.8
16.5°	754.8	754.7	754.3	755.5	755.6	756.4	754.6	755.2	755.5	754.7	753.7
17°	752.7	752.1	752.1	753.3	753.7	754.2	752.1	753.4	752.9	752.0	751.2
17.5°	750.3	749.1	749.5	751.1	751.5	751.9	750.2	751.5	751.4	749.4	749.3
18°	748.1	746.6	747.1	748.4	749.3	749.3	747.3	748.0	749.2	747.5	746.5
18.5°	745.8	744.1	744.3	746.1	747.0	746.6	744.8	746.7	745.9	744.8	744.3
19°	743.1	741.8	741.6	743.4	744.5	743.8	742.0	744.1	743.5	742.1	741.0
19.5°	739.9	739.4	738.3	740.5	741.6	741.2	739.7	741.3	741.2	739.8	738.7
20°	737.2	735.7	735.9	737.7	738.9	738.7	736.8	738.8	738.3	737.2	736.6
20.5°	734.0	732.8	733.3	734.9	736.5	736.3	734.1	735.6	735.9	733.5	733.4
21°	731.1	730.5	730.7	732.1	734.1	733.4	731.9	733.0	732.5	731.0	730.3



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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°	722.7	721.1	721.8	723.6	724.9	724.6	722.7	724.4	724.8	722.4	721.3
23°	720.0	718.6	718.5	721.0	721.7	721.6	720.0	721.2	721.6	719.3	718.6
23.5°	716.9	715.5	715.2	718.1	718.2	718.9	716.8	718.7	718.0	716.0	715.2
24°	713.7	712.4	712.1	714.9	716.1	715.3	713.3	715.8	715.7	713.3	712.3
24.5°	710.5	709.4	709.1	711.5	713.1	712.0	711.0	712.0	712.4	709.9	708.8
25°	707.2	706.0	705.6	708.5	710.0	708.7	706.7	708.9	709.0	706.3	705.4
25.5°	703.8	702.4	702.0	705.0	706.7	705.6	703.4	705.3	705.8	703.4	701.9
26°	700.6	699.1	698.8	701.3	702.8	702.3	700.6	701.8	702.9	699.9	698.8
26.5°	697.1	695.2	695.5	697.8	699.4	698.9	697.2	698.4	699.2	696.2	695.4
27°	693.9	691.9	692.0	694.8	696.5	695.4	693.8	695.2	695.2	693.5	692.1
27.5°	690.4	688.8	688.2	691.1	693.1	692.2	689.9	690.6	691.8	689.9	688.5
28°	686.9	685.1	684.7	687.1	689.0	688.4	686.1	687.5	688.7	685.7	685.1
28.5°	683.1	681.2	681.3	683.6	684.9	684.6	682.9	684.0	684.8	682.3	681.5
29°	679.4	677.2	677.7	680.0	681.8	680.8	679.5	680.5	680.9	679.2	678.4
29.5°	675.6	673.3	673.9	676.3	678.0	677.1	675.5	676.6	676.7	675.1	673.1
30°	671.9	669.8	669.8	672.6	674.2	673.2	672.0	672.8	673.0	671.3	669.8
30.5°	668.0	665.9	665.8	668.7	670.4	669.4	667.4	668.7	669.3	667.3	665.5
31°	664.1	661.9	661.7	664.7	666.5	665.3	663.2	665.1	666.0	663.4	661.9
31.5°	660.2	658.3	657.7	660.8	663.0	661.3	659.8	661.2	662.1	659.5	657.5
32°	656.0	654.0	653.8	656.6	659.0	657.4	655.8	657.4	657.7	656.0	653.7
32.5°	651.7	649.8	649.4	652.6	654.6	653.1	651.4	653.5	653.8	651.8	650.7
33°	647.4	645.5	645.3	648.1	650.8	649.1	647.2	649.4	649.5	647.1	646.5
33.5°	643.4	641.2	641.2	644.1	646.5	644.9	642.8	644.9	645.6	642.8	641.4
34°	639.3	637.0	637.3	639.7	642.3	640.7	638.5	640.7	641.9	638.6	636.7
34.5°	634.9	632.7	633.0	635.4	637.7	636.3	634.3	637.3	637.8	634.4	633.0
35°	630.6	628.3	628.5	631.1	633.5	632.1	629.9	633.6	632.7	630.1	628.7
35.5°	626.3	624.0	623.9	626.9	629.2	627.8	625.9	628.4	628.5	626.1	624.6
36°	621.8	619.6	619.7	622.5	625.0	623.5	621.4	624.0	624.5	621.5	620.2
36.5°	617.2	615.0	615.2	618.2	620.8	618.9	616.6	619.0	619.9	616.9	616.5
37°	612.7	610.1	610.3	613.5	616.2	614.5	612.0	614.4	614.9	613.0	611.1
37.5°	607.9	605.4	605.7	608.9	611.8	610.0	607.9	609.7	611.0	608.0	607.0
38°	603.1	600.9	601.0	604.1	607.0	605.2	603.2	604.9	606.6	604.1	602.1
38.5°	598.5	596.2	596.3	599.4	602.7	600.6	598.2	600.9	601.3	599.1	597.3
39°	593.8	591.5	591.7	594.6	598.1	596.1	593.7	595.7	596.4	594.2	593.1
39.5°	589.1	586.9	586.7	589.9	593.1	591.4	588.6	591.3	591.5	588.9	588.3
40°	584.3	581.9	581.8	584.8	588.4	586.3	583.6	586.3	587.5	584.3	583.2
40.5°	579.3	577.1	576.8	579.8	583.4	581.4	578.5	581.6	582.1	579.3	577.9
41°	574.3	572.0	572.0	574.6	578.4	576.8	573.9	576.6	577.6	574.6	573.2
41.5°	569.2	567.1	566.7	569.7	573.5	571.9	569.3	571.5	572.3	569.4	567.9
42°	564.1	562.0	561.7	564.5	568.7	566.9	564.0	566.2	567.3	564.1	563.3
42.5°	559.3	557.1	556.9	559.5	563.6	561.5	559.3	561.6	562.2	559.5	557.8
43°	554.3	552.0	552.0	554.2	558.6	556.5	554.4	556.7	557.3	554.5	552.4
43.5°	549.1	546.8	546.8	548.8	553.9	551.4	549.1	551.1	552.6	548.8	547.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	533.4	530.6	530.6	533.2	537.9	535.4	533.6	535.5	536.6	532.8	531.9
45.5°	528.3	525.5	525.3	527.9	532.5	530.1	527.9	529.8	531.2	527.2	527.0
46°	522.7	520.1	520.0	522.4	527.0	524.9	522.7	524.5	525.4	522.1	521.7
46.5°	517.2	514.9	514.4	516.8	521.7	519.8	517.6	518.8	520.4	517.4	516.1
47°	511.6	509.2	508.9	511.4	516.3	514.4	511.9	513.4	514.4	511.6	510.7
47.5°	506.1	503.8	503.4	505.9	510.5	508.5	506.3	508.3	508.8	505.5	504.6
48°	500.4	498.1	497.8	500.3	505.1	503.2	500.8	502.7	503.5	500.0	499.1
48.5°	495.0	492.5	492.2	494.8	499.4	497.6	494.8	497.0	497.7	495.0	493.4
49°	489.3	486.9	487.0	489.4	494.0	492.1	489.3	491.5	492.6	489.1	487.8
49.5°	483.7	481.3	481.4	483.6	488.3	486.5	483.9	486.0	486.7	483.8	482.0
50°	477.8	475.6	475.6	477.9	482.6	480.7	478.5	479.9	480.9	477.8	476.2
50.5°	472.2	469.7	469.4	471.9	476.6	474.8	472.5	474.4	475.3	472.1	470.5
51°	466.4	463.7	463.5	466.1	471.2	469.3	466.7	468.5	469.4	466.3	464.6
51.5°	460.4	457.9	457.5	460.2	465.6	463.5	461.0	463.1	463.9	460.9	459.0
52°	454.3	452.2	451.8	454.6	459.6	457.4	455.2	456.9	457.9	454.3	453.4
52.5°	448.6	446.0	445.8	448.4	453.8	451.8	449.4	451.3	452.2	448.4	447.3
53°	442.6	440.0	439.9	442.5	448.0	445.7	443.2	444.6	446.1	442.7	441.4
53.5°	436.5	434.0	433.9	436.7	441.9	439.7	437.5	438.9	439.6	436.6	435.3
54°	430.3	428.0	427.8	430.6	436.0	433.7	431.4	432.5	434.0	431.0	429.6
54.5°	424.5	422.2	421.7	424.7	430.1	427.7	425.4	426.5	428.3	425.0	423.8
55°	418.6	416.1	415.9	418.7	423.5	421.9	419.6	420.6	422.3	419.1	417.8
55.5°	412.4	409.9	409.6	412.3	417.6	415.8	413.3	414.6	415.9	412.5	411.6
56°	406.3	403.7	403.5	406.2	411.5	409.6	407.2	408.5	410.0	406.5	405.6
56.5°	399.9	397.3	397.2	399.9	405.3	403.4	401.1	402.2	403.6	400.5	399.2
57°	393.5	391.1	391.2	393.9	399.2	397.3	394.9	396.1	397.3	394.5	392.9
57.5°	387.7	384.7	384.9	387.6	393.0	391.1	388.5	389.9	391.1	388.2	386.5
58°	381.1	378.6	378.6	381.3	387.1	384.9	382.3	383.4	384.9	382.0	380.5
58.5°	374.6	372.2	372.2	375.0	380.7	378.6	376.4	376.9	378.8	375.8	374.1
59°	368.1	366.0	365.9	368.8	374.2	371.9	369.8	370.4	372.3	369.3	367.9
59.5°	361.8	359.6	359.6	362.3	367.7	365.9	363.3	364.4	366.2	362.9	361.3
60°	355.5	353.3	353.2	355.7	361.7	359.9	357.0	358.3	359.9	356.6	355.2
60.5°	349.0	347.0	346.8	349.1	355.3	353.4	350.8	351.7	353.8	350.3	348.6
61°	342.7	340.6	340.3	342.6	349.0	346.7	344.3	345.1	347.4	343.7	342.1
61.5°	336.2	334.1	334.0	336.1	342.5	340.1	337.7	338.8	340.4	337.4	335.9
62°	329.8	327.7	327.3	329.7	336.3	334.3	331.7	332.5	333.9	331.3	329.4
62.5°	323.3	321.1	320.8	323.4	329.9	327.6	325.1	326.1	327.4	324.7	322.7
63°	316.8	314.6	314.4	316.7	323.3	320.4	318.5	319.5	321.0	318.0	316.6
63.5°	310.2	308.0	308.1	310.1	316.8	314.4	312.2	313.1	314.6	311.6	309.9
64°	303.4	301.3	301.6	303.8	310.0	307.5	305.6	306.6	307.8	305.3	303.6
64.5°	296.5	294.8	295.1	297.2	303.2	301.3	299.0	300.1	301.4	298.7	296.9
65°	290.1	288.2	288.7	290.9	296.9	294.6	292.6	293.7	294.8	291.9	290.3
65.5°	283.7	281.6	282.0	284.4	290.3	288.3	286.0	287.4	288.4	285.8	283.9
66°	277.0	275.1	275.3	277.9	284.0	281.7	279.5	280.9	281.8	279.1	277.4



TEST NUMBER: P579680

CATALOG NUMBER: SMD14S209SWHE-EM - 3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	257.1	255.2	255.5	257.9	264.3	262.2	259.6	261.0	262.1	258.9	257.7
68°	250.5	248.6	249.0	251.4	257.8	255.5	253.1	254.3	255.4	252.5	251.1
68.5°	243.8	242.1	242.4	244.9	251.3	249.0	246.7	247.6	248.9	246.1	244.6
69°	237.0	235.5	236.0	238.4	244.9	242.7	240.7	241.1	242.1	239.6	238.5
69.5°	230.4	228.7	229.3	231.7	237.9	236.0	233.5	234.4	235.6	232.9	231.6
70°	223.9	222.2	222.9	225.1	231.7	229.3	227.3	227.9	228.8	226.4	225.1
70.5°	217.1	216.0	216.4	218.7	225.3	223.0	221.2	221.4	222.3	220.0	218.6
71°	210.5	209.4	209.9	212.1	218.4	216.6	214.6	215.0	215.9	213.2	212.5
71.5°	204.0	202.8	203.4	205.5	212.0	209.9	207.9	208.4	209.3	206.9	206.0
72°	197.5	196.3	196.7	198.8	205.4	203.4	201.3	201.8	202.6	200.0	199.4
72.5°	190.7	189.8	190.3	192.1	199.1	197.1	195.0	195.3	195.8	193.6	192.8
73°	184.1	183.3	183.9	185.9	192.5	190.6	188.3	188.8	189.4	187.0	186.3
73.5°	177.9	176.9	177.4	179.5	186.0	184.0	182.1	182.3	183.0	180.8	180.2
74°	171.6	170.3	171.0	173.0	179.5	177.9	175.5	175.8	176.5	174.2	173.6
74.5°	165.0	163.9	164.6	166.4	173.1	171.4	169.1	169.2	170.1	168.0	167.0
75°	158.6	157.6	158.3	160.3	166.5	164.9	162.8	163.0	163.5	161.7	160.7
75.5°	152.3	151.5	152.1	153.9	160.5	158.6	156.6	156.7	157.4	155.3	154.6
76°	145.9	144.9	145.7	147.6	154.2	152.5	150.4	150.6	151.2	148.9	148.3
76.5°	139.6	138.8	139.6	141.0	147.7	146.2	144.0	144.3	144.8	142.7	142.0
77°	133.3	132.4	133.2	135.1	141.5	139.9	137.7	138.2	138.3	136.4	135.8
77.5°	127.1	126.3	127.3	129.1	135.4	133.7	131.6	131.7	132.1	130.5	129.8
78°	121.1	120.1	121.0	123.0	129.1	127.3	125.5	125.6	126.0	124.3	123.7
78.5°	115.0	114.1	115.3	117.2	123.0	121.5	119.4	119.3	119.9	118.2	117.8
79°	108.9	108.1	109.3	111.2	116.9	115.3	113.5	113.2	113.9	112.1	111.6
79.5°	103.0	102.2	103.3	105.3	110.9	109.3	107.6	107.2	107.7	106.1	105.7
80°	97.0	96.5	97.3	99.4	104.7	103.4	101.6	101.4	101.8	100.1	99.8
80.5°	91.3	90.6	91.5	93.4	99.0	97.4	95.7	95.6	95.9	94.2	94.2
81°	85.6	85.3	86.0	87.8	93.0	91.5	90.1	89.7	89.9	88.6	88.4
81.5°	79.9	79.6	80.5	82.2	87.3	85.9	84.4	84.2	84.3	82.7	82.7
82°	74.3	73.9	74.9	76.5	81.4	80.2	78.7	78.4	78.5	77.1	76.8
82.5°	68.7	68.3	69.2	70.8	75.8	74.6	72.8	72.9	72.9	71.6	71.4
83°	63.1	62.8	63.7	65.2	70.2	69.2	67.6	67.4	67.4	66.2	65.8
83.5°	57.8	57.4	58.3	59.7	64.8	63.6	62.2	61.9	62.0	60.7	60.2
84°	52.5	52.2	53.1	54.3	59.2	58.2	56.8	56.6	56.7	55.3	55.1
84.5°	47.3	47.0	47.8	49.0	53.7	53.1	51.6	51.4	51.6	50.3	49.8
85°	42.1	41.8	42.5	43.7	48.6	47.6	46.2	46.2	46.4	45.1	44.7
85.5°	37.1	36.9	37.6	38.5	43.3	42.5	41.3	41.1	41.3	40.0	39.6
86°	32.2	31.9	32.6	33.4	38.2	37.4	36.2	36.3	36.4	35.1	34.7
86.5°	27.5	27.2	27.8	28.6	33.2	32.6	31.4	31.5	31.5	30.3	29.8
87°	23.0	22.9	23.2	23.9	28.2	27.7	26.7	26.8	26.8	25.5	25.1
87.5°	18.8	18.5	19.0	19.4	23.3	22.8	22.1	22.3	22.3	21.1	20.6
88°	14.6	14.4	14.8	15.2	19.0	18.6	17.9	17.9	17.9	16.8	16.3
88.5°	10.7	10.6	10.9	11.2	14.4	14.3	13.7	13.7	13.7	12.6	12.1



TEST NUMBER: P579680

CATALOG NUMBER: SMD14S209SWHE-EM - 3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.6	0.7	0.9	0.9	3.5	3.5	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	0.6	0.7	0.7	0.5	0.7	0.7



TEST NUMBER: P579680

CATALOG NUMBER: SMD14S209SWHE-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	0.7	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	0.8	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	0.8	0.9	0.8	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	1.0	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	1.0	1.2	1.0	0.9	1.0	1.0
121°	0.7	0.7	0.8	0.9	1.0	1.0	1.2	1.0	0.9	1.1	1.0
121.5°	0.7	0.7	0.8	0.9	1.1	1.0	1.2	1.0	1.1	1.1	1.0
122°	0.7	0.7	0.8	0.9	1.1	1.0	1.2	1.0	1.1	1.0	1.1
122.5°	0.8	0.8	0.9	0.9	1.1	1.0	1.2	1.0	1.1	1.1	1.0
123°	0.8	0.8	0.9	1.0	1.2	1.0	1.2	1.0	1.1	1.1	1.1
123.5°	0.8	0.8	0.8	1.0	1.2	1.1	1.2	1.0	1.1	1.1	1.1
124°	0.8	0.8	0.8	1.0	1.2	1.0	1.2	1.1	1.1	1.1	1.1
124.5°	0.8	0.9	0.9	1.0	1.2	1.2	1.2	1.1	1.1	1.1	1.1
125°	0.9	0.9	0.8	1.0	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	1.2	1.2	1.1	1.4	1.1	1.1	1.2	1.1
126.5°	0.9	0.9	0.9	1.2	1.2	1.1	1.3	1.1	1.1	1.2	1.1
127°	0.9	0.9	0.9	1.2	1.3	1.1	1.4	1.1	1.2	1.2	1.2
127.5°	0.9	0.9	1.0	1.2	1.2	1.2	1.4	1.1	1.2	1.2	1.2
128°	0.9	1.0	1.0	1.2	1.4	1.2	1.4	1.2	1.2	1.2	1.2
128.5°	0.9	1.0	1.0	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°	1.0	1.4	1.3	1.2	1.4	1.2	1.4	1.2	1.2	1.3	1.2
130.5°	1.1	1.4	1.4	1.2	1.4	1.2	1.5	1.2	1.3	1.3	1.2
131°	1.1	1.4	1.4	1.2	1.4	1.2	1.5	1.4	1.3	1.3	1.2
131.5°	1.1	1.5	1.5	1.2	1.4	1.2	1.6	1.4	1.3	1.3	1.2
132°	1.1	1.6	1.6	1.2	1.5	1.2	1.5	1.4	1.3	1.4	1.2
132.5°	1.2	1.6	1.6	1.2	1.5	1.2	1.6	1.4	1.3	1.4	1.2
133°	1.4	1.6	1.6	1.2	1.5	1.2	1.6	1.4	1.4	1.4	1.2
133.5°	1.6	1.6	1.8	1.4	1.6	1.2	1.6	1.4	1.4	1.5	1.3



TEST NUMBER: P579680

CATALOG NUMBER: SMD14S209SWHE-EM - 3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P579680

CATALOG NUMBER: SMD14S209SWHE-EM - 3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	2.7	2.6	2.6	2.8	3.0	3.0	2.4	2.2	2.3	2.2	2.3
158°	2.7	2.7	2.6	2.8	3.1	3.1	2.6	2.3	2.4	2.3	2.3
158.5°	2.7	2.7	2.6	2.8	3.2	3.2	2.7	2.3	2.4	2.3	2.4
159°	2.7	2.7	2.6	2.9	3.3	3.2	2.7	2.4	2.4	2.4	2.6
159.5°	2.7	2.8	2.6	2.8	3.3	3.3	2.8	2.4	2.4	2.6	2.6
160°	2.7	2.8	2.6	2.8	3.3	3.3	2.8	2.5	2.4	2.6	2.7
160.5°	2.7	2.8	2.6	2.8	3.3	3.3	2.9	2.6	2.4	2.7	2.7
161°	2.7	2.8	2.6	2.8	3.3	3.3	3.0	2.7	2.6	2.7	2.8
161.5°	2.7	2.8	2.6	2.8	3.3	3.3	3.1	2.8	2.5	2.7	2.7
162°	2.7	2.8	2.7	2.8	3.3	3.3	3.1	2.8	2.6	2.7	2.8
162.5°	2.7	2.8	2.7	2.8	3.3	3.3	3.0	2.9	2.8	2.7	2.9
163°	2.8	2.8	2.7	2.9	3.3	3.3	3.0	2.9	2.8	2.7	2.9
163.5°	2.7	2.8	2.8	3.0	3.3	3.3	3.0	2.9	2.8	2.7	3.0
164°	2.8	2.8	2.8	3.0	3.3	3.3	3.0	3.1	2.8	2.7	3.0
164.5°	2.8	2.9	2.8	3.0	3.3	3.3	3.0	3.1	2.8	2.7	3.0
165°	2.8	2.9	2.9	3.0	3.3	3.3	3.0	3.0	2.8	2.8	3.0
165.5°	2.8	2.9	2.9	3.0	3.3	3.3	3.0	3.0	2.8	2.8	3.0
166°	2.8	2.9	2.9	3.0	3.3	3.3	3.0	3.0	2.8	2.9	3.0
166.5°	2.8	2.9	3.0	3.0	3.3	3.3	3.0	3.0	2.8	2.9	3.0
167°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	2.9	3.0
167.5°	2.8	3.1	2.9	3.0	3.3	3.3	3.0	3.0	2.8	2.9	3.0
168°	2.8	3.1	2.9	3.0	3.3	3.3	3.0	3.0	2.8	2.9	3.0
168.5°	2.8	3.0	2.9	3.0	3.3	3.3	3.0	3.0	2.8	3.0	3.0
169°	2.8	3.0	2.9	3.0	3.3	3.3	3.0	3.0	2.8	3.0	3.0
169.5°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	3.1	3.0
170°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	3.1	3.0
170.5°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	3.1	3.0
171°	2.8	3.0	3.1	3.0	3.3	3.3	3.0	3.0	2.8	3.1	3.0
171.5°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	3.2	3.0
172°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	3.2	3.0
172.5°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	3.3	3.0
173°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	3.2	3.0
173.5°	2.8	3.0	3.0	3.0	3.3	3.4	3.0	3.0	2.8	3.2	3.0
174°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	3.2	3.0
174.5°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	3.2	3.0
175°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	3.2	3.0
175.5°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	3.3	3.0
176°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	3.3	3.0
176.5°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	3.3	3.0
177°	2.8	3.0	3.0	3.0	3.3	3.3	3.0	3.0	2.8	3.3	3.0
177.5°	2.8	3.0	3.0	3.0	3.3	3.4	3.0	3.0	2.8	3.3	3.0
178°	2.8	3.0	3.0	3.0	3.5	3.4	3.0	3.0	2.8	3.3	3.0
178.5°	2.9	3.0	3.0	3.0	3.5	3.4	3.0	3.0	2.8	3.3	3.0



TEST NUMBER: P579680

CATALOG NUMBER: SMD14S209SWHE-EM - 3000K

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: P579680

CATALOG NUMBER: SMD14S209SWHE-EM - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	793.9	793.9	793.9	793.9	793.9	793.9
0.5°	794.0	794.0	793.8	793.7	793.9	794.9
1°	794.8	793.2	793.7	793.4	793.4	794.5
1.5°	794.7	792.6	793.4	793.2	793.7	793.6
2°	794.5	792.9	793.0	792.5	793.6	793.0
2.5°	794.1	792.3	792.7	791.3	793.0	792.4
3°	793.9	792.1	793.0	791.4	792.1	791.7
3.5°	793.2	791.2	792.2	791.4	791.7	792.0
4°	793.0	790.9	792.1	791.5	791.1	791.4
4.5°	792.5	790.7	791.6	790.3	791.4	790.6
5°	791.6	789.6	791.0	789.6	790.0	790.0
5.5°	790.5	788.9	790.2	789.1	789.2	789.0
6°	788.4	787.9	788.5	787.8	788.5	788.8
6.5°	788.6	786.6	787.6	786.9	787.0	787.2
7°	787.8	785.6	786.4	785.5	785.1	785.7
7.5°	787.2	785.2	784.8	784.5	784.1	785.2
8°	785.3	783.3	784.1	784.3	782.9	783.8
8.5°	782.7	782.2	783.2	782.9	782.0	782.3
9°	782.1	781.1	782.8	780.7	781.3	781.1
9.5°	781.1	780.4	781.3	778.9	779.5	779.5
10°	779.3	778.8	779.8	777.8	778.5	778.6
10.5°	778.2	777.4	778.0	776.0	776.9	777.2
11°	776.8	775.2	775.6	774.4	774.9	775.1
11.5°	774.6	773.6	774.3	773.3	774.1	773.5
12°	773.2	772.2	772.3	771.5	772.2	771.9
12.5°	771.5	770.2	770.2	769.5	769.8	769.8
13°	769.8	769.3	768.6	767.5	767.9	768.4
13.5°	768.0	767.1	767.4	765.6	766.4	766.7
14°	766.1	765.3	764.8	763.5	764.9	764.5
14.5°	763.6	763.4	763.0	761.4	762.8	762.5
15°	762.4	761.2	760.9	759.8	760.8	760.6
15.5°	759.8	758.9	759.3	757.6	758.7	758.7
16°	757.8	756.8	756.7	755.4	756.5	757.4
16.5°	755.7	755.4	754.5	753.1	754.8	754.8
17°	753.2	752.2	752.0	750.9	752.3	752.7
17.5°	751.3	748.9	749.2	747.7	749.5	750.3
18°	748.7	746.6	746.6	745.1	746.8	748.1
18.5°	745.7	744.6	744.3	742.2	744.4	745.8
19°	743.7	742.7	742.3	740.3	742.1	743.1
19.5°	740.8	739.7	739.5	737.9	739.5	739.9
20°	737.8	737.0	736.9	735.4	736.6	737.2
20.5°	735.5	734.1	733.8	732.7	733.8	734.0
21°	733.1	731.7	731.1	729.9	731.2	731.1



TEST NUMBER: P579680

CATALOG NUMBER: SMD14S209SWHE-EM - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	724.0	722.9	722.2	720.8	722.4	722.7
23°	721.4	719.7	719.2	718.1	719.2	720.0
23.5°	718.2	716.6	716.1	714.8	716.7	716.9
24°	715.1	713.6	712.8	711.2	713.6	713.7
24.5°	712.2	710.7	709.2	708.2	710.4	710.5
25°	708.7	707.6	705.9	704.8	706.9	707.2
25.5°	704.9	704.3	702.7	701.3	703.4	703.8
26°	701.8	701.0	699.2	698.0	699.9	700.6
26.5°	698.0	697.4	695.5	694.5	696.4	697.1
27°	694.6	693.6	692.0	690.9	692.9	693.9
27.5°	690.5	690.2	688.1	687.7	689.4	690.4
28°	687.1	686.7	684.5	684.2	685.6	686.9
28.5°	683.6	683.0	680.8	680.6	681.9	683.1
29°	680.0	679.1	677.0	676.6	678.3	679.4
29.5°	676.4	675.3	673.1	672.7	674.6	675.6
30°	672.6	671.7	669.3	668.8	670.7	671.9
30.5°	667.6	667.9	665.5	665.0	666.8	668.0
31°	664.9	663.9	661.6	661.1	662.7	664.1
31.5°	660.9	659.9	657.6	657.0	658.5	660.2
32°	656.7	656.0	653.3	652.8	654.7	656.0
32.5°	652.5	651.7	649.1	648.4	650.6	651.7
33°	648.6	647.2	645.0	644.2	646.2	647.4
33.5°	643.9	643.2	640.7	640.1	642.0	643.4
34°	640.0	639.0	636.2	635.7	637.8	639.3
34.5°	635.7	634.6	631.7	631.4	633.4	634.9
35°	631.2	630.1	627.5	627.0	629.2	630.6
35.5°	626.7	625.9	623.2	622.6	624.8	626.3
36°	622.4	621.6	618.9	618.2	620.2	621.8
36.5°	617.5	617.1	614.3	613.5	615.5	617.2
37°	613.0	612.7	610.0	609.0	611.1	612.7
37.5°	608.5	607.9	605.2	604.1	606.2	607.9
38°	603.9	603.3	600.6	599.4	601.4	603.1
38.5°	599.4	598.5	595.8	594.6	596.9	598.5
39°	594.8	593.7	591.0	590.0	592.4	593.8
39.5°	590.2	589.0	586.0	585.0	587.5	589.1
40°	585.1	584.3	581.2	580.0	582.4	584.3
40.5°	580.4	579.1	576.4	574.9	577.5	579.3
41°	575.3	574.1	571.5	570.1	572.4	574.3
41.5°	570.2	568.9	566.4	565.3	567.2	569.2
42°	565.3	564.0	561.5	560.3	561.8	564.1
42.5°	560.1	559.0	556.2	555.1	557.1	559.3
43°	555.2	554.0	551.1	549.9	551.9	554.3
43.5°	549.8	548.8	545.8	544.6	546.8	549.1



TEST NUMBER: P579680

CATALOG NUMBER: SMD14S209SWHE-EM - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	534.3	533.3	530.0	528.8	531.2	533.4
45.5°	529.0	527.8	524.8	523.5	526.0	528.3
46°	523.7	522.2	519.5	518.0	520.6	522.7
46.5°	518.3	516.8	514.0	512.5	515.2	517.2
47°	512.9	511.3	508.4	507.1	509.5	511.6
47.5°	507.1	505.8	502.7	501.5	503.7	506.1
48°	501.6	500.4	497.1	496.0	497.7	500.4
48.5°	495.6	494.8	491.6	490.6	492.4	495.0
49°	490.2	489.4	486.0	484.8	487.1	489.3
49.5°	485.0	483.6	480.2	479.0	481.3	483.7
50°	478.9	477.7	474.5	473.1	475.4	477.8
50.5°	472.8	471.8	468.5	467.3	469.4	472.2
51°	467.0	465.9	462.7	461.3	463.5	466.4
51.5°	461.3	460.0	456.8	455.7	457.9	460.4
52°	455.6	454.2	450.8	449.7	452.1	454.3
52.5°	449.5	448.2	444.9	443.7	446.0	448.6
53°	443.8	442.2	438.9	437.8	440.0	442.6
53.5°	437.7	436.0	432.8	431.7	434.0	436.5
54°	431.6	430.0	426.9	425.5	427.6	430.3
54.5°	425.8	424.0	420.8	419.8	421.9	424.5
55°	419.4	418.2	414.7	413.7	415.8	418.6
55.5°	413.6	411.9	408.6	407.5	409.7	412.4
56°	407.6	405.9	402.5	401.4	403.3	406.3
56.5°	401.3	399.6	396.3	395.1	397.3	399.9
57°	394.5	393.3	390.1	388.9	391.0	393.5
57.5°	388.3	387.1	383.8	382.8	384.7	387.7
58°	382.2	380.7	377.6	376.4	378.3	381.1
58.5°	375.4	374.4	371.3	370.1	371.7	374.6
59°	369.2	368.1	364.8	363.8	365.1	368.1
59.5°	363.1	361.8	358.4	357.6	359.1	361.8
60°	357.2	355.8	352.2	351.1	352.6	355.5
60.5°	350.3	349.1	345.6	344.5	346.2	349.0
61°	343.8	342.5	339.1	338.1	339.9	342.7
61.5°	337.9	335.8	332.6	331.8	333.4	336.2
62°	331.4	329.3	326.4	325.4	327.0	329.8
62.5°	324.7	322.7	319.8	318.9	320.5	323.3
63°	318.6	316.2	313.1	312.2	313.9	316.8
63.5°	311.5	309.7	306.4	305.8	307.3	310.2
64°	305.6	303.4	300.3	299.2	300.7	303.4
64.5°	299.1	297.0	293.7	292.9	294.2	296.5
65°	292.9	290.6	287.1	286.3	287.8	290.1
65.5°	286.3	284.1	280.5	279.7	281.3	283.7
66°	279.2	277.3	274.3	273.0	274.5	277.0



TEST NUMBER: P579680

CATALOG NUMBER: SMD14S209SWHE-EM - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	259.5	257.5	254.4	253.1	254.5	257.1
68°	253.0	251.0	247.8	246.6	247.9	250.5
68.5°	246.8	244.4	241.4	240.1	241.3	243.8
69°	240.0	237.9	234.8	233.7	234.8	237.0
69.5°	233.3	231.2	228.0	227.1	228.1	230.4
70°	226.8	224.4	221.7	220.7	221.6	223.9
70.5°	220.3	218.1	215.2	214.2	215.0	217.1
71°	213.9	211.5	208.7	207.7	208.4	210.5
71.5°	207.3	204.9	202.0	201.2	201.7	204.0
72°	201.1	198.1	195.5	194.6	195.3	197.5
72.5°	194.4	191.8	189.1	188.1	188.7	190.7
73°	188.0	185.3	182.7	181.7	182.2	184.1
73.5°	181.2	178.7	176.3	175.3	175.7	177.9
74°	175.3	172.5	170.0	168.9	169.4	171.6
74.5°	168.5	166.1	163.4	162.3	162.8	165.0
75°	162.1	159.6	157.1	156.0	156.7	158.6
75.5°	156.0	153.5	150.9	149.8	150.3	152.3
76°	149.8	147.1	144.6	143.5	143.9	145.9
76.5°	143.7	141.0	138.2	137.3	137.7	139.6
77°	137.3	134.5	132.1	130.9	131.5	133.3
77.5°	131.1	128.5	125.9	124.9	125.4	127.1
78°	125.0	122.3	119.9	119.1	119.3	121.1
78.5°	118.8	116.3	113.8	112.8	113.2	115.0
79°	112.9	110.2	108.0	107.0	107.5	108.9
79.5°	106.9	104.3	101.9	101.1	101.5	103.0
80°	100.8	98.3	96.0	95.1	95.6	97.0
80.5°	95.1	92.3	90.2	89.4	89.9	91.3
81°	89.1	86.8	84.8	84.0	84.4	85.6
81.5°	83.4	81.1	79.1	78.4	78.8	79.9
82°	77.7	75.4	73.5	72.8	73.2	74.3
82.5°	72.2	69.7	67.9	67.2	67.5	68.7
83°	66.7	64.0	62.4	61.7	62.0	63.1
83.5°	61.3	58.5	56.9	56.3	56.7	57.8
84°	55.8	53.2	51.6	51.2	51.4	52.5
84.5°	50.9	47.9	46.5	46.0	46.2	47.3
85°	45.4	42.7	41.1	40.9	40.9	42.1
85.5°	40.3	37.5	36.1	35.9	36.1	37.1
86°	34.9	32.5	31.2	31.0	31.2	32.2
86.5°	30.4	27.5	26.5	26.3	26.5	27.5
87°	25.6	23.0	22.0	21.9	22.1	23.0
87.5°	21.0	18.5	17.5	17.6	17.8	18.8
88°	16.6	14.2	13.3	13.5	13.8	14.6
88.5°	12.3	10.2	9.5	9.6	9.9	10.7



TEST NUMBER: P579680

CATALOG NUMBER: SMD14S209SWHE-EM - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	1.7	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: P579680

CATALOG NUMBER: SMD14S209SWHE-EM - 3000K

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°	1.0	0.8	0.7	0.7	0.7	0.7
119.5°	1.0	0.7	0.7	0.8	0.7	0.7
120°	1.0	0.7	0.7	0.7	0.7	0.7
120.5°	1.0	0.7	0.7	0.8	0.7	0.7
121°	1.0	0.8	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°	1.2	0.9	0.8	0.9	0.8	0.8
124.5°	1.2	0.9	0.8	0.9	0.8	0.8
125°	1.2	0.9	0.8	0.9	0.9	0.9
125.5°	1.2	0.9	0.8	1.0	0.9	1.0
126°	1.2	1.0	0.9	1.0	0.9	1.0
126.5°	1.2	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	1.0	1.1	1.0	0.9
128°	1.3	1.1	1.0	1.1	1.0	0.9
128.5°	1.3	1.1	1.0	1.0	1.0	0.9
129°	1.4	1.2	1.0	1.0	1.0	0.9
129.5°	1.3	1.4	1.1	1.2	1.0	0.9
130°	1.4	1.6	1.2	1.4	1.1	1.0
130.5°	1.4	1.6	1.2	1.4	1.2	1.1
131°	1.4	1.6	1.2	1.5	1.3	1.1
131.5°	1.4	1.7	1.2	1.6	1.4	1.1
132°	1.4	1.7	1.3	1.5	1.5	1.1
132.5°	1.4	1.8	1.3	1.6	1.5	1.2
133°	1.4	1.8	1.9	1.6	1.6	1.4
133.5°	1.4	1.8	1.8	1.7	1.6	1.6



TEST NUMBER: P579680

CATALOG NUMBER: SMD14S209SWHE-EM - 3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P579680

CATALOG NUMBER: SMD14S209SWHE-EM - 3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P579680

CATALOG NUMBER: SMD14S209SWHE-EM - 3000K

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°	727.9	727.8	727.5	729.5	731.6	730.4	728.3	730.7	729.6	727.9	727.4
22°	725.4	724.4	724.7	726.7	727.9	727.7	725.1	727.3	727.6	725.0	723.9



44°	543.9	541.4	541.4	543.5	548.5	546.1	544.0	546.4	547.6	543.6	541.7
44.5°	538.8	536.1	536.0	538.3	543.0	540.8	538.7	541.2	541.4	538.3	537.1



66.5°	270.5	268.4	268.7	271.3	277.4	275.3	272.8	274.4	275.3	272.2	271.1
67°	263.5	261.8	262.0	264.7	270.8	268.6	266.4	267.5	268.6	265.4	265.0



89°	7.2	7.1	7.3	7.5	10.3	10.2	10.0	9.8	9.7	8.9	8.5
89.5°	3.5	3.6	4.1	4.1	6.9	6.9	6.7	6.3	6.1	5.6	5.2



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	1.8	1.6	1.4	1.6	1.4	1.4	1.5	1.3
134.5°	1.5	1.7	1.6	1.8	1.5	1.3	1.7	1.4	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	2.6	2.6	2.7	3.0	3.0	2.4	2.2	2.4	2.2	2.3



179°	3.0	3.0	3.0	3.0	3.5	3.4	3.0	3.0	2.8	3.3	3.0
179.5°	3.1	3.0	3.0	3.0	3.5	3.4	3.0	3.0	2.8	3.3	3.0





21.5°	730.0	729.0	728.3	726.7	728.2	727.9
22°	726.9	725.9	725.4	724.0	725.4	725.4



44°	544.4	543.8	540.7	539.5	541.5	543.9
44.5°	539.6	538.8	535.3	534.2	536.3	538.8



66.5°	272.9	270.6	267.6	266.3	267.9	270.5
67°	266.5	264.1	261.1	259.7	261.1	263.5



89°	8.3	6.1	5.8	6.2	6.4	7.2
89.5°	4.9	2.6	2.4	2.7	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	1.8	1.7	1.6	1.6
134.5°	1.5	1.8	1.8	1.6	1.6	1.5



156.5°	2.7	3.1	2.8	2.2	2.6	2.7
157°	2.7	3.1	2.7	2.2	2.6	2.7



179°	3.0	3.3	3.0	3.0	2.8	3.0
179.5°	3.0	3.5	3.0	3.0	2.8	3.1



(END OF REPORT)