

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: P579681

Luminaire Tested: **SMD14S209SWHE-EM - 3500K**

Issue Date: 11/23/2021



Test Information

Test Method: LM-41-14
Report Number: P579681
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 - 3500K
Description: SMD SELECTABLE CCT 3500K
Light Source: SELECTABLE CCT LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

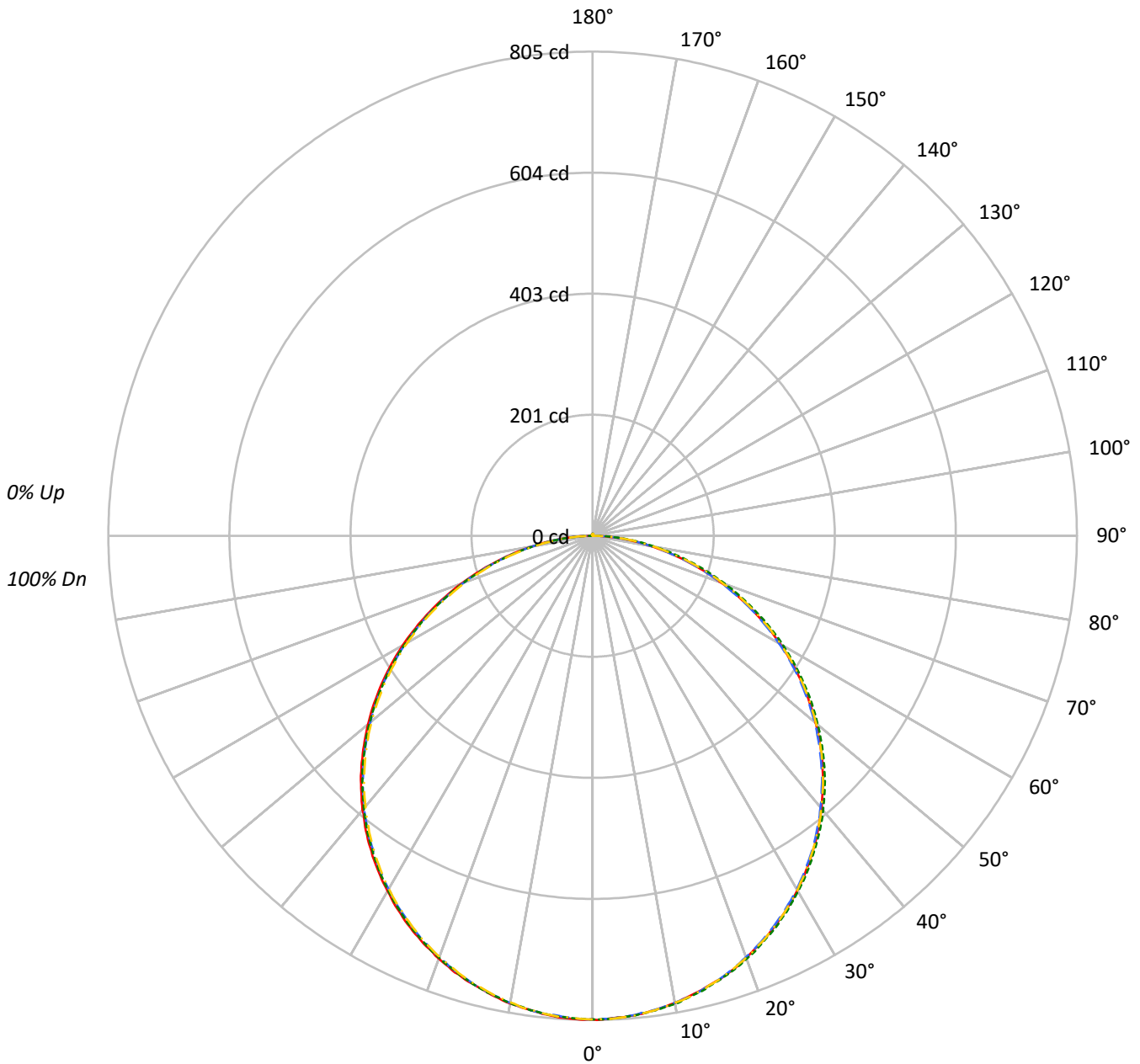
Lumens per Lamp: N/A
Luminaire Lumens: 2340.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
Input Voltage (V): NR
Input Current (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°	8656	8656	8656	8656
5°	8647	8653	8652	8642
10°	8622	8638	8629	8623
15°	8585	8600	8596	8593
20°	8554	8573	8567	8551
25°	8508	8543	8531	8513
30°	8459	8489	8473	8457
35°	8394	8432	8422	8387
40°	8317	8375	8362	8317
45°	8226	8295	8273	8225
50°	8105	8185	8157	8103
55°	7957	8051	8026	7949
60°	7752	7888	7849	7759
65°	7486	7659	7608	7498
70°	7138	7386	7292	7157
75°	6683	7016	6891	6721
80°	6087	6577	6391	6174
85°	5261	6076	5805	5335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	3.2
10°-20°	217.6	9.3
20°-30°	330.2	14.1
30°-40°	399.4	17.1
40°-50°	416.4	17.8
50°-60°	378.6	16.2
60°-70°	291.6	12.5
70°-80°	172.3	7.4
80°-90°	50.8	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°	623.9	26.7
0°-40°	1023.3	43.7
0°-60°	1818.3	77.7
0°-90°	2333.0	99.7
90°-120°	1.4	0.1
90°-150°	4.8	0.2
90°-180°	7.0	0.3
0°-180°	2340.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	804	804	804	804	804	
5°	800	801	801	800	800	76
15°	770	772	771	771	770	218
25°	716	719	718	717	716	330
35°	639	642	641	638	639	400
45°	540	545	544	540	540	417
55°	424	429	428	424	424	379
65°	294	301	299	294	294	291
75°	161	169	166	162	161	170
85°	43	49	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°	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2	804.2
0.5°	805.2	803.9	803.1	804.7	804.3	804.6	804.2	804.3	804.6	804.2	804.4
1°	804.8	802.9	803.3	804.7	804.3	804.7	803.8	803.9	805.1	804.3	804.2
1.5°	803.9	802.6	803.3	803.9	804.1	803.8	804.3	804.7	804.9	804.0	803.4
2°	803.3	803.7	803.7	804.0	803.6	804.7	804.1	804.7	804.1	803.8	803.1
2.5°	802.7	803.2	803.0	804.5	802.9	804.4	803.3	804.2	803.9	803.2	802.7
3°	802.0	802.2	802.2	803.3	802.6	804.0	802.7	803.3	803.3	801.4	801.7
3.5°	802.2	801.7	802.3	802.7	802.2	803.0	802.2	803.8	803.0	801.4	801.6
4°	801.7	800.2	801.4	802.3	801.5	803.0	801.8	803.4	802.9	801.2	800.0
4.5°	800.9	800.5	800.2	801.7	801.3	802.0	801.6	802.6	801.8	801.1	799.3
5°	800.3	799.3	799.8	800.7	800.8	801.2	800.7	801.6	800.7	800.3	799.0
5.5°	799.3	798.8	798.6	799.6	799.5	800.7	799.9	800.7	799.8	799.7	798.6
6°	799.0	798.0	796.7	798.3	798.2	800.4	798.7	799.0	799.3	798.7	798.6
6.5°	797.5	796.7	795.9	798.6	797.8	799.5	797.4	798.9	797.7	797.7	796.9
7°	795.9	796.0	795.9	797.7	796.6	798.1	796.7	798.3	796.5	795.6	796.5
7.5°	795.4	795.0	794.6	796.7	795.9	797.1	795.5	797.1	795.2	794.7	795.6
8°	794.0	793.5	793.7	794.9	795.1	795.9	794.0	796.1	794.3	794.0	793.8
8.5°	792.5	791.9	792.5	794.1	793.3	794.6	792.6	794.7	793.3	792.8	791.8
9°	791.2	790.9	790.7	792.5	792.6	792.9	791.3	793.7	791.9	791.4	791.6
9.5°	789.6	789.9	789.9	791.2	791.3	791.6	789.8	791.9	790.8	790.4	790.2
10°	788.8	788.6	788.2	789.9	790.3	790.6	788.1	791.4	789.5	789.2	788.8
10.5°	787.3	786.9	786.8	788.7	789.2	788.3	787.1	789.1	788.4	787.3	787.3
11°	785.1	785.5	785.4	787.2	786.8	787.0	786.2	786.6	786.7	785.4	785.6
11.5°	783.5	784.0	784.1	785.7	784.7	785.7	784.2	785.6	784.4	784.0	783.7
12°	781.9	782.3	782.9	783.6	782.9	784.1	783.1	784.1	783.2	783.2	781.9
12.5°	779.8	780.9	781.1	781.9	781.3	782.3	780.0	782.6	781.2	781.1	779.8
13°	778.4	778.0	779.0	780.0	779.7	780.2	778.8	780.5	779.4	779.1	778.6
13.5°	776.6	776.1	777.1	778.1	778.3	778.1	777.0	778.4	776.9	777.3	776.2
14°	774.4	774.5	774.7	776.3	776.6	775.7	775.4	776.9	775.3	774.6	774.6
14.5°	772.4	772.4	772.7	774.4	773.8	774.3	772.1	773.9	773.0	772.9	773.2
15°	770.4	770.7	771.3	772.3	771.7	771.9	770.6	772.4	771.4	770.4	770.6
15.5°	768.6	768.3	768.8	769.6	770.0	770.1	768.9	769.7	769.8	768.0	767.8
16°	767.3	766.3	766.4	767.4	768.1	768.4	767.0	767.6	767.8	766.4	765.6
16.5°	764.6	764.5	764.1	765.3	765.4	766.2	764.4	765.1	765.3	764.5	763.5
17°	762.5	761.8	761.8	763.1	763.5	764.0	761.8	763.2	762.7	761.8	761.0
17.5°	760.0	758.9	759.2	760.8	761.2	761.7	759.9	761.3	761.2	759.2	759.0
18°	757.8	756.3	756.8	758.2	759.1	759.1	757.0	757.7	758.9	757.2	756.2
18.5°	755.5	753.7	753.9	755.8	756.7	756.3	754.5	756.4	755.5	754.4	754.0
19°	752.8	751.4	751.3	753.1	754.1	753.4	751.6	753.8	753.2	751.7	750.6
19.5°	749.6	749.0	747.9	750.1	751.3	750.8	749.3	750.9	750.8	749.5	748.3
20°	746.8	745.3	745.4	747.3	748.4	748.3	746.3	748.4	747.9	746.7	746.2
20.5°	743.6	742.4	742.8	744.5	746.0	745.9	743.7	745.2	745.5	743.1	742.9
21°	740.6	740.0	740.1	741.6	743.6	743.0	741.5	742.5	742.0	740.5	739.7



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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°	732.0	730.4	731.2	733.0	734.3	734.0	732.1	733.8	734.2	731.8	730.7
23°	729.3	727.9	727.8	730.4	731.1	731.0	729.4	730.5	730.9	728.6	728.0
23.5°	726.2	724.8	724.5	727.4	727.6	728.2	726.1	728.0	727.4	725.3	724.5
24°	723.0	721.7	721.3	724.2	725.4	724.6	722.5	725.1	724.9	722.6	721.5
24.5°	719.7	718.6	718.3	720.7	722.3	721.2	720.2	721.3	721.7	719.1	718.0
25°	716.4	715.1	714.8	717.7	719.3	717.9	715.9	718.1	718.3	715.4	714.6
25.5°	712.9	711.6	711.1	714.1	715.9	714.8	712.6	714.5	715.0	712.6	711.0
26°	709.7	708.2	707.9	710.5	711.9	711.4	709.7	711.0	712.0	709.0	707.9
26.5°	706.2	704.2	704.6	706.9	708.4	707.9	706.3	707.4	708.3	705.3	704.5
27°	702.9	700.9	701.0	703.8	705.5	704.4	702.8	704.2	704.2	702.5	701.0
27.5°	699.3	697.8	697.2	700.1	702.1	701.2	698.9	699.5	700.8	698.8	697.4
28°	695.8	694.0	693.6	696.0	698.0	697.4	695.0	696.5	697.7	694.6	694.0
28.5°	692.0	690.0	690.2	692.4	693.8	693.5	691.8	692.8	693.7	691.1	690.3
29°	688.2	686.0	686.5	688.8	690.7	689.7	688.3	689.4	689.7	688.0	687.2
29.5°	684.3	682.1	682.6	685.1	686.8	685.9	684.3	685.4	685.5	683.9	681.8
30°	680.6	678.5	678.5	681.4	683.0	681.9	680.7	681.5	681.7	680.1	678.5
30.5°	676.7	674.5	674.4	677.4	679.1	678.1	676.1	677.4	678.0	676.0	674.2
31°	672.8	670.5	670.3	673.4	675.2	673.9	671.8	673.7	674.6	672.0	670.4
31.5°	668.8	666.8	666.2	669.4	671.6	669.9	668.3	669.8	670.7	668.1	666.1
32°	664.5	662.5	662.3	665.1	667.6	665.9	664.3	665.9	666.3	664.5	662.2
32.5°	660.2	658.2	657.9	661.1	663.2	661.6	659.8	662.0	662.2	660.3	659.2
33°	655.8	653.9	653.7	656.5	659.3	657.5	655.6	657.8	657.9	655.5	654.9
33.5°	651.8	649.6	649.6	652.4	654.9	653.3	651.2	653.3	654.0	651.1	649.7
34°	647.6	645.3	645.6	648.0	650.6	649.0	646.8	649.0	650.2	646.9	645.0
34.5°	643.1	640.9	641.2	643.6	646.0	644.6	642.6	645.6	646.0	642.6	641.3
35°	638.8	636.5	636.6	639.3	641.7	640.3	638.1	641.8	640.9	638.3	636.8
35.5°	634.5	632.1	632.0	635.0	637.3	635.9	634.0	636.6	636.6	634.2	632.7
36°	629.9	627.7	627.8	630.5	633.1	631.6	629.5	632.1	632.6	629.6	628.3
36.5°	625.2	623.0	623.2	626.2	628.8	626.9	624.6	627.0	628.0	624.9	624.5
37°	620.7	618.1	618.3	621.5	624.2	622.5	620.0	622.4	622.9	621.0	619.0
37.5°	615.8	613.3	613.5	616.8	619.7	617.9	615.8	617.6	618.9	615.9	614.9
38°	610.9	608.7	608.8	611.9	614.9	613.0	611.1	612.8	614.4	611.9	609.9
38.5°	606.2	604.0	604.0	607.2	610.5	608.4	606.0	608.7	609.1	606.8	605.1
39°	601.5	599.2	599.4	602.3	605.8	603.8	601.5	603.4	604.1	602.0	600.8
39.5°	596.8	594.5	594.3	597.6	600.8	599.1	596.3	599.0	599.1	596.5	596.0
40°	591.9	589.5	589.4	592.4	596.0	593.9	591.2	593.9	595.1	591.9	590.7
40.5°	586.9	584.6	584.3	587.3	591.0	588.9	586.0	589.1	589.7	586.8	585.4
41°	581.7	579.5	579.4	582.1	586.0	584.3	581.4	584.1	585.1	582.0	580.6
41.5°	576.6	574.4	574.1	577.1	581.0	579.3	576.6	578.9	579.7	576.8	575.3
42°	571.4	569.3	569.0	571.8	576.1	574.2	571.4	573.6	574.7	571.5	570.7
42.5°	566.6	564.3	564.2	566.8	571.0	568.8	566.6	568.9	569.5	566.7	565.0
43°	561.5	559.2	559.2	561.4	565.8	563.8	561.6	563.9	564.5	561.7	559.6
43.5°	556.2	553.9	553.9	556.0	561.1	558.6	556.2	558.3	559.8	556.0	554.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	540.4	537.5	537.5	540.1	544.9	542.4	540.5	542.5	543.5	539.7	538.8
45.5°	535.1	532.3	532.1	534.8	539.4	536.9	534.8	536.7	538.1	534.1	533.8
46°	529.5	526.8	526.8	529.2	533.9	531.8	529.5	531.3	532.2	528.9	528.5
46.5°	524.0	521.6	521.1	523.5	528.5	526.5	524.3	525.6	527.1	524.1	522.8
47°	518.2	515.8	515.5	518.0	523.0	521.1	518.6	520.1	521.1	518.2	517.4
47.5°	512.7	510.3	510.0	512.5	517.1	515.1	512.9	514.9	515.4	512.1	511.1
48°	506.9	504.6	504.3	506.8	511.6	509.7	507.3	509.2	510.0	506.5	505.6
48.5°	501.5	498.9	498.6	501.2	505.9	504.1	501.2	503.5	504.2	501.5	499.8
49°	495.7	493.2	493.3	495.7	500.4	498.5	495.7	497.9	499.0	495.4	494.1
49.5°	489.9	487.5	487.7	489.9	494.6	492.9	490.1	492.3	493.0	490.1	488.2
50°	484.0	481.7	481.8	484.1	488.8	486.9	484.8	486.2	487.1	484.0	482.4
50.5°	478.3	475.8	475.5	478.0	482.8	481.0	478.7	480.5	481.5	478.3	476.6
51°	472.4	469.8	469.5	472.1	477.4	475.4	472.7	474.5	475.5	472.4	470.6
51.5°	466.4	463.9	463.5	466.2	471.6	469.5	467.0	469.1	469.9	466.9	464.9
52°	460.2	458.0	457.7	460.5	465.5	463.3	461.1	462.8	463.9	460.2	459.3
52.5°	454.5	451.8	451.6	454.2	459.7	457.6	455.2	457.1	458.1	454.2	453.1
53°	448.3	445.7	445.6	448.3	453.8	451.5	449.0	450.3	451.9	448.5	447.1
53.5°	442.2	439.6	439.6	442.4	447.7	445.4	443.2	444.6	445.3	442.3	441.0
54°	435.9	433.5	433.3	436.2	441.7	439.4	437.0	438.1	439.7	436.6	435.2
54.5°	430.1	427.7	427.2	430.2	435.7	433.3	430.9	432.1	433.9	430.5	429.3
55°	424.0	421.5	421.3	424.1	429.0	427.3	425.1	426.1	427.7	424.6	423.3
55.5°	417.7	415.2	414.9	417.7	423.0	421.2	418.7	420.0	421.3	417.9	417.0
56°	411.5	409.0	408.8	411.5	416.8	414.9	412.5	413.8	415.3	411.8	410.9
56.5°	405.1	402.5	402.4	405.1	410.5	408.7	406.3	407.5	408.8	405.7	404.4
57°	398.6	396.2	396.3	399.0	404.4	402.4	400.0	401.3	402.5	399.6	398.0
57.5°	392.7	389.7	389.9	392.6	398.1	396.2	393.5	394.9	396.2	393.3	391.6
58°	386.1	383.5	383.5	386.2	392.1	389.9	387.2	388.4	389.9	387.0	385.4
58.5°	379.5	377.0	377.0	379.8	385.6	383.5	381.2	381.8	383.7	380.7	379.0
59°	372.9	370.7	370.6	373.6	379.1	376.7	374.6	375.2	377.2	374.1	372.6
59.5°	366.5	364.3	364.2	367.0	372.5	370.6	368.0	369.1	370.9	367.6	366.0
60°	360.1	357.9	357.8	360.3	366.4	364.6	361.6	362.9	364.6	361.2	359.8
60.5°	353.5	351.5	351.3	353.6	359.9	357.9	355.4	356.3	358.4	354.9	353.1
61°	347.2	345.0	344.7	347.1	353.5	351.2	348.8	349.6	351.9	348.2	346.6
61.5°	340.6	338.5	338.3	340.5	346.9	344.6	342.1	343.2	344.8	341.8	340.3
62°	334.1	332.0	331.5	334.0	340.6	338.6	336.0	336.8	338.2	335.6	333.7
62.5°	327.5	325.3	325.0	327.6	334.2	331.8	329.3	330.3	331.6	328.9	326.9
63°	320.9	318.6	318.5	320.8	327.5	324.5	322.6	323.6	325.2	322.2	320.8
63.5°	314.3	312.0	312.1	314.1	320.9	318.5	316.2	317.2	318.6	315.7	314.0
64°	307.4	305.3	305.6	307.7	314.1	311.5	309.6	310.6	311.8	309.2	307.5
64.5°	300.4	298.6	298.9	301.1	307.2	305.2	302.9	304.0	305.3	302.6	300.8
65°	293.9	292.0	292.4	294.7	300.7	298.5	296.4	297.5	298.7	295.7	294.0
65.5°	287.4	285.3	285.7	288.1	294.1	292.0	289.7	291.1	292.2	289.5	287.6
66°	280.6	278.6	278.9	281.5	287.7	285.4	283.1	284.5	285.4	282.7	281.0



TEST NUMBER: P579681

CATALOG NUMBER: SMD14S209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	260.5	258.5	258.8	261.2	267.7	265.6	263.0	264.4	265.5	262.2	261.0
68°	253.7	251.9	252.2	254.7	261.1	258.8	256.4	257.6	258.7	255.8	254.4
68.5°	247.0	245.2	245.5	248.1	254.6	252.2	249.9	250.9	252.1	249.3	247.8
69°	240.0	238.5	239.0	241.5	248.1	245.9	243.8	244.3	245.2	242.7	241.6
69.5°	233.4	231.7	232.3	234.7	241.0	239.0	236.5	237.4	238.6	235.9	234.6
70°	226.8	225.1	225.8	228.1	234.7	232.3	230.2	230.9	231.7	229.3	228.0
70.5°	219.9	218.8	219.2	221.6	228.2	225.9	224.0	224.3	225.2	222.9	221.5
71°	213.3	212.1	212.7	214.8	221.2	219.4	217.3	217.7	218.7	215.9	215.2
71.5°	206.7	205.4	206.1	208.2	214.7	212.6	210.6	211.1	212.0	209.5	208.7
72°	200.1	198.8	199.3	201.4	208.1	206.1	203.9	204.4	205.2	202.6	202.0
72.5°	193.2	192.3	192.8	194.6	201.7	199.6	197.5	197.8	198.3	196.2	195.3
73°	186.5	185.7	186.3	188.3	195.1	193.1	190.8	191.2	191.9	189.4	188.8
73.5°	180.2	179.2	179.7	181.8	188.4	186.4	184.4	184.7	185.4	183.1	182.5
74°	173.8	172.5	173.2	175.2	181.8	180.2	177.8	178.1	178.8	176.5	175.9
74.5°	167.2	166.0	166.8	168.6	175.4	173.6	171.3	171.4	172.3	170.2	169.2
75°	160.7	159.6	160.4	162.4	168.7	167.0	164.9	165.1	165.7	163.8	162.8
75.5°	154.2	153.5	154.1	155.9	162.6	160.6	158.6	158.7	159.4	157.3	156.7
76°	147.8	146.8	147.6	149.5	156.2	154.5	152.3	152.6	153.2	150.8	150.3
76.5°	141.5	140.6	141.4	142.8	149.6	148.1	145.8	146.2	146.6	144.6	143.8
77°	135.0	134.1	134.9	136.9	143.3	141.8	139.5	139.9	140.1	138.2	137.5
77.5°	128.7	127.9	128.9	130.8	137.1	135.5	133.3	133.4	133.8	132.2	131.5
78°	122.6	121.7	122.6	124.6	130.7	129.0	127.1	127.2	127.6	125.9	125.3
78.5°	116.4	115.6	116.8	118.8	124.6	123.1	121.0	120.8	121.5	119.7	119.3
79°	110.3	109.5	110.7	112.7	118.5	116.8	114.9	114.7	115.3	113.5	113.0
79.5°	104.3	103.5	104.6	106.7	112.4	110.8	109.0	108.6	109.1	107.5	107.1
80°	98.2	97.7	98.6	100.7	106.1	104.7	102.9	102.7	103.1	101.4	101.1
80.5°	92.4	91.8	92.7	94.6	100.3	98.7	97.0	96.9	97.1	95.4	95.4
81°	86.7	86.4	87.1	89.0	94.2	92.7	91.3	90.9	91.1	89.7	89.5
81.5°	80.9	80.6	81.5	83.2	88.5	87.0	85.5	85.3	85.4	83.8	83.7
82°	75.3	74.9	75.8	77.5	82.4	81.3	79.7	79.4	79.5	78.1	77.8
82.5°	69.6	69.2	70.1	71.7	76.7	75.6	73.8	73.9	73.8	72.6	72.3
83°	64.0	63.6	64.6	66.0	71.1	70.1	68.4	68.3	68.2	67.0	66.7
83.5°	58.5	58.1	59.1	60.5	65.7	64.4	63.0	62.7	62.8	61.5	61.0
84°	53.2	52.8	53.8	55.0	59.9	59.0	57.5	57.3	57.5	56.1	55.8
84.5°	47.9	47.6	48.4	49.6	54.4	53.7	52.2	52.1	52.2	51.0	50.5
85°	42.6	42.3	43.0	44.3	49.2	48.3	46.8	46.8	47.0	45.7	45.3
85.5°	37.6	37.4	38.1	39.0	43.8	43.1	41.9	41.7	41.8	40.5	40.1
86°	32.6	32.3	33.1	33.8	38.7	37.9	36.6	36.7	36.8	35.6	35.2
86.5°	27.8	27.5	28.2	28.9	33.7	33.0	31.9	31.9	31.9	30.7	30.2
87°	23.3	23.2	23.5	24.2	28.6	28.1	27.1	27.1	27.1	25.9	25.4
87.5°	19.0	18.8	19.2	19.7	23.6	23.1	22.4	22.6	22.6	21.4	20.9
88°	14.8	14.6	15.0	15.4	19.2	18.8	18.1	18.1	18.2	17.0	16.6
88.5°	10.8	10.7	11.0	11.3	14.6	14.5	13.9	13.8	13.9	12.7	12.2



TEST NUMBER: P579681

CATALOG NUMBER: SMD14S209SWHE-EM - 3500K

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	0.7	0.7	0.7	0.5	0.7	0.7



TEST NUMBER: P579681

CATALOG NUMBER: SMD14S209SWHE-EM - 3500K

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: P579681

CATALOG NUMBER: SMD14S209SWHE-EM - 3500K

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: P579681

CATALOG NUMBER: SMD14S209SWHE-EM - 3500K

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	3.2	2.8	2.3	2.4	2.3	2.4
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	2.8
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	3.0	2.9	2.8	2.7	2.9
163°	2.8	2.9	2.8	2.9	3.3	3.3	3.0	2.9	2.9	2.7	3.0
163.5°	2.7	2.9	2.8	3.0	3.3	3.3	3.0	3.0	2.9	2.7	3.0
164°	2.9	2.9	2.9	3.1	3.3	3.3	3.0	3.1	2.9	2.7	3.0
164.5°	2.9	2.9	2.9	3.0	3.3	3.3	3.0	3.1	2.9	2.8	3.0
165°	2.8	2.9	2.9	3.0	3.3	3.3	3.0	3.1	2.9	2.8	3.0
165.5°	2.8	3.0	2.9	3.1	3.3	3.3	3.0	3.1	2.9	2.9	3.0
166°	2.8	3.0	3.0	3.1	3.3	3.3	3.0	3.1	2.9	2.9	3.0
166.5°	2.8	3.0	3.0	3.1	3.3	3.3	3.0	3.1	2.9	3.0	3.0
167°	2.8	3.1	3.0	3.1	3.3	3.3	3.0	3.1	2.9	3.0	3.0
167.5°	2.8	3.1	3.0	3.1	3.3	3.3	3.0	3.1	2.9	3.0	3.0
168°	2.8	3.1	3.0	3.1	3.3	3.3	3.0	3.1	2.9	3.0	3.0
168.5°	2.8	3.1	3.0	3.1	3.3	3.3	3.0	3.1	2.9	3.1	3.0
169°	2.8	3.1	3.0	3.1	3.3	3.3	3.0	3.1	2.9	3.1	3.0
169.5°	2.8	3.1	3.0	3.1	3.3	3.3	3.0	3.1	2.9	3.2	3.0
170°	2.8	3.1	3.0	3.1	3.3	3.3	3.0	3.1	2.9	3.1	3.0
170.5°	2.8	3.1	3.0	3.1	3.3	3.3	3.0	3.1	2.9	3.2	3.0
171°	2.8	3.1	3.1	3.1	3.3	3.3	3.0	3.1	2.9	3.2	3.0
171.5°	2.8	3.1	3.0	3.1	3.3	3.4	3.0	3.1	2.9	3.2	3.0
172°	2.8	3.1	3.0	3.1	3.3	3.4	3.0	3.1	2.9	3.3	3.0
172.5°	2.8	3.1	3.0	3.1	3.3	3.4	3.0	3.1	2.9	3.3	3.0
173°	2.8	3.1	3.0	3.1	3.3	3.4	3.0	3.1	2.9	3.3	3.0
173.5°	2.8	3.1	3.0	3.1	3.3	3.5	3.0	3.1	2.9	3.3	3.0
174°	2.8	3.1	3.0	3.1	3.3	3.4	3.0	3.1	2.9	3.3	3.0
174.5°	2.8	3.1	3.0	3.1	3.3	3.4	3.0	3.1	2.9	3.3	3.0
175°	2.8	3.1	3.0	3.1	3.3	3.4	3.0	3.1	2.9	3.3	3.0
175.5°	2.8	3.1	3.0	3.1	3.3	3.4	3.0	3.1	2.9	3.3	3.0
176°	2.8	3.1	3.0	3.1	3.3	3.4	3.0	3.1	2.9	3.3	3.0
176.5°	2.8	3.1	3.0	3.1	3.3	3.4	3.0	3.1	2.9	3.3	3.0
177°	2.8	3.1	3.0	3.1	3.3	3.4	3.0	3.1	2.9	3.4	3.0
177.5°	2.8	3.1	3.0	3.1	3.4	3.5	3.0	3.1	2.9	3.4	3.0
178°	2.8	3.1	3.0	3.1	3.5	3.5	3.0	3.1	2.9	3.3	3.0
178.5°	2.9	3.1	3.0	3.1	3.6	3.5	3.0	3.1	2.9	3.3	3.0



TEST NUMBER: P579681

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CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P579681

CATALOG NUMBER: SMD14S209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	804.2	804.2	804.2	804.2	804.2	804.2
0.5°	804.3	804.3	804.1	804.0	804.3	805.2
1°	805.1	803.5	804.0	803.7	803.7	804.8
1.5°	805.0	802.8	803.7	803.5	804.0	803.9
2°	804.8	803.2	803.3	802.8	803.9	803.3
2.5°	804.5	802.6	803.0	801.6	803.3	802.7
3°	804.2	802.3	803.3	801.7	802.3	802.0
3.5°	803.5	801.5	802.5	801.7	801.9	802.2
4°	803.3	801.2	802.3	801.8	801.4	801.7
4.5°	802.8	801.0	801.9	800.6	801.7	800.9
5°	801.9	799.8	801.3	799.9	800.2	800.3
5.5°	800.8	799.1	800.5	799.3	799.4	799.3
6°	798.6	798.2	798.8	798.0	798.7	799.0
6.5°	798.8	796.9	797.9	797.2	797.2	797.5
7°	798.1	795.8	796.6	795.7	795.3	795.9
7.5°	797.4	795.4	795.0	794.7	794.3	795.4
8°	795.5	793.5	794.3	794.5	793.1	794.0
8.5°	792.8	792.3	793.4	793.1	792.2	792.5
9°	792.2	791.2	792.9	790.9	791.5	791.2
9.5°	791.3	790.6	791.4	789.1	789.6	789.6
10°	789.4	788.9	789.9	787.9	788.6	788.8
10.5°	788.3	787.5	788.1	786.1	787.0	787.3
11°	786.9	785.3	785.7	784.5	784.9	785.1
11.5°	784.6	783.6	784.4	783.3	784.2	783.5
12°	783.2	782.2	782.4	781.5	782.3	781.9
12.5°	781.5	780.2	780.2	779.5	779.8	779.8
13°	779.8	779.3	778.5	777.5	777.9	778.4
13.5°	778.0	777.1	777.4	775.5	776.3	776.6
14°	776.1	775.3	774.8	773.4	774.8	774.4
14.5°	773.5	773.3	772.9	771.3	772.7	772.4
15°	772.3	771.1	770.8	769.7	770.7	770.4
15.5°	769.7	768.8	769.2	767.4	768.6	768.6
16°	767.7	766.6	766.6	765.2	766.3	767.3
16.5°	765.5	765.2	764.3	762.8	764.6	764.6
17°	763.0	761.9	761.7	760.6	762.0	762.5
17.5°	761.0	758.7	758.9	757.4	759.2	760.0
18°	758.4	756.3	756.3	754.8	756.5	757.8
18.5°	755.4	754.3	754.0	751.8	754.0	755.5
19°	753.3	752.3	752.0	750.0	751.8	752.8
19.5°	750.4	749.3	749.1	747.5	749.1	749.6
20°	747.4	746.5	746.4	744.9	746.2	746.8
20.5°	745.0	743.6	743.4	742.2	743.3	743.6
21°	742.6	741.2	740.6	739.3	740.7	740.6



TEST NUMBER: P579681

CATALOG NUMBER: SMD14S209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	733.4	732.3	731.6	730.2	731.8	732.0
23°	730.8	729.1	728.5	727.4	728.6	729.3
23.5°	727.6	725.9	725.4	724.1	726.0	726.2
24°	724.4	722.9	722.0	720.5	722.8	723.0
24.5°	721.5	720.0	718.4	717.4	719.6	719.7
25°	717.9	716.8	715.1	714.0	716.1	716.4
25.5°	714.1	713.5	711.8	710.4	712.6	712.9
26°	710.9	710.1	708.3	707.1	709.0	709.7
26.5°	707.1	706.5	704.5	703.5	705.4	706.2
27°	703.6	702.6	700.9	699.9	701.9	702.9
27.5°	699.5	699.1	697.0	696.6	698.3	699.3
28°	696.0	695.6	693.4	693.1	694.5	695.8
28.5°	692.4	691.8	689.6	689.4	690.8	692.0
29°	688.9	687.9	685.8	685.4	687.1	688.2
29.5°	685.2	684.1	681.8	681.4	683.3	684.3
30°	681.4	680.4	678.0	677.5	679.4	680.6
30.5°	676.3	676.5	674.1	673.6	675.4	676.7
31°	673.5	672.5	670.2	669.7	671.3	672.8
31.5°	669.5	668.5	666.1	665.6	667.1	668.8
32°	665.2	664.5	661.8	661.3	663.2	664.5
32.5°	660.9	660.2	657.5	656.8	659.1	660.2
33°	657.0	655.6	653.4	652.5	654.6	655.8
33.5°	652.3	651.5	649.0	648.4	650.3	651.8
34°	648.3	647.3	644.4	644.0	646.1	647.6
34.5°	643.9	642.9	640.0	639.6	641.6	643.1
35°	639.4	638.3	635.7	635.2	637.4	638.8
35.5°	634.8	634.0	631.3	630.7	632.9	634.5
36°	630.4	629.7	626.9	626.2	628.3	629.9
36.5°	625.5	625.1	622.3	621.5	623.5	625.2
37°	620.9	620.6	617.9	616.9	619.1	620.7
37.5°	616.4	615.8	613.1	612.0	614.1	615.8
38°	611.7	611.1	608.4	607.2	609.2	610.9
38.5°	607.2	606.3	603.5	602.3	604.7	606.2
39°	602.6	601.4	598.7	597.6	600.1	601.5
39.5°	597.9	596.6	593.6	592.6	595.1	596.8
40°	592.7	591.9	588.8	587.5	589.9	591.9
40.5°	587.9	586.6	583.8	582.4	585.0	586.9
41°	582.8	581.5	578.9	577.5	579.9	581.7
41.5°	577.6	576.3	573.7	572.6	574.5	576.6
42°	572.6	571.3	568.8	567.5	569.1	571.4
42.5°	567.4	566.2	563.5	562.3	564.3	566.6
43°	562.4	561.2	558.2	557.0	559.1	561.5
43.5°	556.9	556.0	552.9	551.7	553.9	556.2



TEST NUMBER: P579681

CATALOG NUMBER: SMD14S209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	541.2	540.3	536.9	535.7	538.1	540.4
45.5°	535.9	534.7	531.6	530.3	532.8	535.1
46°	530.5	528.9	526.2	524.8	527.4	529.5
46.5°	525.0	523.5	520.6	519.2	521.9	524.0
47°	519.6	517.9	515.0	513.7	516.1	518.2
47.5°	513.7	512.4	509.2	508.0	510.2	512.7
48°	508.1	506.9	503.6	502.5	504.2	506.9
48.5°	502.0	501.2	497.9	496.9	498.8	501.5
49°	496.6	495.8	492.3	491.1	493.4	495.7
49.5°	491.3	489.8	486.5	485.2	487.6	489.9
50°	485.1	483.9	480.6	479.3	481.6	484.0
50.5°	478.9	477.9	474.6	473.3	475.5	478.3
51°	473.1	472.0	468.7	467.3	469.6	472.4
51.5°	467.3	466.0	462.8	461.6	463.8	466.4
52°	461.6	460.1	456.7	455.6	458.0	460.2
52.5°	455.4	454.1	450.7	449.4	451.8	454.5
53°	449.6	448.0	444.6	443.4	445.7	448.3
53.5°	443.4	441.7	438.4	437.3	439.6	442.2
54°	437.2	435.6	432.4	431.0	433.2	435.9
54.5°	431.3	429.5	426.2	425.2	427.4	430.1
55°	424.9	423.6	420.1	419.0	421.2	424.0
55.5°	419.0	417.3	413.9	412.8	415.0	417.7
56°	412.9	411.1	407.7	406.6	408.5	411.5
56.5°	406.5	404.8	401.4	400.3	402.4	405.1
57°	399.6	398.4	395.1	394.0	396.1	398.6
57.5°	393.3	392.1	388.8	387.8	389.7	392.7
58°	387.1	385.7	382.5	381.3	383.2	386.1
58.5°	380.3	379.2	376.1	374.9	376.5	379.5
59°	374.0	372.9	369.5	368.5	369.8	372.9
59.5°	367.8	366.5	363.0	362.3	363.8	366.5
60°	361.8	360.4	356.7	355.7	357.2	360.1
60.5°	354.8	353.6	350.1	349.0	350.6	353.5
61°	348.3	347.0	343.5	342.5	344.3	347.2
61.5°	342.2	340.2	336.9	336.1	337.7	340.6
62°	335.7	333.6	330.6	329.6	331.2	334.1
62.5°	328.9	326.9	324.0	323.0	324.6	327.5
63°	322.7	320.3	317.2	316.3	318.0	320.9
63.5°	315.6	313.7	310.4	309.8	311.2	314.3
64°	309.6	307.3	304.2	303.1	304.6	307.4
64.5°	303.0	300.9	297.5	296.7	298.0	300.4
65°	296.7	294.4	290.9	290.0	291.5	293.9
65.5°	290.0	287.8	284.1	283.3	284.9	287.4
66°	282.8	280.9	277.8	276.5	278.1	280.6



TEST NUMBER: P579681

CATALOG NUMBER: SMD14S209SWHE-EM - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	262.8	260.8	257.7	256.3	257.8	260.5
68°	256.3	254.3	251.0	249.8	251.1	253.7
68.5°	250.0	247.5	244.5	243.2	244.4	247.0
69°	243.1	241.0	237.8	236.7	237.8	240.0
69.5°	236.4	234.2	230.9	230.1	231.1	233.4
70°	229.7	227.4	224.6	223.5	224.5	226.8
70.5°	223.2	221.0	218.0	216.9	217.8	219.9
71°	216.7	214.2	211.4	210.4	211.1	213.3
71.5°	210.0	207.6	204.7	203.8	204.3	206.7
72°	203.7	200.7	198.1	197.1	197.8	200.1
72.5°	197.0	194.3	191.6	190.6	191.1	193.2
73°	190.5	187.7	185.1	184.1	184.5	186.5
73.5°	183.5	181.1	178.6	177.5	178.0	180.2
74°	177.6	174.7	172.2	171.1	171.6	173.8
74.5°	170.6	168.2	165.5	164.4	164.9	167.2
75°	164.2	161.6	159.2	158.0	158.7	160.7
75.5°	158.0	155.5	152.9	151.7	152.2	154.2
76°	151.8	149.0	146.4	145.4	145.8	147.8
76.5°	145.6	142.8	140.0	139.1	139.5	141.5
77°	139.1	136.2	133.8	132.6	133.2	135.0
77.5°	132.8	130.2	127.5	126.6	127.0	128.7
78°	126.6	123.9	121.4	120.6	120.9	122.6
78.5°	120.4	117.8	115.3	114.3	114.7	116.4
79°	114.4	111.6	109.4	108.4	108.9	110.3
79.5°	108.3	105.6	103.2	102.4	102.8	104.3
80°	102.1	99.6	97.2	96.3	96.8	98.2
80.5°	96.4	93.5	91.3	90.6	91.0	92.4
81°	90.3	87.9	85.9	85.1	85.4	86.7
81.5°	84.5	82.1	80.2	79.4	79.8	80.9
82°	78.8	76.4	74.5	73.8	74.2	75.3
82.5°	73.2	70.7	68.8	68.1	68.3	69.6
83°	67.6	64.9	63.2	62.5	62.8	64.0
83.5°	62.1	59.3	57.6	57.0	57.4	58.5
84°	56.5	53.9	52.3	51.8	52.1	53.2
84.5°	51.5	48.5	47.1	46.6	46.8	47.9
85°	46.0	43.2	41.7	41.4	41.4	42.6
85.5°	40.8	38.0	36.6	36.3	36.5	37.6
86°	35.3	32.9	31.6	31.4	31.6	32.6
86.5°	30.8	27.9	26.8	26.7	26.8	27.8
87°	25.9	23.3	22.3	22.2	22.4	23.3
87.5°	21.3	18.7	17.8	17.8	18.1	19.0
88°	16.8	14.3	13.5	13.7	14.0	14.8
88.5°	12.4	10.3	9.6	9.8	10.0	10.8



TEST NUMBER: P579681

CATALOG NUMBER: SMD14S209SWHE-EM - 3500K

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: P579681

CATALOG NUMBER: SMD14S209SWHE-EM - 3500K

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: P579681

CATALOG NUMBER: SMD14S209SWHE-EM - 3500K

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: P579681

CATALOG NUMBER: SMD14S209SWHE-EM - 3500K

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	3.4	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	3.0	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	3.0	2.9	2.8
178.5°	3.1	3.4	3.1	3.0	2.9	2.9



TEST NUMBER: P579681

CATALOG NUMBER: SMD14S209SWHE-EM - 3500K

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°	737.4	737.2	737.0	739.0	741.1	739.9	737.7	740.2	739.1	737.4	736.8
22°	734.8	733.8	734.1	736.1	737.4	737.2	734.6	736.7	737.0	734.4	733.3



44°	551.0	548.4	548.4	550.6	555.7	553.2	551.0	553.5	554.7	550.7	548.8
44.5°	545.7	543.0	542.9	545.3	550.1	547.8	545.7	548.3	548.5	545.3	544.1



66.5°	274.0	271.9	272.2	274.8	281.0	278.9	276.3	277.9	278.9	275.8	274.6
67°	266.9	265.2	265.4	268.2	274.3	272.1	269.9	270.9	272.0	268.9	268.5



89°	7.3	7.2	7.3	7.6	10.5	10.3	10.1	9.9	9.8	9.0	8.6
89.5°	3.5	3.7	4.1	4.2	6.9	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	3.0	3.1	3.6	3.5	3.0	3.1	2.9	3.4	3.0
179.5°	3.2	3.1	3.0	3.1	3.6	3.5	3.0	3.1	2.9	3.4	3.0





21.5°	739.5	738.5	737.8	736.2	737.7	737.4
22°	736.4	735.4	734.8	733.4	734.9	734.8



44°	551.5	550.9	547.7	546.5	548.6	551.0
44.5°	546.6	545.8	542.3	541.1	543.2	545.7



66.5°	276.4	274.1	271.1	269.7	271.4	274.0
67°	269.9	267.5	264.5	263.1	264.5	266.9



89°	8.4	6.2	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	3.0	2.9	3.1
179.5°	3.1	3.5	3.1	3.0	2.9	3.2



(END OF REPORT)