

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: HALO

Report Number: P600903

Luminaire Tested: SLFS1AM1W

Issue Date: 7/29/2022

**Test Information**

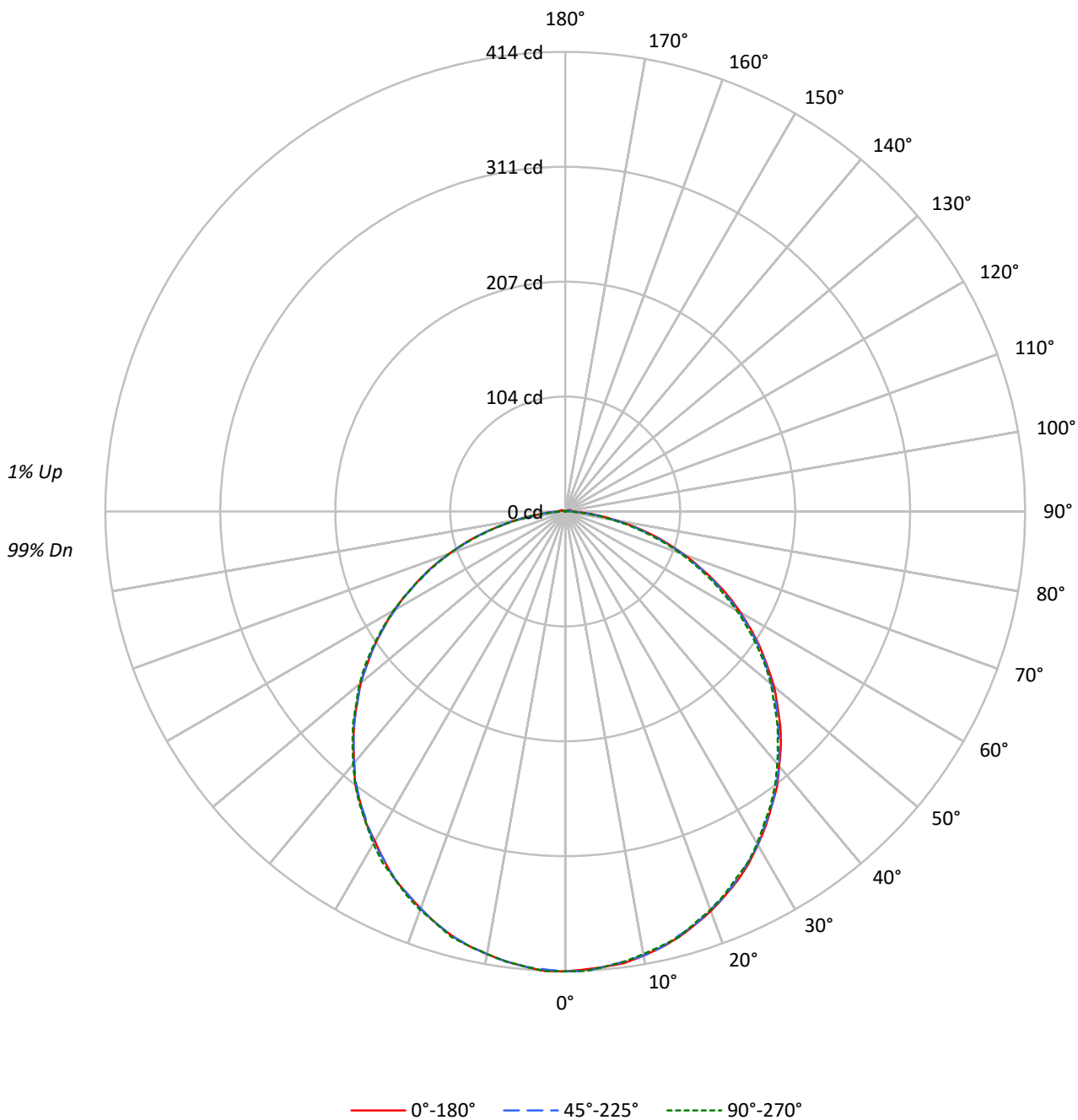
Test Method: LM-79-2019  
Report Number: P600903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2205-647-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: SLFS1AM1W  
Description: 1-H White  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1173.9 lumens  
Efficiency: N/A  
Efficacy: 1173.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 0.58' x L: 0.29' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 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: 24 FT

TEST NUMBER: P600903  
CATALOG NUMBER: SLFS1AM1W

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	109	104	99	96	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	78	70	64	74	68	63	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	52	61	56	52	49
5	76	63	54	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	26513	26513	26513	26513	26513
5°	26441	26441	26441	26441	26441
10°	26396	26396	26305	26305	26305
15°	26282	26196	26282	26196	26196
20°	26097	26008	26008	25913	25913
25°	25914	25822	25730	25730	25730
30°	25627	25627	25531	25427	25331
35°	25304	25304	25195	25093	25093
40°	25028	25028	24803	24686	24686
45°	24789	24544	24427	24300	24300
50°	24451	24183	24053	23914	23914
55°	23943	23787	23486	23341	23341
60°	23320	23140	22795	22629	22795
65°	22471	22275	21866	21654	21866
70°	21461	21218	20713	20713	20713
75°	20028	19360	18693	19014	19014
80°	17395	16916	15921	16400	16400
85°	14832	13877	11895	12850	13877

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24789 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.1	3.3
10°-20°	111.6	9.5
20°-30°	168.2	14.3
30°-40°	201.7	17.2
40°-50°	208.4	17.8
50°-60°	188.4	16.0
60°-70°	143.8	12.3
70°-80°	81.9	7.0
80°-90°	22.3	1.9
90°-100°	4.6	0.4
100°-110°	3.1	0.3
110°-120°	0.8	0.1
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	318.9	27.2
0°-40°	520.6	44.3
0°-60°	917.4	78.1
0°-90°	1165.4	99.3
90°-120°	8.5	0.7
90°-150°	8.5	0.7
90°-180°	8.0	0.7
0°-180°	1173.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	414	414	414	414	414	
5°	412	412	412	412	412	39
15°	397	395	397	395	395	112
25°	367	366	364	364	364	169
35°	324	324	322	321	321	203
45°	274	271	270	268	268	211
55°	215	213	210	209	209	192
65°	148	147	144	143	144	147
75°	81	78	76	77	77	85
85°	20	19	16	18	19	22
90°	7	4	3	5	5	4
95°	5	4	3	4	5	4
105°	4	3	1	3	4	4
115°	0	0	0	0	0	1
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P600903  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3
2.5°	412.9	414.3	414.3	414.3	412.9	414.3	412.9	414.3	412.9	414.3	414.3
5°	411.6	412.9	411.6	411.6	411.6	411.6	411.6	411.6	411.6	411.6	411.6
7.5°	410.2	410.2	410.2	410.2	410.2	408.9	408.9	410.2	408.9	410.2	408.9
10°	406.2	406.2	406.2	406.2	406.2	406.2	406.2	404.8	406.2	406.2	404.8
12.5°	402.1	402.1	402.1	402.1	402.1	402.1	402.1	400.8	400.8	400.8	400.8
15°	396.7	396.7	396.7	396.7	396.7	395.4	396.7	395.4	396.7	395.4	396.7
17.5°	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	390.0	388.6
20°	383.2	383.2	383.2	383.2	383.2	381.9	381.9	381.9	381.9	381.9	381.9
22.5°	375.1	375.1	375.1	375.1	375.1	375.1	375.1	373.8	373.8	373.8	373.8
25°	367.0	367.0	365.7	365.7	365.7	365.7	365.7	365.7	365.7	365.7	364.4
27.5°	357.6	357.6	356.3	356.3	356.3	356.3	356.3	356.3	356.3	354.9	356.3
30°	346.8	346.8	346.8	346.8	346.8	346.8	345.5	345.5	345.5	345.5	345.5
32.5°	336.0	336.0	336.0	336.0	334.7	334.7	334.7	334.7	334.7	333.3	333.3
35°	323.9	323.9	323.9	323.9	323.9	323.9	322.5	322.5	322.5	322.5	322.5
37.5°	313.1	313.1	311.7	311.7	311.7	311.7	310.4	311.7	311.7	310.4	310.4
40°	299.6	299.6	299.6	299.6	298.2	299.6	298.2	298.2	296.9	298.2	296.9
42.5°	287.4	287.4	286.1	286.1	286.1	284.7	284.7	284.7	284.7	284.7	283.4
45°	273.9	273.9	272.6	272.6	272.6	271.2	271.2	271.2	271.2	269.9	269.9
47.5°	259.1	259.1	259.1	257.7	257.7	257.7	257.7	257.7	256.4	255.0	255.0
50°	245.6	244.2	244.2	242.9	242.9	242.9	242.9	241.6	241.6	241.6	241.6
52.5°	229.4	229.4	229.4	228.1	228.1	228.1	226.7	226.7	225.4	226.7	226.7
55°	214.6	213.2	213.2	213.2	213.2	213.2	211.9	210.5	210.5	210.5	210.5
57.5°	198.4	198.4	198.4	198.4	197.0	197.0	197.0	197.0	195.7	194.3	194.3
60°	182.2	182.2	182.2	180.8	180.8	180.8	180.8	179.5	179.5	178.1	178.1
62.5°	166.0	164.6	164.6	164.6	164.6	163.3	163.3	161.9	161.9	161.9	160.6
65°	148.4	148.4	148.4	148.4	148.4	147.1	147.1	145.7	145.7	144.4	144.4
67.5°	130.9	130.9	132.2	130.9	130.9	129.5	129.5	128.2	128.2	128.2	126.8
70°	114.7	114.7	113.4	114.7	113.4	113.4	113.4	112.0	110.7	110.7	110.7
72.5°	97.2	97.2	97.2	97.2	95.8	95.8	95.8	94.5	93.1	93.1	93.1
75°	81.0	79.6	79.6	79.6	78.3	78.3	78.3	76.9	76.9	76.9	75.6
77.5°	63.4	63.4	63.4	62.1	62.1	62.1	62.1	60.7	59.4	59.4	59.4
80°	47.2	47.2	45.9	47.2	45.9	45.9	44.5	44.5	43.2	43.2	43.2
82.5°	32.4	32.4	32.4	32.4	32.4	31.0	31.0	31.0	29.7	28.3	29.7
85°	20.2	20.2	20.2	20.2	18.9	18.9	17.5	17.5	17.5	16.2	16.2
87.5°	10.8	10.8	10.8	9.4	9.4	9.4	8.1	8.1	6.7	6.7	6.7
90°	6.7	6.7	5.4	5.4	5.4	4.0	4.0	4.0	2.7	2.7	2.7
92.5°	5.4	5.4	5.4	5.4	5.4	4.0	4.0	4.0	2.7	2.7	2.7
95°	5.4	5.4	5.4	5.4	4.0	4.0	4.0	2.7	2.7	2.7	2.7
97.5°	5.4	5.4	5.4	4.0	4.0	4.0	2.7	2.7	2.7	2.7	2.7
100°	5.4	5.4	4.0	4.0	4.0	4.0	2.7	2.7	2.7	1.3	2.7
102.5°	4.0	4.0	4.0	4.0	4.0	2.7	2.7	2.7	1.3	1.3	1.3
105°	4.0	4.0	4.0	4.0	2.7	2.7	2.7	1.3	1.3	1.3	1.3
107.5°	4.0	4.0	4.0	4.0	2.7	2.7	2.7	1.3	1.3	1.3	1.3
110°	4.0	4.0	4.0	2.7	2.7	2.7	1.3	1.3	1.3	1.3	1.3



TEST NUMBER: P600903  
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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	2.7	2.7	2.7	2.7	2.7	1.3	1.3	1.3	1.3	1.3	1.3
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3
2.5°	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	412.9	414.3
5°	411.6	411.6	411.6	411.6	411.6	411.6	411.6	411.6	410.2	411.6
7.5°	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9	408.9
10°	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8
12.5°	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8
15°	395.4	395.4	395.4	394.0	395.4	395.4	394.0	394.0	395.4	395.4
17.5°	388.6	388.6	388.6	388.6	388.6	388.6	388.6	388.6	388.6	388.6
20°	381.9	381.9	381.9	380.5	380.5	380.5	380.5	380.5	380.5	380.5
22.5°	373.8	373.8	373.8	373.8	372.4	372.4	372.4	372.4	372.4	372.4
25°	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4	364.4
27.5°	354.9	354.9	354.9	354.9	353.6	353.6	353.6	354.9	353.6	353.6
30°	345.5	345.5	344.1	344.1	344.1	344.1	344.1	344.1	344.1	342.8
32.5°	333.3	333.3	332.0	332.0	332.0	332.0	332.0	332.0	333.3	333.3
35°	321.2	321.2	322.5	321.2	321.2	321.2	321.2	321.2	321.2	321.2
37.5°	310.4	309.0	310.4	309.0	309.0	309.0	307.7	309.0	309.0	310.4
40°	296.9	296.9	296.9	295.5	295.5	295.5	295.5	295.5	295.5	295.5
42.5°	283.4	283.4	283.4	283.4	282.0	282.0	283.4	282.0	282.0	282.0
45°	269.9	269.9	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5
47.5°	255.0	255.0	255.0	253.7	253.7	255.0	253.7	253.7	255.0	253.7
50°	240.2	240.2	240.2	240.2	240.2	238.9	238.9	238.9	238.9	240.2
52.5°	225.4	225.4	224.0	224.0	224.0	225.4	224.0	224.0	225.4	224.0
55°	209.2	210.5	209.2	209.2	209.2	209.2	209.2	209.2	209.2	209.2
57.5°	194.3	194.3	193.0	193.0	193.0	193.0	194.3	193.0	193.0	193.0
60°	178.1	176.8	176.8	178.1	176.8	178.1	178.1	178.1	178.1	178.1
62.5°	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6	160.6
65°	144.4	144.4	143.0	143.0	143.0	144.4	144.4	144.4	144.4	144.4
67.5°	126.8	126.8	126.8	126.8	128.2	126.8	128.2	126.8	126.8	128.2
70°	110.7	109.3	109.3	110.7	110.7	110.7	110.7	110.7	110.7	110.7
72.5°	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	94.5
75°	75.6	75.6	75.6	76.9	76.9	76.9	76.9	76.9	76.9	76.9
77.5°	59.4	59.4	59.4	59.4	60.7	59.4	60.7	60.7	60.7	59.4
80°	43.2	43.2	43.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5
82.5°	28.3	28.3	29.7	29.7	29.7	29.7	31.0	29.7	31.0	31.0
85°	16.2	16.2	17.5	17.5	17.5	17.5	18.9	18.9	17.5	18.9
87.5°	6.7	6.7	8.1	8.1	9.4	9.4	9.4	9.4	9.4	9.4
90°	2.7	4.0	4.0	5.4	5.4	5.4	6.7	6.7	6.7	5.4
92.5°	2.7	2.7	4.0	4.0	5.4	5.4	5.4	5.4	5.4	5.4
95°	2.7	2.7	4.0	4.0	4.0	5.4	5.4	5.4	5.4	5.4
97.5°	2.7	2.7	2.7	4.0	4.0	4.0	5.4	5.4	5.4	5.4
100°	2.7	2.7	2.7	4.0	4.0	4.0	4.0	5.4	5.4	4.0
102.5°	2.7	2.7	2.7	2.7	4.0	4.0	4.0	4.0	4.0	4.0
105°	1.3	2.7	2.7	2.7	2.7	2.7	4.0	4.0	4.0	4.0
107.5°	1.3	2.7	2.7	2.7	2.7	2.7	2.7	4.0	4.0	4.0
110°	1.3	1.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7





TEST NUMBER: P600903  
 CATALOG NUMBER: SLFS1AM1W

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1.3	1.3	1.3	1.3	2.7	2.7	2.7	2.7	2.7	2.7
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)