

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: SLFS1AM1B

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: SLFS1AM1B
Description: 1-H Bronze
Light Source: -
Ballast/Driver: -

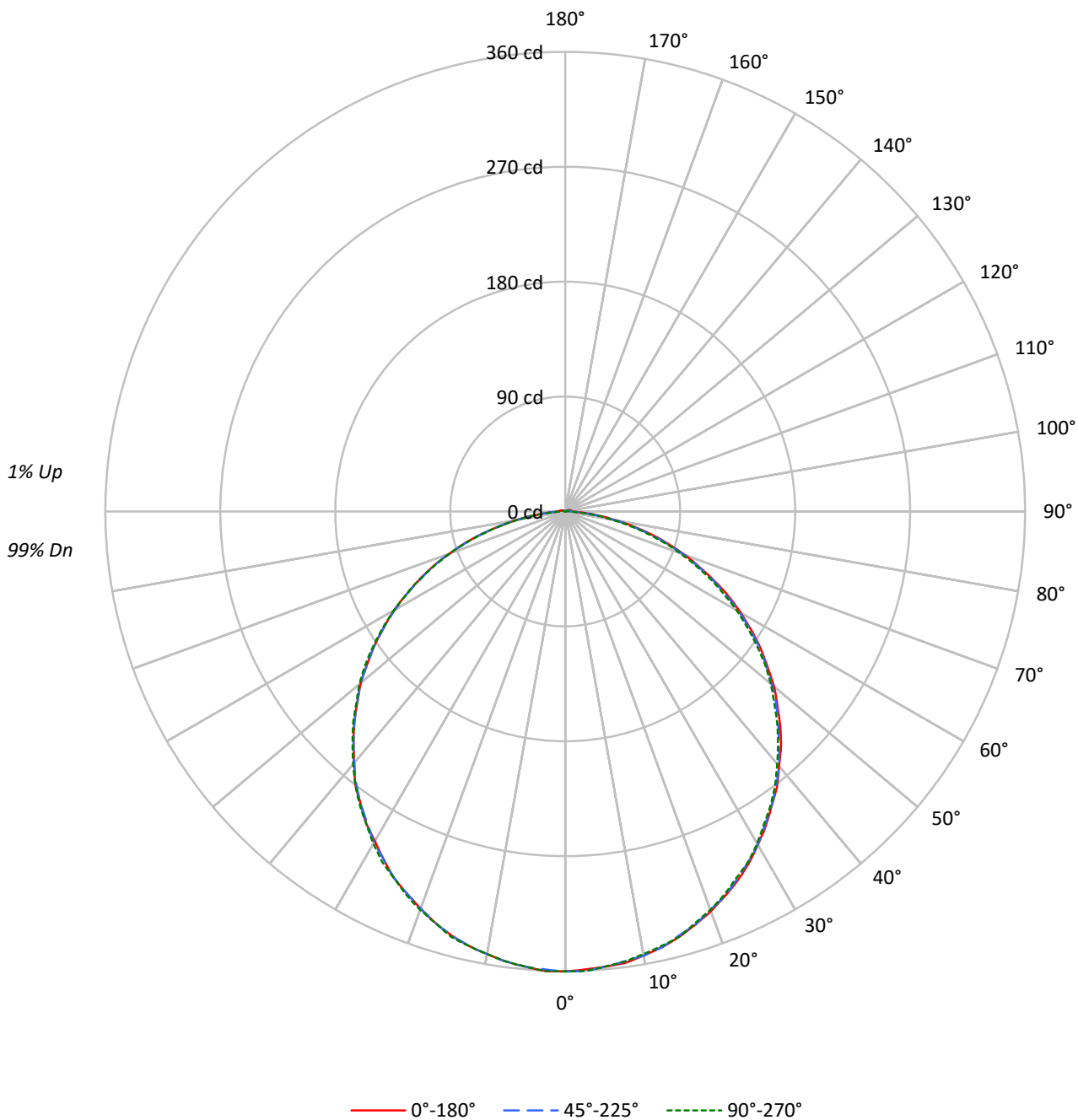
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1021.0 lumens
Efficiency: N/A
Efficacy: 1021.0 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	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°	23057	23057	23057	23057	23057
5°	22991	22991	22991	22991	22991
10°	22952	22952	22880	22880	22880
15°	22857	22784	22857	22784	22784
20°	22698	22617	22617	22535	22535
25°	22539	22454	22376	22376	22376
30°	22287	22287	22198	22117	22028
35°	22007	22007	21914	21820	21820
40°	21762	21762	21570	21470	21470
45°	21558	21349	21241	21132	21132
50°	21266	21027	20917	20798	20798
55°	20819	20685	20429	20295	20295
60°	20274	20133	19826	19672	19826
65°	19549	19367	19019	18837	19019
70°	18673	18449	18000	18000	18000
75°	17407	16838	16245	16541	16541
80°	15147	14704	13857	14262	14262
85°	12923	12042	10353	11234	12042

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21558 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	3.3
10°-20°	97.1	9.5
20°-30°	146.3	14.3
30°-40°	175.4	17.2
40°-50°	181.3	17.8
50°-60°	163.8	16.0
60°-70°	125.1	12.3
70°-80°	71.2	7.0
80°-90°	19.4	1.9
90°-100°	4.0	0.4
100°-110°	2.7	0.3
110°-120°	0.7	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°	277.4	27.2
0°-40°	452.7	44.3
0°-60°	797.8	78.1
0°-90°	1013.6	99.3
90°-120°	7.4	0.7
90°-150°	7.4	0.7
90°-180°	7.0	0.7
0°-180°	1021.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	360	360	360	360	360	
5°	358	358	358	358	358	34
15°	345	344	345	344	344	97
25°	319	318	317	317	317	147
35°	282	282	280	279	279	177
45°	238	236	235	234	234	184
55°	187	185	183	182	182	167
65°	129	128	126	124	126	128
75°	70	68	66	67	67	74
85°	18	16	14	15	16	19
90°	6	4	2	5	5	4
95°	5	4	2	4	5	4
105°	4	2	1	2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	360.3	360.3	360.3	360.3	360.3	360.3	360.3	360.3	360.3	360.3	360.3
2.5°	359.1	360.3	360.3	360.3	359.1	360.3	359.1	360.3	359.1	360.3	360.3
5°	357.9	359.1	357.9	357.9	357.9	357.9	357.9	357.9	357.9	357.9	357.9
7.5°	356.8	356.8	356.8	356.8	356.8	355.6	355.6	356.8	355.6	356.8	355.6
10°	353.2	353.2	353.2	353.2	353.2	353.2	353.2	352.1	353.2	353.2	352.1
12.5°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	348.6	348.6	348.6	348.6
15°	345.0	345.0	345.0	345.0	345.0	343.9	345.0	343.9	345.0	343.9	345.0
17.5°	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2	338.0
20°	333.3	333.3	333.3	333.3	333.3	332.1	332.1	332.1	332.1	332.1	332.1
22.5°	326.3	326.3	326.3	326.3	326.3	326.3	326.3	325.1	325.1	325.1	325.1
25°	319.2	319.2	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	316.9
27.5°	311.0	311.0	309.8	309.8	309.8	309.8	309.8	309.8	309.8	308.7	309.8
30°	301.6	301.6	301.6	301.6	301.6	301.6	300.4	300.4	300.4	300.4	300.4
32.5°	292.2	292.2	292.2	292.2	291.0	291.0	291.0	291.0	291.0	289.9	289.9
35°	281.7	281.7	281.7	281.7	281.7	281.7	280.5	280.5	280.5	280.5	280.5
37.5°	272.3	272.3	271.1	271.1	271.1	271.1	269.9	271.1	271.1	269.9	269.9
40°	260.5	260.5	260.5	260.5	259.4	260.5	259.4	259.4	258.2	259.4	258.2
42.5°	250.0	250.0	248.8	248.8	248.8	247.6	247.6	247.6	247.6	247.6	246.5
45°	238.2	238.2	237.1	237.1	237.1	235.9	235.9	235.9	235.9	234.7	234.7
47.5°	225.3	225.3	225.3	224.2	224.2	224.2	224.2	224.2	223.0	221.8	221.8
50°	213.6	212.4	212.4	211.2	211.2	211.2	211.2	210.1	210.1	210.1	210.1
52.5°	199.5	199.5	199.5	198.3	198.3	198.3	197.2	197.2	196.0	197.2	197.2
55°	186.6	185.4	185.4	185.4	185.4	185.4	184.3	183.1	183.1	183.1	183.1
57.5°	172.5	172.5	172.5	172.5	171.3	171.3	171.3	171.3	170.2	169.0	169.0
60°	158.4	158.4	158.4	157.3	157.3	157.3	157.3	156.1	156.1	154.9	154.9
62.5°	144.4	143.2	143.2	143.2	143.2	142.0	142.0	140.8	140.8	140.8	139.7
65°	129.1	129.1	129.1	129.1	129.1	127.9	127.9	126.7	126.7	125.6	125.6
67.5°	113.8	113.8	115.0	113.8	113.8	112.7	112.7	111.5	111.5	111.5	110.3
70°	99.8	99.8	98.6	99.8	98.6	98.6	98.6	97.4	96.2	96.2	96.2
72.5°	84.5	84.5	84.5	84.5	83.3	83.3	83.3	82.2	81.0	81.0	81.0
75°	70.4	69.2	69.2	69.2	68.1	68.1	68.1	66.9	66.9	66.9	65.7
77.5°	55.2	55.2	55.2	54.0	54.0	54.0	54.0	52.8	51.6	51.6	51.6
80°	41.1	41.1	39.9	41.1	39.9	39.9	38.7	38.7	37.6	37.6	37.6
82.5°	28.2	28.2	28.2	28.2	28.2	27.0	27.0	27.0	25.8	24.6	25.8
85°	17.6	17.6	17.6	17.6	16.4	16.4	15.3	15.3	15.3	14.1	14.1
87.5°	9.4	9.4	9.4	8.2	8.2	8.2	7.0	7.0	5.9	5.9	5.9
90°	5.9	5.9	4.7	4.7	4.7	3.5	3.5	3.5	2.3	2.3	2.3
92.5°	4.7	4.7	4.7	4.7	4.7	3.5	3.5	3.5	2.3	2.3	2.3
95°	4.7	4.7	4.7	4.7	3.5	3.5	3.5	2.3	2.3	2.3	2.3
97.5°	4.7	4.7	4.7	3.5	3.5	3.5	2.3	2.3	2.3	2.3	2.3
100°	4.7	4.7	3.5	3.5	3.5	3.5	2.3	2.3	2.3	1.2	2.3
102.5°	3.5	3.5	3.5	3.5	3.5	2.3	2.3	2.3	1.2	1.2	1.2
105°	3.5	3.5	3.5	3.5	2.3	2.3	2.3	1.2	1.2	1.2	1.2
107.5°	3.5	3.5	3.5	3.5	2.3	2.3	2.3	1.2	1.2	1.2	1.2
110°	3.5	3.5	3.5	2.3	2.3	2.3	1.2	1.2	1.2	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	2.3	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2	1.2	1.2
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°	360.3	360.3	360.3	360.3	360.3	360.3	360.3	360.3	360.3	360.3
2.5°	359.1	359.1	359.1	359.1	359.1	359.1	359.1	359.1	359.1	360.3
5°	357.9	357.9	357.9	357.9	357.9	357.9	357.9	357.9	356.8	357.9
7.5°	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6	355.6
10°	352.1	352.1	352.1	352.1	352.1	352.1	352.1	352.1	352.1	352.1
12.5°	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6
15°	343.9	343.9	343.9	342.7	343.9	343.9	342.7	342.7	343.9	343.9
17.5°	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0
20°	332.1	332.1	332.1	330.9	330.9	330.9	330.9	330.9	330.9	330.9
22.5°	325.1	325.1	325.1	325.1	323.9	323.9	323.9	323.9	323.9	323.9
25°	316.9	316.9	316.9	316.9	316.9	316.9	316.9	316.9	316.9	316.9
27.5°	308.7	308.7	308.7	308.7	307.5	307.5	307.5	308.7	307.5	307.5
30°	300.4	300.4	299.3	299.3	299.3	299.3	299.3	299.3	299.3	298.1
32.5°	289.9	289.9	288.7	288.7	288.7	288.7	288.7	288.7	289.9	289.9
35°	279.3	279.3	280.5	279.3	279.3	279.3	279.3	279.3	279.3	279.3
37.5°	269.9	268.7	269.9	268.7	268.7	268.7	267.6	268.7	268.7	269.9
40°	258.2	258.2	258.2	257.0	257.0	257.0	257.0	257.0	257.0	257.0
42.5°	246.5	246.5	246.5	246.5	245.3	245.3	246.5	245.3	245.3	245.3
45°	234.7	234.7	233.5	233.5	233.5	233.5	233.5	233.5	233.5	233.5
47.5°	221.8	221.8	221.8	220.6	220.6	221.8	220.6	220.6	221.8	220.6
50°	208.9	208.9	208.9	208.9	208.9	207.7	207.7	207.7	207.7	208.9
52.5°	196.0	196.0	194.8	194.8	194.8	196.0	194.8	194.8	196.0	194.8
55°	181.9	183.1	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9
57.5°	169.0	169.0	167.8	167.8	167.8	167.8	169.0	167.8	167.8	167.8
60°	154.9	153.7	153.7	154.9	153.7	154.9	154.9	154.9	154.9	154.9
62.5°	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7
65°	125.6	125.6	124.4	124.4	124.4	125.6	125.6	125.6	125.6	125.6
67.5°	110.3	110.3	110.3	110.3	111.5	110.3	111.5	110.3	110.3	111.5
70°	96.2	95.1	95.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2
72.5°	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	82.2
75°	65.7	65.7	65.7	66.9	66.9	66.9	66.9	66.9	66.9	66.9
77.5°	51.6	51.6	51.6	51.6	52.8	51.6	52.8	52.8	52.8	51.6
80°	37.6	37.6	37.6	38.7	38.7	38.7	38.7	38.7	38.7	38.7
82.5°	24.6	24.6	25.8	25.8	25.8	25.8	27.0	25.8	27.0	27.0
85°	14.1	14.1	15.3	15.3	15.3	15.3	16.4	16.4	15.3	16.4
87.5°	5.9	5.9	7.0	7.0	8.2	8.2	8.2	8.2	8.2	8.2
90°	2.3	3.5	3.5	4.7	4.7	4.7	5.9	5.9	5.9	4.7
92.5°	2.3	2.3	3.5	3.5	4.7	4.7	4.7	4.7	4.7	4.7
95°	2.3	2.3	3.5	3.5	3.5	4.7	4.7	4.7	4.7	4.7
97.5°	2.3	2.3	2.3	3.5	3.5	3.5	4.7	4.7	4.7	4.7
100°	2.3	2.3	2.3	3.5	3.5	3.5	3.5	4.7	4.7	3.5
102.5°	2.3	2.3	2.3	2.3	3.5	3.5	3.5	3.5	3.5	3.5
105°	1.2	2.3	2.3	2.3	2.3	2.3	3.5	3.5	3.5	3.5
107.5°	1.2	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	3.5
110°	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



TEST NUMBER: P600903
 CATALOG NUMBER: SLFS1AM1B

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1.2	1.2	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3
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)