

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P588661

Luminaire Tested: **SLFS1AM2B**

Issue Date: 12/1/2021



Test Information

Test Method: LM-79-08
Report Number: P588661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-371-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 12/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SLFS1AM2B
Description:
Light Source: (1) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

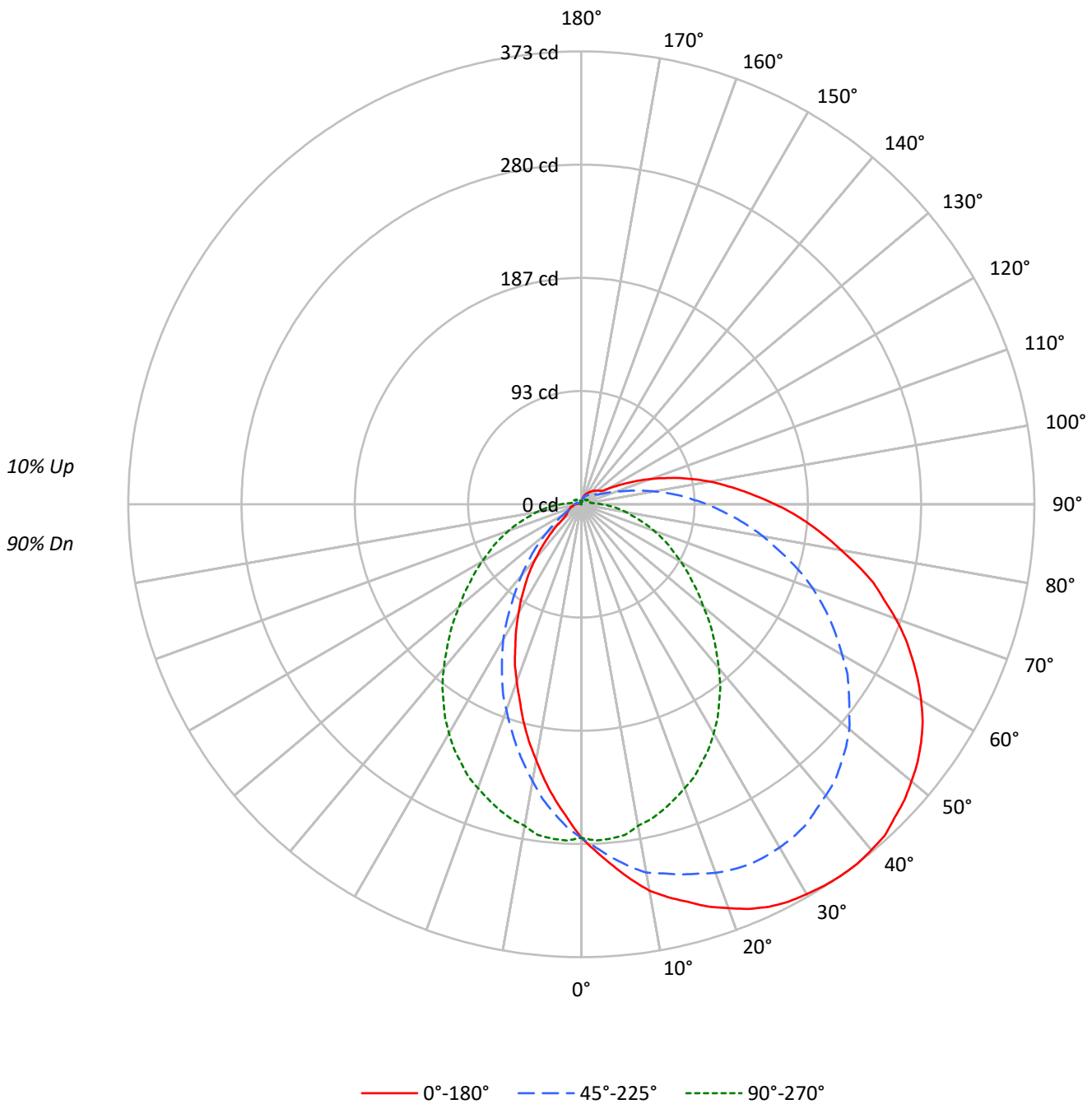
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1000.0 lumens
Efficiency: N/A
Efficacy: 1000.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.18 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 0.02' x H: 0.38')
CIE Type: Semi-Direct

Input Watts (W): 1
Input Voltage (V): 120
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: P588661
CATALOG NUMBER: SLFS1AM2B

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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	92	92	92	90
1	104	98	93	88	100	94	90	85	88	84	81	82	79	76	77	75	72	69
2	93	84	76	70	90	81	74	68	76	70	65	71	66	62	66	62	59	56
3	85	73	64	57	81	71	62	56	66	59	54	62	56	51	58	53	49	46
4	77	64	55	48	74	62	54	47	58	51	45	55	49	43	51	46	42	39
5	71	57	48	41	68	56	47	40	52	45	39	49	43	37	46	41	36	34
6	65	52	42	35	63	50	41	35	47	39	34	44	38	33	42	36	32	29
7	61	47	38	31	58	45	37	31	43	35	30	40	34	29	38	32	28	26
8	56	42	34	28	54	41	33	27	39	32	27	37	31	26	35	29	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	23	32	27	23	21
10	49	36	28	22	48	35	27	22	33	26	22	32	25	21	30	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	189542	189542	189542
5°	80327	183419	65734
10°	54170	173137	35845
15°	41531	164099	22603
20°	34374	154560	15080
25°	29597	144837	10408
30°	25888	134719	7228
35°	23074	123470	4959
40°	20753	111801	3262
45°	18712	99922	2010
50°	16942	88182	1074
55°	15359	78533	675
60°	13835	69812	574
65°	12374	62478	482
70°	10998	53968	399
75°	9714	45858	359
80°	8355	38952	258
85°	7214	31478	222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	2.6
10°-20°	73.6	7.4
20°-30°	110.9	11.1
30°-40°	132.3	13.2
40°-50°	137.4	13.7
50°-60°	131.5	13.2
60°-70°	117.9	11.8
70°-80°	95.9	9.6
80°-90°	70.0	7.0
90°-100°	45.7	4.6
100°-110°	26.3	2.6
110°-120°	13.3	1.3
120°-130°	7.4	0.7
130°-140°	5.2	0.5
140°-150°	3.4	0.3
150°-160°	2.0	0.2
160°-170°	0.9	0.1
170°-180°	0.1	0.0
0°-30°	210.5	21.1
0°-40°	342.8	34.3
0°-60°	611.7	61.2
0°-90°	895.5	89.6
90°-120°	85.4	8.5
90°-150°	101.4	10.1
90°-180°	104.0	10.4
0°-180°	1000.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	275	275	275	275	275	
5°	299	292	276	256	245	29
15°	339	316	260	206	184	97
25°	366	327	235	154	129	169
35°	373	322	198	100	80	234
45°	365	302	154	57	39	282
55°	342	269	112	26	15	305
65°	301	226	79	12	12	298
75°	249	177	49	8	9	261
85°	189	127	27	7	6	160
90°	160	104	17	6	5	88
95°	132	82	10	5	4	103
105°	84	43	8	4	2	89
115°	41	22	7	2	2	42
125°	19	14	6	2	1	18
135°	16	12	5	2	1	12
145°	12	9	4	2	0	8
155°	9	8	4	2	0	4
165°	6	5	2	2	1	2
175°	1	2	2	1	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P588661
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7
2.5°	286.4	285.6	286.4	283.9	284.7	283.1	283.1	283.9	283.1	280.6	277.2
5°	298.9	299.8	298.9	295.6	295.6	292.2	289.7	288.9	286.4	280.6	276.4
7.5°	311.4	310.6	311.4	306.4	305.6	300.6	296.4	293.1	288.1	279.7	274.7
10°	323.1	321.5	319.0	316.5	310.6	308.1	299.8	294.7	288.1	277.2	268.9
12.5°	331.5	330.7	328.1	324.8	317.3	311.4	303.9	296.4	286.4	272.2	265.5
15°	339.0	339.0	336.5	331.5	323.1	315.6	306.4	297.3	285.6	268.9	260.5
17.5°	347.4	347.4	344.0	338.2	328.1	319.0	308.1	297.3	283.1	264.7	254.7
20°	354.0	354.0	350.7	344.0	331.5	323.1	309.8	296.4	279.7	259.7	248.8
22.5°	360.7	360.7	356.5	349.0	337.3	325.6	310.6	294.7	276.4	254.7	243.0
25°	365.7	365.7	362.4	353.2	339.0	327.3	310.6	293.1	272.2	248.8	234.6
27.5°	369.1	369.1	364.9	355.7	340.7	327.3	308.1	288.9	266.4	240.5	227.1
30°	370.7	371.6	366.6	356.5	341.5	326.5	305.6	284.7	259.7	233.0	217.9
32.5°	372.4	374.1	369.1	358.2	341.5	324.8	302.3	280.6	253.8	224.6	208.7
35°	373.2	374.1	369.1	357.4	340.7	322.3	298.1	274.7	246.3	215.4	197.9
37.5°	373.2	374.1	367.4	355.7	337.3	317.3	293.1	268.0	238.8	205.4	187.9
40°	371.6	371.6	365.7	353.2	334.0	313.1	287.2	259.7	230.5	195.4	176.2
42.5°	369.9	369.9	363.2	349.0	330.7	308.9	281.4	253.0	221.3	185.4	164.5
45°	364.9	365.7	359.9	344.8	325.6	302.3	273.9	243.8	212.1	175.3	153.6
47.5°	360.7	361.5	354.9	339.8	319.8	295.6	265.5	235.5	202.1	164.5	142.8
50°	354.9	355.7	349.0	333.2	312.3	288.1	257.2	226.3	192.0	154.5	131.1
52.5°	349.0	349.0	342.3	326.5	304.8	278.0	247.2	217.1	182.0	144.5	121.9
55°	341.5	341.5	334.0	317.3	296.4	268.9	238.0	206.2	172.0	133.6	111.9
57.5°	333.2	333.2	326.5	309.8	287.2	259.7	228.0	196.2	162.0	124.4	103.5
60°	323.1	323.1	315.6	298.9	275.5	248.0	217.9	185.4	152.0	114.4	94.4
62.5°	312.3	313.1	304.8	288.9	265.5	237.1	206.2	174.5	140.3	105.2	86.0
65°	300.6	300.6	293.1	276.4	253.8	226.3	195.4	163.7	131.1	96.0	79.3
67.5°	288.9	288.1	280.6	263.9	241.3	214.6	183.7	152.0	120.2	86.8	71.0
70°	275.5	274.7	268.0	251.3	229.6	202.9	172.0	141.1	109.4	78.5	63.5
72.5°	261.3	261.3	254.7	238.0	216.3	190.4	160.3	130.3	99.4	69.3	56.8
75°	248.8	247.2	240.5	223.8	202.1	177.0	148.6	119.4	89.3	61.8	49.3
77.5°	233.0	233.8	225.4	209.6	188.7	163.7	136.9	107.7	80.2	54.3	42.6
80°	217.1	217.9	211.3	196.2	175.3	152.0	125.2	97.7	70.1	45.9	37.6
82.5°	202.9	202.9	195.4	182.0	162.0	139.4	113.6	86.8	61.0	40.1	32.6
85°	188.7	187.9	181.2	167.0	149.5	126.9	101.9	77.7	52.6	35.1	26.7
87.5°	174.5	172.8	167.0	153.6	136.1	114.4	91.0	66.8	45.1	30.1	21.7
90°	159.5	158.6	152.0	140.3	123.6	103.5	81.0	57.6	39.2	24.2	16.7
92.5°	145.3	145.3	139.4	127.8	111.1	91.8	70.1	50.1	34.2	19.2	13.4
95°	131.9	131.9	126.9	115.2	99.4	81.8	60.1	42.6	29.2	15.0	10.0
97.5°	119.4	119.4	114.4	102.7	88.5	71.0	52.6	36.7	24.2	11.7	8.3
100°	107.7	106.0	101.0	91.8	77.7	61.0	44.3	31.7	19.2	10.0	7.5
102.5°	95.2	94.4	89.3	80.2	66.8	51.8	37.6	26.7	15.0	8.3	7.5
105°	83.5	82.7	78.5	69.3	56.8	43.4	31.7	21.7	12.5	8.3	7.5
107.5°	71.8	71.0	67.6	58.4	47.6	35.9	26.7	18.4	10.9	8.3	7.5
110°	61.0	61.0	56.8	49.3	39.2	30.1	22.5	15.0	10.0	7.5	6.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	50.9	50.9	46.8	40.1	32.6	25.9	19.2	12.5	10.0	7.5	6.7
115°	40.9	41.7	38.4	32.6	26.7	21.7	15.9	11.7	9.2	7.5	6.7
117.5°	32.6	32.6	30.1	26.7	22.5	18.4	14.2	11.7	9.2	7.5	6.7
120°	25.9	25.9	24.2	22.5	19.2	15.9	13.4	10.9	9.2	7.5	6.7
122.5°	20.9	20.9	20.9	19.2	16.7	15.0	13.4	10.9	8.3	7.5	6.7
125°	19.2	19.2	18.4	17.5	15.9	14.2	12.5	10.0	8.3	6.7	5.8
127.5°	18.4	18.4	17.5	16.7	15.9	13.4	11.7	10.0	8.3	6.7	5.8
130°	17.5	17.5	16.7	15.9	15.0	13.4	11.7	9.2	7.5	6.7	5.8
132.5°	16.7	16.7	15.9	15.0	14.2	12.5	10.9	9.2	7.5	5.8	5.0
135°	15.9	15.9	15.9	14.2	13.4	11.7	10.0	8.3	7.5	5.8	5.0
137.5°	15.0	15.0	15.0	13.4	12.5	10.9	9.2	8.3	6.7	5.8	5.0
140°	14.2	14.2	14.2	13.4	11.7	10.9	9.2	7.5	6.7	5.0	5.0
142.5°	13.4	13.4	13.4	12.5	10.9	10.0	8.3	7.5	5.8	5.0	4.2
145°	12.5	12.5	12.5	11.7	10.0	9.2	8.3	6.7	5.8	5.0	4.2
147.5°	11.7	11.7	11.7	10.9	10.0	9.2	7.5	6.7	5.8	5.0	4.2
150°	10.9	10.9	10.9	10.0	9.2	8.3	7.5	6.7	5.8	4.2	4.2
152.5°	10.0	10.0	10.0	9.2	8.3	8.3	6.7	5.8	5.0	4.2	4.2
155°	9.2	9.2	9.2	9.2	8.3	7.5	6.7	5.8	5.0	4.2	4.2
157.5°	9.2	8.3	8.3	8.3	7.5	6.7	6.7	5.8	5.0	4.2	3.3
160°	7.5	7.5	7.5	7.5	6.7	6.7	5.8	5.0	5.0	4.2	3.3
162.5°	7.5	6.7	6.7	6.7	6.7	5.8	5.0	5.0	4.2	3.3	3.3
165°	5.8	6.7	5.8	5.8	5.8	5.0	5.0	4.2	3.3	3.3	2.5
167.5°	5.8	5.8	5.8	5.0	5.0	4.2	4.2	3.3	3.3	2.5	2.5
170°	4.2	4.2	4.2	4.2	3.3	2.5	2.5	2.5	2.5	2.5	1.7
172.5°	1.7	2.5	2.5	2.5	2.5	1.7	2.5	1.7	1.7	1.7	1.7
175°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
177.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	0.8
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°	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7
2.5°	275.5	269.7	267.2	264.7	266.4	263.9	257.2	262.2	262.2	258.8
5°	273.0	265.5	260.5	255.5	255.5	253.0	244.6	248.0	247.2	244.6
7.5°	269.7	259.7	253.0	247.2	244.6	240.5	230.5	233.8	233.0	229.6
10°	265.5	251.3	243.0	237.1	231.3	226.3	216.3	218.8	217.9	213.8
12.5°	259.7	244.6	232.1	225.4	218.8	212.1	202.1	202.9	202.1	199.6
15°	252.2	235.5	222.9	212.9	206.2	198.7	187.9	187.9	186.2	184.5
17.5°	244.6	227.1	212.1	201.2	192.9	184.5	174.5	173.7	172.0	168.7
20°	238.0	219.6	202.1	190.4	180.4	171.2	161.2	160.3	157.8	155.3
22.5°	231.3	210.4	191.2	177.9	168.7	157.8	147.8	146.1	143.6	142.8
25°	222.1	199.6	179.5	164.5	154.5	145.3	135.3	132.8	131.1	128.6
27.5°	213.8	190.4	167.8	152.8	141.1	131.1	121.9	120.2	117.7	116.1
30°	202.1	177.0	154.5	138.6	128.6	118.6	109.4	106.9	105.2	103.5
32.5°	192.9	163.7	140.3	124.4	114.4	106.0	96.9	95.2	93.5	91.8
35°	180.4	149.5	124.4	109.4	100.2	93.5	86.0	84.3	81.8	80.2
37.5°	168.7	134.4	111.1	96.0	87.7	82.7	75.1	72.6	71.0	70.1
40°	155.3	120.2	96.0	84.3	76.8	71.8	64.3	61.8	60.1	58.4
42.5°	144.5	106.0	84.3	73.5	66.0	61.0	54.3	52.6	50.1	49.3
45°	131.1	93.5	75.1	64.3	56.8	50.9	44.3	41.7	40.1	39.2
47.5°	118.6	84.3	66.0	55.9	47.6	40.9	33.4	30.9	30.9	30.9
50°	109.4	76.8	59.3	49.3	39.2	30.9	25.0	23.4	22.5	22.5
52.5°	100.2	70.1	53.4	42.6	31.7	24.2	19.2	18.4	17.5	17.5
55°	91.8	64.3	48.4	35.9	25.9	19.2	15.0	15.0	15.0	15.0
57.5°	84.3	58.4	43.4	30.9	21.7	15.0	12.5	13.4	14.2	14.2
60°	76.8	53.4	38.4	26.7	17.5	11.7	10.0	11.7	13.4	13.4
62.5°	71.0	48.4	34.2	22.5	14.2	10.0	9.2	10.9	12.5	12.5
65°	64.3	44.3	29.2	19.2	11.7	8.3	9.2	10.0	11.7	11.7
67.5°	57.6	39.2	25.0	15.0	9.2	8.3	8.3	10.0	10.9	10.9
70°	50.9	34.2	20.9	12.5	8.3	7.5	7.5	9.2	10.0	10.0
72.5°	45.1	29.2	16.7	10.0	8.3	7.5	6.7	7.5	9.2	9.2
75°	39.2	25.0	13.4	8.3	7.5	7.5	6.7	5.8	8.3	9.2
77.5°	34.2	20.0	10.9	8.3	7.5	6.7	5.8	5.8	7.5	7.5
80°	30.1	15.9	9.2	7.5	7.5	6.7	5.8	5.0	6.7	6.7
82.5°	24.2	12.5	8.3	7.5	6.7	5.8	5.8	5.0	5.8	6.7
85°	19.2	10.0	7.5	6.7	6.7	5.8	5.0	5.0	5.8	5.8
87.5°	15.0	8.3	7.5	6.7	5.8	5.8	5.0	4.2	5.8	5.8
90°	11.7	7.5	6.7	6.7	5.8	5.0	5.0	4.2	5.0	5.0
92.5°	9.2	7.5	6.7	5.8	5.8	5.0	4.2	4.2	4.2	4.2
95°	7.5	6.7	5.8	5.8	5.0	4.2	4.2	3.3	4.2	4.2
97.5°	7.5	6.7	5.8	5.8	5.0	4.2	3.3	3.3	3.3	3.3
100°	7.5	6.7	5.8	5.0	4.2	4.2	3.3	3.3	3.3	3.3
102.5°	6.7	5.8	5.8	5.0	4.2	3.3	2.5	2.5	2.5	2.5
105°	6.7	5.8	5.8	5.0	4.2	3.3	2.5	2.5	2.5	2.5
107.5°	6.7	5.8	5.0	4.2	3.3	2.5	2.5	2.5	2.5	2.5
110°	6.7	5.8	5.0	4.2	3.3	2.5	1.7	1.7	1.7	1.7



TEST NUMBER: P588661
 CATALOG NUMBER: SLFS1AM2B

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	6.7	5.8	5.0	4.2	3.3	2.5	1.7	1.7	1.7	1.7
115°	6.7	5.0	4.2	3.3	2.5	1.7	1.7	1.7	1.7	1.7
117.5°	5.8	5.0	4.2	3.3	2.5	1.7	1.7	1.7	1.7	1.7
120°	5.8	5.0	4.2	3.3	2.5	1.7	1.7	1.7	1.7	1.7
122.5°	5.8	4.2	3.3	2.5	1.7	1.7	0.8	0.8	0.8	0.8
125°	5.0	4.2	3.3	2.5	1.7	1.7	0.8	0.8	0.8	0.8
127.5°	5.0	4.2	3.3	2.5	1.7	0.8	0.8	0.8	0.8	0.8
130°	5.0	4.2	3.3	2.5	1.7	0.8	0.8	0.8	0.8	0.8
132.5°	5.0	3.3	2.5	2.5	1.7	0.8	0.8	0.8	0.8	0.8
135°	4.2	3.3	2.5	2.5	1.7	0.8	0.8	0.8	0.8	0.8
137.5°	4.2	3.3	2.5	2.5	1.7	0.8	0.8	0.8	0.0	0.0
140°	4.2	3.3	2.5	2.5	1.7	0.8	0.8	0.8	0.0	0.0
142.5°	4.2	3.3	2.5	2.5	1.7	0.8	0.8	0.0	0.0	0.0
145°	4.2	3.3	2.5	2.5	1.7	0.8	0.8	0.0	0.0	0.0
147.5°	4.2	3.3	2.5	2.5	1.7	0.8	0.8	0.0	0.0	0.0
150°	3.3	3.3	2.5	1.7	1.7	0.8	0.8	0.0	0.0	0.0
152.5°	3.3	3.3	2.5	1.7	1.7	0.8	0.8	0.0	0.0	0.0
155°	3.3	3.3	2.5	1.7	1.7	0.8	0.8	0.8	0.0	0.0
157.5°	3.3	2.5	2.5	1.7	1.7	0.8	0.8	0.8	0.8	0.8
160°	3.3	2.5	2.5	1.7	1.7	0.8	0.8	0.8	0.8	0.8
162.5°	2.5	2.5	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
165°	2.5	2.5	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
167.5°	2.5	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
170°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.0	0.0
172.5°	1.7	1.7	1.7	0.8	0.8	0.8	0.0	0.0	0.0	0.0
175°	1.7	1.7	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
177.5°	0.8	0.8	0.8	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)