

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: P588659

Luminaire Tested: **SLFS07AM2B**

Issue Date: 12/1/2021



Test Information

Test Method: LM-79-08
Report Number: P588659
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: SLFS07AM2B
Description:
Light Source: (1) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

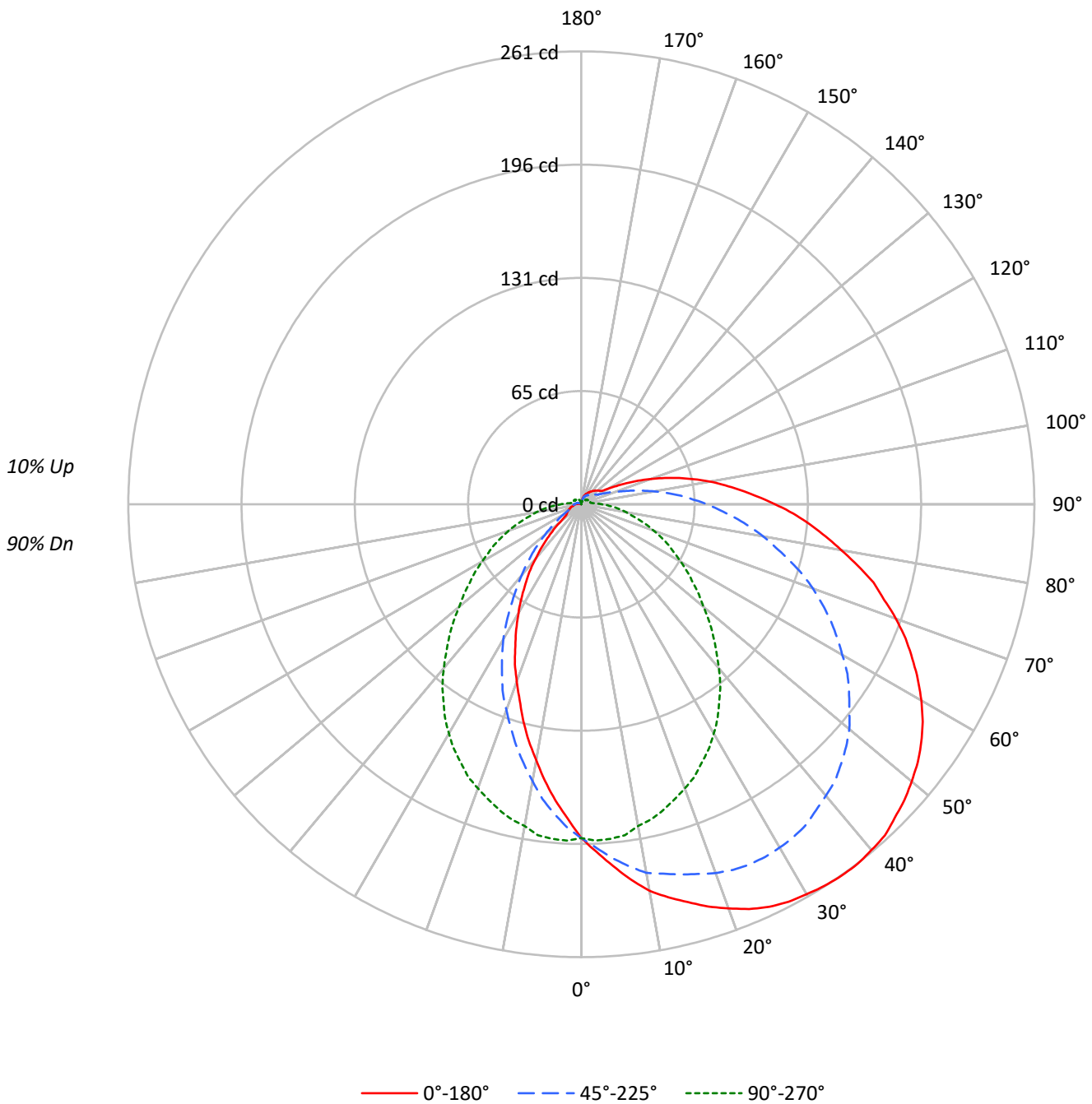
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 700.0 lumens
Efficiency: N/A
Efficacy: 700.0 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: P588659
CATALOG NUMBER: SLFS07AM2B

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°	132686	132686	132686
5°	56221	128407	46035
10°	37924	121177	25082
15°	29072	114901	15828
20°	24062	108217	10555
25°	20719	101374	7284
30°	18122	94347	5063
35°	16155	86410	3468
40°	14526	78236	2284
45°	13097	69932	1410
50°	11858	61748	754
55°	10753	54952	472
60°	9686	48809	403
65°	8661	43727	338
70°	7701	37735	279
75°	6801	32091	250
80°	5850	27245	181
85°	5050	22047	157



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.2	2.6
10°-20°	51.5	7.4
20°-30°	77.6	11.1
30°-40°	92.6	13.2
40°-50°	96.2	13.7
50°-60°	92.1	13.2
60°-70°	82.5	11.8
70°-80°	67.1	9.6
80°-90°	49.0	7.0
90°-100°	32.0	4.6
100°-110°	18.4	2.6
110°-120°	9.3	1.3
120°-130°	5.2	0.7
130°-140°	3.6	0.5
140°-150°	2.4	0.3
150°-160°	1.4	0.2
160°-170°	0.6	0.1
170°-180°	0.1	0.0
0°-30°	147.4	21.0
0°-40°	240.0	34.3
0°-60°	428.2	61.2
0°-90°	626.9	89.5
90°-120°	59.8	8.5
90°-150°	71.0	10.1
90°-180°	73.0	10.4
0°-180°	700.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	192	192	192	192	192	
5°	209	205	194	179	171	20
15°	237	221	182	144	129	68
25°	256	229	164	108	90	118
35°	261	226	138	70	56	164
45°	255	212	108	40	28	198
55°	239	188	78	18	10	214
65°	210	158	56	8	8	208
75°	174	124	34	5	6	183
85°	132	89	19	5	4	112
90°	112	72	12	4	4	61
95°	92	57	7	4	3	72
105°	58	30	5	3	2	62
115°	29	15	5	2	1	29
125°	13	10	4	1	1	13
135°	11	8	4	1	1	9
145°	9	6	3	1	0	6
155°	6	5	3	1	0	3
165°	4	4	2	1	1	1
175°	1	1	1	1	0	0
180°	0	0	0	0	0	



TEST NUMBER: P588659
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3
2.5°	200.5	199.9	200.5	198.7	199.3	198.1	198.1	198.7	198.1	196.4	194.0
5°	209.2	209.8	209.2	206.9	206.9	204.6	202.8	202.2	200.5	196.4	193.5
7.5°	218.0	217.4	218.0	214.5	213.9	210.4	207.5	205.2	201.6	195.8	192.3
10°	226.2	225.0	223.3	221.5	217.4	215.7	209.8	206.3	201.6	194.0	188.2
12.5°	232.0	231.5	229.7	227.4	222.1	218.0	212.8	207.5	200.5	190.5	185.9
15°	237.3	237.3	235.5	232.0	226.2	220.9	214.5	208.1	199.9	188.2	182.4
17.5°	243.1	243.1	240.8	236.7	229.7	223.3	215.7	208.1	198.1	185.3	178.3
20°	247.8	247.8	245.5	240.8	232.0	226.2	216.8	207.5	195.8	181.8	174.2
22.5°	252.5	252.5	249.6	244.3	236.1	228.0	217.4	206.3	193.5	178.3	170.1
25°	256.0	256.0	253.7	247.2	237.3	229.1	217.4	205.2	190.5	174.2	164.2
27.5°	258.3	258.3	255.4	249.0	238.5	229.1	215.7	202.2	186.5	168.3	159.0
30°	259.5	260.1	256.6	249.6	239.1	228.5	213.9	199.3	181.8	163.1	152.6
32.5°	260.7	261.9	258.3	250.7	239.1	227.4	211.6	196.4	177.7	157.2	146.1
35°	261.3	261.9	258.3	250.2	238.5	225.6	208.7	192.3	172.4	150.8	138.5
37.5°	261.3	261.9	257.2	249.0	236.1	222.1	205.2	187.6	167.2	143.8	131.5
40°	260.1	260.1	256.0	247.2	233.8	219.2	201.1	181.8	161.3	136.8	123.3
42.5°	258.9	258.9	254.3	244.3	231.5	216.3	197.0	177.1	154.9	129.8	115.1
45°	255.4	256.0	251.9	241.4	228.0	211.6	191.7	170.7	148.5	122.7	107.5
47.5°	252.5	253.1	248.4	237.9	223.9	206.9	185.9	164.8	141.4	115.1	99.9
50°	248.4	249.0	244.3	233.2	218.6	201.6	180.0	158.4	134.4	108.1	91.8
52.5°	244.3	244.3	239.6	228.5	213.3	194.6	173.0	152.0	127.4	101.1	85.3
55°	239.1	239.1	233.8	222.1	207.5	188.2	166.6	144.4	120.4	93.5	78.3
57.5°	233.2	233.2	228.5	216.8	201.1	181.8	159.6	137.4	113.4	87.1	72.5
60°	226.2	226.2	220.9	209.2	192.9	173.6	152.6	129.8	106.4	80.1	66.0
62.5°	218.6	219.2	213.3	202.2	185.9	166.0	144.4	122.2	98.2	73.6	60.2
65°	210.4	210.4	205.2	193.5	177.7	158.4	136.8	114.6	91.8	67.2	55.5
67.5°	202.2	201.6	196.4	184.7	168.9	150.2	128.6	106.4	84.2	60.8	49.7
70°	192.9	192.3	187.6	175.9	160.7	142.0	120.4	98.8	76.6	54.9	44.4
72.5°	182.9	182.9	178.3	166.6	151.4	133.3	112.2	91.2	69.6	48.5	39.7
75°	174.2	173.0	168.3	156.6	141.4	123.9	104.0	83.6	62.5	43.3	34.5
77.5°	163.1	163.7	157.8	146.7	132.1	114.6	95.9	75.4	56.1	38.0	29.8
80°	152.0	152.6	147.9	137.4	122.7	106.4	87.7	68.4	49.1	32.1	26.3
82.5°	142.0	142.0	136.8	127.4	113.4	97.6	79.5	60.8	42.7	28.1	22.8
85°	132.1	131.5	126.8	116.9	104.6	88.8	71.3	54.4	36.8	24.5	18.7
87.5°	122.2	121.0	116.9	107.5	95.3	80.1	63.7	46.8	31.6	21.0	15.2
90°	111.6	111.1	106.4	98.2	86.5	72.5	56.7	40.3	27.5	17.0	11.7
92.5°	101.7	101.7	97.6	89.4	77.7	64.3	49.1	35.1	24.0	13.4	9.4
95°	92.3	92.3	88.8	80.7	69.6	57.3	42.1	29.8	20.5	10.5	7.0
97.5°	83.6	83.6	80.1	71.9	62.0	49.7	36.8	25.7	17.0	8.2	5.8
100°	75.4	74.2	70.7	64.3	54.4	42.7	31.0	22.2	13.4	7.0	5.3
102.5°	66.6	66.0	62.5	56.1	46.8	36.2	26.3	18.7	10.5	5.8	5.3
105°	58.4	57.9	54.9	48.5	39.7	30.4	22.2	15.2	8.8	5.8	5.3
107.5°	50.3	49.7	47.3	40.9	33.3	25.1	18.7	12.9	7.6	5.8	5.3
110°	42.7	42.7	39.7	34.5	27.5	21.0	15.8	10.5	7.0	5.3	4.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	35.7	35.7	32.7	28.1	22.8	18.1	13.4	8.8	7.0	5.3	4.7
115°	28.6	29.2	26.9	22.8	18.7	15.2	11.1	8.2	6.4	5.3	4.7
117.5°	22.8	22.8	21.0	18.7	15.8	12.9	9.9	8.2	6.4	5.3	4.7
120°	18.1	18.1	17.0	15.8	13.4	11.1	9.4	7.6	6.4	5.3	4.7
122.5°	14.6	14.6	14.6	13.4	11.7	10.5	9.4	7.6	5.8	5.3	4.7
125°	13.4	13.4	12.9	12.3	11.1	9.9	8.8	7.0	5.8	4.7	4.1
127.5°	12.9	12.9	12.3	11.7	11.1	9.4	8.2	7.0	5.8	4.7	4.1
130°	12.3	12.3	11.7	11.1	10.5	9.4	8.2	6.4	5.3	4.7	4.1
132.5°	11.7	11.7	11.1	10.5	9.9	8.8	7.6	6.4	5.3	4.1	3.5
135°	11.1	11.1	11.1	9.9	9.4	8.2	7.0	5.8	5.3	4.1	3.5
137.5°	10.5	10.5	10.5	9.4	8.8	7.6	6.4	5.8	4.7	4.1	3.5
140°	9.9	9.9	9.9	9.4	8.2	7.6	6.4	5.3	4.7	3.5	3.5
142.5°	9.4	9.4	9.4	8.8	7.6	7.0	5.8	5.3	4.1	3.5	2.9
145°	8.8	8.8	8.8	8.2	7.0	6.4	5.8	4.7	4.1	3.5	2.9
147.5°	8.2	8.2	8.2	7.6	7.0	6.4	5.3	4.7	4.1	3.5	2.9
150°	7.6	7.6	7.6	7.0	6.4	5.8	5.3	4.7	4.1	2.9	2.9
152.5°	7.0	7.0	7.0	6.4	5.8	5.8	4.7	4.1	3.5	2.9	2.9
155°	6.4	6.4	6.4	6.4	5.8	5.3	4.7	4.1	3.5	2.9	2.9
157.5°	6.4	5.8	5.8	5.8	5.3	4.7	4.7	4.1	3.5	2.9	2.3
160°	5.3	5.3	5.3	5.3	4.7	4.7	4.1	3.5	3.5	2.9	2.3
162.5°	5.3	4.7	4.7	4.7	4.7	4.1	3.5	3.5	2.9	2.3	2.3
165°	4.1	4.7	4.1	4.1	4.1	3.5	3.5	2.9	2.3	2.3	1.8
167.5°	4.1	4.1	4.1	3.5	3.5	2.9	2.9	2.3	2.3	1.8	1.8
170°	2.9	2.9	2.9	2.9	2.3	1.8	1.8	1.8	1.8	1.8	1.2
172.5°	1.2	1.8	1.8	1.8	1.8	1.2	1.8	1.2	1.2	1.2	1.2
175°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
177.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	0.6
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°	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3	192.3
2.5°	192.9	188.8	187.0	185.3	186.5	184.7	180.0	183.5	183.5	181.2
5°	191.1	185.9	182.4	178.9	178.9	177.1	171.3	173.6	173.0	171.3
7.5°	188.8	181.8	177.1	173.0	171.3	168.3	161.3	163.7	163.1	160.7
10°	185.9	175.9	170.1	166.0	161.9	158.4	151.4	153.1	152.6	149.6
12.5°	181.8	171.3	162.5	157.8	153.1	148.5	141.4	142.0	141.4	139.7
15°	176.5	164.8	156.1	149.0	144.4	139.1	131.5	131.5	130.3	129.2
17.5°	171.3	159.0	148.5	140.9	135.0	129.2	122.2	121.6	120.4	118.1
20°	166.6	153.7	141.4	133.3	126.2	119.8	112.8	112.2	110.5	108.7
22.5°	161.9	147.3	133.8	124.5	118.1	110.5	103.5	102.3	100.5	99.9
25°	155.5	139.7	125.7	115.1	108.1	101.7	94.7	92.9	91.8	90.0
27.5°	149.6	133.3	117.5	107.0	98.8	91.8	85.3	84.2	82.4	81.2
30°	141.4	123.9	108.1	97.0	90.0	83.0	76.6	74.8	73.6	72.5
32.5°	135.0	114.6	98.2	87.1	80.1	74.2	67.8	66.6	65.5	64.3
35°	126.2	104.6	87.1	76.6	70.1	65.5	60.2	59.0	57.3	56.1
37.5°	118.1	94.1	77.7	67.2	61.4	57.9	52.6	50.9	49.7	49.1
40°	108.7	84.2	67.2	59.0	53.8	50.3	45.0	43.3	42.1	40.9
42.5°	101.1	74.2	59.0	51.4	46.2	42.7	38.0	36.8	35.1	34.5
45°	91.8	65.5	52.6	45.0	39.7	35.7	31.0	29.2	28.1	27.5
47.5°	83.0	59.0	46.2	39.2	33.3	28.6	23.4	21.6	21.6	21.6
50°	76.6	53.8	41.5	34.5	27.5	21.6	17.5	16.4	15.8	15.8
52.5°	70.1	49.1	37.4	29.8	22.2	17.0	13.4	12.9	12.3	12.3
55°	64.3	45.0	33.9	25.1	18.1	13.4	10.5	10.5	10.5	10.5
57.5°	59.0	40.9	30.4	21.6	15.2	10.5	8.8	9.4	9.9	9.9
60°	53.8	37.4	26.9	18.7	12.3	8.2	7.0	8.2	9.4	9.4
62.5°	49.7	33.9	24.0	15.8	9.9	7.0	6.4	7.6	8.8	8.8
65°	45.0	31.0	20.5	13.4	8.2	5.8	6.4	7.0	8.2	8.2
67.5°	40.3	27.5	17.5	10.5	6.4	5.8	5.8	7.0	7.6	7.6
70°	35.7	24.0	14.6	8.8	5.8	5.3	5.3	6.4	7.0	7.0
72.5°	31.6	20.5	11.7	7.0	5.8	5.3	4.7	5.3	6.4	6.4
75°	27.5	17.5	9.4	5.8	5.3	5.3	4.7	4.1	5.8	6.4
77.5°	24.0	14.0	7.6	5.8	5.3	4.7	4.1	4.1	5.3	5.3
80°	21.0	11.1	6.4	5.3	5.3	4.7	4.1	3.5	4.7	4.7
82.5°	17.0	8.8	5.8	5.3	4.7	4.1	4.1	3.5	4.1	4.7
85°	13.4	7.0	5.3	4.7	4.7	4.1	3.5	3.5	4.1	4.1
87.5°	10.5	5.8	5.3	4.7	4.1	4.1	3.5	2.9	4.1	4.1
90°	8.2	5.3	4.7	4.7	4.1	3.5	3.5	2.9	3.5	3.5
92.5°	6.4	5.3	4.7	4.1	4.1	3.5	2.9	2.9	2.9	2.9
95°	5.3	4.7	4.1	4.1	3.5	2.9	2.9	2.3	2.9	2.9
97.5°	5.3	4.7	4.1	4.1	3.5	2.9	2.3	2.3	2.3	2.3
100°	5.3	4.7	4.1	3.5	2.9	2.9	2.3	2.3	2.3	2.3
102.5°	4.7	4.1	4.1	3.5	2.9	2.3	1.8	1.8	1.8	1.8
105°	4.7	4.1	4.1	3.5	2.9	2.3	1.8	1.8	1.8	1.8
107.5°	4.7	4.1	3.5	2.9	2.3	1.8	1.8	1.8	1.8	1.8
110°	4.7	4.1	3.5	2.9	2.3	1.8	1.2	1.2	1.2	1.2



TEST NUMBER: P588659
 CATALOG NUMBER: SLFS07AM2B

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	4.7	4.1	3.5	2.9	2.3	1.8	1.2	1.2	1.2	1.2
115°	4.7	3.5	2.9	2.3	1.8	1.2	1.2	1.2	1.2	1.2
117.5°	4.1	3.5	2.9	2.3	1.8	1.2	1.2	1.2	1.2	1.2
120°	4.1	3.5	2.9	2.3	1.8	1.2	1.2	1.2	1.2	1.2
122.5°	4.1	2.9	2.3	1.8	1.2	1.2	0.6	0.6	0.6	0.6
125°	3.5	2.9	2.3	1.8	1.2	1.2	0.6	0.6	0.6	0.6
127.5°	3.5	2.9	2.3	1.8	1.2	0.6	0.6	0.6	0.6	0.6
130°	3.5	2.9	2.3	1.8	1.2	0.6	0.6	0.6	0.6	0.6
132.5°	3.5	2.3	1.8	1.8	1.2	0.6	0.6	0.6	0.6	0.6
135°	2.9	2.3	1.8	1.8	1.2	0.6	0.6	0.6	0.6	0.6
137.5°	2.9	2.3	1.8	1.8	1.2	0.6	0.6	0.6	0.0	0.0
140°	2.9	2.3	1.8	1.8	1.2	0.6	0.6	0.6	0.0	0.0
142.5°	2.9	2.3	1.8	1.8	1.2	0.6	0.6	0.0	0.0	0.0
145°	2.9	2.3	1.8	1.8	1.2	0.6	0.6	0.0	0.0	0.0
147.5°	2.9	2.3	1.8	1.8	1.2	0.6	0.6	0.0	0.0	0.0
150°	2.3	2.3	1.8	1.2	1.2	0.6	0.6	0.0	0.0	0.0
152.5°	2.3	2.3	1.8	1.2	1.2	0.6	0.6	0.0	0.0	0.0
155°	2.3	2.3	1.8	1.2	1.2	0.6	0.6	0.6	0.0	0.0
157.5°	2.3	1.8	1.8	1.2	1.2	0.6	0.6	0.6	0.6	0.6
160°	2.3	1.8	1.8	1.2	1.2	0.6	0.6	0.6	0.6	0.6
162.5°	1.8	1.8	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
165°	1.8	1.8	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
167.5°	1.8	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
170°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.0	0.0
172.5°	1.2	1.2	1.2	0.6	0.6	0.6	0.0	0.0	0.0	0.0
175°	1.2	1.2	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
177.5°	0.6	0.6	0.6	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)