

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: P588662

Luminaire Tested: **SLFS2AM2B**

Issue Date: 12/1/2021



Test Information

Test Method: LM-79-08
Report Number: P588662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-371-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 12/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SLF52AM2B
Description:
Light Source: (1) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

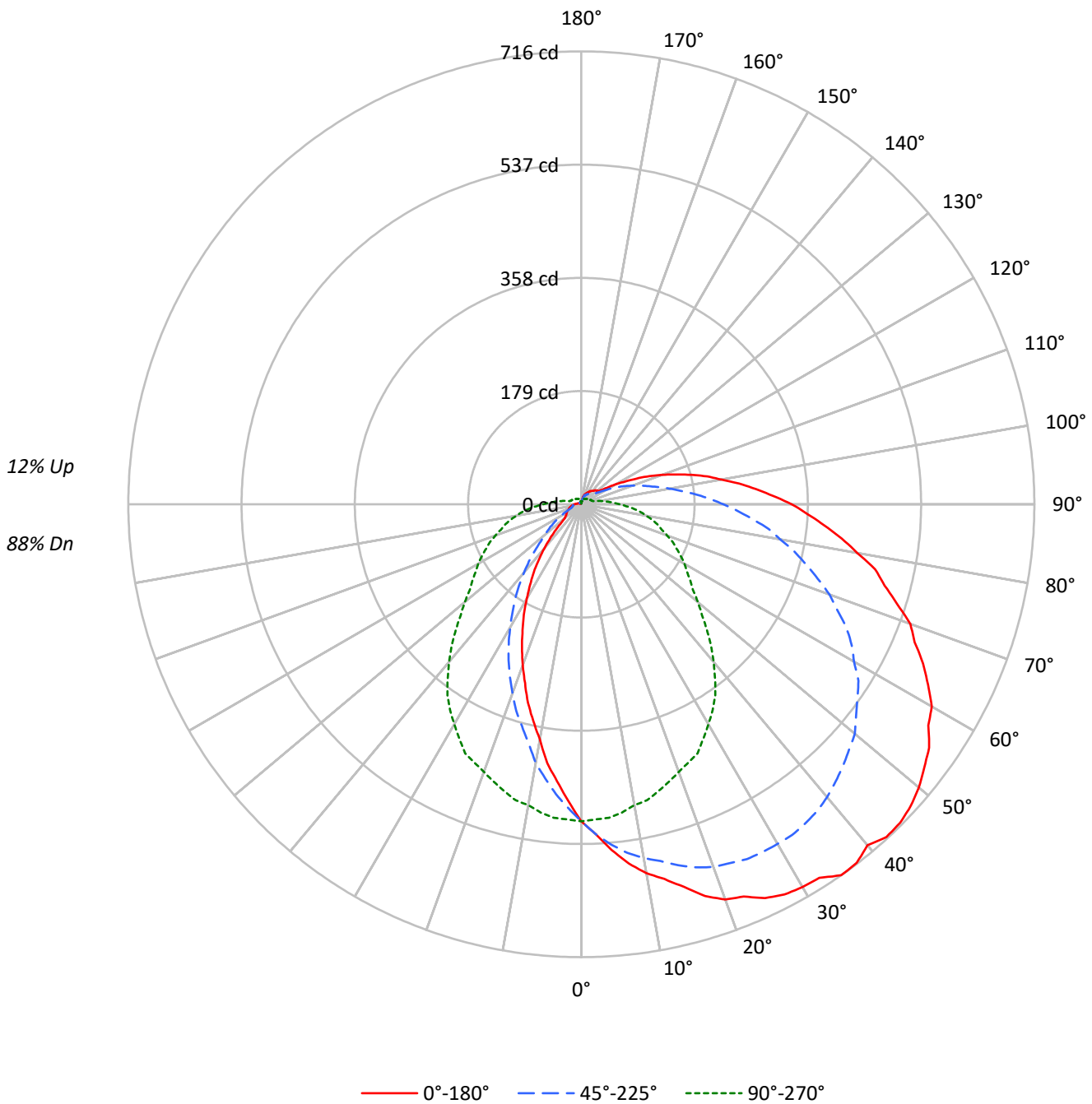
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2000.0 lumens
Efficiency: N/A
Efficacy: 2000.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.2 / 1.41
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

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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	103	97	91	86	99	93	88	84	87	83	79	81	77	74	75	72	70	67
2	92	83	75	68	88	80	73	66	74	68	63	69	64	60	64	60	57	53
3	84	72	63	55	80	69	61	54	64	57	52	60	54	49	56	51	47	44
4	76	63	54	46	73	61	52	45	57	49	43	53	47	41	49	44	40	37
5	70	56	47	39	67	54	45	39	51	43	37	47	41	36	44	39	34	31
6	64	50	41	34	62	49	40	33	46	38	32	43	36	31	40	34	30	27
7	60	45	36	30	57	44	35	29	41	34	28	39	32	27	36	31	26	24
8	55	41	33	27	53	40	32	26	38	30	25	36	29	24	33	28	23	21
9	52	38	29	24	50	37	29	23	35	28	23	33	26	22	31	25	21	19
10	48	35	27	21	47	34	26	21	32	25	20	30	24	20	29	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	345756	345756	345756
5°	147404	330142	118058
10°	99270	310926	63274
15°	76704	295819	39840
20°	64563	279675	26276
25°	55584	268190	17773
30°	48807	248293	12032
35°	44262	230156	8099
40°	39306	206344	5082
45°	36527	182344	2923
50°	33250	161634	1623
55°	30178	147312	1309
60°	27384	139106	1143
65°	24525	130944	1000
70°	22089	122724	822
75°	19376	116273	711
80°	17045	108153	608
85°	14754	98680	508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	2.4
10°-20°	134.5	6.7
20°-30°	204.7	10.2
30°-40°	248.4	12.4
40°-50°	263.0	13.1
50°-60°	260.1	13.0
60°-70°	240.7	12.0
70°-80°	202.7	10.1
80°-90°	153.9	7.7
90°-100°	104.9	5.2
100°-110°	63.8	3.2
110°-120°	33.8	1.7
120°-130°	16.9	0.8
130°-140°	10.9	0.5
140°-150°	7.5	0.4
150°-160°	4.6	0.2
160°-170°	2.1	0.1
170°-180°	0.3	0.0
0°-30°	386.5	19.3
0°-40°	634.9	31.7
0°-60°	1157.9	57.9
0°-90°	1755.2	87.8
90°-120°	202.5	10.1
90°-150°	237.7	11.9
90°-180°	245.0	12.3
0°-180°	2000.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	501	501	501	501	501	
5°	548	540	498	460	439	54
15°	626	591	470	363	325	179
25°	687	619	434	272	220	317
35°	716	616	369	182	131	445
45°	712	585	280	103	57	548
55°	671	533	210	56	29	599
65°	596	462	166	26	24	590
75°	496	368	125	15	18	527
85°	386	272	84	12	13	327
90°	332	224	61	11	11	182
95°	277	181	44	10	8	216
105°	180	110	19	7	5	191
115°	96	66	16	5	4	97
125°	40	33	13	4	2	39
135°	32	24	12	4	1	24
145°	26	19	11	4	1	16
155°	19	16	8	4	1	9
165°	13	11	6	4	2	4
175°	2	4	4	2	1	0
180°	1	1	1	1	1	



TEST NUMBER: P588662
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1
2.5°	521.8	527.8	529.0	520.5	521.8	521.8	519.3	523.0	512.1	509.6	498.7
5°	548.5	553.3	550.9	544.8	543.6	540.0	533.9	532.7	519.3	510.8	497.5
7.5°	572.7	578.8	573.9	567.9	563.0	555.7	547.2	540.0	523.0	510.8	491.4
10°	592.1	597.0	595.8	583.6	577.6	567.9	557.0	546.0	523.0	507.2	482.9
12.5°	606.7	620.0	615.2	603.1	593.4	577.6	558.2	544.8	523.0	497.5	479.3
15°	626.1	640.7	633.4	620.0	609.1	590.9	569.1	548.5	521.8	491.4	469.6
17.5°	649.2	657.7	650.4	635.8	622.5	601.8	575.2	547.2	519.3	480.5	459.9
20°	664.9	673.4	663.7	649.2	634.6	610.3	577.6	549.7	513.3	478.1	450.2
22.5°	671.0	688.0	675.9	661.3	641.9	614.0	578.8	546.0	507.2	468.4	441.7
25°	686.8	701.3	688.0	671.0	650.4	618.8	578.8	546.0	498.7	453.8	434.4
27.5°	695.3	709.8	696.5	678.3	655.2	620.0	580.0	542.4	492.6	447.7	417.4
30°	698.9	714.7	702.6	683.1	658.9	620.0	576.4	535.1	484.1	432.0	401.6
32.5°	700.1	719.5	707.4	685.6	657.7	620.0	571.5	527.8	472.0	417.4	385.9
35°	715.9	723.2	709.8	689.2	655.2	616.4	569.1	520.5	459.9	401.6	368.9
37.5°	714.7	723.2	708.6	686.8	654.0	611.6	561.8	509.6	449.0	383.4	347.0
40°	703.8	723.2	708.6	681.9	651.6	604.3	552.1	497.5	434.4	366.4	325.2
42.5°	713.5	720.8	703.8	678.3	645.5	594.6	541.2	485.4	417.4	347.0	303.3
45°	712.3	714.7	697.7	673.4	638.2	584.9	530.3	472.0	401.6	326.4	280.3
47.5°	706.2	706.2	691.6	663.7	627.3	573.9	516.9	457.5	387.1	304.6	258.5
50°	696.5	701.3	681.9	655.2	617.6	564.2	503.6	440.5	370.1	281.5	240.3
52.5°	683.1	689.2	671.0	641.9	603.1	547.2	487.8	423.5	351.9	265.7	222.1
55°	671.0	673.4	656.4	628.5	587.3	532.7	472.0	406.5	333.7	248.7	209.9
57.5°	650.4	660.1	641.9	611.6	570.3	519.3	453.8	390.7	314.3	234.2	197.8
60°	639.5	641.9	624.9	593.4	554.5	497.5	436.8	372.5	299.7	222.1	188.1
62.5°	617.6	624.9	606.7	575.2	535.1	481.7	417.4	354.3	281.5	207.5	177.2
65°	595.8	606.7	586.1	554.5	513.3	462.3	398.0	333.7	263.3	195.4	166.2
67.5°	570.3	581.2	564.2	532.7	489.0	438.0	378.6	315.5	246.3	182.0	156.5
70°	553.3	557.0	538.7	509.6	467.2	417.4	358.0	296.1	226.9	169.9	144.4
72.5°	523.0	532.7	514.5	485.4	441.7	391.9	334.9	277.9	208.7	156.5	133.5
75°	496.3	508.4	487.8	458.7	418.6	367.7	311.8	253.6	192.9	145.6	125.0
77.5°	475.7	479.3	463.5	433.2	394.4	344.6	290.0	234.2	177.2	134.7	115.3
80°	442.9	447.7	433.2	405.3	368.9	319.1	266.9	213.6	161.4	123.8	104.4
82.5°	415.0	421.0	406.5	378.6	344.6	298.5	243.9	194.1	148.0	114.1	94.6
85°	385.9	390.7	376.2	351.9	319.1	271.8	222.1	174.7	137.1	103.1	83.7
87.5°	358.0	364.0	350.7	325.2	291.2	247.5	200.2	157.7	126.2	92.2	71.6
90°	332.5	336.1	322.8	298.5	265.7	224.5	179.6	144.4	112.8	81.3	60.7
92.5°	303.3	308.2	294.9	270.6	243.9	202.6	160.2	132.3	101.9	69.2	52.2
95°	276.7	281.5	269.4	246.3	218.4	180.8	143.2	118.9	92.2	58.2	43.7
97.5°	251.2	254.8	243.9	223.3	194.1	160.2	129.8	108.0	81.3	49.7	36.4
100°	224.5	228.1	218.4	199.0	174.7	142.0	117.7	95.9	69.2	41.3	30.3
102.5°	203.9	205.1	195.4	177.2	151.7	125.0	105.6	84.9	58.2	35.2	24.3
105°	179.6	182.0	172.3	155.3	132.3	110.4	93.4	75.2	49.7	27.9	19.4
107.5°	156.5	160.2	150.5	133.5	115.3	98.3	82.5	65.5	42.5	23.1	18.2
110°	135.9	137.1	128.6	114.1	98.3	86.2	72.8	54.6	35.2	19.4	17.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	116.5	117.7	109.2	95.9	84.9	75.2	61.9	46.1	29.1	18.2	17.0
115°	95.9	97.1	91.0	81.3	74.0	65.5	52.2	37.6	24.3	18.2	15.8
117.5°	77.7	78.9	75.2	68.0	64.3	54.6	43.7	31.5	21.8	18.2	15.8
120°	64.3	64.3	59.5	57.0	54.6	46.1	36.4	26.7	20.6	17.0	14.6
122.5°	49.7	49.7	48.5	48.5	44.9	38.8	30.3	24.3	19.4	17.0	14.6
125°	40.0	41.3	41.3	41.3	38.8	32.8	26.7	23.1	19.4	15.8	13.3
127.5°	35.2	36.4	36.4	35.2	32.8	29.1	24.3	21.8	18.2	14.6	13.3
130°	32.8	34.0	32.8	31.5	30.3	26.7	24.3	20.6	17.0	14.6	12.1
132.5°	32.8	32.8	31.5	30.3	29.1	25.5	23.1	19.4	17.0	13.3	12.1
135°	31.5	31.5	30.3	29.1	27.9	24.3	21.8	19.4	15.8	13.3	12.1
137.5°	29.1	30.3	29.1	27.9	26.7	23.1	20.6	18.2	15.8	13.3	12.1
140°	27.9	29.1	27.9	26.7	24.3	21.8	19.4	17.0	14.6	12.1	10.9
142.5°	26.7	26.7	26.7	25.5	23.1	21.8	18.2	17.0	14.6	12.1	10.9
145°	25.5	25.5	25.5	24.3	21.8	19.4	18.2	15.8	13.3	12.1	10.9
147.5°	24.3	24.3	24.3	21.8	20.6	19.4	17.0	15.8	13.3	10.9	9.7
150°	21.8	23.1	21.8	20.6	19.4	18.2	15.8	14.6	12.1	10.9	9.7
152.5°	20.6	21.8	20.6	19.4	18.2	17.0	15.8	14.6	12.1	10.9	9.7
155°	19.4	19.4	19.4	18.2	18.2	15.8	14.6	13.3	12.1	9.7	8.5
157.5°	18.2	18.2	18.2	17.0	17.0	15.8	14.6	13.3	10.9	9.7	8.5
160°	17.0	17.0	17.0	15.8	15.8	14.6	13.3	12.1	9.7	8.5	8.5
162.5°	15.8	15.8	15.8	14.6	14.6	13.3	12.1	10.9	8.5	7.3	7.3
165°	13.3	14.6	13.3	13.3	12.1	10.9	9.7	9.7	7.3	7.3	6.1
167.5°	12.1	12.1	10.9	10.9	9.7	8.5	7.3	7.3	7.3	6.1	6.1
170°	8.5	8.5	8.5	8.5	7.3	6.1	6.1	6.1	6.1	6.1	4.9
172.5°	3.6	3.6	4.9	6.1	4.9	4.9	4.9	4.9	4.9	4.9	4.9
175°	2.4	2.4	2.4	2.4	2.4	3.6	4.9	4.9	4.9	4.9	3.6
177.5°	1.2	2.4	1.2	1.2	1.2	1.2	2.4	2.4	3.6	3.6	3.6
180°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1	501.1
2.5°	496.3	485.4	486.6	478.1	480.5	476.9	468.4	475.7	469.6	469.6
5°	492.6	476.9	473.2	461.1	459.9	452.6	444.1	446.5	441.7	439.3
7.5°	486.6	465.9	458.7	442.9	436.8	427.1	415.0	417.4	413.8	412.6
10°	473.2	445.3	438.0	421.0	415.0	398.0	385.9	385.9	382.2	377.4
12.5°	465.9	438.0	421.0	400.4	385.9	368.9	358.0	360.4	350.7	350.7
15°	453.8	424.7	406.5	378.6	362.8	345.8	332.5	330.0	324.0	325.2
17.5°	439.3	408.9	387.1	359.2	342.2	322.8	309.4	300.9	294.9	296.1
20°	430.8	391.9	366.4	337.3	317.9	298.5	281.5	276.7	269.4	270.6
22.5°	417.4	378.6	349.5	314.3	294.9	271.8	256.0	252.4	245.1	245.1
25°	405.3	362.8	328.8	296.1	271.8	248.7	231.8	225.7	222.1	219.6
27.5°	388.3	342.2	307.0	274.2	248.7	224.5	207.5	201.4	197.8	196.6
30°	372.5	324.0	288.8	251.2	224.5	203.9	185.7	179.6	173.5	172.3
32.5°	353.1	300.9	263.3	226.9	202.6	180.8	163.8	156.5	152.9	150.5
35°	336.1	275.4	237.8	206.3	182.0	160.2	144.4	137.1	129.8	131.0
37.5°	311.8	251.2	211.1	183.2	161.4	139.5	123.8	116.5	110.4	110.4
40°	285.1	225.7	190.5	162.6	140.8	120.1	104.4	95.9	91.0	91.0
42.5°	258.5	203.9	173.5	145.6	122.6	100.7	84.9	76.4	74.0	72.8
45°	235.4	186.9	156.5	127.4	103.1	82.5	68.0	60.7	57.0	57.0
47.5°	217.2	172.3	143.2	110.4	87.4	68.0	55.8	48.5	43.7	42.5
50°	202.6	160.2	127.4	98.3	75.2	55.8	44.9	38.8	35.2	34.0
52.5°	191.7	150.5	115.3	86.2	65.5	47.3	36.4	32.8	30.3	31.5
55°	183.2	140.8	108.0	77.7	55.8	38.8	29.1	27.9	29.1	29.1
57.5°	171.1	129.8	98.3	68.0	47.3	30.3	23.1	25.5	27.9	27.9
60°	161.4	121.3	89.8	61.9	38.8	24.3	20.6	24.3	26.7	26.7
62.5°	152.9	112.8	81.3	53.4	31.5	19.4	18.2	21.8	24.3	25.5
65°	143.2	104.4	72.8	46.1	25.5	17.0	17.0	19.4	23.1	24.3
67.5°	133.5	95.9	64.3	37.6	20.6	15.8	15.8	17.0	21.8	21.8
70°	123.8	87.4	57.0	31.5	17.0	14.6	13.3	15.8	19.4	20.6
72.5°	114.1	78.9	48.5	25.5	15.8	13.3	13.3	15.8	19.4	19.4
75°	104.4	69.2	41.3	20.6	14.6	13.3	12.1	12.1	18.2	18.2
77.5°	94.6	59.5	34.0	17.0	14.6	13.3	12.1	12.1	17.0	17.0
80°	86.2	51.0	27.9	14.6	13.3	13.3	10.9	10.9	15.8	15.8
82.5°	75.2	42.5	21.8	14.6	13.3	12.1	10.9	9.7	14.6	14.6
85°	64.3	35.2	17.0	13.3	12.1	10.9	9.7	9.7	13.3	13.3
87.5°	54.6	29.1	14.6	13.3	12.1	10.9	9.7	9.7	12.1	12.1
90°	46.1	23.1	13.3	12.1	10.9	9.7	9.7	9.7	10.9	10.9
92.5°	38.8	18.2	13.3	12.1	10.9	9.7	8.5	8.5	9.7	9.7
95°	31.5	15.8	13.3	10.9	9.7	8.5	7.3	8.5	8.5	8.5
97.5°	25.5	13.3	12.1	10.9	9.7	8.5	7.3	7.3	7.3	7.3
100°	20.6	13.3	12.1	9.7	8.5	7.3	6.1	6.1	7.3	7.3
102.5°	17.0	13.3	10.9	9.7	7.3	6.1	6.1	6.1	6.1	6.1
105°	15.8	13.3	10.9	8.5	7.3	6.1	4.9	4.9	4.9	4.9
107.5°	15.8	12.1	9.7	8.5	7.3	6.1	4.9	4.9	4.9	4.9
110°	15.8	12.1	9.7	7.3	6.1	4.9	3.6	3.6	4.9	4.9



TEST NUMBER: P588662
 CATALOG NUMBER: SLFS2AM2B

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	14.6	10.9	9.7	7.3	6.1	4.9	3.6	3.6	3.6	3.6
115°	14.6	10.9	8.5	7.3	4.9	3.6	3.6	3.6	3.6	3.6
117.5°	13.3	10.9	8.5	7.3	4.9	3.6	2.4	2.4	3.6	3.6
120°	13.3	9.7	8.5	6.1	4.9	3.6	2.4	2.4	2.4	2.4
122.5°	12.1	9.7	7.3	6.1	4.9	2.4	2.4	2.4	2.4	2.4
125°	12.1	9.7	7.3	6.1	3.6	2.4	2.4	2.4	2.4	2.4
127.5°	12.1	8.5	7.3	6.1	3.6	2.4	2.4	1.2	2.4	2.4
130°	10.9	8.5	7.3	4.9	3.6	2.4	1.2	1.2	1.2	1.2
132.5°	10.9	8.5	7.3	4.9	3.6	2.4	1.2	1.2	1.2	1.2
135°	10.9	8.5	6.1	4.9	3.6	2.4	1.2	1.2	1.2	1.2
137.5°	9.7	8.5	6.1	4.9	3.6	2.4	1.2	1.2	1.2	1.2
140°	9.7	7.3	6.1	4.9	3.6	2.4	1.2	1.2	1.2	1.2
142.5°	9.7	7.3	6.1	4.9	3.6	2.4	1.2	1.2	1.2	1.2
145°	9.7	7.3	6.1	4.9	3.6	2.4	1.2	1.2	1.2	1.2
147.5°	9.7	7.3	6.1	4.9	3.6	2.4	1.2	1.2	1.2	1.2
150°	8.5	7.3	6.1	4.9	3.6	2.4	1.2	1.2	1.2	1.2
152.5°	8.5	7.3	6.1	4.9	3.6	2.4	2.4	1.2	1.2	1.2
155°	8.5	7.3	6.1	4.9	3.6	2.4	2.4	2.4	1.2	1.2
157.5°	8.5	6.1	4.9	3.6	3.6	2.4	2.4	2.4	2.4	2.4
160°	7.3	6.1	4.9	3.6	3.6	2.4	2.4	2.4	2.4	2.4
162.5°	6.1	6.1	4.9	3.6	3.6	3.6	2.4	2.4	2.4	2.4
165°	6.1	4.9	4.9	3.6	3.6	2.4	2.4	3.6	2.4	2.4
167.5°	4.9	4.9	3.6	3.6	3.6	2.4	2.4	2.4	2.4	3.6
170°	4.9	4.9	3.6	3.6	3.6	2.4	2.4	2.4	2.4	2.4
172.5°	4.9	3.6	3.6	3.6	2.4	2.4	2.4	1.2	1.2	1.2
175°	3.6	3.6	3.6	2.4	2.4	1.2	1.2	1.2	1.2	1.2
177.5°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
180°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)