

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P123891

Luminaire Tested: **ELSG406930WH (50° BEAM - 35° TILT)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P123891  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14002)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ELSG406930WH (50° BEAM - 35° TILT)  
Description: HALO 4 INCH RECESSED FIXTURE WITH SQUARE WHITE TRIM,  
Light Source: (1)SURFACE MOUNT LED, 3000K CCT, 90CRI  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 760.0 lumens  
Efficiency: N/A  
Efficacy: 58.5 lumens/watt  
Spacing Criteria (0/90/45): 2.87 / 0.65 / 1.64  
Luminous Opening: Vertical Cylinder (Dia: 0.17' x H: 0.08')  
CIE Type: Direct

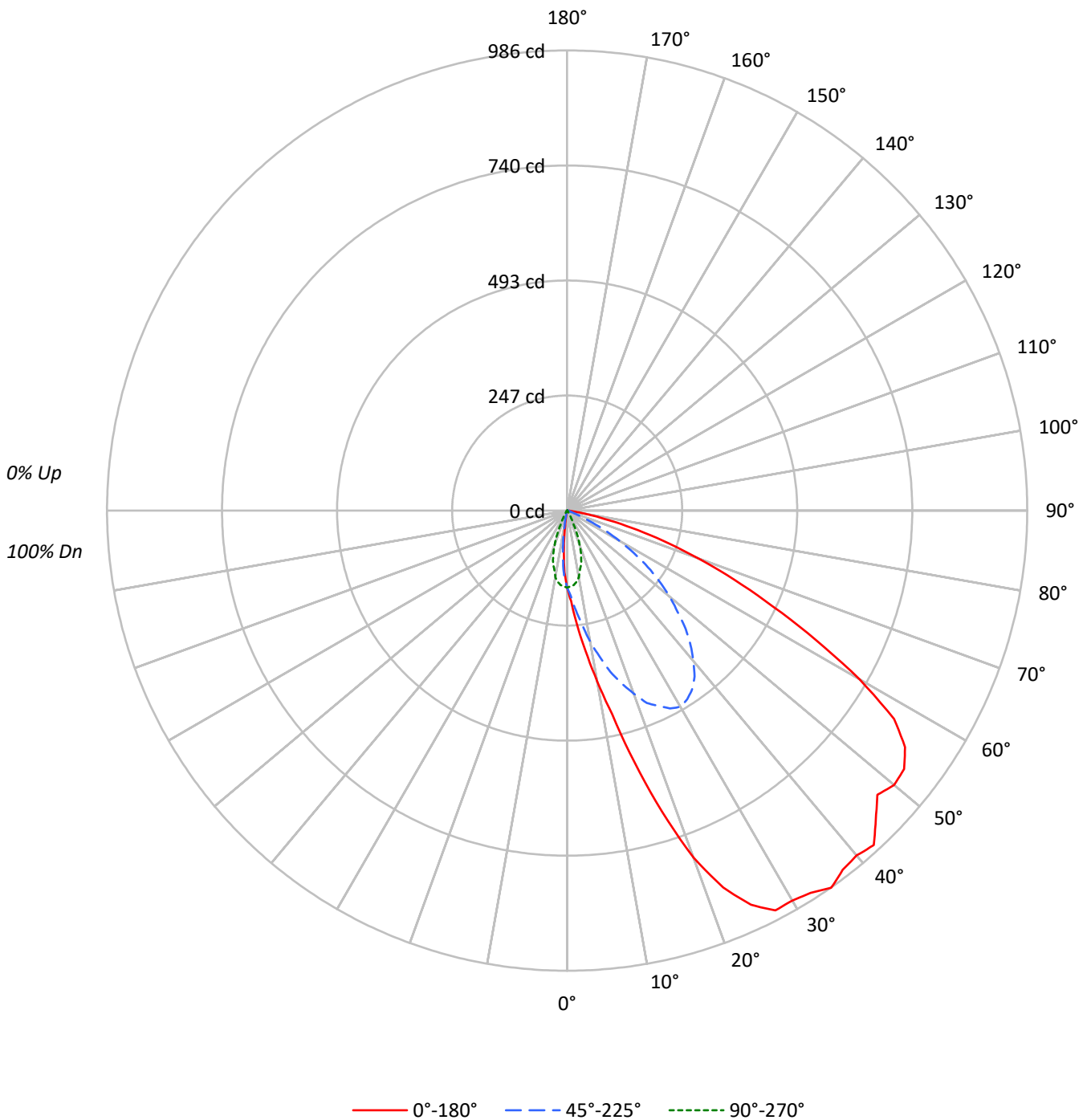
Input Watts (W): 13  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: ELSG406930WH (50° BEAM - 35° TILT)

### 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88				86	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75				73	
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63				61	
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54				52	
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47				45	
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41				38	
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36				34	
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31				29	
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	38	32	28				26	
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25				23	

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

	0°	90°	180°
0°	81309	81309	81309
5°	115173	75249	37390
10°	167109	65357	4910
15°	243789	50966	1440
20°	337267	33505	0
25°	391227	14188	0
30°	401883	4083	0
35°	410976	1833	0
40°	404988	0	0
45°	398707	0	0
50°	399124	0	0
55°	398241	0	0
60°	339533	0	0
65°	240227	0	0
70°	156319	0	0
75°	80748	0	0
80°	22186	0	0
85°	4446	0	0



TEST NUMBER: P123891

CATALOG NUMBER: ELSG406930WH (50° BEAM - 35° TILT)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.3	2.0
10°-20°	54.7	7.2
20°-30°	115.8	15.2
30°-40°	159.9	21.0
40°-50°	168.8	22.2
50°-60°	142.4	18.7
60°-70°	77.8	10.2
70°-80°	23.3	3.1
80°-90°	1.9	0.3
90°-100°	0.1	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
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°	185.7	24.4
0°-40°	345.6	45.5
0°-60°	656.8	86.4
0°-90°	759.9	100.0
90°-120°	0.1	0.0
90°-150°	0.1	0.0
90°-180°	0.0	0.0
0°-180°	760.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	165	165	165	165	165	
5°	246	215	160	103	80	27
15°	559	358	117	6	3	167
25°	932	462	34	0	0	425
35°	986	467	4	0	0	611
45°	935	359	0	0	0	725
55°	884	212	0	0	0	771
65°	487	55	0	0	0	490
75°	143	6	0	0	0	160
85°	6	2	0	0	0	11
90°	4	1	0	0	0	2
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
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: P123891

CATALOG NUMBER: ELSG406930WH (50° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8
2.5°	194.2	192.1	189.9	191.0	188.8	188.8	187.7	185.5	185.5	183.3	182.2
5°	245.5	239.0	239.0	235.7	233.5	230.3	228.1	223.7	220.4	215.0	211.7
7.5°	303.4	301.2	297.9	297.9	289.2	281.6	275.0	266.3	256.5	246.6	236.8
10°	371.0	371.0	365.6	360.1	351.4	342.7	331.7	316.5	302.3	285.9	268.5
12.5°	447.4	443.1	435.4	425.6	413.6	397.2	379.8	361.2	339.4	319.7	294.6
15°	558.7	550.0	539.1	522.7	499.8	471.4	444.2	414.7	386.3	357.9	327.4
17.5°	676.6	671.1	654.8	630.8	599.1	559.8	518.4	470.3	428.9	388.5	352.5
20°	791.2	783.5	766.1	739.9	696.2	647.1	592.6	530.4	470.3	416.9	371.0
22.5°	874.1	868.7	851.2	829.4	789.0	734.4	665.7	590.4	517.3	446.3	388.5
25°	932.0	923.2	909.0	881.8	847.9	796.6	721.3	638.4	544.5	461.6	392.9
27.5°	965.8	961.4	953.8	934.1	900.3	847.9	775.9	677.7	575.1	478.0	400.5
30°	964.7	964.7	965.8	964.7	942.9	886.1	814.1	706.1	593.7	485.6	401.6
32.5°	971.2	968.0	962.5	968.0	960.3	906.9	831.6	720.2	594.7	479.1	389.6
35°	986.5	980.0	970.1	966.9	966.9	916.7	841.4	723.5	589.3	467.1	376.5
37.5°	970.1	976.7	971.2	958.1	960.3	912.3	837.0	712.6	568.6	448.5	356.8
40°	964.7	968.0	957.1	946.1	946.1	899.2	820.6	682.1	536.9	421.2	330.7
42.5°	972.3	958.1	939.6	941.8	933.0	882.8	793.4	644.9	499.8	391.8	305.6
45°	935.2	923.2	924.3	937.4	914.5	856.7	744.3	593.7	459.4	359.0	276.1
47.5°	901.4	907.9	911.2	907.9	874.1	809.7	677.7	534.7	410.3	320.8	240.1
50°	914.5	910.1	905.8	885.0	845.7	751.9	613.3	476.9	371.0	287.0	213.9
52.5°	910.1	905.8	886.1	853.4	789.0	676.6	535.8	418.0	331.7	248.8	175.7
55°	883.9	875.2	849.0	798.8	705.0	586.0	462.7	363.4	283.7	211.7	138.6
57.5°	830.5	814.1	773.7	699.5	603.5	491.1	394.0	313.2	239.0	169.1	101.5
60°	723.5	707.1	663.5	590.4	500.9	412.5	336.1	264.1	196.4	128.8	66.6
62.5°	601.3	586.0	542.4	481.3	412.5	347.0	280.5	216.1	150.6	89.5	37.1
65°	486.7	472.5	439.8	394.0	343.8	288.1	229.2	169.1	108.0	54.6	15.3
67.5°	387.4	377.6	356.8	323.0	280.5	230.3	176.8	118.9	67.7	26.2	7.6
70°	297.9	293.6	279.4	255.4	218.3	173.5	124.4	77.5	33.8	9.8	5.5
72.5°	215.0	212.8	205.2	188.8	159.3	120.0	79.7	41.5	13.1	6.5	5.5
75°	143.0	141.9	137.5	123.3	101.5	75.3	43.7	14.2	4.4	6.5	5.5
77.5°	82.9	80.8	80.8	73.1	57.8	39.3	14.2	7.6	5.5	3.3	3.3
80°	36.0	36.0	36.0	32.7	22.9	12.0	6.5	2.2	1.1	1.1	1.1
82.5°	12.0	10.9	10.9	10.9	8.7	6.5	5.5	3.3	3.3	2.2	1.1
85°	6.5	6.5	6.5	6.5	5.5	4.4	4.4	3.3	2.2	2.2	1.1
87.5°	5.5	3.3	4.4	3.3	3.3	2.2	3.3	2.2	1.1	2.2	1.1
90°	4.4	2.2	2.2	3.3	2.2	2.2	1.1	2.2	0.0	1.1	1.1
92.5°	1.1	1.1	1.1	0.0	1.1	0.0	0.0	0.0	1.1	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P123891

CATALOG NUMBER: ELSG406930WH (50° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



TEST NUMBER: P123891

CATALOG NUMBER: ELSG406930WH (50° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8
2.5°	179.0	179.0	175.7	172.4	170.2	168.1	164.8	162.6	160.4	158.2	156.1
5°	205.2	199.7	194.2	186.6	181.2	174.6	170.2	160.4	152.8	146.2	140.8
7.5°	232.4	218.3	207.3	197.5	187.7	177.9	167.0	153.9	141.9	129.9	118.9
10°	254.3	236.8	221.5	205.2	193.2	177.9	162.6	145.1	128.8	112.4	98.2
12.5°	270.6	248.8	227.0	208.4	187.7	170.2	149.5	127.7	105.9	88.4	69.8
15°	296.8	267.4	241.2	212.8	192.1	169.1	143.0	116.8	91.7	68.8	49.1
17.5°	314.3	281.6	244.4	213.9	187.7	159.3	129.9	99.3	70.9	49.1	28.4
20°	328.5	284.8	245.5	209.5	181.2	149.5	112.4	78.6	50.2	28.4	13.1
22.5°	338.3	288.1	244.4	205.2	170.2	132.0	93.9	60.0	30.6	14.2	10.9
25°	335.0	281.6	232.4	189.9	151.7	108.0	69.8	33.8	9.8	3.3	1.1
27.5°	336.1	277.2	227.0	182.2	138.6	91.7	51.3	20.7	7.6	3.3	4.4
30°	333.9	270.6	216.1	167.0	117.9	73.1	33.8	9.8	5.5	7.6	3.3
32.5°	318.7	254.3	198.6	147.3	94.9	48.0	14.2	4.4	3.3	1.1	1.1
35°	303.4	237.9	182.2	125.5	73.1	29.5	8.7	4.4	1.1	3.3	1.1
37.5°	281.6	217.2	159.3	100.4	50.2	13.1	4.4	2.2	2.2	1.1	0.0
40°	256.5	192.1	131.0	74.2	27.3	4.4	2.2	0.0	0.0	0.0	0.0
42.5°	233.5	167.0	105.9	50.2	12.0	3.3	2.2	1.1	1.1	0.0	0.0
45°	205.2	137.5	77.5	27.3	6.5	2.2	1.1	0.0	0.0	0.0	2.2
47.5°	171.3	104.8	48.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	143.0	78.6	27.3	5.5	3.3	0.0	2.2	0.0	0.0	0.0	0.0
52.5°	106.9	48.0	9.8	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
55°	75.3	25.1	6.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	44.7	9.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	20.7	5.5	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8.7	4.4	2.2	2.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
65°	6.5	3.3	2.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0	1.1
67.5°	4.4	3.3	2.2	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
70°	2.2	2.2	1.1	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	3.3	3.3	2.2	1.1	0.0	1.1	1.1	0.0	0.0	0.0	0.0
75°	2.2	1.1	2.2	0.0	1.1	0.0	1.1	0.0	0.0	0.0	0.0
77.5°	2.2	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.2	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	1.1	2.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
90°	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P123891

CATALOG NUMBER: ELSG406930WH (50° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



TEST NUMBER: P123891

CATALOG NUMBER: ELSG406930WH (50° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8
2.5°	152.8	149.5	149.5	146.2	144.0	143.0	141.9	137.5	136.4	135.3	135.3
5°	133.1	126.6	118.9	113.5	108.0	102.6	98.2	96.0	89.5	85.1	82.9
7.5°	108.0	97.1	87.3	78.6	67.7	63.3	53.5	49.1	43.7	40.4	36.0
10°	81.8	69.8	56.7	44.7	36.0	29.5	22.9	18.6	16.4	14.2	12.0
12.5°	51.3	34.9	26.2	17.5	8.7	6.5	6.5	3.3	2.2	2.2	1.1
15°	32.7	18.6	12.0	8.7	8.7	6.5	5.5	4.4	4.4	3.3	3.3
17.5°	15.3	9.8	7.6	4.4	4.4	4.4	3.3	4.4	6.5	3.3	2.2
20°	6.5	5.5	4.4	3.3	2.2	4.4	2.2	1.1	1.1	1.1	1.1
22.5°	6.5	5.5	4.4	5.5	8.7	1.1	3.3	1.1	1.1	0.0	1.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2.2	2.2	0.0	0.0	1.1	0.0	0.0	0.0	3.3	2.2	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6.5	0.0	1.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1.1	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P123891

CATALOG NUMBER: ELSG406930WH (50° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



TEST NUMBER: P123891

CATALOG NUMBER: ELSG406930WH (50° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	164.8	164.8	164.8	164.8
2.5°	134.2	133.1	134.2	132.0
5°	84.0	79.7	79.7	79.7
7.5°	34.9	32.7	31.6	32.7
10°	12.0	10.9	10.9	10.9
12.5°	2.2	1.1	1.1	1.1
15°	3.3	3.3	3.3	3.3
17.5°	2.2	1.1	2.2	1.1
20°	0.0	0.0	0.0	0.0
22.5°	1.1	1.1	0.0	0.0
25°	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0
30°	1.1	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0



TEST NUMBER: P123891

CATALOG NUMBER: ELSG406930WH (50° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)