

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: P123892

Luminaire Tested: **ELSG406935WH (50° BEAM - 35° TILT)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123892
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: ELSG406935WH (50° BEAM - 35° TILT)
Description: HALO 4 INCH RECESSED FIXTURE WITH SQUARE WHITE TRIM,
Light Source: (1)SURFACE MOUNT LED, 3500K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 800.0 lumens
Efficiency: N/A
Efficacy: 61.5 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

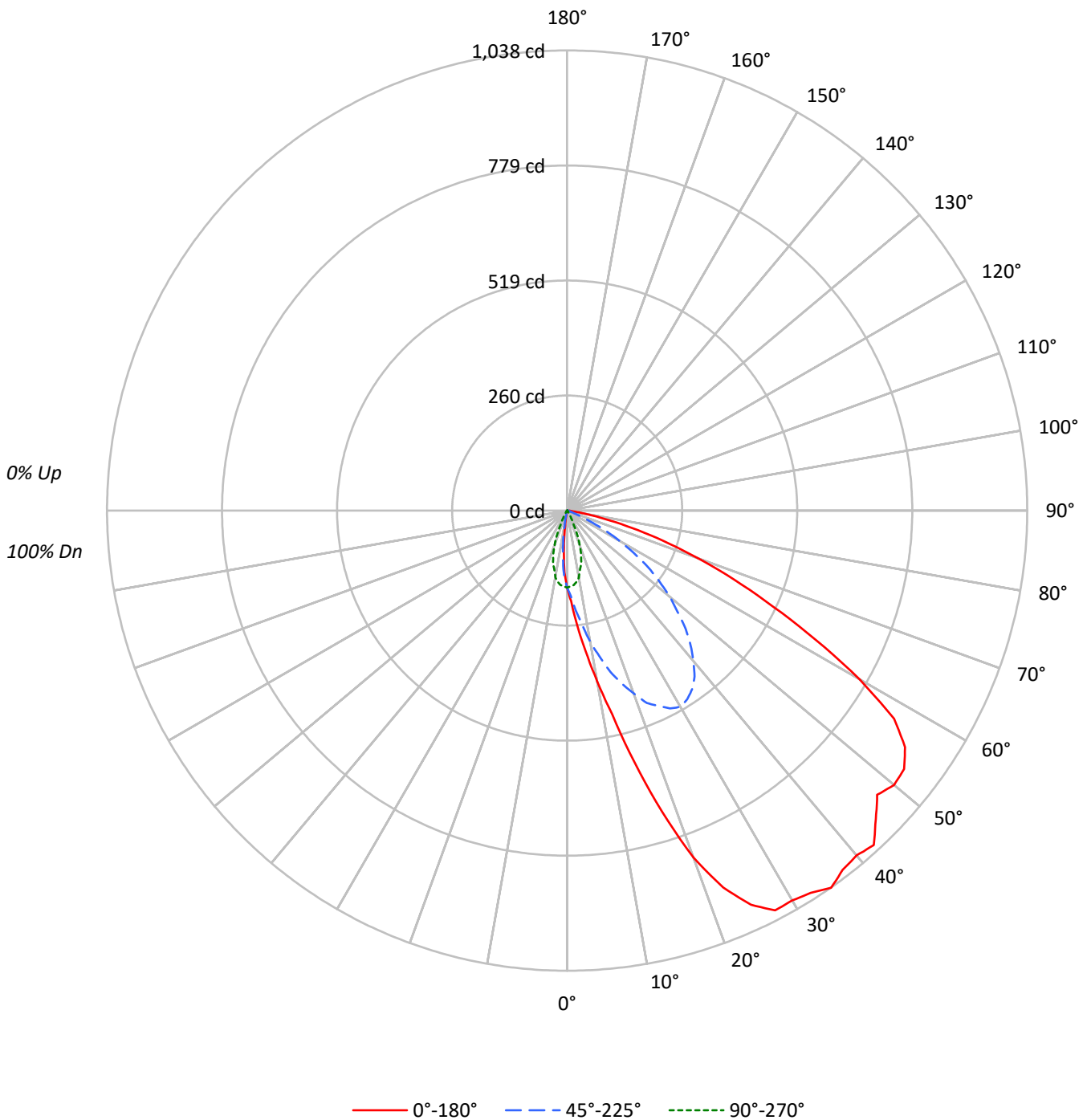
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P123892

CATALOG NUMBER: ELSG406935WH (50° BEAM - 35° TILT)

Luminous Intensity Polar Plot





TEST NUMBER: P123892

CATALOG NUMBER: ELSG406935WH (50° BEAM - 35° TILT)

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	85601	85601	85601
5°	121271	79237	39360
10°	175938	68826	5180
15°	256618	53628	1484
20°	355000	35253	0
25°	411796	14944	0
30°	423046	4291	0
35°	432598	1916	0
40°	426314	0	0
45°	419683	0	0
50°	420117	0	0
55°	419236	0	0
60°	357413	0	0
65°	252862	0	0
70°	164557	0	0
75°	84983	0	0
80°	23357	0	0
85°	4719	0	0



TEST NUMBER: P123892

CATALOG NUMBER: ELSG406935WH (50° BEAM - 35° TILT)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	2.0
10°-20°	57.6	7.2
20°-30°	121.9	15.2
30°-40°	168.3	21.0
40°-50°	177.6	22.2
50°-60°	149.9	18.7
60°-70°	81.9	10.2
70°-80°	24.5	3.1
80°-90°	2.0	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°	195.5	24.4
0°-40°	363.8	45.5
0°-60°	691.4	86.4
0°-90°	799.8	100.0
90°-120°	0.1	0.0
90°-150°	0.1	0.0
90°-180°	0.0	0.0
0°-180°	800.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	174	174	174	174	174	
5°	258	226	169	108	84	29
15°	588	377	123	7	3	175
25°	981	486	36	0	0	447
35°	1038	492	5	0	0	644
45°	984	378	0	0	0	763
55°	930	223	0	0	0	811
65°	512	57	0	0	0	516
75°	150	7	0	0	0	168
85°	7	2	0	0	0	11
90°	5	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: P123892

CATALOG NUMBER: ELSG406935WH (50° BEAM - 35° TILT)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5
2.5°	204.5	202.2	199.9	201.0	198.7	198.7	197.6	195.3	195.3	193.0	191.8
5°	258.5	251.6	251.6	248.1	245.8	242.4	240.1	235.5	232.0	226.3	222.9
7.5°	319.3	317.0	313.6	313.6	304.4	296.4	289.5	280.3	269.9	259.6	249.3
10°	390.6	390.6	384.8	379.1	369.9	360.7	349.2	333.1	318.2	301.0	282.6
12.5°	471.0	466.4	458.3	448.0	435.4	418.1	399.8	380.2	357.3	336.6	310.2
15°	588.1	579.0	567.5	550.2	526.1	496.2	467.5	436.5	406.6	376.8	344.6
17.5°	712.2	706.5	689.2	664.0	630.6	589.3	545.6	495.1	451.4	408.9	371.0
20°	832.8	824.8	806.4	778.8	732.9	681.2	623.8	558.3	495.1	438.8	390.6
22.5°	920.1	914.4	896.0	873.0	830.5	773.1	700.7	621.5	544.5	469.8	408.9
25°	981.0	971.8	956.9	928.2	892.6	838.6	759.3	672.0	573.2	485.9	413.5
27.5°	1016.6	1012.0	1004.0	983.3	947.7	892.6	816.7	713.4	605.4	503.1	421.6
30°	1015.5	1015.5	1016.6	1015.5	992.5	932.8	856.9	743.2	624.9	511.2	422.7
32.5°	1022.4	1018.9	1013.2	1018.9	1010.9	954.6	875.3	758.2	626.1	504.3	410.1
35°	1038.4	1031.5	1021.2	1017.8	1017.8	964.9	885.7	761.6	620.3	491.7	396.3
37.5°	1021.2	1028.1	1022.4	1008.6	1010.9	960.3	881.1	750.1	598.5	472.1	375.6
40°	1015.5	1018.9	1007.4	995.9	995.9	946.5	863.8	717.9	565.2	443.4	348.1
42.5°	1023.5	1008.6	989.0	991.3	982.2	929.3	835.1	678.9	526.1	412.4	321.6
45°	984.4	971.8	973.0	986.7	962.6	901.7	783.4	624.9	483.6	377.9	290.6
47.5°	948.8	955.7	959.2	955.7	920.1	852.3	713.4	562.9	431.9	337.7	252.7
50°	962.6	958.0	953.4	931.6	890.3	791.5	645.6	502.0	390.6	302.1	225.1
52.5°	958.0	953.4	932.8	898.3	830.5	712.2	564.0	440.0	349.2	261.9	184.9
55°	930.5	921.3	893.7	840.9	742.1	616.9	487.1	382.5	298.7	222.9	145.9
57.5°	874.2	856.9	814.4	736.3	635.2	516.9	414.7	329.7	251.6	178.1	106.8
60°	761.6	744.4	698.4	621.5	527.3	434.2	353.8	278.0	206.8	135.5	70.1
62.5°	632.9	616.9	570.9	506.6	434.2	365.3	295.2	227.4	158.5	94.2	39.1
65°	512.3	497.4	462.9	414.7	361.8	303.3	241.2	178.1	113.7	57.4	16.1
67.5°	407.8	397.5	375.6	340.0	295.2	242.4	186.1	125.2	71.2	27.6	8.0
70°	313.6	309.0	294.1	268.8	229.7	182.6	131.0	81.6	35.6	10.3	5.7
72.5°	226.3	224.0	216.0	198.7	167.7	126.4	83.9	43.7	13.8	6.9	5.7
75°	150.5	149.3	144.7	129.8	106.8	79.3	45.9	14.9	4.6	6.9	5.7
77.5°	87.3	85.0	85.0	77.0	60.9	41.4	14.9	8.0	5.7	3.4	3.4
80°	37.9	37.9	37.9	34.5	24.1	12.6	6.9	2.3	1.1	1.1	1.1
82.5°	12.6	11.5	11.5	11.5	9.2	6.9	5.7	3.4	3.4	2.3	1.1
85°	6.9	6.9	6.9	6.9	5.7	4.6	4.6	3.4	2.3	2.3	1.1
87.5°	5.7	3.4	4.6	3.4	3.4	2.3	3.4	2.3	1.1	2.3	1.1
90°	4.6	2.3	2.3	3.4	2.3	2.3	1.1	2.3	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: P123892

CATALOG NUMBER: ELSG406935WH (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: P123892

CATALOG NUMBER: ELSG406935WH (50° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5
2.5°	188.4	188.4	184.9	181.5	179.2	176.9	173.5	171.2	168.9	166.6	164.3
5°	216.0	210.2	204.5	196.4	190.7	183.8	179.2	168.9	160.8	153.9	148.2
7.5°	244.7	229.7	218.3	207.9	197.6	187.2	175.8	162.0	149.3	136.7	125.2
10°	267.7	249.3	233.2	216.0	203.3	187.2	171.2	152.8	135.5	118.3	103.4
12.5°	284.9	261.9	238.9	219.4	197.6	179.2	157.4	134.4	111.4	93.0	73.5
15°	312.5	281.4	253.9	224.0	202.2	178.1	150.5	122.9	96.5	72.4	51.7
17.5°	330.8	296.4	257.3	225.1	197.6	167.7	136.7	104.5	74.7	51.7	29.9
20°	345.8	299.8	258.5	220.6	190.7	157.4	118.3	82.7	52.8	29.9	13.8
22.5°	356.1	303.3	257.3	216.0	179.2	139.0	98.8	63.2	32.2	14.9	11.5
25°	352.7	296.4	244.7	199.9	159.7	113.7	73.5	35.6	10.3	3.4	1.1
27.5°	353.8	291.8	238.9	191.8	145.9	96.5	54.0	21.8	8.0	3.4	4.6
30°	351.5	284.9	227.4	175.8	124.1	77.0	35.6	10.3	5.7	8.0	3.4
32.5°	335.4	267.7	209.1	155.1	99.9	50.5	14.9	4.6	3.4	1.1	1.1
35°	319.3	250.4	191.8	132.1	77.0	31.0	9.2	4.6	1.1	3.4	1.1
37.5°	296.4	228.6	167.7	105.7	52.8	13.8	4.6	2.3	2.3	1.1	0.0
40°	269.9	202.2	137.8	78.1	28.7	4.6	2.3	0.0	0.0	0.0	0.0
42.5°	245.8	175.8	111.4	52.8	12.6	3.4	2.3	1.1	1.1	0.0	0.0
45°	216.0	144.7	81.6	28.7	6.9	2.3	1.1	0.0	0.0	0.0	2.3
47.5°	180.3	110.3	50.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	150.5	82.7	28.7	5.7	3.4	0.0	2.3	0.0	0.0	0.0	0.0
52.5°	112.6	50.5	10.3	4.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
55°	79.3	26.4	6.9	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	47.1	10.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	21.8	5.7	2.3	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9.2	4.6	2.3	2.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0
65°	6.9	3.4	2.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0	1.1
67.5°	4.6	3.4	2.3	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
70°	2.3	2.3	1.1	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	3.4	3.4	2.3	1.1	0.0	1.1	1.1	0.0	0.0	0.0	0.0
75°	2.3	1.1	2.3	0.0	1.1	0.0	1.1	0.0	0.0	0.0	0.0
77.5°	2.3	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°	2.3	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	1.1	2.3	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: P123892

CATALOG NUMBER: ELSG406935WH (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: P123892

CATALOG NUMBER: ELSG406935WH (50° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5
2.5°	160.8	157.4	157.4	153.9	151.6	150.5	149.3	144.7	143.6	142.4	142.4
5°	140.1	133.3	125.2	119.5	113.7	108.0	103.4	101.1	94.2	89.6	87.3
7.5°	113.7	102.2	91.9	82.7	71.2	66.6	56.3	51.7	45.9	42.5	37.9
10°	86.2	73.5	59.7	47.1	37.9	31.0	24.1	19.5	17.2	14.9	12.6
12.5°	54.0	36.8	27.6	18.4	9.2	6.9	6.9	3.4	2.3	2.3	1.1
15°	34.5	19.5	12.6	9.2	9.2	6.9	5.7	4.6	4.6	3.4	3.4
17.5°	16.1	10.3	8.0	4.6	4.6	4.6	3.4	4.6	6.9	3.4	2.3
20°	6.9	5.7	4.6	3.4	2.3	4.6	2.3	1.1	1.1	1.1	1.1
22.5°	6.9	5.7	4.6	5.7	9.2	1.1	3.4	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°	2.3	2.3	0.0	0.0	1.1	0.0	0.0	0.0	3.4	2.3	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°	6.9	0.0	1.1	2.3	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: P123892

CATALOG NUMBER: ELSG406935WH (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: P123892

CATALOG NUMBER: ELSG406935WH (50° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	173.5	173.5	173.5	173.5
2.5°	141.3	140.1	141.3	139.0
5°	88.5	83.9	83.9	83.9
7.5°	36.8	34.5	33.3	34.5
10°	12.6	11.5	11.5	11.5
12.5°	2.3	1.1	1.1	1.1
15°	3.4	3.4	3.4	3.4
17.5°	2.3	1.1	2.3	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: P123892

CATALOG NUMBER: ELSG406935WH (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)