

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: P123843

Luminaire Tested: **ELSG406930WH (25° BEAM - 35° TILT)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P123843  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13998)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ELSG406930WH (25° 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: 790.0 lumens  
Efficiency: N/A  
Efficacy: 60.8 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.76 / 1.39  
Luminous Opening: Vertical Cylinder (Dia: 0.17' x H: 0.08')  
CIE Type: Direct

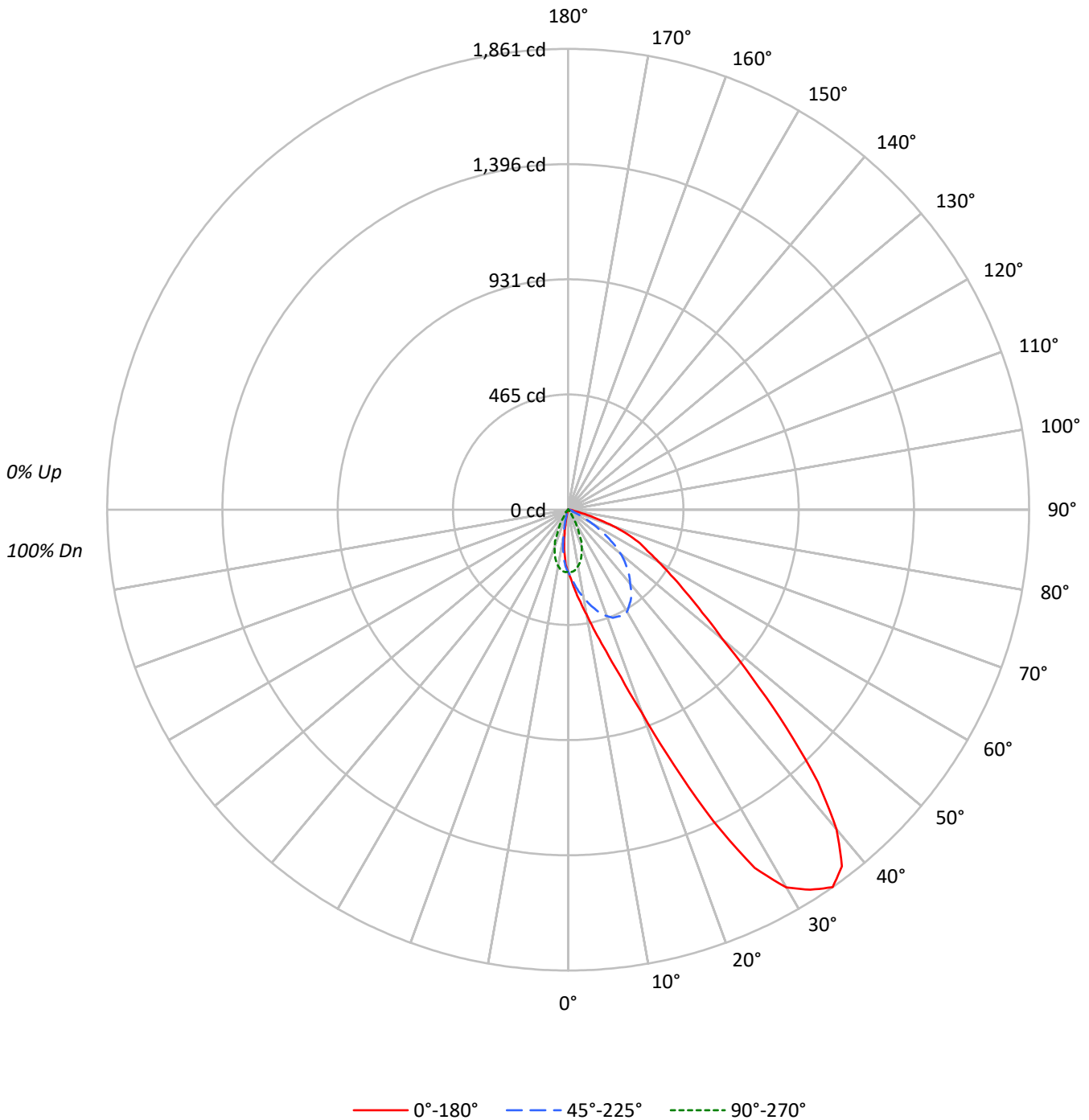
Input Watts (W): 13  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P123843

CATALOG NUMBER: ELSG406930WH (25° BEAM - 35° TILT)

### Luminous Intensity Polar Plot





TEST NUMBER: P123843

CATALOG NUMBER: ELSG406930WH (25° 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	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46	44
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

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

	0°	90°	180°
0°	123542	123542	123542
5°	154392	116955	81067
10°	194540	103914	29053
15°	258145	87794	7636
20°	372903	68033	5115
25°	582936	43152	0
30°	733862	22787	0
35°	775335	8665	0
40°	707375	6423	0
45°	530956	4647	0
50°	355044	2881	0
55°	260598	991	0
60°	198088	0	0
65°	157601	543	0
70°	100959	0	577
75°	39527	0	0
80°	10785	0	0
85°	10465	0	0



TEST NUMBER: P123843

CATALOG NUMBER: ELSG406930WH (25° BEAM - 35° TILT)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.4	3.0
10°-20°	69.6	8.8
20°-30°	144.2	18.3
30°-40°	206.0	26.1
40°-50°	169.7	21.5
50°-60°	104.3	13.2
60°-70°	55.3	7.0
70°-80°	14.4	1.8
80°-90°	2.8	0.4
90°-100°	0.3	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°	237.2	30.0
0°-40°	443.3	56.1
0°-60°	717.2	90.8
0°-90°	789.7	100.0
90°-120°	0.3	0.0
90°-150°	0.3	0.0
90°-180°	0.0	0.0
0°-180°	790.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	250	250	250	250	250	
5°	329	304	249	196	173	34
15°	592	414	201	35	18	180
25°	1389	476	103	7	0	644
35°	1861	442	21	0	0	1133
45°	1245	338	11	0	0	958
55°	578	196	2	0	0	528
65°	319	40	1	0	0	308
75°	70	14	0	0	0	86
85°	15	3	0	0	0	12
90°	8	0	0	0	0	4
95°	1	0	0	0	0	1
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: P123843

CATALOG NUMBER: ELSG406930WH (25° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4
2.5°	282.1	278.8	279.9	278.8	277.7	276.6	276.6	275.6	274.5	274.5	270.1
5°	329.1	329.1	328.0	325.8	322.6	319.3	319.3	312.7	309.4	304.0	300.7
7.5°	375.1	370.7	369.6	367.4	364.1	359.7	354.3	347.7	341.2	334.6	325.8
10°	431.9	428.6	425.4	418.8	412.2	402.4	391.5	380.5	369.6	358.7	347.7
12.5°	504.1	498.6	493.1	484.4	472.4	457.1	440.7	423.2	405.7	389.3	368.5
15°	591.6	588.3	576.3	560.9	540.2	518.3	493.1	465.8	439.6	414.4	386.0
17.5°	709.7	698.7	682.3	655.0	621.1	587.2	547.8	509.6	473.5	440.7	403.5
20°	874.8	856.2	822.3	774.2	717.3	660.4	604.7	552.2	503.0	457.1	415.5
22.5°	1113.1	1085.8	1024.6	933.8	834.3	744.6	661.5	591.6	529.2	472.4	423.2
25°	1388.7	1350.4	1258.6	1120.8	965.5	822.3	707.5	616.7	542.4	475.7	421.0
27.5°	1630.3	1588.8	1484.9	1307.8	1097.8	903.2	752.3	640.8	554.4	482.2	421.0
30°	1761.6	1727.7	1634.7	1441.2	1190.8	954.6	774.2	647.3	554.4	475.7	411.1
32.5°	1819.5	1780.1	1697.0	1504.6	1225.8	963.3	766.5	636.4	539.1	458.2	392.6
35°	1861.1	1800.9	1699.2	1498.0	1207.2	937.1	743.5	618.9	519.4	441.8	378.3
37.5°	1815.1	1755.0	1639.1	1409.5	1124.1	873.7	702.0	586.1	494.2	417.7	358.7
40°	1685.0	1636.9	1495.8	1267.3	1009.3	794.9	655.0	545.6	462.5	389.3	334.6
42.5°	1492.6	1437.9	1299.0	1089.1	879.1	718.4	604.7	505.2	427.5	365.2	313.8
45°	1245.4	1198.4	1079.2	913.0	765.4	647.3	545.6	462.5	391.5	337.9	284.3
47.5°	1008.2	968.8	881.3	770.9	669.2	576.3	489.9	416.6	358.7	309.4	251.5
50°	813.5	788.4	737.0	665.9	586.1	509.6	438.5	377.2	332.4	276.6	215.4
52.5°	682.3	664.8	628.7	570.8	510.6	448.3	389.3	340.1	293.0	239.5	177.1
55°	578.4	565.3	536.9	494.2	445.0	394.7	351.0	307.3	254.8	195.7	136.7
57.5°	491.0	480.0	460.3	426.4	386.0	353.2	311.6	266.8	213.2	152.0	97.3
60°	422.1	413.3	393.6	370.7	345.5	313.8	271.2	220.9	166.2	113.7	63.4
62.5°	361.9	357.6	345.5	326.9	301.8	266.8	220.9	170.6	120.3	72.2	32.8
65°	319.3	314.9	305.1	284.3	254.8	216.5	172.8	125.7	80.9	40.5	19.7
67.5°	260.2	255.9	247.1	229.6	199.0	161.8	122.5	82.0	44.8	21.9	17.5
70°	192.4	188.1	181.5	167.3	143.2	109.3	78.7	47.0	23.0	18.6	17.5
72.5°	123.6	122.5	117.0	108.3	90.8	70.0	42.6	21.9	18.6	15.3	14.2
75°	70.0	71.1	70.0	64.5	53.6	33.9	19.7	17.5	16.4	14.2	6.6
77.5°	30.6	30.6	31.7	29.5	24.1	18.6	18.6	16.4	14.2	10.9	5.5
80°	17.5	16.4	16.4	17.5	16.4	16.4	15.3	12.0	8.7	4.4	2.2
82.5°	16.4	15.3	15.3	15.3	14.2	14.2	13.1	8.7	5.5	3.3	2.2
85°	15.3	14.2	14.2	14.2	14.2	12.0	8.7	6.6	3.3	3.3	2.2
87.5°	9.8	8.7	8.7	9.8	7.7	6.6	3.3	2.2	1.1	1.1	1.1
90°	7.7	6.6	7.7	5.5	4.4	3.3	2.2	2.2	2.2	0.0	0.0
92.5°	3.3	3.3	2.2	2.2	2.2	0.0	0.0	1.1	1.1	1.1	0.0
95°	1.1	0.0	0.0	1.1	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: P123843

CATALOG NUMBER: ELSG406930WH (25° 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: P123843

CATALOG NUMBER: ELSG406930WH (25° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4
2.5°	269.0	265.7	264.6	261.3	259.1	255.9	254.8	252.6	249.3	247.1	243.8
5°	293.0	288.7	283.2	276.6	267.9	262.4	254.8	249.3	243.8	234.0	229.6
7.5°	317.1	309.4	299.6	287.6	276.6	266.8	252.6	242.7	230.7	222.0	209.9
10°	334.6	321.5	308.4	293.0	278.8	262.4	247.1	230.7	215.4	202.3	188.1
12.5°	353.2	334.6	317.1	298.5	278.8	259.1	242.7	218.7	197.9	181.5	162.9
15°	364.1	344.4	321.5	298.5	275.6	250.4	225.3	201.2	180.4	156.4	134.5
17.5°	372.9	346.6	326.9	294.1	266.8	237.3	208.8	181.5	156.4	130.1	103.9
20°	379.4	349.9	320.4	288.7	255.9	223.1	190.3	159.6	129.0	99.5	73.3
22.5°	380.5	347.7	314.9	278.8	241.7	205.6	173.9	138.9	102.8	72.2	48.1
25°	371.8	336.8	300.7	260.2	220.9	182.6	142.1	102.8	67.8	41.6	20.8
27.5°	370.7	332.4	293.0	249.3	204.5	161.8	120.3	79.8	47.0	25.1	18.6
30°	364.1	320.4	278.8	227.4	183.7	136.7	91.9	54.7	27.3	18.6	19.7
32.5°	345.5	301.8	252.6	201.2	153.1	105.0	61.2	29.5	16.4	13.1	13.1
35°	331.3	282.1	230.7	180.4	126.8	80.9	39.4	20.8	15.3	15.3	14.2
37.5°	309.4	258.1	203.4	150.9	97.3	51.4	21.9	16.4	16.4	12.0	7.7
40°	286.5	227.4	173.9	118.1	67.8	29.5	15.3	15.3	10.9	5.5	3.3
42.5°	255.9	199.0	144.3	87.5	42.6	18.6	15.3	13.1	9.8	4.4	2.2
45°	225.3	168.4	110.4	62.3	25.1	16.4	14.2	10.9	6.6	3.3	4.4
47.5°	192.4	134.5	76.5	33.9	16.4	16.4	13.1	5.5	3.3	2.2	0.0
50°	156.4	97.3	48.1	19.7	16.4	15.3	8.7	6.6	2.2	1.1	0.0
52.5°	115.9	65.6	25.1	14.2	15.3	10.9	2.2	0.0	0.0	0.0	0.0
55°	82.0	37.2	17.5	15.3	12.0	6.6	3.3	2.2	0.0	0.0	0.0
57.5°	48.1	20.8	16.4	14.2	7.7	3.3	0.0	0.0	0.0	0.0	1.1
60°	27.3	17.5	16.4	12.0	5.5	2.2	1.1	0.0	0.0	0.0	0.0
62.5°	17.5	15.3	13.1	7.7	3.3	1.1	0.0	0.0	0.0	0.0	0.0
65°	16.4	14.2	9.8	5.5	2.2	1.1	0.0	1.1	1.1	0.0	0.0
67.5°	15.3	12.0	5.5	3.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0
70°	15.3	8.7	4.4	4.4	0.0	1.1	1.1	0.0	0.0	0.0	1.1
72.5°	8.7	3.3	2.2	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.6	3.3	0.0	1.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.3	2.2	1.1	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
80°	2.2	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	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.1	0.0	1.1	0.0	1.1	1.1	0.0	0.0	1.1	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	0.0
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°	1.1	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	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: P123843

CATALOG NUMBER: ELSG406930WH (25° 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: P123843

CATALOG NUMBER: ELSG406930WH (25° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4	250.4
2.5°	242.7	240.6	238.4	235.1	232.9	231.8	230.7	228.5	227.4	225.3	224.2
5°	220.9	217.6	209.9	204.5	199.0	195.7	189.2	189.2	185.9	180.4	176.0
7.5°	202.3	190.3	180.4	171.7	162.9	159.6	147.6	141.1	136.7	129.0	125.7
10°	173.9	160.7	147.6	133.4	121.4	112.6	100.6	90.8	84.2	78.7	73.3
12.5°	148.7	126.8	110.4	97.3	80.9	68.9	60.1	50.3	42.6	38.3	31.7
15°	112.6	91.9	73.3	56.9	44.8	35.0	27.3	23.0	20.8	20.8	17.5
17.5°	79.8	60.1	42.6	28.4	24.1	18.6	16.4	15.3	17.5	16.4	15.3
20°	50.3	32.8	21.9	17.5	15.3	15.3	15.3	15.3	13.1	13.1	13.1
22.5°	27.3	20.8	16.4	15.3	14.2	15.3	15.3	17.5	12.0	12.0	8.7
25°	14.2	10.9	12.0	9.8	9.8	6.6	3.3	2.2	1.1	1.1	0.0
27.5°	16.4	15.3	14.2	12.0	9.8	6.6	4.4	3.3	2.2	2.2	3.3
30°	15.3	14.2	9.8	6.6	6.6	4.4	1.1	2.2	1.1	1.1	0.0
32.5°	9.8	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	8.7	6.6	3.3	1.1	1.1	0.0	1.1	3.3	0.0	2.2	0.0
37.5°	4.4	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1.1	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	1.1	0.0	1.1	0.0	0.0	0.0	1.1	0.0
50°	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1	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	1.1	0.0	1.1	0.0	0.0	0.0	1.1	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°	1.1	1.1	0.0	1.1	0.0	0.0	0.0	1.1	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	1.1	1.1	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	1.1	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	1.1	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	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: P123843

CATALOG NUMBER: ELSG406930WH (25° 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: P123843

CATALOG NUMBER: ELSG406930WH (25° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	250.4	250.4	250.4	250.4
2.5°	225.3	224.2	223.1	223.1
5°	175.0	173.9	171.7	172.8
7.5°	124.7	121.4	118.1	120.3
10°	70.0	65.6	64.5	64.5
12.5°	31.7	27.3	28.4	29.5
15°	18.6	17.5	17.5	17.5
17.5°	15.3	14.2	15.3	15.3
20°	13.1	12.0	12.0	12.0
22.5°	9.8	7.7	6.6	7.7
25°	0.0	0.0	0.0	0.0
27.5°	2.2	1.1	1.1	2.2
30°	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0
35°	0.0	2.2	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	1.1
72.5°	0.0	0.0	0.0	0.0
75°	1.1	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: P123843

CATALOG NUMBER: ELSG406930WH (25° 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)