

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: P123844

Luminaire Tested: **ELSG406935WH (25° BEAM - 35° TILT)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P123844  
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: ELSG406935WH (25° 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: 830.0 lumens  
Efficiency: N/A  
Efficacy: 63.8 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

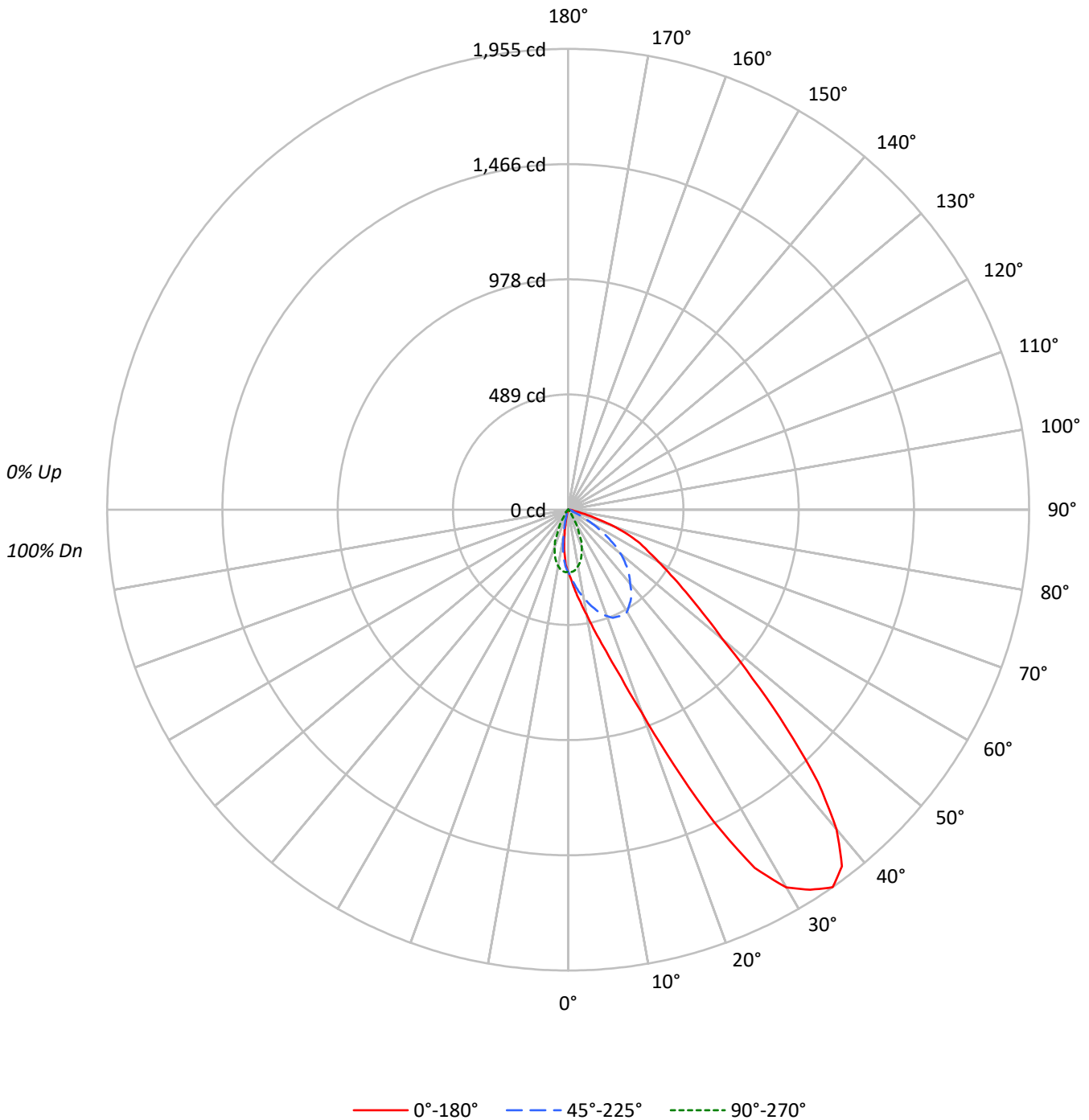
Input Watts (W): 13  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P123844

CATALOG NUMBER: ELSG406935WH (25° 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	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88				88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66				66
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57				57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46	44				44
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39				39
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31				31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28				28

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

	0°	90°	180°
0°	129808	129808	129808
5°	162227	122866	85148
10°	204405	109184	30539
15°	271192	92245	8029
20°	391787	71486	5371
25°	612446	45335	0
30°	770980	23912	0
35°	814578	9082	0
40°	743184	6759	0
45°	557857	4903	0
50°	373025	3011	0
55°	273799	1036	0
60°	208084	0	0
65°	165597	543	0
70°	106102	0	577
75°	41504	0	0
80°	11339	0	0
85°	11012	0	0



TEST NUMBER: P123844

CATALOG NUMBER: ELSG406935WH (25° BEAM - 35° TILT)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.6	3.0
10°-20°	73.1	8.8
20°-30°	151.5	18.3
30°-40°	216.5	26.1
40°-50°	178.3	21.5
50°-60°	109.5	13.2
60°-70°	58.1	7.0
70°-80°	15.1	1.8
80°-90°	3.0	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°	249.2	30.0
0°-40°	465.7	56.1
0°-60°	753.5	90.8
0°-90°	829.7	100.0
90°-120°	0.3	0.0
90°-150°	0.3	0.0
90°-180°	0.0	0.0
0°-180°	830.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	263	263	263	263	263	
5°	346	319	262	206	182	36
15°	622	435	211	37	18	190
25°	1459	500	108	7	0	676
35°	1955	464	22	0	0	1191
45°	1308	355	12	0	0	1006
55°	608	206	2	0	0	555
65°	336	42	1	0	0	324
75°	74	15	0	0	0	91
85°	16	3	0	0	0	13
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: P123844

CATALOG NUMBER: ELSG406935WH (25° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	263.1	263.1	263.1	263.1	263.1	263.1	263.1	263.1	263.1	263.1	263.1
2.5°	296.4	292.9	294.1	292.9	291.8	290.7	290.7	289.5	288.4	288.4	283.8
5°	345.8	345.8	344.6	342.3	338.9	335.5	335.5	328.6	325.1	319.4	315.9
7.5°	394.0	389.4	388.3	386.0	382.6	378.0	372.2	365.3	358.4	351.5	342.3
10°	453.8	450.3	446.9	440.0	433.1	422.8	411.3	399.8	388.3	376.8	365.3
12.5°	529.6	523.9	518.1	508.9	496.3	480.2	463.0	444.6	426.2	409.0	387.2
15°	621.5	618.1	605.4	589.3	567.5	544.5	518.1	489.4	461.8	435.4	405.5
17.5°	745.6	734.1	716.9	688.1	652.5	616.9	575.6	535.4	497.4	463.0	423.9
20°	919.1	899.5	863.9	813.4	753.6	693.9	635.3	580.2	528.5	480.2	436.6
22.5°	1169.5	1140.8	1076.4	981.1	876.5	782.3	695.0	621.5	556.0	496.3	444.6
25°	1459.0	1418.8	1322.3	1177.5	1014.4	863.9	743.3	647.9	569.8	499.7	442.3
27.5°	1712.9	1669.2	1560.1	1374.0	1153.4	948.9	790.4	673.2	582.5	506.6	442.3
30°	1850.7	1815.1	1717.5	1514.1	1251.1	1002.9	813.4	680.1	582.5	499.7	432.0
32.5°	1911.6	1870.3	1783.0	1580.8	1287.8	1012.1	805.3	668.6	566.4	481.4	412.4
35°	1955.3	1892.1	1785.3	1573.9	1268.3	984.5	781.2	650.2	545.7	464.1	397.5
37.5°	1907.0	1843.9	1722.1	1480.8	1181.0	917.9	737.5	615.8	519.3	438.8	376.8
40°	1770.3	1719.8	1571.6	1331.5	1060.4	835.2	688.1	573.3	486.0	409.0	351.5
42.5°	1568.1	1510.7	1364.8	1144.2	923.7	754.8	635.3	530.8	449.2	383.7	329.7
45°	1308.5	1259.1	1133.9	959.3	804.2	680.1	573.3	486.0	411.3	355.0	298.7
47.5°	1059.2	1017.9	925.9	809.9	703.1	605.4	514.7	437.7	376.8	325.1	264.2
50°	854.7	828.3	774.3	699.6	615.8	535.4	460.7	396.3	349.2	290.7	226.3
52.5°	716.9	698.5	660.6	599.7	536.5	471.0	409.0	357.3	307.9	251.6	186.1
55°	607.7	593.9	564.1	519.3	467.6	414.7	368.8	322.8	267.7	205.6	143.6
57.5°	515.8	504.3	483.7	448.0	405.5	371.1	327.4	280.3	224.0	159.7	102.2
60°	443.4	434.3	413.6	389.4	363.0	329.7	284.9	232.1	174.6	119.5	66.6
62.5°	380.3	375.7	363.0	343.5	317.1	280.3	232.1	179.2	126.4	75.8	34.5
65°	335.5	330.9	320.5	298.7	267.7	227.5	181.5	132.1	85.0	42.5	20.7
67.5°	273.4	268.8	259.6	241.3	209.1	170.0	128.7	86.2	47.1	23.0	18.4
70°	202.2	197.6	190.7	175.8	150.5	114.9	82.7	49.4	24.1	19.5	18.4
72.5°	129.8	128.7	122.9	113.7	95.4	73.5	44.8	23.0	19.5	16.1	14.9
75°	73.5	74.7	73.5	67.8	56.3	35.6	20.7	18.4	17.2	14.9	6.9
77.5°	32.2	32.2	33.3	31.0	25.3	19.5	19.5	17.2	14.9	11.5	5.7
80°	18.4	17.2	17.2	18.4	17.2	17.2	16.1	12.6	9.2	4.6	2.3
82.5°	17.2	16.1	16.1	16.1	14.9	14.9	13.8	9.2	5.7	3.4	2.3
85°	16.1	14.9	14.9	14.9	14.9	12.6	9.2	6.9	3.4	3.4	2.3
87.5°	10.3	9.2	9.2	10.3	8.0	6.9	3.4	2.3	1.1	1.1	1.1
90°	8.0	6.9	8.0	5.7	4.6	3.4	2.3	2.3	2.3	0.0	0.0
92.5°	3.4	3.4	2.3	2.3	2.3	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: P123844

CATALOG NUMBER: ELSG406935WH (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: P123844

CATALOG NUMBER: ELSG406935WH (25° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	263.1	263.1	263.1	263.1	263.1	263.1	263.1	263.1	263.1	263.1	263.1
2.5°	282.6	279.2	278.0	274.6	272.3	268.8	267.7	265.4	261.9	259.6	256.2
5°	307.9	303.3	297.5	290.7	281.5	275.7	267.7	261.9	256.2	245.8	241.3
7.5°	333.2	325.1	314.8	302.1	290.7	280.3	265.4	255.0	242.4	233.2	220.6
10°	351.5	337.8	324.0	307.9	292.9	275.7	259.6	242.4	226.3	212.5	197.6
12.5°	371.1	351.5	333.2	313.6	292.9	272.3	255.0	229.8	207.9	190.7	171.2
15°	382.6	361.9	337.8	313.6	289.5	263.1	236.7	211.4	189.6	164.3	141.3
17.5°	391.7	364.2	343.5	309.0	280.3	249.3	219.4	190.7	164.3	136.7	109.1
20°	398.6	367.6	336.6	303.3	268.8	234.4	199.9	167.7	135.6	104.5	77.0
22.5°	399.8	365.3	330.9	292.9	253.9	216.0	182.7	145.9	108.0	75.8	50.5
25°	390.6	353.8	315.9	273.4	232.1	191.9	149.3	108.0	71.2	43.7	21.8
27.5°	389.4	349.2	307.9	261.9	214.8	170.0	126.4	83.9	49.4	26.4	19.5
30°	382.6	336.6	292.9	239.0	193.0	143.6	96.5	57.4	28.7	19.5	20.7
32.5°	363.0	317.1	265.4	211.4	160.8	110.3	64.3	31.0	17.2	13.8	13.8
35°	348.1	296.4	242.4	189.6	133.3	85.0	41.4	21.8	16.1	16.1	14.9
37.5°	325.1	271.1	213.7	158.5	102.2	54.0	23.0	17.2	17.2	12.6	8.0
40°	301.0	239.0	182.7	124.1	71.2	31.0	16.1	16.1	11.5	5.7	3.4
42.5°	268.8	209.1	151.6	91.9	44.8	19.5	16.1	13.8	10.3	4.6	2.3
45°	236.7	176.9	116.0	65.5	26.4	17.2	14.9	11.5	6.9	3.4	4.6
47.5°	202.2	141.3	80.4	35.6	17.2	17.2	13.8	5.7	3.4	2.3	0.0
50°	164.3	102.2	50.5	20.7	17.2	16.1	9.2	6.9	2.3	1.1	0.0
52.5°	121.8	68.9	26.4	14.9	16.1	11.5	2.3	0.0	0.0	0.0	0.0
55°	86.2	39.1	18.4	16.1	12.6	6.9	3.4	2.3	0.0	0.0	0.0
57.5°	50.5	21.8	17.2	14.9	8.0	3.4	0.0	0.0	0.0	0.0	1.1
60°	28.7	18.4	17.2	12.6	5.7	2.3	1.1	0.0	0.0	0.0	0.0
62.5°	18.4	16.1	13.8	8.0	3.4	1.1	0.0	0.0	0.0	0.0	0.0
65°	17.2	14.9	10.3	5.7	2.3	1.1	0.0	1.1	1.1	0.0	0.0
67.5°	16.1	12.6	5.7	3.4	1.1	1.1	0.0	0.0	0.0	0.0	0.0
70°	16.1	9.2	4.6	4.6	0.0	1.1	1.1	0.0	0.0	0.0	1.1
72.5°	9.2	3.4	2.3	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.9	3.4	0.0	1.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.4	2.3	1.1	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0
80°	2.3	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	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: P123844

CATALOG NUMBER: ELSG406935WH (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: P123844

CATALOG NUMBER: ELSG406935WH (25° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	263.1	263.1	263.1	263.1	263.1	263.1	263.1	263.1	263.1	263.1	263.1
2.5°	255.0	252.7	250.4	247.0	244.7	243.5	242.4	240.1	239.0	236.7	235.5
5°	232.1	228.6	220.6	214.8	209.1	205.6	198.7	198.7	195.3	189.6	185.0
7.5°	212.5	199.9	189.6	180.4	171.2	167.7	155.1	148.2	143.6	135.6	132.1
10°	182.7	168.9	155.1	140.2	127.5	118.3	105.7	95.4	88.5	82.7	77.0
12.5°	156.2	133.3	116.0	102.2	85.0	72.4	63.2	52.8	44.8	40.2	33.3
15°	118.3	96.5	77.0	59.7	47.1	36.8	28.7	24.1	21.8	21.8	18.4
17.5°	83.9	63.2	44.8	29.9	25.3	19.5	17.2	16.1	18.4	17.2	16.1
20°	52.8	34.5	23.0	18.4	16.1	16.1	16.1	16.1	13.8	13.8	13.8
22.5°	28.7	21.8	17.2	16.1	14.9	16.1	16.1	18.4	12.6	12.6	9.2
25°	14.9	11.5	12.6	10.3	10.3	6.9	3.4	2.3	1.1	1.1	0.0
27.5°	17.2	16.1	14.9	12.6	10.3	6.9	4.6	3.4	2.3	2.3	3.4
30°	16.1	14.9	10.3	6.9	6.9	4.6	1.1	2.3	1.1	1.1	0.0
32.5°	10.3	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	9.2	6.9	3.4	1.1	1.1	0.0	1.1	3.4	0.0	2.3	0.0
37.5°	4.6	3.4	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	2.3	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: P123844

CATALOG NUMBER: ELSG406935WH (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: P123844

CATALOG NUMBER: ELSG406935WH (25° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	263.1	263.1	263.1	263.1
2.5°	236.7	235.5	234.4	234.4
5°	183.8	182.7	180.4	181.5
7.5°	131.0	127.5	124.1	126.4
10°	73.5	68.9	67.8	67.8
12.5°	33.3	28.7	29.9	31.0
15°	19.5	18.4	18.4	18.4
17.5°	16.1	14.9	16.1	16.1
20°	13.8	12.6	12.6	12.6
22.5°	10.3	8.0	6.9	8.0
25°	0.0	0.0	0.0	0.0
27.5°	2.3	1.1	1.1	2.3
30°	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0
35°	0.0	2.3	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: P123844

CATALOG NUMBER: ELSG406935WH (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)