

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: P123890

Luminaire Tested: **ELSG406927WH (50° BEAM - 35° TILT)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123890
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: ELSG406927WH (50° BEAM - 35° TILT)
Description: HALO 4 INCH RECESSED FIXTURE WITH SQUARE WHITE TRIM,
Light Source: (1)SURFACE MOUNT LED, 2700K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 670.0 lumens
Efficiency: N/A
Efficacy: 51.5 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

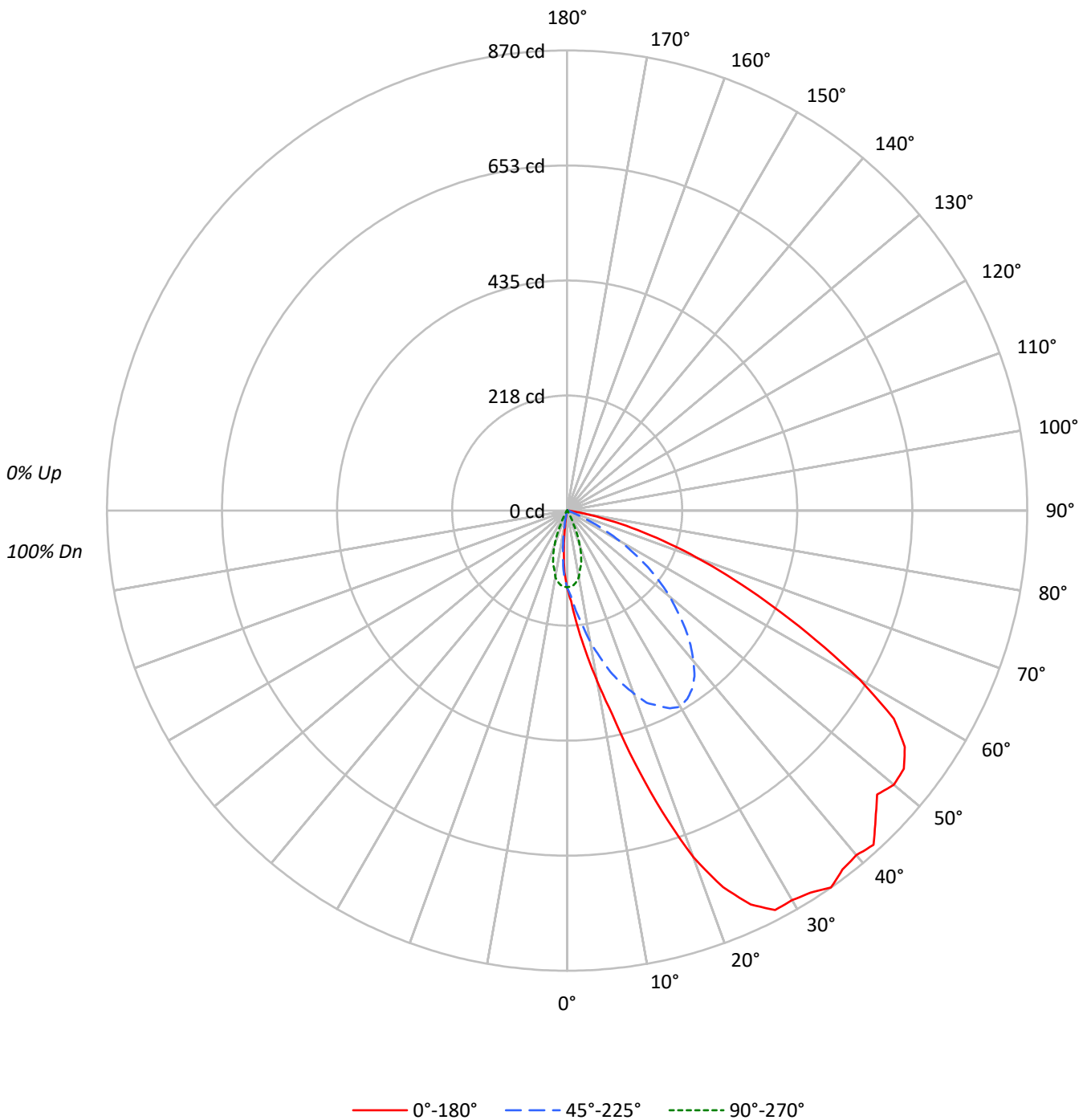
Input Watts (W): 13
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: ELSG406927WH (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	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°	71688	71688	71688
5°	101568	66336	32933
10°	147335	57655	4324
15°	214947	44901	1265
20°	297325	29541	0
25°	344884	12509	0
30°	354308	3624	0
35°	362317	1583	0
40°	357046	0	0
45°	351512	0	0
50°	351858	0	0
55°	351113	0	0
60°	299315	0	0
65°	211796	0	0
70°	137796	0	0
75°	71149	0	0
80°	19536	0	0
85°	3967	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.5	2.0
10°-20°	48.2	7.2
20°-30°	102.1	15.2
30°-40°	141.0	21.0
40°-50°	148.8	22.2
50°-60°	125.6	18.7
60°-70°	68.6	10.2
70°-80°	20.6	3.1
80°-90°	1.7	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°	163.7	24.4
0°-40°	304.7	45.5
0°-60°	579.0	86.4
0°-90°	669.9	100.0
90°-120°	0.1	0.0
90°-150°	0.1	0.0
90°-180°	0.0	0.0
0°-180°	670.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	145	145	145	145	145	
5°	216	190	141	90	70	24
15°	493	316	103	6	3	147
25°	822	407	30	0	0	374
35°	870	412	4	0	0	539
45°	824	316	0	0	0	639
55°	779	187	0	0	0	680
65°	429	48	0	0	0	432
75°	126	6	0	0	0	141
85°	6	2	0	0	0	9
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: P123890

CATALOG NUMBER: ELSG406927WH (50° BEAM - 35° TILT)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3
2.5°	171.2	169.3	167.4	168.4	166.4	166.4	165.5	163.5	163.5	161.6	160.7
5°	216.5	210.7	210.7	207.8	205.9	203.0	201.1	197.2	194.3	189.5	186.6
7.5°	267.4	265.5	262.6	262.6	254.9	248.2	242.4	234.7	226.1	217.4	208.8
10°	327.1	327.1	322.3	317.5	309.8	302.1	292.5	279.0	266.5	252.1	236.7
12.5°	394.4	390.6	383.9	375.2	364.6	350.2	334.8	318.4	299.2	281.9	259.8
15°	492.6	484.9	475.3	460.8	440.6	415.6	391.6	365.6	340.6	315.6	288.6
17.5°	596.5	591.7	577.2	556.1	528.2	493.5	457.0	414.6	378.1	342.5	310.7
20°	697.5	690.8	675.4	652.3	613.8	570.5	522.4	467.6	414.6	367.5	327.1
22.5°	770.6	765.8	750.4	731.2	695.6	647.5	586.9	520.5	456.0	393.5	342.5
25°	821.6	813.9	801.4	777.3	747.5	702.3	635.9	562.8	480.1	406.9	346.3
27.5°	851.4	847.6	840.8	823.5	793.7	747.5	684.0	597.4	507.0	421.4	353.1
30°	850.5	850.5	851.4	850.5	831.2	781.2	717.7	622.4	523.4	428.1	354.0
32.5°	856.2	853.3	848.5	853.3	846.6	799.5	733.1	635.0	524.3	422.3	343.5
35°	869.7	863.9	855.3	852.4	852.4	808.1	741.7	637.8	519.5	411.8	331.9
37.5°	855.3	861.0	856.2	844.7	846.6	804.3	737.9	628.2	501.2	395.4	314.6
40°	850.5	853.3	843.7	834.1	834.1	792.7	723.5	601.3	473.3	371.4	291.5
42.5°	857.2	844.7	828.3	830.2	822.6	778.3	699.4	568.6	440.6	345.4	269.4
45°	824.5	813.9	814.9	826.4	806.2	755.2	656.1	523.4	405.0	316.5	243.4
47.5°	794.7	800.4	803.3	800.4	770.6	713.8	597.4	471.4	361.7	282.8	211.7
50°	806.2	802.3	798.5	780.2	745.6	662.9	540.7	420.4	327.1	253.0	188.6
52.5°	802.3	798.5	781.2	752.3	695.6	596.5	472.4	368.5	292.5	219.3	154.9
55°	779.3	771.6	748.5	704.2	621.5	516.6	407.9	320.4	250.1	186.6	122.2
57.5°	732.1	717.7	682.1	616.7	532.0	432.9	347.3	276.1	210.7	149.1	89.5
60°	637.8	623.4	584.9	520.5	441.6	363.7	296.3	232.8	173.2	113.5	58.7
62.5°	530.1	516.6	478.1	424.3	363.7	305.9	247.2	190.5	132.8	78.9	32.7
65°	429.1	416.6	387.7	347.3	303.0	254.0	202.0	149.1	95.2	48.1	13.5
67.5°	341.5	332.9	314.6	284.8	247.2	203.0	155.9	104.9	59.6	23.1	6.7
70°	262.6	258.8	246.3	225.1	192.4	153.0	109.7	68.3	29.8	8.7	4.8
72.5°	189.5	187.6	180.9	166.4	140.5	105.8	70.2	36.6	11.5	5.8	4.8
75°	126.0	125.1	121.2	108.7	89.5	66.4	38.5	12.5	3.8	5.8	4.8
77.5°	73.1	71.2	71.2	64.5	51.0	34.6	12.5	6.7	4.8	2.9	2.9
80°	31.7	31.7	31.7	28.9	20.2	10.6	5.8	1.9	1.0	1.0	1.0
82.5°	10.6	9.6	9.6	9.6	7.7	5.8	4.8	2.9	2.9	1.9	1.0
85°	5.8	5.8	5.8	5.8	4.8	3.8	3.8	2.9	1.9	1.9	1.0
87.5°	4.8	2.9	3.8	2.9	2.9	1.9	2.9	1.9	1.0	1.9	1.0
90°	3.8	1.9	1.9	2.9	1.9	1.9	1.0	1.9	0.0	1.0	1.0
92.5°	1.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0	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: P123890

CATALOG NUMBER: ELSG406927WH (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: P123890

CATALOG NUMBER: ELSG406927WH (50° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3
2.5°	157.8	157.8	154.9	152.0	150.1	148.2	145.3	143.3	141.4	139.5	137.6
5°	180.9	176.1	171.2	164.5	159.7	153.9	150.1	141.4	134.7	128.9	124.1
7.5°	204.9	192.4	182.8	174.1	165.5	156.8	147.2	135.6	125.1	114.5	104.9
10°	224.2	208.8	195.3	180.9	170.3	156.8	143.3	128.0	113.5	99.1	86.6
12.5°	238.6	219.3	200.1	183.8	165.5	150.1	131.8	112.6	93.3	77.9	61.6
15°	261.7	235.7	212.6	187.6	169.3	149.1	126.0	102.9	80.8	60.6	43.3
17.5°	277.1	248.2	215.5	188.6	165.5	140.5	114.5	87.5	62.5	43.3	25.0
20°	289.6	251.1	216.5	184.7	159.7	131.8	99.1	69.3	44.3	25.0	11.5
22.5°	298.2	254.0	215.5	180.9	150.1	116.4	82.7	52.9	26.9	12.5	9.6
25°	295.3	248.2	204.9	167.4	133.7	95.2	61.6	29.8	8.7	2.9	1.0
27.5°	296.3	244.4	200.1	160.7	122.2	80.8	45.2	18.3	6.7	2.9	3.8
30°	294.4	238.6	190.5	147.2	103.9	64.5	29.8	8.7	4.8	6.7	2.9
32.5°	280.9	224.2	175.1	129.9	83.7	42.3	12.5	3.8	2.9	1.0	1.0
35°	267.4	209.7	160.7	110.6	64.5	26.0	7.7	3.8	1.0	2.9	1.0
37.5°	248.2	191.4	140.5	88.5	44.3	11.5	3.8	1.9	1.9	1.0	0.0
40°	226.1	169.3	115.4	65.4	24.1	3.8	1.9	0.0	0.0	0.0	0.0
42.5°	205.9	147.2	93.3	44.3	10.6	2.9	1.9	1.0	1.0	0.0	0.0
45°	180.9	121.2	68.3	24.1	5.8	1.9	1.0	0.0	0.0	0.0	1.9
47.5°	151.0	92.4	42.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	126.0	69.3	24.1	4.8	2.9	0.0	1.9	0.0	0.0	0.0	0.0
52.5°	94.3	42.3	8.7	3.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	66.4	22.1	5.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	39.4	8.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	18.3	4.8	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7.7	3.8	1.9	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
65°	5.8	2.9	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0
67.5°	3.8	2.9	1.9	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
70°	1.9	1.9	1.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	2.9	2.9	1.9	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0
75°	1.9	1.0	1.9	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0
77.5°	1.9	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.9	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	1.0	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
90°	0.0	1.0	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°	1.0	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	1.0
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: P123890

CATALOG NUMBER: ELSG406927WH (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: P123890

CATALOG NUMBER: ELSG406927WH (50° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3	145.3
2.5°	134.7	131.8	131.8	128.9	127.0	126.0	125.1	121.2	120.3	119.3	119.3
5°	117.4	111.6	104.9	100.1	95.2	90.4	86.6	84.7	78.9	75.0	73.1
7.5°	95.2	85.6	77.0	69.3	59.6	55.8	47.1	43.3	38.5	35.6	31.7
10°	72.2	61.6	50.0	39.4	31.7	26.0	20.2	16.4	14.4	12.5	10.6
12.5°	45.2	30.8	23.1	15.4	7.7	5.8	5.8	2.9	1.9	1.9	1.0
15°	28.9	16.4	10.6	7.7	7.7	5.8	4.8	3.8	3.8	2.9	2.9
17.5°	13.5	8.7	6.7	3.8	3.8	3.8	2.9	3.8	5.8	2.9	1.9
20°	5.8	4.8	3.8	2.9	1.9	3.8	1.9	1.0	1.0	1.0	1.0
22.5°	5.8	4.8	3.8	4.8	7.7	1.0	2.9	1.0	1.0	0.0	1.0
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°	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1.9	1.9	0.0	0.0	1.0	0.0	0.0	0.0	2.9	1.9	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°	5.8	0.0	1.0	1.9	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°	1.0	0.0	0.0	0.0	1.0	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	1.0	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: P123890

CATALOG NUMBER: ELSG406927WH (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: P123890

CATALOG NUMBER: ELSG406927WH (50° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	145.3	145.3	145.3	145.3
2.5°	118.3	117.4	118.3	116.4
5°	74.1	70.2	70.2	70.2
7.5°	30.8	28.9	27.9	28.9
10°	10.6	9.6	9.6	9.6
12.5°	1.9	1.0	1.0	1.0
15°	2.9	2.9	2.9	2.9
17.5°	1.9	1.0	1.9	1.0
20°	0.0	0.0	0.0	0.0
22.5°	1.0	1.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0
30°	1.0	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: P123890

CATALOG NUMBER: ELSG406927WH (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)