

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: P123842

Luminaire Tested: **ELSG406927WH (25° BEAM - 35° TILT)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123842
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: ELSG406927WH (25° 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: 700.0 lumens
Efficiency: N/A
Efficacy: 53.8 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

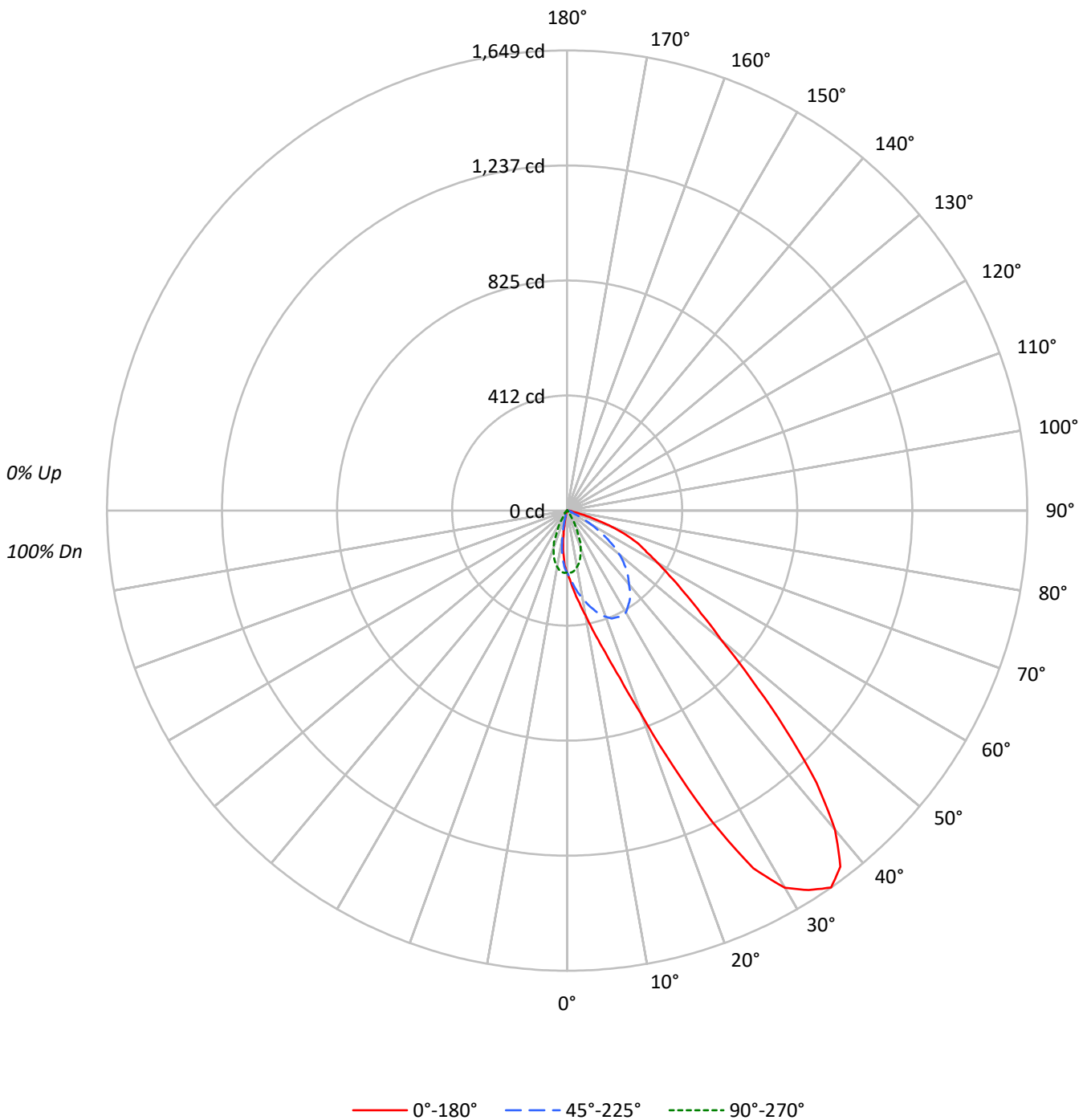
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: ELSG406927WH (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°	109481	109481	109481
5°	136800	103632	71825
10°	172379	92068	25765
15°	228735	77801	6763
20°	330404	60318	4561
25°	516529	38241	0
30°	650253	20163	0
35°	686974	7665	0
40°	626814	5709	0
45°	470502	4135	0
50°	314586	2531	0
55°	230907	856	0
60°	175516	0	0
65°	139635	494	0
70°	89467	0	525
75°	35010	0	0
80°	9552	0	0
85°	9302	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.8	3.0
10°-20°	61.6	8.8
20°-30°	127.8	18.3
30°-40°	182.6	26.1
40°-50°	150.4	21.5
50°-60°	92.4	13.2
60°-70°	49.0	7.0
70°-80°	12.7	1.8
80°-90°	2.5	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°	210.2	30.0
0°-40°	392.8	56.1
0°-60°	635.5	90.8
0°-90°	699.8	100.0
90°-120°	0.3	0.0
90°-150°	0.3	0.0
90°-180°	0.0	0.0
0°-180°	700.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	222	222	222	222	222	
5°	292	269	221	173	153	30
15°	524	367	178	31	16	160
25°	1230	422	91	6	0	570
35°	1649	391	18	0	0	1004
45°	1104	299	10	0	0	848
55°	512	173	2	0	0	468
65°	283	36	1	0	0	273
75°	62	13	0	0	0	76
85°	14	3	0	0	0	11
90°	7	0	0	0	0	3
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: P123842

CATALOG NUMBER: ELSG406927WH (25° BEAM - 35° TILT)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9
2.5°	250.0	247.1	248.0	247.1	246.1	245.1	245.1	244.2	243.2	243.2	239.3
5°	291.6	291.6	290.7	288.7	285.8	282.9	282.9	277.1	274.2	269.3	266.4
7.5°	332.3	328.5	327.5	325.5	322.6	318.8	313.9	308.1	302.3	296.5	288.7
10°	382.7	379.8	376.9	371.1	365.3	356.5	346.9	337.2	327.5	317.8	308.1
12.5°	446.7	441.8	437.0	429.2	418.6	405.0	390.5	375.0	359.5	344.9	326.5
15°	524.2	521.3	510.6	497.0	478.6	459.3	437.0	412.7	389.5	367.2	342.0
17.5°	628.8	619.1	604.6	580.4	550.3	520.3	485.4	451.5	419.5	390.5	357.5
20°	775.1	758.6	728.6	686.0	635.6	585.2	535.8	489.3	445.7	405.0	368.2
22.5°	986.3	962.1	907.8	827.4	739.3	659.8	586.2	524.2	468.9	418.6	375.0
25°	1230.5	1196.6	1115.2	993.1	855.5	728.6	626.9	546.5	480.6	421.5	373.0
27.5°	1444.6	1407.8	1315.7	1158.8	972.8	800.3	666.6	567.8	491.2	427.3	373.0
30°	1560.9	1530.8	1448.5	1277.0	1055.1	845.8	686.0	573.6	491.2	421.5	364.3
32.5°	1612.2	1577.3	1503.7	1333.2	1086.1	853.6	679.2	563.9	477.7	406.0	347.8
35°	1649.0	1595.8	1505.6	1327.4	1069.6	830.3	658.8	548.4	460.2	391.4	335.2
37.5°	1608.3	1555.1	1452.4	1248.9	996.0	774.1	622.0	519.3	437.9	370.1	317.8
40°	1493.1	1450.4	1325.4	1122.9	894.3	704.4	580.4	483.5	409.8	344.9	296.5
42.5°	1322.5	1274.1	1151.0	965.0	779.0	636.6	535.8	447.6	378.8	323.6	278.1
45°	1103.6	1061.9	956.3	809.0	678.2	573.6	483.5	409.8	346.9	299.4	251.9
47.5°	893.3	858.4	780.9	683.1	593.0	510.6	434.1	369.1	317.8	274.2	222.8
50°	720.8	698.6	653.0	590.1	519.3	451.5	388.5	334.3	294.5	245.1	190.9
52.5°	604.6	589.1	557.1	505.8	452.5	397.2	344.9	301.3	259.7	212.2	157.0
55°	512.5	500.9	475.7	437.9	394.3	349.8	311.0	272.3	225.8	173.4	121.1
57.5°	435.0	425.3	407.9	377.9	342.0	312.9	276.1	236.4	188.9	134.7	86.2
60°	374.0	366.2	348.8	328.5	306.2	278.1	240.3	195.7	147.3	100.8	56.2
62.5°	320.7	316.8	306.2	289.7	267.4	236.4	195.7	151.1	106.6	63.9	29.1
65°	282.9	279.0	270.3	251.9	225.8	191.8	153.1	111.4	71.7	35.8	17.4
67.5°	230.6	226.7	219.0	203.5	176.3	143.4	108.5	72.7	39.7	19.4	15.5
70°	170.5	166.6	160.8	148.2	126.9	96.9	69.8	41.7	20.3	16.5	15.5
72.5°	109.5	108.5	103.7	95.9	80.4	62.0	37.8	19.4	16.5	13.6	12.6
75°	62.0	63.0	62.0	57.2	47.5	30.0	17.4	15.5	14.5	12.6	5.8
77.5°	27.1	27.1	28.1	26.2	21.3	16.5	16.5	14.5	12.6	9.7	4.8
80°	15.5	14.5	14.5	15.5	14.5	14.5	13.6	10.7	7.8	3.9	1.9
82.5°	14.5	13.6	13.6	13.6	12.6	12.6	11.6	7.8	4.8	2.9	1.9
85°	13.6	12.6	12.6	12.6	12.6	10.7	7.8	5.8	2.9	2.9	1.9
87.5°	8.7	7.8	7.8	8.7	6.8	5.8	2.9	1.9	1.0	1.0	1.0
90°	6.8	5.8	6.8	4.8	3.9	2.9	1.9	1.9	1.9	0.0	0.0
92.5°	2.9	2.9	1.9	1.9	1.9	0.0	0.0	1.0	1.0	1.0	0.0
95°	1.0	0.0	0.0	1.0	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



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CATALOG NUMBER: ELSG406927WH (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



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CATALOG NUMBER: ELSG406927WH (25° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9
2.5°	238.3	235.4	234.5	231.6	229.6	226.7	225.8	223.8	220.9	219.0	216.1
5°	259.7	255.8	250.9	245.1	237.4	232.5	225.8	220.9	216.1	207.3	203.5
7.5°	281.0	274.2	265.5	254.8	245.1	236.4	223.8	215.1	204.4	196.7	186.0
10°	296.5	284.9	273.2	259.7	247.1	232.5	219.0	204.4	190.9	179.2	166.6
12.5°	312.9	296.5	281.0	264.5	247.1	229.6	215.1	193.8	175.4	160.8	144.4
15°	322.6	305.2	284.9	264.5	244.2	221.9	199.6	178.3	159.9	138.6	119.2
17.5°	330.4	307.1	289.7	260.6	236.4	210.2	185.1	160.8	138.6	115.3	92.0
20°	336.2	310.0	283.9	255.8	226.7	197.7	168.6	141.5	114.3	88.2	64.9
22.5°	337.2	308.1	279.0	247.1	214.1	182.2	154.1	123.0	91.1	63.9	42.6
25°	329.4	298.4	266.4	230.6	195.7	161.8	126.0	91.1	60.1	36.8	18.4
27.5°	328.5	294.5	259.7	220.9	181.2	143.4	106.6	70.7	41.7	22.3	16.5
30°	322.6	283.9	247.1	201.5	162.8	121.1	81.4	48.4	24.2	16.5	17.4
32.5°	306.2	267.4	223.8	178.3	135.6	93.0	54.3	26.2	14.5	11.6	11.6
35°	293.6	250.0	204.4	159.9	112.4	71.7	34.9	18.4	13.6	13.6	12.6
37.5°	274.2	228.7	180.2	133.7	86.2	45.5	19.4	14.5	14.5	10.7	6.8
40°	253.8	201.5	154.1	104.6	60.1	26.2	13.6	13.6	9.7	4.8	2.9
42.5°	226.7	176.3	127.9	77.5	37.8	16.5	13.6	11.6	8.7	3.9	1.9
45°	199.6	149.2	97.9	55.2	22.3	14.5	12.6	9.7	5.8	2.9	3.9
47.5°	170.5	119.2	67.8	30.0	14.5	14.5	11.6	4.8	2.9	1.9	0.0
50°	138.6	86.2	42.6	17.4	14.5	13.6	7.8	5.8	1.9	1.0	0.0
52.5°	102.7	58.1	22.3	12.6	13.6	9.7	1.9	0.0	0.0	0.0	0.0
55°	72.7	32.9	15.5	13.6	10.7	5.8	2.9	1.9	0.0	0.0	0.0
57.5°	42.6	18.4	14.5	12.6	6.8	2.9	0.0	0.0	0.0	0.0	1.0
60°	24.2	15.5	14.5	10.7	4.8	1.9	1.0	0.0	0.0	0.0	0.0
62.5°	15.5	13.6	11.6	6.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0
65°	14.5	12.6	8.7	4.8	1.9	1.0	0.0	1.0	1.0	0.0	0.0
67.5°	13.6	10.7	4.8	2.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
70°	13.6	7.8	3.9	3.9	0.0	1.0	1.0	0.0	0.0	0.0	1.0
72.5°	7.8	2.9	1.9	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.8	2.9	0.0	1.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.9	1.9	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
80°	1.9	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	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.0	0.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	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	0.0
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°	1.0	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	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: P123842

CATALOG NUMBER: ELSG406927WH (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: P123842

CATALOG NUMBER: ELSG406927WH (25° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9	221.9
2.5°	215.1	213.2	211.2	208.3	206.4	205.4	204.4	202.5	201.5	199.6	198.6
5°	195.7	192.8	186.0	181.2	176.3	173.4	167.6	167.6	164.7	159.9	156.0
7.5°	179.2	168.6	159.9	152.1	144.4	141.5	130.8	125.0	121.1	114.3	111.4
10°	154.1	142.4	130.8	118.2	107.5	99.8	89.1	80.4	74.6	69.8	64.9
12.5°	131.8	112.4	97.9	86.2	71.7	61.0	53.3	44.6	37.8	33.9	28.1
15°	99.8	81.4	64.9	50.4	39.7	31.0	24.2	20.3	18.4	18.4	15.5
17.5°	70.7	53.3	37.8	25.2	21.3	16.5	14.5	13.6	15.5	14.5	13.6
20°	44.6	29.1	19.4	15.5	13.6	13.6	13.6	13.6	11.6	11.6	11.6
22.5°	24.2	18.4	14.5	13.6	12.6	13.6	13.6	15.5	10.7	10.7	7.8
25°	12.6	9.7	10.7	8.7	8.7	5.8	2.9	1.9	1.0	1.0	0.0
27.5°	14.5	13.6	12.6	10.7	8.7	5.8	3.9	2.9	1.9	1.9	2.9
30°	13.6	12.6	8.7	5.8	5.8	3.9	1.0	1.9	1.0	1.0	0.0
32.5°	8.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	7.8	5.8	2.9	1.0	1.0	0.0	1.0	2.9	0.0	1.9	0.0
37.5°	3.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1.0	1.0	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	1.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0
50°	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	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	1.0	0.0	1.0	0.0	0.0	0.0	1.0	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°	1.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0	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	1.0	1.0	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	1.0	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	1.0	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: P123842

CATALOG NUMBER: ELSG406927WH (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: P123842

CATALOG NUMBER: ELSG406927WH (25° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	221.9	221.9	221.9	221.9
2.5°	199.6	198.6	197.7	197.7
5°	155.0	154.1	152.1	153.1
7.5°	110.5	107.5	104.6	106.6
10°	62.0	58.1	57.2	57.2
12.5°	28.1	24.2	25.2	26.2
15°	16.5	15.5	15.5	15.5
17.5°	13.6	12.6	13.6	13.6
20°	11.6	10.7	10.7	10.7
22.5°	8.7	6.8	5.8	6.8
25°	0.0	0.0	0.0	0.0
27.5°	1.9	1.0	1.0	1.9
30°	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0
35°	0.0	1.9	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	1.0
72.5°	0.0	0.0	0.0	0.0
75°	1.0	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: P123842

CATALOG NUMBER: ELSG406927WH (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)