

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: P123866

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14000)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ELSG406927WH (35° 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: 680.0 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Spacing Criteria (0/90/45): 2.57 / 0.75 / 1.48
Luminous Opening: Vertical Cylinder (Dia: 0.17' x H: 0.08')
CIE Type: Direct

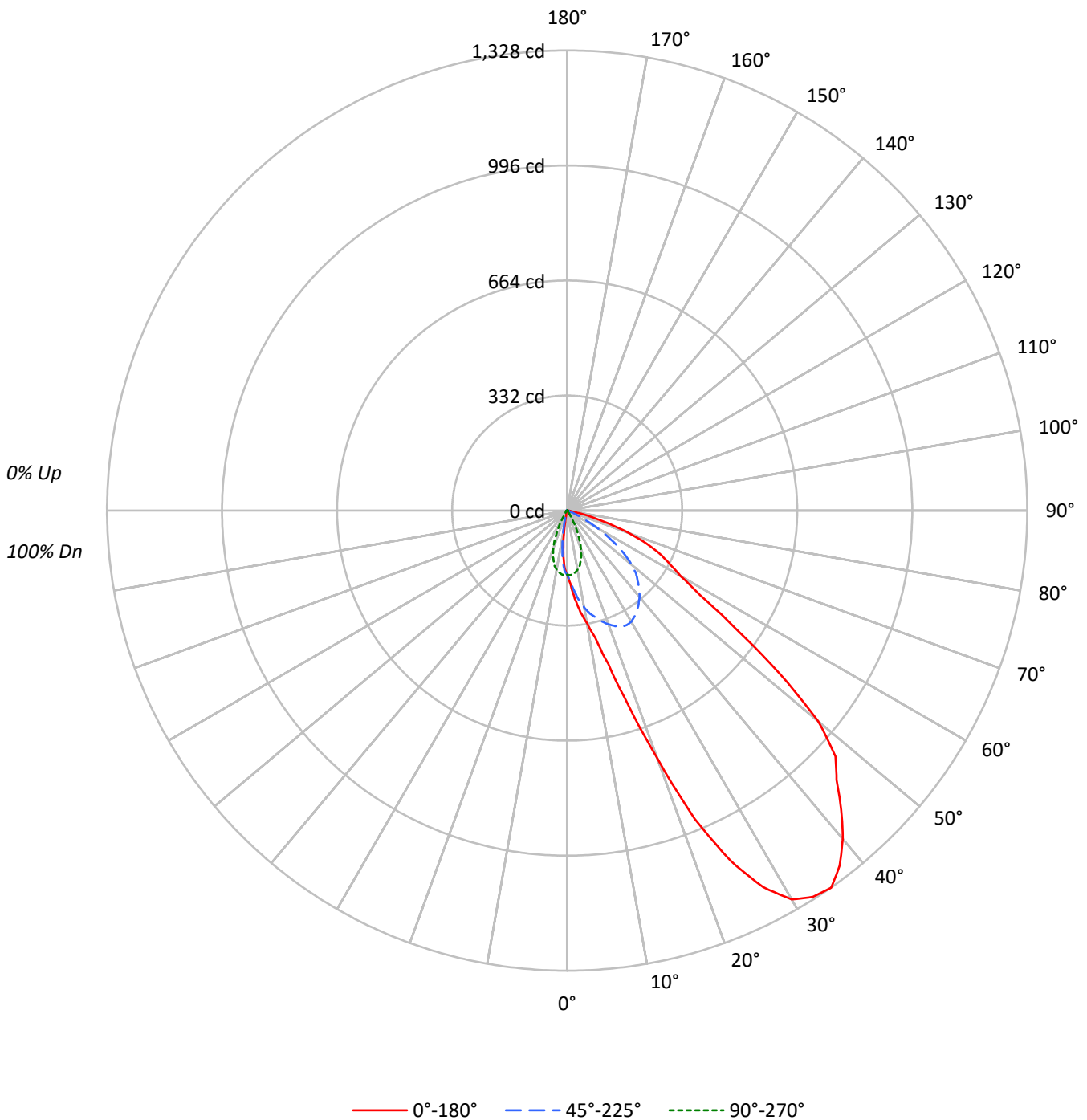
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P123866

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

Luminous Intensity Polar Plot





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CATALOG NUMBER: ELSG406927WH (35° 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	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	104	101	98	100	97	95	96	94	92	93	91	89					87				
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77					75				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66					64				
4	86	75	67	60	83	73	66	60	71	64	59	69	63	58	66	62	58					56				
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	54	50					48				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44					42				
7	67	54	46	40	66	53	45	40	52	45	40	51	44	39	49	43	39					37				
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35					33				
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31					29				
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	91177	91177	91177
5°	119817	86696	58126
10°	148597	78014	15270
15°	200111	65845	3796
20°	324606	49490	2046
25°	467919	30056	420
30°	539732	12498	792
35°	553453	4041	0
40°	519511	2435	0
45°	468626	1236	0
50°	412567	436	0
55°	266815	1307	0
60°	178003	469	0
65°	146150	494	0
70°	99018	0	525
75°	42633	0	0
80°	7149	0	0
85°	3967	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.5	2.6
10°-20°	53.0	7.8
20°-30°	117.8	17.3
30°-40°	168.7	24.8
40°-50°	157.3	23.1
50°-60°	98.3	14.5
60°-70°	51.3	7.5
70°-80°	13.6	2.0
80°-90°	1.8	0.3
90°-100°	0.7	0.1
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°	188.4	27.7
0°-40°	357.0	52.5
0°-60°	612.7	90.1
0°-90°	679.3	99.9
90°-120°	0.7	0.1
90°-150°	0.7	0.1
90°-180°	1.0	0.1
0°-180°	680.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	185	185	185	185	185	
5°	255	232	185	144	124	27
15°	459	319	151	17	9	146
25°	1115	371	72	5	1	508
35°	1328	352	10	0	0	817
45°	1099	288	3	0	0	851
55°	592	176	3	0	0	552
65°	296	36	1	0	0	287
75°	76	5	0	0	0	89
85°	6	2	0	0	0	6
90°	4	2	0	1	0	2
95°	1	1	1	1	1	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: P123866

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8
2.5°	210.9	210.0	210.0	210.0	208.0	208.0	208.0	207.1	205.1	203.2	201.3
5°	255.4	254.5	253.5	251.6	248.7	248.7	244.8	240.9	239.0	232.2	228.4
7.5°	295.1	293.2	292.2	289.3	286.4	283.5	277.7	274.8	266.1	260.3	252.5
10°	329.9	329.0	326.1	323.2	320.3	315.4	308.7	300.9	293.2	283.5	273.8
12.5°	377.4	375.4	371.6	364.8	355.1	346.4	336.7	326.1	314.5	304.8	290.3
15°	458.6	455.7	444.1	431.5	410.3	391.9	371.6	352.2	335.8	319.3	305.8
17.5°	589.3	580.6	561.2	533.1	496.4	458.6	419.9	387.0	358.0	335.8	316.4
20°	761.5	750.9	716.0	668.6	607.6	544.8	481.9	424.8	383.2	349.3	324.1
22.5°	962.8	945.3	900.8	833.1	742.1	645.4	552.5	470.2	406.4	360.9	329.9
25°	1114.7	1103.1	1059.5	989.8	877.6	747.9	622.2	511.9	426.7	370.6	331.9
27.5°	1225.0	1208.5	1164.0	1096.3	986.9	838.9	680.2	544.8	442.2	372.5	331.9
30°	1295.6	1284.0	1238.5	1165.9	1055.6	901.8	719.9	562.2	448.0	370.6	329.0
32.5°	1321.7	1311.1	1274.3	1200.8	1086.6	931.8	732.5	560.2	435.4	361.9	320.3
35°	1328.5	1310.1	1273.3	1201.7	1086.6	927.9	719.9	542.8	421.9	352.2	311.6
37.5°	1291.7	1278.2	1246.3	1172.7	1061.4	893.1	684.1	510.9	399.6	338.7	300.0
40°	1237.5	1229.8	1195.0	1125.3	1014.0	833.1	628.0	467.3	376.4	325.1	284.5
42.5°	1170.8	1161.1	1130.1	1066.3	941.5	746.0	557.3	424.8	352.2	308.7	268.0
45°	1099.2	1091.4	1060.5	988.9	834.1	644.4	482.8	383.2	329.0	288.3	242.9
47.5°	1050.8	1038.2	986.0	874.7	709.2	542.8	424.8	354.1	311.6	270.0	218.7
50°	945.3	920.2	843.7	722.8	574.7	453.8	376.4	328.0	290.3	242.9	190.6
52.5°	773.1	745.0	670.5	570.9	467.3	390.9	341.6	303.8	263.2	210.9	154.8
55°	592.2	571.8	517.7	453.8	393.8	348.3	312.5	276.7	232.2	176.1	118.0
57.5°	455.7	447.0	417.0	383.2	349.3	318.3	285.4	245.8	195.5	137.4	86.1
60°	379.3	373.5	357.0	340.6	315.4	287.4	252.5	207.1	155.8	99.7	53.2
62.5°	332.9	329.0	317.4	303.8	280.6	251.6	210.9	161.6	111.3	63.9	26.1
65°	296.1	292.2	283.5	270.9	244.8	210.0	166.4	120.0	76.4	35.8	14.5
67.5°	247.7	246.7	239.0	223.5	194.5	159.7	118.0	77.4	42.6	15.5	7.7
70°	188.7	187.7	181.9	167.4	142.2	111.3	79.3	43.5	18.4	8.7	5.8
72.5°	126.8	124.8	121.9	111.3	92.9	69.7	44.5	19.4	8.7	7.7	6.8
75°	75.5	74.5	73.5	66.8	56.1	36.8	17.4	8.7	7.7	4.8	1.9
77.5°	35.8	36.8	36.8	34.8	26.1	13.5	9.7	7.7	5.8	4.8	2.9
80°	11.6	12.6	12.6	11.6	10.6	8.7	7.7	4.8	3.9	2.9	3.9
82.5°	8.7	8.7	8.7	7.7	7.7	5.8	5.8	4.8	3.9	3.9	1.9
85°	5.8	5.8	5.8	4.8	3.9	4.8	3.9	2.9	2.9	1.9	1.9
87.5°	4.8	4.8	2.9	3.9	3.9	2.9	2.9	2.9	1.9	1.9	1.0
90°	3.9	2.9	3.9	2.9	3.9	2.9	2.9	1.9	3.9	1.9	1.0
92.5°	1.0	1.9	1.9	1.0	2.9	1.9	2.9	1.0	1.0	1.0	1.9
95°	1.0	1.9	1.9	1.0	1.9	1.0	1.0	1.0	1.0	1.0	1.0
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 (35° 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 (35° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8
2.5°	199.3	198.4	196.4	195.5	193.5	191.6	188.7	186.7	185.8	184.8	182.9
5°	224.5	219.6	211.9	208.0	204.2	197.4	189.6	184.8	181.9	175.1	171.3
7.5°	243.8	236.1	226.4	216.7	208.0	197.4	186.7	180.0	170.3	163.5	154.8
10°	263.2	250.6	238.0	223.5	210.9	196.4	183.8	173.2	161.6	150.0	137.4
12.5°	275.8	262.2	246.7	228.4	210.9	192.6	178.0	164.5	148.0	131.6	118.0
15°	288.3	270.0	250.6	229.3	208.0	186.7	169.3	150.9	130.6	111.3	91.9
17.5°	297.1	275.8	252.5	229.3	203.2	180.0	158.7	135.5	111.3	88.1	65.8
20°	301.9	277.7	251.6	222.5	194.5	167.4	144.2	116.1	87.1	62.9	41.6
22.5°	302.9	276.7	246.7	214.8	184.8	154.8	125.8	95.8	64.8	40.6	22.3
25°	307.7	277.7	241.9	206.1	174.2	140.3	108.4	71.6	44.5	23.2	14.5
27.5°	300.0	269.0	230.3	193.5	157.7	120.9	84.2	50.3	24.2	11.6	8.7
30°	298.0	260.3	218.7	180.0	139.3	99.7	61.0	30.0	12.6	8.7	6.8
32.5°	284.5	246.7	203.2	159.7	116.1	73.5	38.7	14.5	7.7	5.8	5.8
35°	273.8	231.3	183.8	137.4	93.9	51.3	21.3	9.7	6.8	4.8	4.8
37.5°	258.3	211.9	162.6	114.2	69.7	31.9	12.6	7.7	5.8	3.9	2.9
40°	241.9	190.6	138.4	90.0	46.4	15.5	7.7	5.8	6.8	2.9	1.9
42.5°	216.7	164.5	112.2	62.9	25.2	7.7	6.8	3.9	2.9	1.9	1.9
45°	188.7	133.5	81.3	36.8	9.7	4.8	1.9	2.9	0.0	0.0	0.0
47.5°	162.6	107.4	60.0	22.3	9.7	5.8	4.8	3.9	2.9	1.9	2.9
50°	131.6	76.4	32.9	9.7	6.8	3.9	2.9	1.0	2.9	1.0	0.0
52.5°	96.8	52.2	15.5	7.7	5.8	2.9	2.9	1.0	1.0	1.9	1.0
55°	66.8	28.1	8.7	6.8	4.8	2.9	1.9	2.9	1.0	0.0	0.0
57.5°	40.6	12.6	7.7	6.8	3.9	4.8	1.9	1.0	1.9	1.0	1.0
60°	19.4	9.7	6.8	4.8	2.9	1.9	1.0	1.0	1.0	1.0	1.0
62.5°	9.7	5.8	4.8	2.9	1.9	0.0	1.0	1.0	0.0	0.0	1.0
65°	7.7	5.8	4.8	1.9	2.9	1.9	1.0	1.0	0.0	0.0	0.0
67.5°	4.8	4.8	2.9	1.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0
70°	3.9	3.9	1.9	1.9	1.0	1.0	0.0	0.0	1.0	0.0	1.0
72.5°	3.9	2.9	1.0	1.9	1.0	1.0	0.0	0.0	0.0	1.0	0.0
75°	1.9	1.9	1.9	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.9	1.9	1.9	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	2.9	2.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
82.5°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	0.0	0.0	1.0	1.0
85°	1.0	1.9	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	1.0
90°	1.0	1.9	1.0	1.0	1.9	0.0	0.0	0.0	0.0	1.0	1.0
92.5°	0.0	1.9	0.0	1.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0
95°	0.0	1.9	1.0	1.0	1.9	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	1.0	0.0	1.0	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: P123866

CATALOG NUMBER: ELSG406927WH (35° 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: P123866

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8
2.5°	180.9	179.0	176.1	176.1	175.1	173.2	172.2	171.3	169.3	166.4	167.4
5°	165.5	160.6	155.8	150.9	147.1	144.2	139.3	134.5	131.6	132.6	129.7
7.5°	147.1	138.4	130.6	121.9	114.2	107.4	101.6	95.8	89.0	86.1	82.2
10°	124.8	111.3	100.6	91.0	79.3	69.7	62.9	56.1	48.4	45.5	40.6
12.5°	99.7	84.2	71.6	59.0	46.4	37.7	31.0	24.2	19.4	16.4	15.5
15°	72.6	55.2	41.6	30.0	20.3	17.4	11.6	11.6	10.6	9.7	9.7
17.5°	48.4	31.0	21.3	13.5	11.6	9.7	9.7	9.7	8.7	8.7	6.8
20°	24.2	14.5	10.6	8.7	6.8	6.8	6.8	5.8	4.8	3.9	3.9
22.5°	15.5	12.6	7.7	5.8	8.7	5.8	4.8	3.9	2.9	2.9	1.9
25°	9.7	7.7	6.8	5.8	3.9	4.8	3.9	2.9	1.9	2.9	1.9
27.5°	6.8	5.8	4.8	2.9	1.9	2.9	1.0	1.9	1.0	1.0	1.0
30°	4.8	3.9	6.8	1.9	1.9	3.9	2.9	1.9	0.0	4.8	1.9
32.5°	2.9	1.0	1.0	1.9	0.0	0.0	0.0	1.0	0.0	0.0	0.0
35°	2.9	1.0	1.0	0.0	1.9	0.0	1.0	0.0	0.0	0.0	0.0
37.5°	1.9	1.9	1.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0
40°	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.0	1.0	0.0	1.9	0.0	0.0	0.0	1.9	0.0	0.0	0.0
50°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
55°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	1.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0
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	1.0	0.0	1.9	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	1.0	1.0	0.0	0.0	1.0	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	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	0.0	0.0	0.0
82.5°	0.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0
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°	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	1.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0
92.5°	1.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	1.0	1.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	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: P123866

CATALOG NUMBER: ELSG406927WH (35° 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: P123866

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	184.8	184.8	184.8	184.8
2.5°	165.5	166.4	164.5	165.5
5°	124.8	123.9	124.8	123.9
7.5°	78.4	78.4	76.4	75.5
10°	37.7	36.8	34.8	33.9
12.5°	14.5	14.5	13.5	13.5
15°	9.7	8.7	9.7	8.7
17.5°	6.8	7.7	5.8	7.7
20°	4.8	3.9	3.9	4.8
22.5°	1.9	1.9	2.9	1.0
25°	1.9	1.9	1.9	1.0
27.5°	1.0	1.0	1.0	1.0
30°	0.0	1.0	1.0	1.9
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	1.0	0.0
40°	0.0	0.0	1.0	0.0
42.5°	1.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	1.0	0.0	1.0	2.9
50°	0.0	1.0	0.0	0.0
52.5°	1.0	0.0	1.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	1.0	1.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.0	1.9	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	1.0	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	1.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0
95°	1.0	0.0	1.0	1.0
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: P123866

CATALOG NUMBER: ELSG406927WH (35° 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)