

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: P123852

Luminaire Tested: **ELSG406935SN (25° BEAM - 35° TILT)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123852
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: ELSG406935SN (25° BEAM - 35° TILT)
Description: HALO 4 INCH RECESSED FIXTURE WITH SQUARE SATIN NICKEL TRIM,
Light Source: (1)SURFACE MOUNT LED, 3500K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 780.0 lumens
Efficiency: N/A
Efficacy: 60.0 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

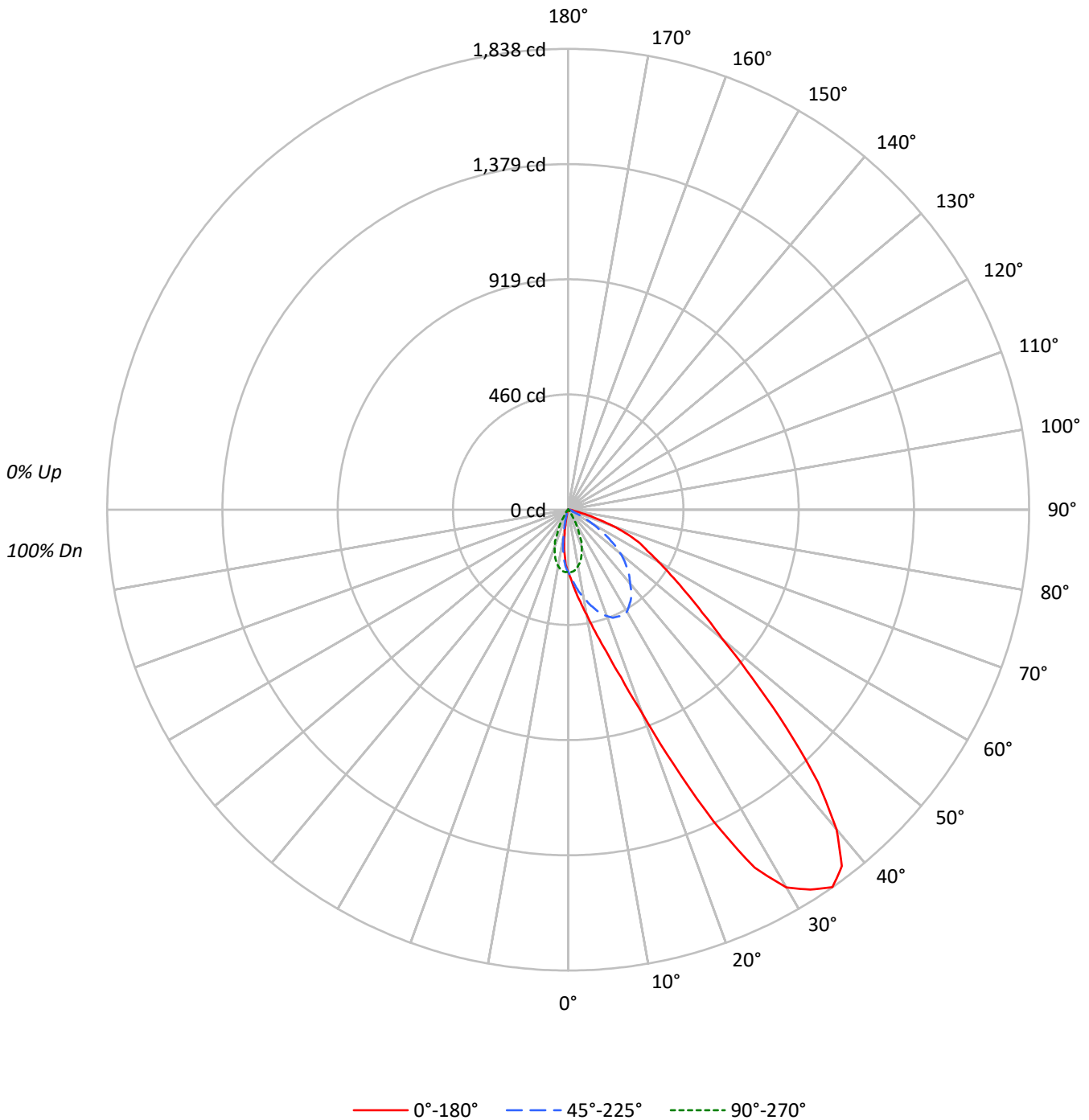
Input Watts (W): 13
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P123852

CATALOG NUMBER: ELSG406935SN (25° BEAM - 35° TILT)

Luminous Intensity Polar Plot





TEST NUMBER: P123852

CATALOG NUMBER: ELSG406935SN (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	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°	121963	121963	121963
5°	152469	115501	80034
10°	192063	102608	28692
15°	254873	86659	7549
20°	368171	67181	5073
25°	575548	42607	0
30°	724572	22496	0
35°	765503	8540	0
40°	698433	6339	0
45°	524262	4604	0
50°	350549	2837	0
55°	257309	991	0
60°	195554	0	0
65°	155577	543	0
70°	99700	0	577
75°	39019	0	0
80°	10661	0	0
85°	10328	0	0



TEST NUMBER: P123852

CATALOG NUMBER: ELSG406935SN (25° BEAM - 35° TILT)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.1	3.0
10°-20°	68.7	8.8
20°-30°	142.4	18.3
30°-40°	203.4	26.1
40°-50°	167.6	21.5
50°-60°	103.0	13.2
60°-70°	54.6	7.0
70°-80°	14.2	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°	234.2	30.0
0°-40°	437.6	56.1
0°-60°	708.2	90.8
0°-90°	779.7	100.0
90°-120°	0.3	0.0
90°-150°	0.3	0.0
90°-180°	0.0	0.0
0°-180°	780.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	247	247	247	247	247	
5°	325	300	246	193	171	34
15°	584	409	199	34	17	178
25°	1371	470	102	6	0	635
35°	1838	436	20	0	0	1119
45°	1230	334	11	0	0	945
55°	571	193	2	0	0	521
65°	315	40	1	0	0	305
75°	69	14	0	0	0	85
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: P123852

CATALOG NUMBER: ELSG406935SN (25° BEAM - 35° TILT)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2
2.5°	278.5	275.3	276.4	275.3	274.2	273.1	273.1	272.1	271.0	271.0	266.7
5°	325.0	325.0	323.9	321.7	318.5	315.2	315.2	308.8	305.5	300.1	296.9
7.5°	370.3	366.0	364.9	362.8	359.5	355.2	349.8	343.3	336.8	330.4	321.7
10°	426.4	423.2	420.0	413.5	407.0	397.3	386.5	375.7	364.9	354.1	343.3
12.5°	497.7	492.3	486.9	478.3	466.4	451.3	435.1	417.8	400.5	384.3	363.8
15°	584.1	580.8	569.0	553.8	533.3	511.7	486.9	459.9	434.0	409.2	381.1
17.5°	700.7	689.9	673.7	646.7	613.2	579.8	540.9	503.1	467.5	435.1	398.4
20°	863.7	845.3	811.9	764.4	708.2	652.1	597.0	545.2	496.6	451.3	410.3
22.5°	1099.0	1072.1	1011.6	922.0	823.7	735.2	653.2	584.1	522.5	466.4	417.8
25°	1371.1	1333.3	1242.6	1106.6	953.3	811.9	698.5	608.9	535.5	469.6	415.7
27.5°	1609.7	1568.7	1466.1	1291.2	1083.9	891.8	742.8	632.7	547.4	476.1	415.7
30°	1739.3	1705.8	1614.0	1422.9	1175.7	942.5	764.4	639.1	547.4	469.6	405.9
32.5°	1796.5	1757.6	1675.6	1485.5	1210.2	951.1	756.8	628.3	532.2	452.4	387.6
35°	1837.5	1778.1	1677.7	1479.1	1191.9	925.2	734.1	611.1	512.8	436.2	373.5
37.5°	1792.2	1732.8	1618.3	1391.6	1109.8	862.6	693.1	578.7	488.0	412.4	354.1
40°	1663.7	1616.2	1476.9	1251.3	996.5	784.9	646.7	538.7	456.7	384.3	330.4
42.5°	1473.7	1419.7	1282.6	1075.3	868.0	709.3	597.0	498.8	422.1	360.6	309.8
45°	1229.7	1183.3	1065.6	901.5	755.7	639.1	538.7	456.7	386.5	333.6	280.7
47.5°	995.4	956.5	870.2	761.1	660.7	569.0	483.7	411.3	354.1	305.5	248.3
50°	803.2	778.4	727.7	657.5	578.7	503.1	432.9	372.5	328.2	273.1	212.7
52.5°	673.7	656.4	620.8	563.6	504.2	442.6	384.3	335.8	289.3	236.4	174.9
55°	571.1	558.2	530.1	488.0	439.4	389.7	346.6	303.4	251.6	193.3	135.0
57.5°	484.7	474.0	454.5	421.0	381.1	348.7	307.7	263.4	210.5	150.1	96.1
60°	416.7	408.1	388.7	366.0	341.2	309.8	267.7	218.1	164.1	112.3	62.6
62.5°	357.4	353.0	341.2	322.8	298.0	263.4	218.1	168.4	118.8	71.3	32.4
65°	315.2	310.9	301.2	280.7	251.6	213.8	170.6	124.2	79.9	39.9	19.4
67.5°	256.9	252.6	244.0	226.7	196.5	159.8	120.9	81.0	44.3	21.6	17.3
70°	190.0	185.7	179.2	165.2	141.4	108.0	77.7	46.4	22.7	18.4	17.3
72.5°	122.0	120.9	115.5	106.9	89.6	69.1	42.1	21.6	18.4	15.1	14.0
75°	69.1	70.2	69.1	63.7	52.9	33.5	19.4	17.3	16.2	14.0	6.5
77.5°	30.2	30.2	31.3	29.1	23.8	18.4	18.4	16.2	14.0	10.8	5.4
80°	17.3	16.2	16.2	17.3	16.2	16.2	15.1	11.9	8.6	4.3	2.2
82.5°	16.2	15.1	15.1	15.1	14.0	14.0	13.0	8.6	5.4	3.2	2.2
85°	15.1	14.0	14.0	14.0	14.0	11.9	8.6	6.5	3.2	3.2	2.2
87.5°	9.7	8.6	8.6	9.7	7.6	6.5	3.2	2.2	1.1	1.1	1.1
90°	7.6	6.5	7.6	5.4	4.3	3.2	2.2	2.2	2.2	0.0	0.0
92.5°	3.2	3.2	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: P123852

CATALOG NUMBER: ELSG406935SN (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: P123852

CATALOG NUMBER: ELSG406935SN (25° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2
2.5°	265.6	262.3	261.3	258.0	255.9	252.6	251.6	249.4	246.2	244.0	240.8
5°	289.3	285.0	279.6	273.1	264.5	259.1	251.6	246.2	240.8	231.0	226.7
7.5°	313.1	305.5	295.8	283.9	273.1	263.4	249.4	239.7	227.8	219.2	207.3
10°	330.4	317.4	304.5	289.3	275.3	259.1	244.0	227.8	212.7	199.7	185.7
12.5°	348.7	330.4	313.1	294.7	275.3	255.9	239.7	215.9	195.4	179.2	160.9
15°	359.5	340.1	317.4	294.7	272.1	247.2	222.4	198.6	178.1	154.4	132.8
17.5°	368.1	342.2	322.8	290.4	263.4	234.3	206.2	179.2	154.4	128.5	102.6
20°	374.6	345.5	316.3	285.0	252.6	220.2	187.9	157.6	127.4	98.2	72.3
22.5°	375.7	343.3	310.9	275.3	238.6	203.0	171.7	137.1	101.5	71.3	47.5
25°	367.1	332.5	296.9	256.9	218.1	180.3	140.3	101.5	66.9	41.0	20.5
27.5°	366.0	328.2	289.3	246.2	201.9	159.8	118.8	78.8	46.4	24.8	18.4
30°	359.5	316.3	275.3	224.6	181.4	135.0	90.7	54.0	27.0	18.4	19.4
32.5°	341.2	298.0	249.4	198.6	151.1	103.6	60.5	29.1	16.2	13.0	13.0
35°	327.1	278.5	227.8	178.1	125.2	79.9	38.9	20.5	15.1	15.1	14.0
37.5°	305.5	254.8	200.8	149.0	96.1	50.7	21.6	16.2	16.2	11.9	7.6
40°	282.9	224.6	171.7	116.6	66.9	29.1	15.1	15.1	10.8	5.4	3.2
42.5°	252.6	196.5	142.5	86.4	42.1	18.4	15.1	13.0	9.7	4.3	2.2
45°	222.4	166.3	109.0	61.5	24.8	16.2	14.0	10.8	6.5	3.2	4.3
47.5°	190.0	132.8	75.6	33.5	16.2	16.2	13.0	5.4	3.2	2.2	0.0
50°	154.4	96.1	47.5	19.4	16.2	15.1	8.6	6.5	2.2	1.1	0.0
52.5°	114.4	64.8	24.8	14.0	15.1	10.8	2.2	0.0	0.0	0.0	0.0
55°	81.0	36.7	17.3	15.1	11.9	6.5	3.2	2.2	0.0	0.0	0.0
57.5°	47.5	20.5	16.2	14.0	7.6	3.2	0.0	0.0	0.0	0.0	1.1
60°	27.0	17.3	16.2	11.9	5.4	2.2	1.1	0.0	0.0	0.0	0.0
62.5°	17.3	15.1	13.0	7.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0
65°	16.2	14.0	9.7	5.4	2.2	1.1	0.0	1.1	1.1	0.0	0.0
67.5°	15.1	11.9	5.4	3.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
70°	15.1	8.6	4.3	4.3	0.0	1.1	1.1	0.0	0.0	0.0	1.1
72.5°	8.6	3.2	2.2	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.5	3.2	0.0	1.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.2	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: P123852

CATALOG NUMBER: ELSG406935SN (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: P123852

CATALOG NUMBER: ELSG406935SN (25° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2	247.2
2.5°	239.7	237.5	235.4	232.1	230.0	228.9	227.8	225.6	224.6	222.4	221.3
5°	218.1	214.8	207.3	201.9	196.5	193.3	186.8	186.8	183.5	178.1	173.8
7.5°	199.7	187.9	178.1	169.5	160.9	157.6	145.7	139.3	135.0	127.4	124.2
10°	171.7	158.7	145.7	131.7	119.8	111.2	99.3	89.6	83.1	77.7	72.3
12.5°	146.8	125.2	109.0	96.1	79.9	68.0	59.4	49.7	42.1	37.8	31.3
15°	111.2	90.7	72.3	56.1	44.3	34.5	27.0	22.7	20.5	20.5	17.3
17.5°	78.8	59.4	42.1	28.1	23.8	18.4	16.2	15.1	17.3	16.2	15.1
20°	49.7	32.4	21.6	17.3	15.1	15.1	15.1	15.1	13.0	13.0	13.0
22.5°	27.0	20.5	16.2	15.1	14.0	15.1	15.1	17.3	11.9	11.9	8.6
25°	14.0	10.8	11.9	9.7	9.7	6.5	3.2	2.2	1.1	1.1	0.0
27.5°	16.2	15.1	14.0	11.9	9.7	6.5	4.3	3.2	2.2	2.2	3.2
30°	15.1	14.0	9.7	6.5	6.5	4.3	1.1	2.2	1.1	1.1	0.0
32.5°	9.7	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	8.6	6.5	3.2	1.1	1.1	0.0	1.1	3.2	0.0	2.2	0.0
37.5°	4.3	3.2	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: P123852

CATALOG NUMBER: ELSG406935SN (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: P123852

CATALOG NUMBER: ELSG406935SN (25° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	247.2	247.2	247.2	247.2
2.5°	222.4	221.3	220.2	220.2
5°	172.7	171.7	169.5	170.6
7.5°	123.1	119.8	116.6	118.8
10°	69.1	64.8	63.7	63.7
12.5°	31.3	27.0	28.1	29.1
15°	18.4	17.3	17.3	17.3
17.5°	15.1	14.0	15.1	15.1
20°	13.0	11.9	11.9	11.9
22.5°	9.7	7.6	6.5	7.6
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: P123852

CATALOG NUMBER: ELSG406935SN (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)