

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: P123867

Luminaire Tested: **ELSG406930WH (35° BEAM - 35° TILT)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123867
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: ELSG406930WH (35° BEAM - 35° TILT)
Description: HALO 4 INCH RECESSED FIXTURE WITH SQUARE WHITE TRIM,
Light Source: (1)SURFACE MOUNT LED, 3000K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 770.0 lumens
Efficiency: N/A
Efficacy: 59.2 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

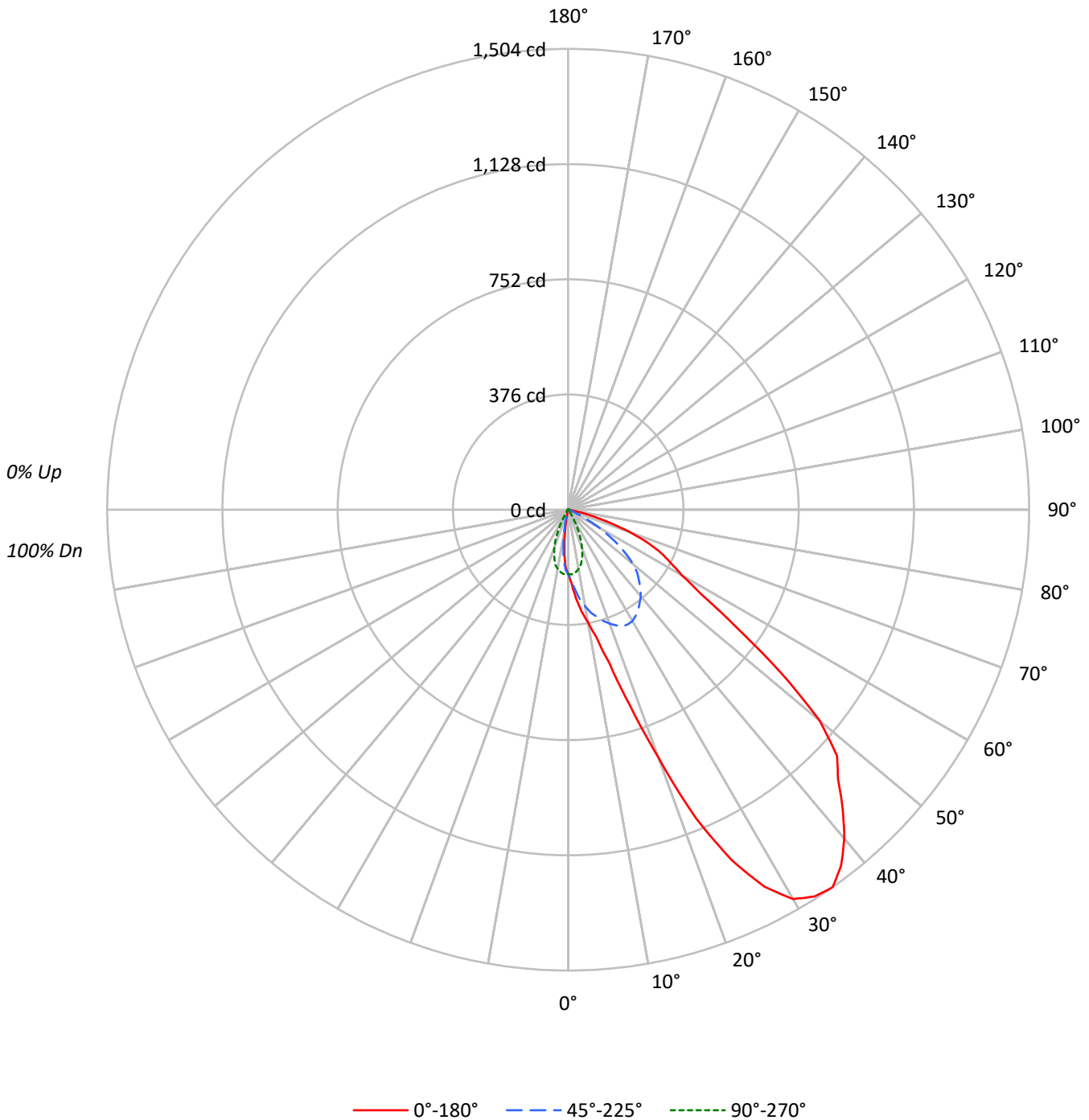
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: ELSG406930WH (35° BEAM - 35° TILT)

Luminous Intensity Polar Plot





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CATALOG NUMBER: ELSG406930WH (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°	103264	103264	103264
5°	135721	98190	65773
10°	168280	88329	17251
15°	226597	74572	4320
20°	367575	56055	2344
25°	529835	34043	462
30°	611177	14164	916
35°	626692	4583	0
40°	588276	2771	0
45°	530657	1407	0
50°	467209	480	0
55°	302093	1487	0
60°	201561	516	0
65°	165498	543	0
70°	112136	0	577
75°	48280	0	0
80°	8073	0	0
85°	4514	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	2.6
10°-20°	60.0	7.8
20°-30°	133.4	17.3
30°-40°	191.0	24.8
40°-50°	178.2	23.1
50°-60°	111.3	14.5
60°-70°	58.1	7.5
70°-80°	15.4	2.0
80°-90°	2.1	0.3
90°-100°	0.8	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°	213.3	27.7
0°-40°	404.3	52.5
0°-60°	693.8	90.1
0°-90°	769.3	99.9
90°-120°	0.8	0.1
90°-150°	0.8	0.1
90°-180°	1.0	0.1
0°-180°	770.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	209	209	209	209	209	
5°	289	263	209	163	140	30
15°	519	362	171	20	10	165
25°	1262	420	81	6	1	576
35°	1504	399	11	0	0	925
45°	1245	326	3	0	0	964
55°	670	199	3	0	0	625
65°	335	40	1	0	0	325
75°	86	6	0	0	0	100
85°	7	2	0	0	0	7
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: P123867

CATALOG NUMBER: ELSG406930WH (35° BEAM - 35° TILT)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3
2.5°	238.9	237.8	237.8	237.8	235.6	235.6	235.6	234.5	232.3	230.1	227.9
5°	289.3	288.2	287.1	284.9	281.6	281.6	277.2	272.8	270.6	263.0	258.6
7.5°	334.2	332.0	330.9	327.6	324.3	321.0	314.5	311.2	301.3	294.7	286.0
10°	373.6	372.5	369.2	365.9	362.7	357.2	349.5	340.7	332.0	321.0	310.1
12.5°	427.3	425.1	420.7	413.1	402.1	392.2	381.3	369.2	356.1	345.1	328.7
15°	519.3	516.1	502.9	488.7	464.6	443.7	420.7	398.8	380.2	361.6	346.2
17.5°	667.3	657.4	635.5	603.7	562.1	519.3	475.5	438.3	405.4	380.2	358.3
20°	862.3	850.2	810.8	757.1	688.1	616.9	545.6	481.0	433.9	395.5	367.0
22.5°	1090.2	1070.5	1020.1	943.4	840.4	730.8	625.6	532.5	460.2	408.7	373.6
25°	1262.2	1249.0	1199.7	1120.9	993.8	846.9	704.5	579.6	483.2	419.6	375.8
27.5°	1387.1	1368.5	1318.1	1241.4	1117.6	949.9	770.2	616.9	500.7	421.8	375.8
30°	1467.1	1453.9	1402.4	1320.3	1195.4	1021.1	815.2	636.6	507.3	419.6	372.5
32.5°	1496.7	1484.6	1443.0	1359.7	1230.4	1055.1	829.4	634.4	493.0	409.8	362.7
35°	1504.3	1483.5	1441.9	1360.8	1230.4	1050.7	815.2	614.7	477.7	398.8	352.8
37.5°	1462.7	1447.4	1411.2	1327.9	1201.9	1011.3	774.6	578.5	452.5	383.5	339.7
40°	1401.3	1392.6	1353.1	1274.2	1148.2	943.4	711.1	529.2	426.2	368.1	322.1
42.5°	1325.7	1314.8	1279.7	1207.4	1066.1	844.7	631.1	481.0	398.8	349.5	303.5
45°	1244.7	1235.9	1200.8	1119.8	944.5	729.7	546.7	433.9	372.5	326.5	275.0
47.5°	1189.9	1175.6	1116.5	990.5	803.1	614.7	481.0	401.0	352.8	305.7	247.6
50°	1070.5	1042.0	955.4	818.5	650.8	513.9	426.2	371.4	328.7	275.0	215.8
52.5°	875.4	843.7	759.3	646.4	529.2	442.6	386.8	344.0	298.0	238.9	175.3
55°	670.5	647.5	586.2	513.9	445.9	394.4	353.9	313.4	263.0	199.4	133.7
57.5°	516.1	506.2	472.2	433.9	395.5	360.5	323.2	278.3	221.3	155.6	97.5
60°	429.5	422.9	404.3	385.7	357.2	325.4	286.0	234.5	176.4	112.9	60.3
62.5°	376.9	372.5	359.4	344.0	317.7	284.9	238.9	183.0	126.0	72.3	29.6
65°	335.3	330.9	321.0	306.8	277.2	237.8	188.5	135.9	86.6	40.5	16.4
67.5°	280.5	279.4	270.6	253.1	220.2	180.8	133.7	87.7	48.2	17.5	8.8
70°	213.7	212.6	206.0	189.5	161.1	126.0	89.8	49.3	20.8	9.9	6.6
72.5°	143.5	141.3	138.1	126.0	105.2	78.9	50.4	21.9	9.9	8.8	7.7
75°	85.5	84.4	83.3	75.6	63.5	41.6	19.7	9.9	8.8	5.5	2.2
77.5°	40.5	41.6	41.6	39.4	29.6	15.3	11.0	8.8	6.6	5.5	3.3
80°	13.1	14.2	14.2	13.1	12.1	9.9	8.8	5.5	4.4	3.3	4.4
82.5°	9.9	9.9	9.9	8.8	8.8	6.6	6.6	5.5	4.4	4.4	2.2
85°	6.6	6.6	6.6	5.5	4.4	5.5	4.4	3.3	3.3	2.2	2.2
87.5°	5.5	5.5	3.3	4.4	4.4	3.3	3.3	3.3	2.2	2.2	1.1
90°	4.4	3.3	4.4	3.3	4.4	3.3	3.3	2.2	4.4	2.2	1.1
92.5°	1.1	2.2	2.2	1.1	3.3	2.2	3.3	1.1	1.1	1.1	2.2
95°	1.1	2.2	2.2	1.1	2.2	1.1	1.1	1.1	1.1	1.1	1.1
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: ELSG406930WH (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: ELSG406930WH (35° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3
2.5°	225.7	224.6	222.4	221.3	219.1	216.9	213.7	211.5	210.4	209.3	207.1
5°	254.2	248.7	239.9	235.6	231.2	223.5	214.7	209.3	206.0	198.3	193.9
7.5°	276.1	267.3	256.4	245.4	235.6	223.5	211.5	203.8	192.8	185.2	175.3
10°	298.0	283.8	269.5	253.1	238.9	222.4	208.2	196.1	183.0	169.8	155.6
12.5°	312.3	296.9	279.4	258.6	238.9	218.0	201.6	186.3	167.6	149.0	133.7
15°	326.5	305.7	283.8	259.7	235.6	211.5	191.7	170.9	147.9	126.0	104.1
17.5°	336.4	312.3	286.0	259.7	230.1	203.8	179.7	153.4	126.0	99.7	74.5
20°	341.8	314.5	284.9	252.0	220.2	189.5	163.3	131.5	98.6	71.2	47.1
22.5°	342.9	313.4	279.4	243.2	209.3	175.3	142.4	108.5	73.4	46.0	25.2
25°	348.4	314.5	273.9	233.4	197.2	158.9	122.7	81.1	50.4	26.3	16.4
27.5°	339.7	304.6	260.8	219.1	178.6	137.0	95.3	57.0	27.4	13.1	9.9
30°	337.5	294.7	247.6	203.8	157.8	112.9	69.0	34.0	14.2	9.9	7.7
32.5°	322.1	279.4	230.1	180.8	131.5	83.3	43.8	16.4	8.8	6.6	6.6
35°	310.1	261.9	208.2	155.6	106.3	58.1	24.1	11.0	7.7	5.5	5.5
37.5°	292.5	239.9	184.1	129.3	78.9	36.2	14.2	8.8	6.6	4.4	3.3
40°	273.9	215.8	156.7	101.9	52.6	17.5	8.8	6.6	7.7	3.3	2.2
42.5°	245.4	186.3	127.1	71.2	28.5	8.8	7.7	4.4	3.3	2.2	2.2
45°	213.7	151.2	92.0	41.6	11.0	5.5	2.2	3.3	0.0	0.0	0.0
47.5°	184.1	121.6	67.9	25.2	11.0	6.6	5.5	4.4	3.3	2.2	3.3
50°	149.0	86.6	37.3	11.0	7.7	4.4	3.3	1.1	3.3	1.1	0.0
52.5°	109.6	59.2	17.5	8.8	6.6	3.3	3.3	1.1	1.1	2.2	1.1
55°	75.6	31.8	9.9	7.7	5.5	3.3	2.2	3.3	1.1	0.0	0.0
57.5°	46.0	14.2	8.8	7.7	4.4	5.5	2.2	1.1	2.2	1.1	1.1
60°	21.9	11.0	7.7	5.5	3.3	2.2	1.1	1.1	1.1	1.1	1.1
62.5°	11.0	6.6	5.5	3.3	2.2	0.0	1.1	1.1	0.0	0.0	1.1
65°	8.8	6.6	5.5	2.2	3.3	2.2	1.1	1.1	0.0	0.0	0.0
67.5°	5.5	5.5	3.3	1.1	1.1	1.1	0.0	1.1	0.0	0.0	0.0
70°	4.4	4.4	2.2	2.2	1.1	1.1	0.0	0.0	1.1	0.0	1.1
72.5°	4.4	3.3	1.1	2.2	1.1	1.1	0.0	0.0	0.0	1.1	0.0
75°	2.2	2.2	2.2	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	2.2	2.2	2.2	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	3.3	3.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1
82.5°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	0.0	0.0	1.1	1.1
85°	1.1	2.2	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	1.1	0.0	0.0	1.1
90°	1.1	2.2	1.1	1.1	2.2	0.0	0.0	0.0	0.0	1.1	1.1
92.5°	0.0	2.2	0.0	1.1	1.1	1.1	0.0	0.0	1.1	0.0	0.0
95°	0.0	2.2	1.1	1.1	2.2	1.1	1.1	1.1	1.1	1.1	1.1
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	1.1	0.0	1.1	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: P123867

CATALOG NUMBER: ELSG406930WH (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: P123867

CATALOG NUMBER: ELSG406930WH (35° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3
2.5°	204.9	202.7	199.4	199.4	198.3	196.1	195.0	193.9	191.7	188.5	189.5
5°	187.4	181.9	176.4	170.9	166.5	163.3	157.8	152.3	149.0	150.1	146.8
7.5°	166.5	156.7	147.9	138.1	129.3	121.6	115.0	108.5	100.8	97.5	93.1
10°	141.3	126.0	113.9	103.0	89.8	78.9	71.2	63.5	54.8	51.5	46.0
12.5°	112.9	95.3	81.1	66.8	52.6	42.7	35.1	27.4	21.9	18.6	17.5
15°	82.2	62.5	47.1	34.0	23.0	19.7	13.1	13.1	12.1	11.0	11.0
17.5°	54.8	35.1	24.1	15.3	13.1	11.0	11.0	11.0	9.9	9.9	7.7
20°	27.4	16.4	12.1	9.9	7.7	7.7	7.7	6.6	5.5	4.4	4.4
22.5°	17.5	14.2	8.8	6.6	9.9	6.6	5.5	4.4	3.3	3.3	2.2
25°	11.0	8.8	7.7	6.6	4.4	5.5	4.4	3.3	2.2	3.3	2.2
27.5°	7.7	6.6	5.5	3.3	2.2	3.3	1.1	2.2	1.1	1.1	1.1
30°	5.5	4.4	7.7	2.2	2.2	4.4	3.3	2.2	0.0	5.5	2.2
32.5°	3.3	1.1	1.1	2.2	0.0	0.0	0.0	1.1	0.0	0.0	0.0
35°	3.3	1.1	1.1	0.0	2.2	0.0	1.1	0.0	0.0	0.0	0.0
37.5°	2.2	2.2	1.1	0.0	1.1	0.0	0.0	0.0	1.1	0.0	0.0
40°	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.1	1.1	0.0	2.2	0.0	0.0	0.0	2.2	0.0	0.0	0.0
50°	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1.1	0.0	0.0	1.1	0.0	0.0	0.0	1.1	1.1	0.0	0.0
55°	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	1.1	0.0	0.0	0.0	1.1	0.0	1.1	0.0	0.0	1.1
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	1.1	0.0	2.2	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	1.1	1.1	0.0	0.0	1.1	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	1.1	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	0.0	0.0	0.0
82.5°	0.0	1.1	0.0	1.1	1.1	1.1	1.1	0.0	0.0	0.0	1.1
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°	1.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	1.1	0.0	1.1	1.1	0.0	0.0	1.1	0.0	0.0
92.5°	1.1	0.0	0.0	1.1	0.0	1.1	0.0	1.1	1.1	1.1	0.0
95°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	1.1	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: P123867

CATALOG NUMBER: ELSG406930WH (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: P123867

CATALOG NUMBER: ELSG406930WH (35° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	209.3	209.3	209.3	209.3
2.5°	187.4	188.5	186.3	187.4
5°	141.3	140.2	141.3	140.2
7.5°	88.7	88.7	86.6	85.5
10°	42.7	41.6	39.4	38.3
12.5°	16.4	16.4	15.3	15.3
15°	11.0	9.9	11.0	9.9
17.5°	7.7	8.8	6.6	8.8
20°	5.5	4.4	4.4	5.5
22.5°	2.2	2.2	3.3	1.1
25°	2.2	2.2	2.2	1.1
27.5°	1.1	1.1	1.1	1.1
30°	0.0	1.1	1.1	2.2
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	1.1	0.0
40°	0.0	0.0	1.1	0.0
42.5°	1.1	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	1.1	0.0	1.1	3.3
50°	0.0	1.1	0.0	0.0
52.5°	1.1	0.0	1.1	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	1.1	1.1	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.0	2.2	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	1.1	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	1.1	0.0
90°	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0
95°	1.1	0.0	1.1	1.1
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: P123867

CATALOG NUMBER: ELSG406930WH (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)