

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: P123893

Luminaire Tested: **ELSG406940WH (50° BEAM - 35° TILT)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123893
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: ELSG406940WH (50° BEAM - 35° TILT)
Description: HALO 4 INCH RECESSED FIXTURE WITH SQUARE WHITE TRIM,
Light Source: (1)SURFACE MOUNT LED, 4000K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 840.0 lumens
Efficiency: N/A
Efficacy: 64.6 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

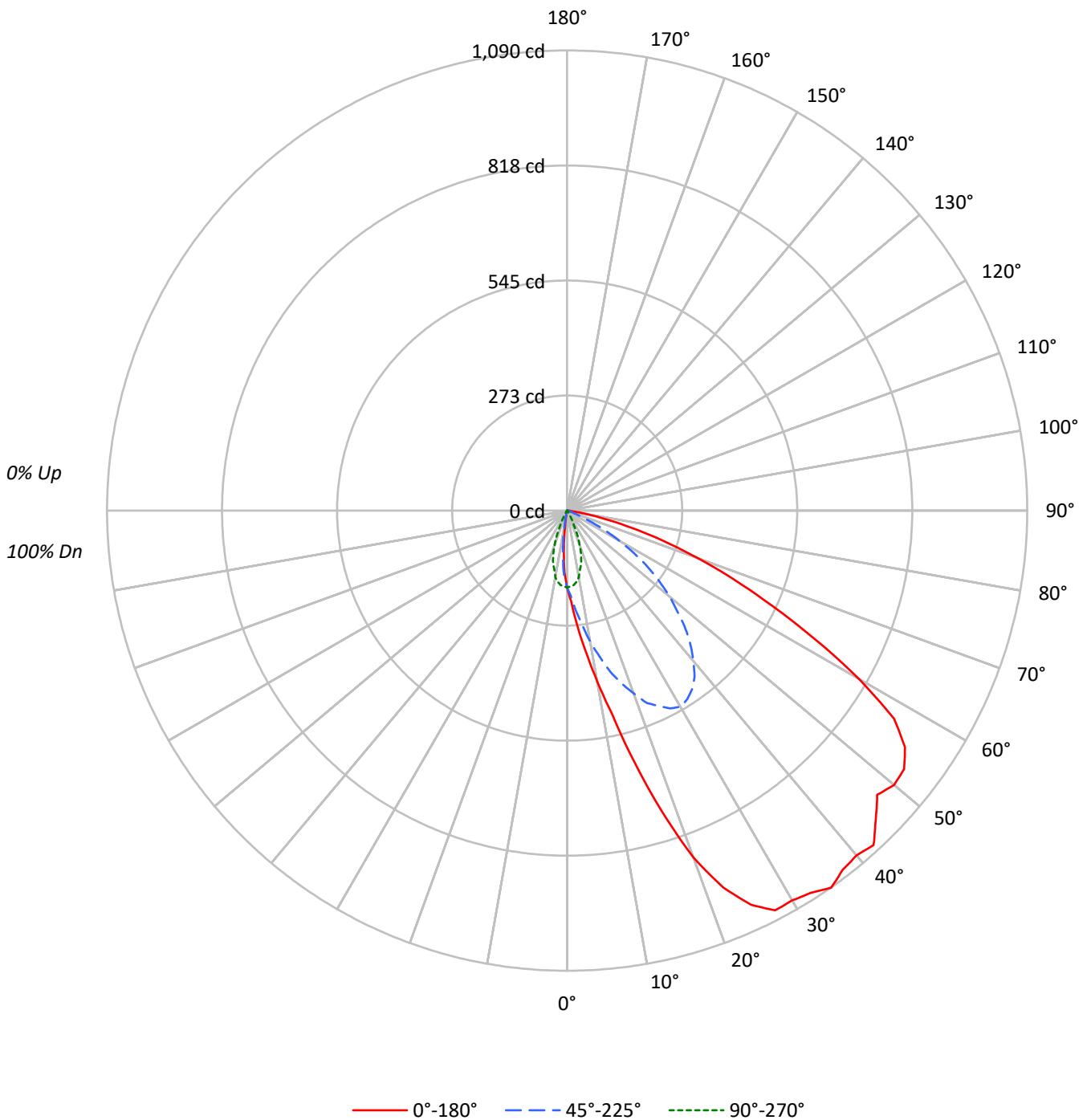
Input Watts (W): 13
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P123893

CATALOG NUMBER: ELSG406940WH (50° BEAM - 35° TILT)

Luminous Intensity Polar Plot





TEST NUMBER: P123893

CATALOG NUMBER: ELSG406940WH (50° 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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73				73
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52				52
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45				45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38				38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34				34
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29				29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	38	32	28	26				26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	89844	89844	89844
5°	127323	83178	41284
10°	184721	72249	5450
15°	269447	56333	1571
20°	372775	37000	0
25°	432406	15699	0
30°	444167	4541	0
35°	454261	2000	0
40°	447598	0	0
45°	440701	0	0
50°	441154	0	0
55°	440187	0	0
60°	375293	0	0
65°	265498	0	0
70°	172796	0	0
75°	89218	0	0
80°	24527	0	0
85°	4925	0	0



TEST NUMBER: P123893

CATALOG NUMBER: ELSG406940WH (50° BEAM - 35° TILT)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.9	2.0
10°-20°	60.4	7.2
20°-30°	128.0	15.2
30°-40°	176.7	21.0
40°-50°	186.5	22.2
50°-60°	157.4	18.7
60°-70°	86.0	10.2
70°-80°	25.8	3.1
80°-90°	2.1	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°	205.3	24.4
0°-40°	382.0	45.5
0°-60°	725.9	86.4
0°-90°	839.8	100.0
90°-120°	0.2	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	840.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	182	182	182	182	182	
5°	271	238	177	113	88	30
15°	618	396	129	7	4	184
25°	1030	510	37	0	0	469
35°	1090	516	5	0	0	676
45°	1034	397	0	0	0	801
55°	977	234	0	0	0	852
65°	538	60	0	0	0	542
75°	158	7	0	0	0	177
85°	7	2	0	0	0	12
90°	5	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: P123893

CATALOG NUMBER: ELSG406940WH (50° BEAM - 35° TILT)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1
2.5°	214.7	212.3	209.9	211.1	208.7	208.7	207.5	205.0	205.0	202.6	201.4
5°	271.4	264.1	264.1	260.5	258.1	254.5	252.1	247.3	243.6	237.6	234.0
7.5°	335.3	332.9	329.3	329.3	319.6	311.2	304.0	294.3	283.4	272.6	261.7
10°	410.1	410.1	404.1	398.0	388.4	378.7	366.7	349.8	334.1	316.0	296.7
12.5°	494.5	489.7	481.3	470.4	457.1	439.0	419.7	399.2	375.1	353.4	325.7
15°	617.5	607.9	595.8	577.7	552.4	521.1	490.9	458.3	427.0	395.6	361.8
17.5°	747.8	741.8	723.7	697.2	662.2	618.8	572.9	519.9	474.0	429.4	389.6
20°	874.5	866.0	846.7	817.8	769.5	715.2	654.9	586.2	519.9	460.8	410.1
22.5°	966.1	960.1	940.8	916.7	872.0	811.7	735.8	652.5	571.7	493.3	429.4
25°	1030.1	1020.4	1004.7	974.6	937.2	880.5	797.3	705.6	601.9	510.2	434.2
27.5°	1067.4	1062.6	1054.2	1032.5	995.1	937.2	857.6	749.0	635.6	528.3	442.7
30°	1066.2	1066.2	1067.4	1066.2	1042.1	979.4	899.8	780.4	656.1	536.7	443.9
32.5°	1073.5	1069.9	1063.8	1069.9	1061.4	1002.3	919.1	796.1	657.4	529.5	430.6
35°	1090.4	1083.1	1072.3	1068.7	1068.7	1013.2	929.9	799.7	651.3	516.2	416.1
37.5°	1072.3	1079.5	1073.5	1059.0	1061.4	1008.3	925.1	787.6	628.4	495.7	394.4
40°	1066.2	1069.9	1057.8	1045.7	1045.7	993.9	907.0	753.8	593.4	465.6	365.5
42.5°	1074.7	1059.0	1038.5	1040.9	1031.3	975.8	876.9	712.8	552.4	433.0	337.7
45°	1033.7	1020.4	1021.6	1036.1	1010.8	946.8	822.6	656.1	507.8	396.8	305.2
47.5°	996.3	1003.5	1007.1	1003.5	966.1	895.0	749.0	591.0	453.5	354.6	265.4
50°	1010.8	1005.9	1001.1	978.2	934.8	831.0	677.9	527.1	410.1	317.2	236.4
52.5°	1005.9	1001.1	979.4	943.2	872.0	747.8	592.2	462.0	366.7	275.0	194.2
55°	977.0	967.3	938.4	882.9	779.2	647.7	511.4	401.6	313.6	234.0	153.2
57.5°	917.9	899.8	855.2	773.1	667.0	542.8	435.4	346.2	264.1	187.0	112.2
60°	799.7	781.6	733.3	652.5	553.6	455.9	371.5	291.9	217.1	142.3	73.6
62.5°	664.6	647.7	599.5	531.9	455.9	383.6	310.0	238.8	166.4	98.9	41.0
65°	537.9	522.3	486.1	435.4	379.9	318.4	253.3	187.0	119.4	60.3	16.9
67.5°	428.2	417.3	394.4	357.0	310.0	254.5	195.4	131.5	74.8	28.9	8.4
70°	329.3	324.5	308.8	282.2	241.2	191.8	137.5	85.6	37.4	10.9	6.0
72.5°	237.6	235.2	226.8	208.7	176.1	132.7	88.0	45.8	14.5	7.2	6.0
75°	158.0	156.8	152.0	136.3	112.2	83.2	48.2	15.7	4.8	7.2	6.0
77.5°	91.7	89.3	89.3	80.8	63.9	43.4	15.7	8.4	6.0	3.6	3.6
80°	39.8	39.8	39.8	36.2	25.3	13.3	7.2	2.4	1.2	1.2	1.2
82.5°	13.3	12.1	12.1	12.1	9.6	7.2	6.0	3.6	3.6	2.4	1.2
85°	7.2	7.2	7.2	7.2	6.0	4.8	4.8	3.6	2.4	2.4	1.2
87.5°	6.0	3.6	4.8	3.6	3.6	2.4	3.6	2.4	1.2	2.4	1.2
90°	4.8	2.4	2.4	3.6	2.4	2.4	1.2	2.4	0.0	1.2	1.2
92.5°	1.2	1.2	1.2	0.0	1.2	0.0	0.0	0.0	1.2	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: P123893

CATALOG NUMBER: ELSG406940WH (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: P123893

CATALOG NUMBER: ELSG406940WH (50° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1
2.5°	197.8	197.8	194.2	190.6	188.2	185.7	182.1	179.7	177.3	174.9	172.5
5°	226.8	220.7	214.7	206.3	200.2	193.0	188.2	177.3	168.9	161.6	155.6
7.5°	256.9	241.2	229.2	218.3	207.5	196.6	184.5	170.1	156.8	143.5	131.5
10°	281.0	261.7	244.8	226.8	213.5	196.6	179.7	160.4	142.3	124.2	108.6
12.5°	299.1	275.0	250.9	230.4	207.5	188.2	165.2	141.1	117.0	97.7	77.2
15°	328.1	295.5	266.6	235.2	212.3	187.0	158.0	129.1	101.3	76.0	54.3
17.5°	347.4	311.2	270.2	236.4	207.5	176.1	143.5	109.8	78.4	54.3	31.4
20°	363.1	314.8	271.4	231.6	200.2	165.2	124.2	86.8	55.5	31.4	14.5
22.5°	373.9	318.4	270.2	226.8	188.2	145.9	103.7	66.3	33.8	15.7	12.1
25°	370.3	311.2	256.9	209.9	167.7	119.4	77.2	37.4	10.9	3.6	1.2
27.5°	371.5	306.4	250.9	201.4	153.2	101.3	56.7	22.9	8.4	3.6	4.8
30°	369.1	299.1	238.8	184.5	130.3	80.8	37.4	10.9	6.0	8.4	3.6
32.5°	352.2	281.0	219.5	162.8	104.9	53.1	15.7	4.8	3.6	1.2	1.2
35°	335.3	262.9	201.4	138.7	80.8	32.6	9.6	4.8	1.2	3.6	1.2
37.5°	311.2	240.0	176.1	111.0	55.5	14.5	4.8	2.4	2.4	1.2	0.0
40°	283.4	212.3	144.7	82.0	30.2	4.8	2.4	0.0	0.0	0.0	0.0
42.5°	258.1	184.5	117.0	55.5	13.3	3.6	2.4	1.2	1.2	0.0	0.0
45°	226.8	152.0	85.6	30.2	7.2	2.4	1.2	0.0	0.0	0.0	2.4
47.5°	189.4	115.8	53.1	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	158.0	86.8	30.2	6.0	3.6	0.0	2.4	0.0	0.0	0.0	0.0
52.5°	118.2	53.1	10.9	4.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
55°	83.2	27.7	7.2	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	49.5	10.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	22.9	6.0	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9.6	4.8	2.4	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0
65°	7.2	3.6	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0	1.2
67.5°	4.8	3.6	2.4	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
70°	2.4	2.4	1.2	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	3.6	3.6	2.4	1.2	0.0	1.2	1.2	0.0	0.0	0.0	0.0
75°	2.4	1.2	2.4	0.0	1.2	0.0	1.2	0.0	0.0	0.0	0.0
77.5°	2.4	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.4	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	1.2	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
90°	0.0	1.2	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°	1.2	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	1.2
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: P123893

CATALOG NUMBER: ELSG406940WH (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: P123893

CATALOG NUMBER: ELSG406940WH (50° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1
2.5°	168.9	165.2	165.2	161.6	159.2	158.0	156.8	152.0	150.8	149.6	149.6
5°	147.2	139.9	131.5	125.4	119.4	113.4	108.6	106.1	98.9	94.1	91.7
7.5°	119.4	107.3	96.5	86.8	74.8	70.0	59.1	54.3	48.2	44.6	39.8
10°	90.5	77.2	62.7	49.5	39.8	32.6	25.3	20.5	18.1	15.7	13.3
12.5°	56.7	38.6	28.9	19.3	9.6	7.2	7.2	3.6	2.4	2.4	1.2
15°	36.2	20.5	13.3	9.6	9.6	7.2	6.0	4.8	4.8	3.6	3.6
17.5°	16.9	10.9	8.4	4.8	4.8	4.8	3.6	4.8	7.2	3.6	2.4
20°	7.2	6.0	4.8	3.6	2.4	4.8	2.4	1.2	1.2	1.2	1.2
22.5°	7.2	6.0	4.8	6.0	9.6	1.2	3.6	1.2	1.2	0.0	1.2
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°	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2.4	2.4	0.0	0.0	1.2	0.0	0.0	0.0	3.6	2.4	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°	7.2	0.0	1.2	2.4	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°	1.2	0.0	0.0	0.0	1.2	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	1.2	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: P123893

CATALOG NUMBER: ELSG406940WH (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: P123893

CATALOG NUMBER: ELSG406940WH (50° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	182.1	182.1	182.1	182.1
2.5°	148.4	147.2	148.4	145.9
5°	92.9	88.0	88.0	88.0
7.5°	38.6	36.2	35.0	36.2
10°	13.3	12.1	12.1	12.1
12.5°	2.4	1.2	1.2	1.2
15°	3.6	3.6	3.6	3.6
17.5°	2.4	1.2	2.4	1.2
20°	0.0	0.0	0.0	0.0
22.5°	1.2	1.2	0.0	0.0
25°	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0
30°	1.2	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: P123893

CATALOG NUMBER: ELSG406940WH (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)