

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: P123845

Luminaire Tested: **ELSG406940WH (25° BEAM - 35° TILT)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P123845  
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: ELSG406940WH (25° 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: 870.0 lumens  
Efficiency: N/A  
Efficacy: 66.9 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

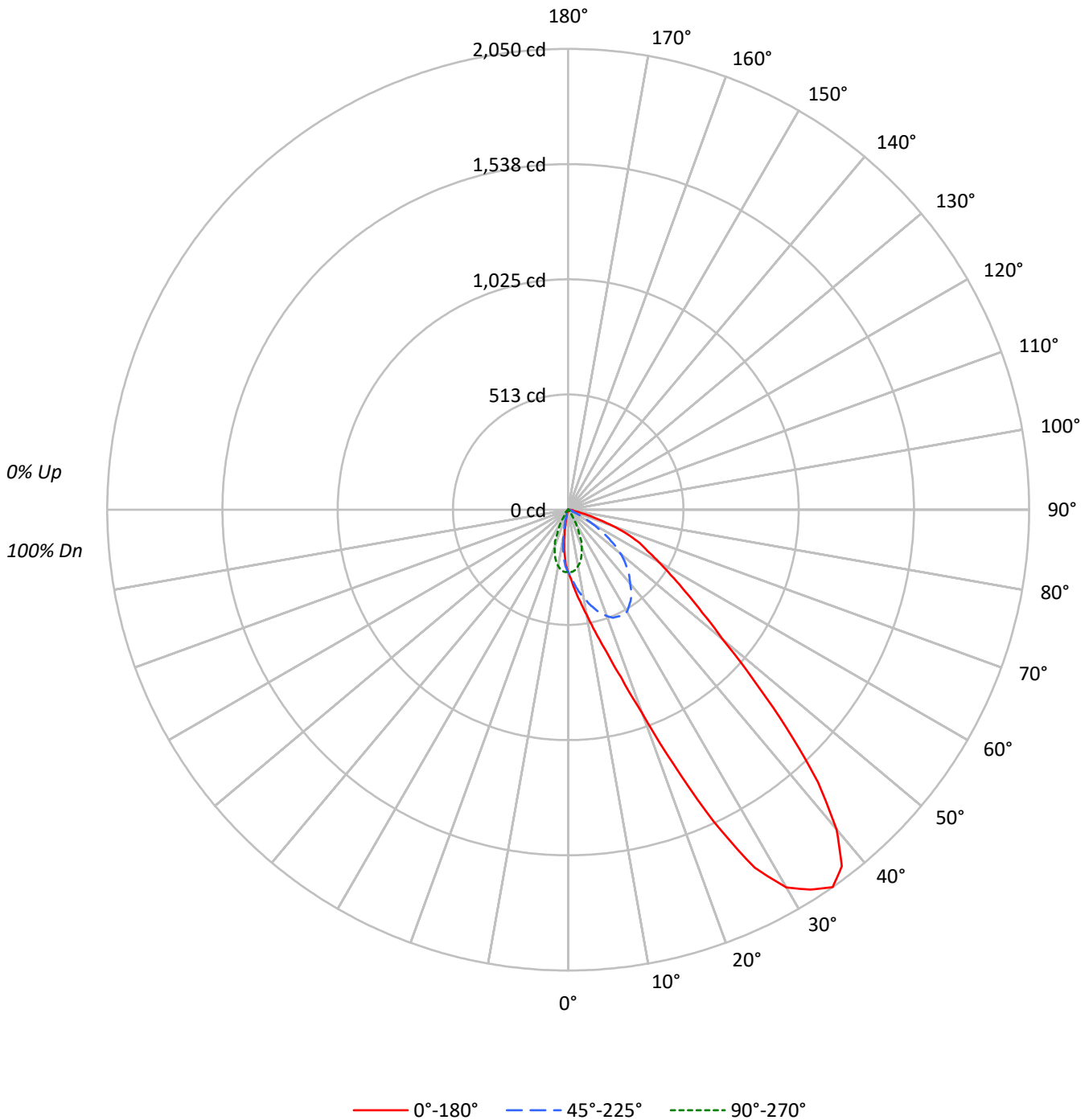
Input Watts (W): 13  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P123845

CATALOG NUMBER: ELSG406940WH (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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46	44
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	136074	136074	136074
5°	170061	128824	89276
10°	214269	114454	31980
15°	284283	96695	8422
20°	410628	74939	5627
25°	641956	47518	0
30°	808140	25079	0
35°	853822	9540	0
40°	778994	7095	0
45°	584759	5116	0
50°	391007	3142	0
55°	287000	1081	0
60°	218127	0	0
65°	173544	592	0
70°	111192	0	630
75°	43536	0	0
80°	11894	0	0
85°	11559	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.8	3.0
10°-20°	76.6	8.8
20°-30°	158.9	18.3
30°-40°	226.9	26.1
40°-50°	186.9	21.5
50°-60°	114.8	13.2
60°-70°	60.9	7.0
70°-80°	15.8	1.8
80°-90°	3.1	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°	261.3	30.0
0°-40°	488.1	56.1
0°-60°	789.9	90.8
0°-90°	869.7	100.0
90°-120°	0.3	0.0
90°-150°	0.3	0.0
90°-180°	0.0	0.0
0°-180°	870.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	276	276	276	276	276	
5°	362	335	275	216	190	38
15°	652	456	222	38	19	199
25°	1529	524	113	7	0	709
35°	2050	486	23	0	0	1248
45°	1372	372	12	0	0	1055
55°	637	216	2	0	0	582
65°	352	45	1	0	0	340
75°	77	16	0	0	0	95
85°	17	4	0	0	0	14
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: P123845

CATALOG NUMBER: ELSG406940WH (25° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8
2.5°	310.7	307.1	308.3	307.1	305.9	304.7	304.7	303.5	302.3	302.3	297.4
5°	362.5	362.5	361.3	358.8	355.2	351.6	351.6	344.4	340.8	334.8	331.2
7.5°	413.0	408.2	407.0	404.6	401.0	396.2	390.2	382.9	375.7	368.5	358.8
10°	475.7	472.0	468.4	461.2	454.0	443.1	431.1	419.1	407.0	395.0	382.9
12.5°	555.1	549.1	543.1	533.5	520.2	503.3	485.3	466.0	446.8	428.7	405.8
15°	651.5	647.9	634.6	617.7	594.9	570.8	543.1	513.0	484.1	456.4	425.1
17.5°	781.5	769.5	751.4	721.3	684.0	646.6	603.3	561.2	521.4	485.3	444.3
20°	963.3	942.9	905.5	852.6	789.9	727.3	665.9	608.1	553.9	503.3	457.6
22.5°	1225.9	1195.8	1128.3	1028.4	918.8	820.0	728.5	651.5	582.8	520.2	466.0
25°	1529.3	1487.2	1386.0	1234.3	1063.3	905.5	779.1	679.2	597.3	523.8	463.6
27.5°	1795.4	1749.7	1635.3	1440.2	1209.0	994.7	828.5	705.7	610.5	531.0	463.6
30°	1939.9	1902.6	1800.3	1587.1	1311.4	1051.3	852.6	712.9	610.5	523.8	452.8
32.5°	2003.8	1960.4	1868.9	1657.0	1349.9	1060.9	844.1	700.8	593.7	504.6	432.3
35°	2049.5	1983.3	1871.3	1649.7	1329.4	1032.0	818.8	681.6	572.0	486.5	416.6
37.5°	1998.9	1932.7	1805.1	1552.2	1237.9	962.1	773.1	645.4	544.3	460.0	395.0
40°	1855.6	1802.7	1647.3	1395.6	1111.5	875.4	721.3	600.9	509.4	428.7	368.5
42.5°	1643.7	1583.5	1430.6	1199.4	968.2	791.1	665.9	556.3	470.8	402.2	345.6
45°	1371.6	1319.8	1188.5	1005.5	842.9	712.9	600.9	509.4	431.1	372.1	313.1
47.5°	1110.3	1066.9	970.6	849.0	737.0	634.6	539.5	458.8	395.0	340.8	277.0
50°	895.9	868.2	811.6	733.3	645.4	561.2	482.9	415.4	366.1	304.7	237.2
52.5°	751.4	732.1	692.4	628.6	562.4	493.7	428.7	374.5	322.7	263.7	195.1
55°	637.0	622.6	591.3	544.3	490.1	434.7	386.5	338.4	280.6	215.5	150.5
57.5°	540.7	528.6	507.0	469.6	425.1	389.0	343.2	293.8	234.8	167.4	107.2
60°	464.8	455.2	433.5	408.2	380.5	345.6	298.6	243.2	183.0	125.2	69.8
62.5°	398.6	393.8	380.5	360.1	332.4	293.8	243.2	187.9	132.5	79.5	36.1
65°	351.6	346.8	336.0	313.1	280.6	238.4	190.3	138.5	89.1	44.6	21.7
67.5°	286.6	281.8	272.1	252.9	219.2	178.2	134.9	90.3	49.4	24.1	19.3
70°	211.9	207.1	199.9	184.2	157.7	120.4	86.7	51.8	25.3	20.5	19.3
72.5°	136.1	134.9	128.8	119.2	99.9	77.1	47.0	24.1	20.5	16.9	15.7
75°	77.1	78.3	77.1	71.0	59.0	37.3	21.7	19.3	18.1	15.7	7.2
77.5°	33.7	33.7	34.9	32.5	26.5	20.5	20.5	18.1	15.7	12.0	6.0
80°	19.3	18.1	18.1	19.3	18.1	18.1	16.9	13.2	9.6	4.8	2.4
82.5°	18.1	16.9	16.9	16.9	15.7	15.7	14.5	9.6	6.0	3.6	2.4
85°	16.9	15.7	15.7	15.7	15.7	13.2	9.6	7.2	3.6	3.6	2.4
87.5°	10.8	9.6	9.6	10.8	8.4	7.2	3.6	2.4	1.2	1.2	1.2
90°	8.4	7.2	8.4	6.0	4.8	3.6	2.4	2.4	2.4	0.0	0.0
92.5°	3.6	3.6	2.4	2.4	2.4	0.0	0.0	1.2	1.2	1.2	0.0
95°	1.2	0.0	0.0	1.2	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: P123845

CATALOG NUMBER: ELSG406940WH (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: P123845

CATALOG NUMBER: ELSG406940WH (25° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8
2.5°	296.2	292.6	291.4	287.8	285.4	281.8	280.6	278.2	274.6	272.1	268.5
5°	322.7	317.9	311.9	304.7	295.0	289.0	280.6	274.6	268.5	257.7	252.9
7.5°	349.2	340.8	329.9	316.7	304.7	293.8	278.2	267.3	254.1	244.4	231.2
10°	368.5	354.0	339.6	322.7	307.1	289.0	272.1	254.1	237.2	222.8	207.1
12.5°	389.0	368.5	349.2	328.7	307.1	285.4	267.3	240.8	218.0	199.9	179.4
15°	401.0	379.3	354.0	328.7	303.5	275.8	248.1	221.6	198.7	172.2	148.1
17.5°	410.6	381.7	360.1	323.9	293.8	261.3	230.0	199.9	172.2	143.3	114.4
20°	417.9	385.3	352.8	317.9	281.8	245.7	209.5	175.8	142.1	109.6	80.7
22.5°	419.1	382.9	346.8	307.1	266.1	226.4	191.5	152.9	113.2	79.5	53.0
25°	409.4	370.9	331.2	286.6	243.2	201.1	156.5	113.2	74.7	45.8	22.9
27.5°	408.2	366.1	322.7	274.6	225.2	178.2	132.5	87.9	51.8	27.7	20.5
30°	401.0	352.8	307.1	250.5	202.3	150.5	101.2	60.2	30.1	20.5	21.7
32.5°	380.5	332.4	278.2	221.6	168.6	115.6	67.4	32.5	18.1	14.5	14.5
35°	364.9	310.7	254.1	198.7	139.7	89.1	43.4	22.9	16.9	16.9	15.7
37.5°	340.8	284.2	224.0	166.2	107.2	56.6	24.1	18.1	18.1	13.2	8.4
40°	315.5	250.5	191.5	130.1	74.7	32.5	16.9	16.9	12.0	6.0	3.6
42.5°	281.8	219.2	159.0	96.3	47.0	20.5	16.9	14.5	10.8	4.8	2.4
45°	248.1	185.4	121.6	68.6	27.7	18.1	15.7	12.0	7.2	3.6	4.8
47.5°	211.9	148.1	84.3	37.3	18.1	18.1	14.5	6.0	3.6	2.4	0.0
50°	172.2	107.2	53.0	21.7	18.1	16.9	9.6	7.2	2.4	1.2	0.0
52.5°	127.6	72.3	27.7	15.7	16.9	12.0	2.4	0.0	0.0	0.0	0.0
55°	90.3	40.9	19.3	16.9	13.2	7.2	3.6	2.4	0.0	0.0	0.0
57.5°	53.0	22.9	18.1	15.7	8.4	3.6	0.0	0.0	0.0	0.0	1.2
60°	30.1	19.3	18.1	13.2	6.0	2.4	1.2	0.0	0.0	0.0	0.0
62.5°	19.3	16.9	14.5	8.4	3.6	1.2	0.0	0.0	0.0	0.0	0.0
65°	18.1	15.7	10.8	6.0	2.4	1.2	0.0	1.2	1.2	0.0	0.0
67.5°	16.9	13.2	6.0	3.6	1.2	1.2	0.0	0.0	0.0	0.0	0.0
70°	16.9	9.6	4.8	4.8	0.0	1.2	1.2	0.0	0.0	0.0	1.2
72.5°	9.6	3.6	2.4	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.2	3.6	0.0	1.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.6	2.4	1.2	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
80°	2.4	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	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.2	0.0	1.2	0.0	1.2	1.2	0.0	0.0	1.2	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	0.0
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°	1.2	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: P123845

CATALOG NUMBER: ELSG406940WH (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: P123845

CATALOG NUMBER: ELSG406940WH (25° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8	275.8
2.5°	267.3	264.9	262.5	258.9	256.5	255.3	254.1	251.7	250.5	248.1	246.9
5°	243.2	239.6	231.2	225.2	219.2	215.5	208.3	208.3	204.7	198.7	193.9
7.5°	222.8	209.5	198.7	189.1	179.4	175.8	162.6	155.3	150.5	142.1	138.5
10°	191.5	177.0	162.6	146.9	133.7	124.0	110.8	99.9	92.7	86.7	80.7
12.5°	163.8	139.7	121.6	107.2	89.1	75.9	66.2	55.4	47.0	42.1	34.9
15°	124.0	101.2	80.7	62.6	49.4	38.5	30.1	25.3	22.9	22.9	19.3
17.5°	87.9	66.2	47.0	31.3	26.5	20.5	18.1	16.9	19.3	18.1	16.9
20°	55.4	36.1	24.1	19.3	16.9	16.9	16.9	16.9	14.5	14.5	14.5
22.5°	30.1	22.9	18.1	16.9	15.7	16.9	16.9	19.3	13.2	13.2	9.6
25°	15.7	12.0	13.2	10.8	10.8	7.2	3.6	2.4	1.2	1.2	0.0
27.5°	18.1	16.9	15.7	13.2	10.8	7.2	4.8	3.6	2.4	2.4	3.6
30°	16.9	15.7	10.8	7.2	7.2	4.8	1.2	2.4	1.2	1.2	0.0
32.5°	10.8	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	9.6	7.2	3.6	1.2	1.2	0.0	1.2	3.6	0.0	2.4	0.0
37.5°	4.8	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1.2	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1.2	1.2	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	1.2	0.0	1.2	0.0	0.0	0.0	1.2	0.0
50°	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.2	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	1.2	0.0	1.2	0.0	0.0	0.0	1.2	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°	1.2	1.2	0.0	1.2	0.0	0.0	0.0	1.2	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	1.2	1.2	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	1.2	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	1.2	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: P123845

CATALOG NUMBER: ELSG406940WH (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: P123845

CATALOG NUMBER: ELSG406940WH (25° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	275.8	275.8	275.8	275.8
2.5°	248.1	246.9	245.7	245.7
5°	192.7	191.5	189.1	190.3
7.5°	137.3	133.7	130.1	132.5
10°	77.1	72.3	71.0	71.0
12.5°	34.9	30.1	31.3	32.5
15°	20.5	19.3	19.3	19.3
17.5°	16.9	15.7	16.9	16.9
20°	14.5	13.2	13.2	13.2
22.5°	10.8	8.4	7.2	8.4
25°	0.0	0.0	0.0	0.0
27.5°	2.4	1.2	1.2	2.4
30°	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0
35°	0.0	2.4	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	1.2
72.5°	0.0	0.0	0.0	0.0
75°	1.2	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: P123845

CATALOG NUMBER: ELSG406940WH (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)