

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: P123858

Luminaire Tested: **ELSG406927TBZ (35° BEAM - 35° TILT)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P123858  
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: ELSG406927TBZ (35° BEAM - 35° TILT)  
Description: HALO 4 INCH RECESSED FIXTURE WITH SQUARE TUSCAN BRONZE TRIM,  
Light Source: (1)SURFACE MOUNT LED, 2700K CCT, 90CRI  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 630.0 lumens  
Efficiency: N/A  
Efficacy: 48.5 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

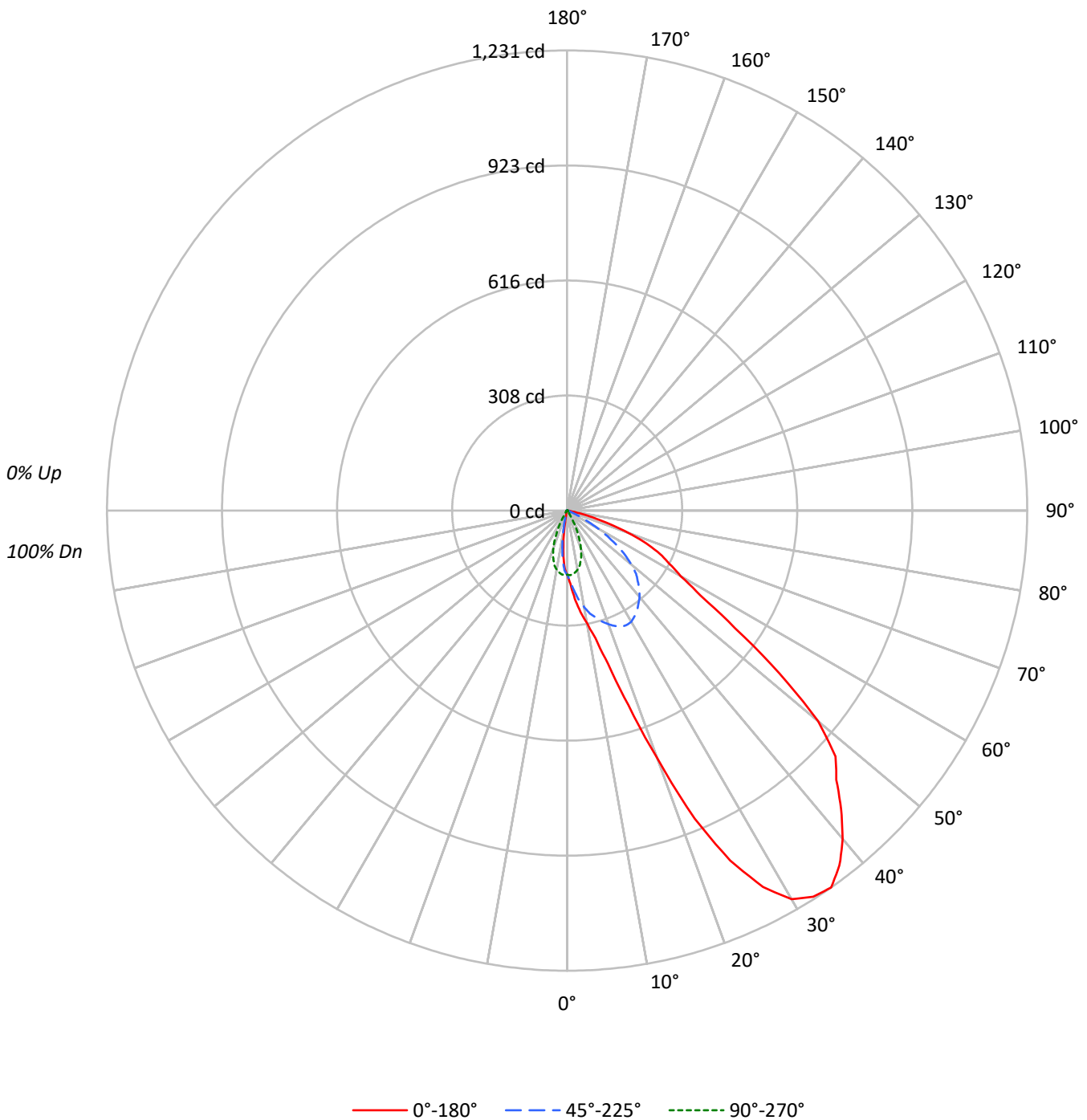
Input Watts (W): 13  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P123858

CATALOG NUMBER: ELSG406927TBZ (35° 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	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°	84467	84467	84467
5°	111044	80316	53810
10°	137696	72294	14143
15°	185406	61002	3534
20°	300735	45867	1918
25°	433498	27831	378
30°	500031	11581	750
35°	512751	3749	0
40°	481351	2267	0
45°	434178	1151	0
50°	382234	393	0
55°	247171	1216	0
60°	164909	422	0
65°	135390	444	0
70°	91724	0	472
75°	39471	0	0
80°	6656	0	0
85°	3693	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.2	2.6
10°-20°	49.1	7.8
20°-30°	109.1	17.3
30°-40°	156.3	24.8
40°-50°	145.8	23.1
50°-60°	91.1	14.5
60°-70°	47.5	7.5
70°-80°	12.6	2.0
80°-90°	1.7	0.3
90°-100°	0.6	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°	174.5	27.7
0°-40°	330.8	52.5
0°-60°	567.6	90.1
0°-90°	629.4	99.9
90°-120°	0.6	0.1
90°-150°	0.6	0.1
90°-180°	1.0	0.2
0°-180°	630.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	171	171	171	171	171	
5°	237	215	171	134	115	25
15°	425	296	140	16	8	135
25°	1033	343	66	4	1	471
35°	1231	326	9	0	0	757
45°	1018	267	3	0	0	789
55°	549	163	3	0	0	511
65°	274	33	1	0	0	266
75°	70	4	0	0	0	82
85°	5	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: P123858

CATALOG NUMBER: ELSG406927TBZ (35° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2
2.5°	195.4	194.5	194.5	194.5	192.7	192.7	192.7	191.8	190.0	188.3	186.5
5°	236.7	235.8	234.9	233.1	230.4	230.4	226.8	223.2	221.4	215.1	211.6
7.5°	273.4	271.6	270.7	268.0	265.3	262.7	257.3	254.6	246.5	241.1	234.0
10°	305.7	304.8	302.1	299.4	296.7	292.2	286.0	278.8	271.6	262.7	253.7
12.5°	349.6	347.8	344.2	338.0	329.0	320.9	312.0	302.1	291.3	282.4	268.9
15°	424.9	422.2	411.5	399.8	380.1	363.1	344.2	326.3	311.1	295.8	283.3
17.5°	545.9	537.9	519.9	493.9	459.9	424.9	389.1	358.6	331.7	311.1	293.1
20°	705.5	695.6	663.4	619.4	563.0	504.7	446.4	393.5	355.0	323.6	300.3
22.5°	892.0	875.8	834.6	771.8	687.6	597.9	511.9	435.7	376.5	334.4	305.7
25°	1032.7	1021.9	981.6	917.1	813.1	693.0	576.4	474.2	395.3	343.3	307.5
27.5°	1134.9	1119.7	1078.4	1015.7	914.4	777.2	630.2	504.7	409.7	345.1	307.5
30°	1200.3	1189.6	1147.4	1080.2	978.0	835.5	667.0	520.8	415.1	343.3	304.8
32.5°	1224.5	1214.7	1180.6	1112.5	1006.7	863.3	678.6	519.0	403.4	335.3	296.7
35°	1230.8	1213.8	1179.7	1113.4	1006.7	859.7	667.0	502.9	390.8	326.3	288.7
37.5°	1196.8	1184.2	1154.6	1086.5	983.4	827.4	633.8	473.3	370.2	313.8	277.9
40°	1146.6	1139.4	1107.1	1042.6	939.5	771.8	581.8	433.0	348.7	301.2	263.6
42.5°	1084.7	1075.7	1047.0	987.9	872.2	691.2	516.4	393.5	326.3	286.0	248.3
45°	1018.4	1011.2	982.5	916.2	772.7	597.0	447.3	355.0	304.8	267.1	225.0
47.5°	973.5	961.9	913.5	810.4	657.1	502.9	393.5	328.1	288.7	250.1	202.6
50°	875.8	852.5	781.7	669.6	532.5	420.4	348.7	303.9	268.9	225.0	176.6
52.5°	716.3	690.3	621.2	528.9	433.0	362.2	316.4	281.5	243.8	195.4	143.4
55°	548.6	529.8	479.6	420.4	364.9	322.7	289.6	256.4	215.1	163.2	109.4
57.5°	422.2	414.2	386.4	355.0	323.6	294.9	264.5	227.7	181.1	127.3	79.8
60°	351.4	346.0	330.8	315.5	292.2	266.2	234.0	191.8	144.3	92.3	49.3
62.5°	308.4	304.8	294.0	281.5	260.0	233.1	195.4	149.7	103.1	59.2	24.2
65°	274.3	270.7	262.7	251.0	226.8	194.5	154.2	111.2	70.8	33.2	13.4
67.5°	229.5	228.6	221.4	207.1	180.2	147.9	109.4	71.7	39.4	14.3	7.2
70°	174.8	173.9	168.5	155.1	131.8	103.1	73.5	40.3	17.0	8.1	5.4
72.5°	117.4	115.6	113.0	103.1	86.1	64.5	41.2	17.9	8.1	7.2	6.3
75°	69.9	69.0	68.1	61.9	52.0	34.1	16.1	8.1	7.2	4.5	1.8
77.5°	33.2	34.1	34.1	32.3	24.2	12.6	9.0	7.2	5.4	4.5	2.7
80°	10.8	11.7	11.7	10.8	9.9	8.1	7.2	4.5	3.6	2.7	3.6
82.5°	8.1	8.1	8.1	7.2	7.2	5.4	5.4	4.5	3.6	3.6	1.8
85°	5.4	5.4	5.4	4.5	3.6	4.5	3.6	2.7	2.7	1.8	1.8
87.5°	4.5	4.5	2.7	3.6	3.6	2.7	2.7	2.7	1.8	1.8	0.9
90°	3.6	2.7	3.6	2.7	3.6	2.7	2.7	1.8	3.6	1.8	0.9
92.5°	0.9	1.8	1.8	0.9	2.7	1.8	2.7	0.9	0.9	0.9	1.8
95°	0.9	1.8	1.8	0.9	1.8	0.9	0.9	0.9	0.9	0.9	0.9
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: P123858

CATALOG NUMBER: ELSG406927TBZ (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



TEST NUMBER: P123858

CATALOG NUMBER: ELSG406927TBZ (35° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2
2.5°	184.7	183.8	182.0	181.1	179.3	177.5	174.8	173.0	172.1	171.2	169.4
5°	208.0	203.5	196.3	192.7	189.1	182.9	175.7	171.2	168.5	162.3	158.7
7.5°	225.9	218.7	209.8	200.8	192.7	182.9	173.0	166.7	157.8	151.5	143.4
10°	243.8	232.2	220.5	207.1	195.4	182.0	170.3	160.5	149.7	138.9	127.3
12.5°	255.5	242.9	228.6	211.6	195.4	178.4	164.9	152.4	137.2	121.9	109.4
15°	267.1	250.1	232.2	212.5	192.7	173.0	156.9	139.8	121.0	103.1	85.2
17.5°	275.2	255.5	234.0	212.5	188.3	166.7	147.0	125.5	103.1	81.6	61.0
20°	279.7	257.3	233.1	206.2	180.2	155.1	133.6	107.6	80.7	58.3	38.5
22.5°	280.6	256.4	228.6	199.0	171.2	143.4	116.5	88.7	60.1	37.7	20.6
25°	285.1	257.3	224.1	190.9	161.4	130.0	100.4	66.3	41.2	21.5	13.4
27.5°	277.9	249.2	213.4	179.3	146.1	112.1	78.0	46.6	22.4	10.8	8.1
30°	276.1	241.1	202.6	166.7	129.1	92.3	56.5	27.8	11.7	8.1	6.3
32.5°	263.6	228.6	188.3	147.9	107.6	68.1	35.9	13.4	7.2	5.4	5.4
35°	253.7	214.3	170.3	127.3	87.0	47.5	19.7	9.0	6.3	4.5	4.5
37.5°	239.4	196.3	150.6	105.8	64.5	29.6	11.7	7.2	5.4	3.6	2.7
40°	224.1	176.6	128.2	83.4	43.0	14.3	7.2	5.4	6.3	2.7	1.8
42.5°	200.8	152.4	104.0	58.3	23.3	7.2	6.3	3.6	2.7	1.8	1.8
45°	174.8	123.7	75.3	34.1	9.0	4.5	1.8	2.7	0.0	0.0	0.0
47.5°	150.6	99.5	55.6	20.6	9.0	5.4	4.5	3.6	2.7	1.8	2.7
50°	121.9	70.8	30.5	9.0	6.3	3.6	2.7	0.9	2.7	0.9	0.0
52.5°	89.6	48.4	14.3	7.2	5.4	2.7	2.7	0.9	0.9	1.8	0.9
55°	61.9	26.0	8.1	6.3	4.5	2.7	1.8	2.7	0.9	0.0	0.0
57.5°	37.7	11.7	7.2	6.3	3.6	4.5	1.8	0.9	1.8	0.9	0.9
60°	17.9	9.0	6.3	4.5	2.7	1.8	0.9	0.9	0.9	0.9	0.9
62.5°	9.0	5.4	4.5	2.7	1.8	0.0	0.9	0.9	0.0	0.0	0.9
65°	7.2	5.4	4.5	1.8	2.7	1.8	0.9	0.9	0.0	0.0	0.0
67.5°	4.5	4.5	2.7	0.9	0.9	0.9	0.0	0.9	0.0	0.0	0.0
70°	3.6	3.6	1.8	1.8	0.9	0.9	0.0	0.0	0.9	0.0	0.9
72.5°	3.6	2.7	0.9	1.8	0.9	0.9	0.0	0.0	0.0	0.9	0.0
75°	1.8	1.8	1.8	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	1.8	1.8	1.8	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
80°	2.7	2.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9
82.5°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.0	0.0	0.9	0.9
85°	0.9	1.8	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9	0.0	0.0	0.9
90°	0.9	1.8	0.9	0.9	1.8	0.0	0.0	0.0	0.0	0.9	0.9
92.5°	0.0	1.8	0.0	0.9	0.9	0.9	0.0	0.0	0.9	0.0	0.0
95°	0.0	1.8	0.9	0.9	1.8	0.9	0.9	0.9	0.9	0.9	0.9
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.9	0.0	0.9	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: P123858

CATALOG NUMBER: ELSG406927TBZ (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: P123858

CATALOG NUMBER: ELSG406927TBZ (35° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2	171.2
2.5°	167.6	165.8	163.2	163.2	162.3	160.5	159.6	158.7	156.9	154.2	155.1
5°	153.3	148.8	144.3	139.8	136.3	133.6	129.1	124.6	121.9	122.8	120.1
7.5°	136.3	128.2	121.0	113.0	105.8	99.5	94.1	88.7	82.5	79.8	76.2
10°	115.6	103.1	93.2	84.3	73.5	64.5	58.3	52.0	44.8	42.1	37.7
12.5°	92.3	78.0	66.3	54.7	43.0	35.0	28.7	22.4	17.9	15.2	14.3
15°	67.2	51.1	38.5	27.8	18.8	16.1	10.8	10.8	9.9	9.0	9.0
17.5°	44.8	28.7	19.7	12.6	10.8	9.0	9.0	9.0	8.1	8.1	6.3
20°	22.4	13.4	9.9	8.1	6.3	6.3	6.3	5.4	4.5	3.6	3.6
22.5°	14.3	11.7	7.2	5.4	8.1	5.4	4.5	3.6	2.7	2.7	1.8
25°	9.0	7.2	6.3	5.4	3.6	4.5	3.6	2.7	1.8	2.7	1.8
27.5°	6.3	5.4	4.5	2.7	1.8	2.7	0.9	1.8	0.9	0.9	0.9
30°	4.5	3.6	6.3	1.8	1.8	3.6	2.7	1.8	0.0	4.5	1.8
32.5°	2.7	0.9	0.9	1.8	0.0	0.0	0.0	0.9	0.0	0.0	0.0
35°	2.7	0.9	0.9	0.0	1.8	0.0	0.9	0.0	0.0	0.0	0.0
37.5°	1.8	1.8	0.9	0.0	0.9	0.0	0.0	0.0	0.9	0.0	0.0
40°	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.9	0.9	0.0	1.8	0.0	0.0	0.0	1.8	0.0	0.0	0.0
50°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.9	0.9	0.0	0.0
55°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.9	0.0	0.0	0.0	0.9	0.0	0.9	0.0	0.0	0.9
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	0.9	0.0	1.8	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	0.9	0.9	0.0	0.0	0.9	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	0.9	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	0.9	0.0	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9
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°	0.9	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.9	0.0	0.9	0.9	0.0	0.0	0.9	0.0	0.0
92.5°	0.9	0.0	0.0	0.9	0.0	0.9	0.0	0.9	0.9	0.9	0.0
95°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.9	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: P123858

CATALOG NUMBER: ELSG406927TBZ (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: P123858

CATALOG NUMBER: ELSG406927TBZ (35° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	171.2	171.2	171.2	171.2
2.5°	153.3	154.2	152.4	153.3
5°	115.6	114.7	115.6	114.7
7.5°	72.6	72.6	70.8	69.9
10°	35.0	34.1	32.3	31.4
12.5°	13.4	13.4	12.6	12.6
15°	9.0	8.1	9.0	8.1
17.5°	6.3	7.2	5.4	7.2
20°	4.5	3.6	3.6	4.5
22.5°	1.8	1.8	2.7	0.9
25°	1.8	1.8	1.8	0.9
27.5°	0.9	0.9	0.9	0.9
30°	0.0	0.9	0.9	1.8
32.5°	0.0	0.0	0.0	0.0
35°	0.0	1.8	0.0	0.0
37.5°	0.0	0.0	0.9	0.0
40°	0.0	0.0	0.9	0.0
42.5°	0.9	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.9	0.0	0.9	2.7
50°	0.0	0.9	0.0	0.0
52.5°	0.9	0.0	0.9	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.9	0.9	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.0	1.8	0.0	0.0
67.5°	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.9
72.5°	0.0	0.0	0.9	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	0.9	0.0
90°	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0
95°	0.9	0.0	0.9	0.9
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: P123858

CATALOG NUMBER: ELSG406927TBZ (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)