

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: P123860

Luminaire Tested: **ELSG406935TBZ (35° BEAM - 35° TILT)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P123860  
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: ELSG406935TBZ (35° BEAM - 35° TILT)  
Description: HALO 4 INCH RECESSED FIXTURE WITH SQUARE TUSCAN BRONZE TRIM,  
Light Source: (1)SURFACE MOUNT LED, 3500K CCT, 90CRI  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 760.0 lumens  
Efficiency: N/A  
Efficacy: 58.5 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

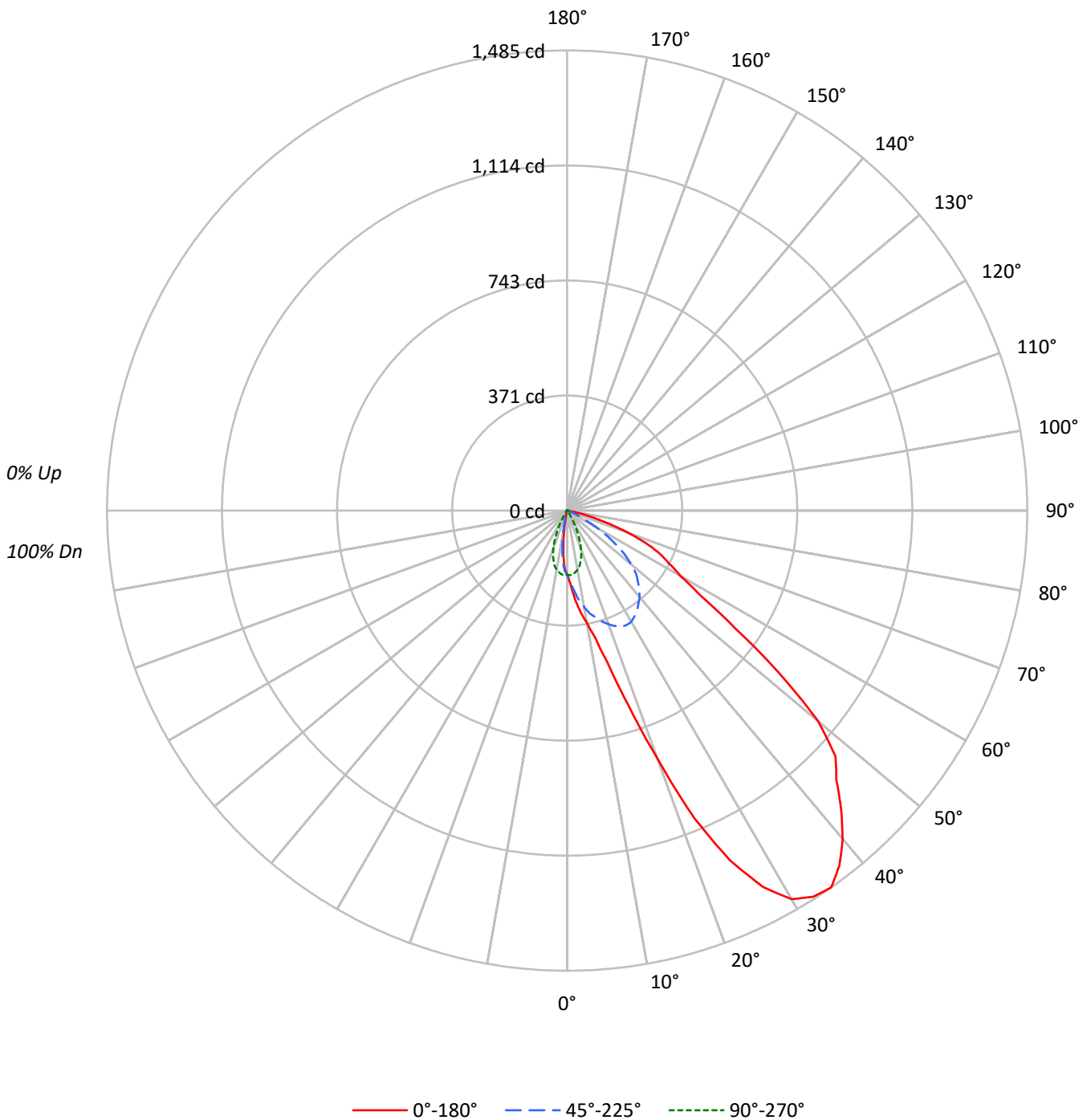
Input Watts (W): 13  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P123860

CATALOG NUMBER: ELSG406935TBZ (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	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°	101932	101932	101932
5°	133938	96923	64928
10°	166118	87203	17026
15°	223674	73612	4233
20°	362800	55330	2302
25°	522951	33582	462
30°	603220	13956	916
35°	618568	4499	0
40°	580635	2729	0
45°	523751	1364	0
50°	461142	480	0
55°	298174	1442	0
60°	198933	516	0
65°	163327	543	0
70°	110667	0	577
75°	47658	0	0
80°	8011	0	0
85°	4446	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.6	2.6
10°-20°	59.3	7.8
20°-30°	131.7	17.3
30°-40°	188.5	24.8
40°-50°	175.8	23.1
50°-60°	109.8	14.5
60°-70°	57.3	7.5
70°-80°	15.2	2.0
80°-90°	2.0	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°	210.5	27.7
0°-40°	399.1	52.5
0°-60°	684.7	90.1
0°-90°	759.3	99.9
90°-120°	0.8	0.1
90°-150°	0.8	0.1
90°-180°	1.0	0.1
0°-180°	760.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	207	207	207	207	207	
5°	286	260	207	161	138	30
15°	513	357	169	20	10	163
25°	1246	414	80	5	1	568
35°	1485	394	11	0	0	913
45°	1228	322	3	0	0	952
55°	662	197	3	0	0	617
65°	331	40	1	0	0	321
75°	84	5	0	0	0	99
85°	6	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: P123860

CATALOG NUMBER: ELSG406935TBZ (35° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6
2.5°	235.8	234.7	234.7	234.7	232.5	232.5	232.5	231.4	229.3	227.1	224.9
5°	285.5	284.4	283.3	281.2	277.9	277.9	273.6	269.3	267.1	259.5	255.2
7.5°	329.8	327.7	326.6	323.3	320.1	316.9	310.4	307.1	297.4	290.9	282.3
10°	368.8	367.7	364.4	361.2	358.0	352.5	345.0	336.3	327.7	316.9	306.0
12.5°	421.8	419.6	415.3	407.7	396.9	387.1	376.3	364.4	351.5	340.6	324.4
15°	512.6	509.4	496.4	482.3	458.5	438.0	415.3	393.6	375.3	356.9	341.7
17.5°	658.6	648.9	627.2	595.9	554.8	512.6	469.3	432.6	400.1	375.3	353.6
20°	851.1	839.2	800.3	747.3	679.1	608.8	538.5	474.7	428.2	390.4	362.3
22.5°	1076.0	1056.6	1006.8	931.1	829.5	721.3	617.5	525.6	454.2	403.4	368.8
25°	1245.8	1232.8	1184.2	1106.3	980.9	835.9	695.4	572.1	476.9	414.2	370.9
27.5°	1369.1	1350.7	1301.0	1225.3	1103.1	937.6	760.2	608.8	494.2	416.3	370.9
30°	1448.0	1435.1	1384.2	1303.1	1179.8	1007.9	804.6	628.3	500.7	414.2	367.7
32.5°	1477.2	1465.3	1424.2	1342.0	1214.4	1041.4	818.6	626.1	486.6	404.5	358.0
35°	1484.8	1464.2	1423.2	1343.1	1214.4	1037.1	804.6	606.7	471.5	393.6	348.2
37.5°	1443.7	1428.6	1392.9	1310.7	1186.3	998.2	764.6	571.0	446.6	378.5	335.2
40°	1383.1	1374.5	1335.6	1257.7	1133.3	931.1	701.8	522.3	420.7	363.4	317.9
42.5°	1308.5	1297.7	1263.1	1191.7	1052.2	833.8	622.9	474.7	393.6	345.0	299.6
45°	1228.5	1219.8	1185.2	1105.2	932.2	720.2	539.6	428.2	367.7	322.3	271.4
47.5°	1174.4	1160.4	1102.0	977.6	792.7	606.7	474.7	395.8	348.2	301.7	244.4
50°	1056.6	1028.4	943.0	807.8	642.4	507.2	420.7	366.6	324.4	271.4	213.0
52.5°	864.1	832.7	749.4	638.0	522.3	436.9	381.7	339.6	294.1	235.8	173.0
55°	661.8	639.1	578.6	507.2	440.1	389.3	349.3	309.3	259.5	196.8	131.9
57.5°	509.4	499.6	466.1	428.2	390.4	355.8	319.0	274.7	218.4	153.6	96.2
60°	423.9	417.4	399.0	380.7	352.5	321.2	282.3	231.4	174.1	111.4	59.5
62.5°	372.0	367.7	354.7	339.6	313.6	281.2	235.8	180.6	124.4	71.4	29.2
65°	330.9	326.6	316.9	302.8	273.6	234.7	186.0	134.1	85.4	40.0	16.2
67.5°	276.8	275.8	267.1	249.8	217.4	178.4	131.9	86.5	47.6	17.3	8.7
70°	210.9	209.8	203.3	187.1	159.0	124.4	88.7	48.7	20.5	9.7	6.5
72.5°	141.7	139.5	136.3	124.4	103.8	77.9	49.7	21.6	9.7	8.7	7.6
75°	84.4	83.3	82.2	74.6	62.7	41.1	19.5	9.7	8.7	5.4	2.2
77.5°	40.0	41.1	41.1	38.9	29.2	15.1	10.8	8.7	6.5	5.4	3.2
80°	13.0	14.1	14.1	13.0	11.9	9.7	8.7	5.4	4.3	3.2	4.3
82.5°	9.7	9.7	9.7	8.7	8.7	6.5	6.5	5.4	4.3	4.3	2.2
85°	6.5	6.5	6.5	5.4	4.3	5.4	4.3	3.2	3.2	2.2	2.2
87.5°	5.4	5.4	3.2	4.3	4.3	3.2	3.2	3.2	2.2	2.2	1.1
90°	4.3	3.2	4.3	3.2	4.3	3.2	3.2	2.2	4.3	2.2	1.1
92.5°	1.1	2.2	2.2	1.1	3.2	2.2	3.2	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



TEST NUMBER: P123860

CATALOG NUMBER: ELSG406935TBZ (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: P123860

CATALOG NUMBER: ELSG406935TBZ (35° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6
2.5°	222.8	221.7	219.5	218.4	216.3	214.1	210.9	208.7	207.6	206.6	204.4
5°	250.9	245.5	236.8	232.5	228.2	220.6	212.0	206.6	203.3	195.7	191.4
7.5°	272.5	263.9	253.1	242.2	232.5	220.6	208.7	201.1	190.3	182.8	173.0
10°	294.1	280.1	266.0	249.8	235.8	219.5	205.5	193.6	180.6	167.6	153.6
12.5°	308.2	293.1	275.8	255.2	235.8	215.2	199.0	183.8	165.5	147.1	131.9
15°	322.3	301.7	280.1	256.3	232.5	208.7	189.2	168.7	146.0	124.4	102.7
17.5°	332.0	308.2	282.3	256.3	227.1	201.1	177.4	151.4	124.4	98.4	73.5
20°	337.4	310.4	281.2	248.7	217.4	187.1	161.1	129.8	97.3	70.3	46.5
22.5°	338.5	309.3	275.8	240.1	206.6	173.0	140.6	107.1	72.5	45.4	24.9
25°	343.9	310.4	270.4	230.3	194.7	156.8	121.1	80.0	49.7	26.0	16.2
27.5°	335.2	300.6	257.4	216.3	176.3	135.2	94.1	56.2	27.0	13.0	9.7
30°	333.1	290.9	244.4	201.1	155.7	111.4	68.1	33.5	14.1	9.7	7.6
32.5°	317.9	275.8	227.1	178.4	129.8	82.2	43.3	16.2	8.7	6.5	6.5
35°	306.0	258.5	205.5	153.6	104.9	57.3	23.8	10.8	7.6	5.4	5.4
37.5°	288.7	236.8	181.7	127.6	77.9	35.7	14.1	8.7	6.5	4.3	3.2
40°	270.4	213.0	154.6	100.6	51.9	17.3	8.7	6.5	7.6	3.2	2.2
42.5°	242.2	183.8	125.4	70.3	28.1	8.7	7.6	4.3	3.2	2.2	2.2
45°	210.9	149.2	90.8	41.1	10.8	5.4	2.2	3.2	0.0	0.0	0.0
47.5°	181.7	120.0	67.0	24.9	10.8	6.5	5.4	4.3	3.2	2.2	3.2
50°	147.1	85.4	36.8	10.8	7.6	4.3	3.2	1.1	3.2	1.1	0.0
52.5°	108.1	58.4	17.3	8.7	6.5	3.2	3.2	1.1	1.1	2.2	1.1
55°	74.6	31.4	9.7	7.6	5.4	3.2	2.2	3.2	1.1	0.0	0.0
57.5°	45.4	14.1	8.7	7.6	4.3	5.4	2.2	1.1	2.2	1.1	1.1
60°	21.6	10.8	7.6	5.4	3.2	2.2	1.1	1.1	1.1	1.1	1.1
62.5°	10.8	6.5	5.4	3.2	2.2	0.0	1.1	1.1	0.0	0.0	1.1
65°	8.7	6.5	5.4	2.2	3.2	2.2	1.1	1.1	0.0	0.0	0.0
67.5°	5.4	5.4	3.2	1.1	1.1	1.1	0.0	1.1	0.0	0.0	0.0
70°	4.3	4.3	2.2	2.2	1.1	1.1	0.0	0.0	1.1	0.0	1.1
72.5°	4.3	3.2	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°	3.2	3.2	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: P123860

CATALOG NUMBER: ELSG406935TBZ (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: P123860

CATALOG NUMBER: ELSG406935TBZ (35° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6
2.5°	202.2	200.1	196.8	196.8	195.7	193.6	192.5	191.4	189.2	186.0	187.1
5°	184.9	179.5	174.1	168.7	164.4	161.1	155.7	150.3	147.1	148.2	144.9
7.5°	164.4	154.6	146.0	136.3	127.6	120.0	113.5	107.1	99.5	96.2	91.9
10°	139.5	124.4	112.5	101.7	88.7	77.9	70.3	62.7	54.1	50.8	45.4
12.5°	111.4	94.1	80.0	66.0	51.9	42.2	34.6	27.0	21.6	18.4	17.3
15°	81.1	61.6	46.5	33.5	22.7	19.5	13.0	13.0	11.9	10.8	10.8
17.5°	54.1	34.6	23.8	15.1	13.0	10.8	10.8	10.8	9.7	9.7	7.6
20°	27.0	16.2	11.9	9.7	7.6	7.6	7.6	6.5	5.4	4.3	4.3
22.5°	17.3	14.1	8.7	6.5	9.7	6.5	5.4	4.3	3.2	3.2	2.2
25°	10.8	8.7	7.6	6.5	4.3	5.4	4.3	3.2	2.2	3.2	2.2
27.5°	7.6	6.5	5.4	3.2	2.2	3.2	1.1	2.2	1.1	1.1	1.1
30°	5.4	4.3	7.6	2.2	2.2	4.3	3.2	2.2	0.0	5.4	2.2
32.5°	3.2	1.1	1.1	2.2	0.0	0.0	0.0	1.1	0.0	0.0	0.0
35°	3.2	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: P123860

CATALOG NUMBER: ELSG406935TBZ (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: P123860

CATALOG NUMBER: ELSG406935TBZ (35° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	206.6	206.6	206.6	206.6
2.5°	184.9	186.0	183.8	184.9
5°	139.5	138.4	139.5	138.4
7.5°	87.6	87.6	85.4	84.4
10°	42.2	41.1	38.9	37.8
12.5°	16.2	16.2	15.1	15.1
15°	10.8	9.7	10.8	9.7
17.5°	7.6	8.7	6.5	8.7
20°	5.4	4.3	4.3	5.4
22.5°	2.2	2.2	3.2	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	3.2
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: P123860

CATALOG NUMBER: ELSG406935TBZ (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)