

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: P123861

Luminaire Tested: **ELSG406940TBZ (35° BEAM - 35° TILT)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P123861  
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: ELSG406940TBZ (35° BEAM - 35° TILT)  
Description: HALO 4 INCH RECESSED FIXTURE WITH SQUARE TUSCAN BRONZE TRIM,  
Light Source: (1)SURFACE MOUNT LED, 4000K CCT, 90CRI  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 800.0 lumens  
Efficiency: N/A  
Efficacy: 61.5 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

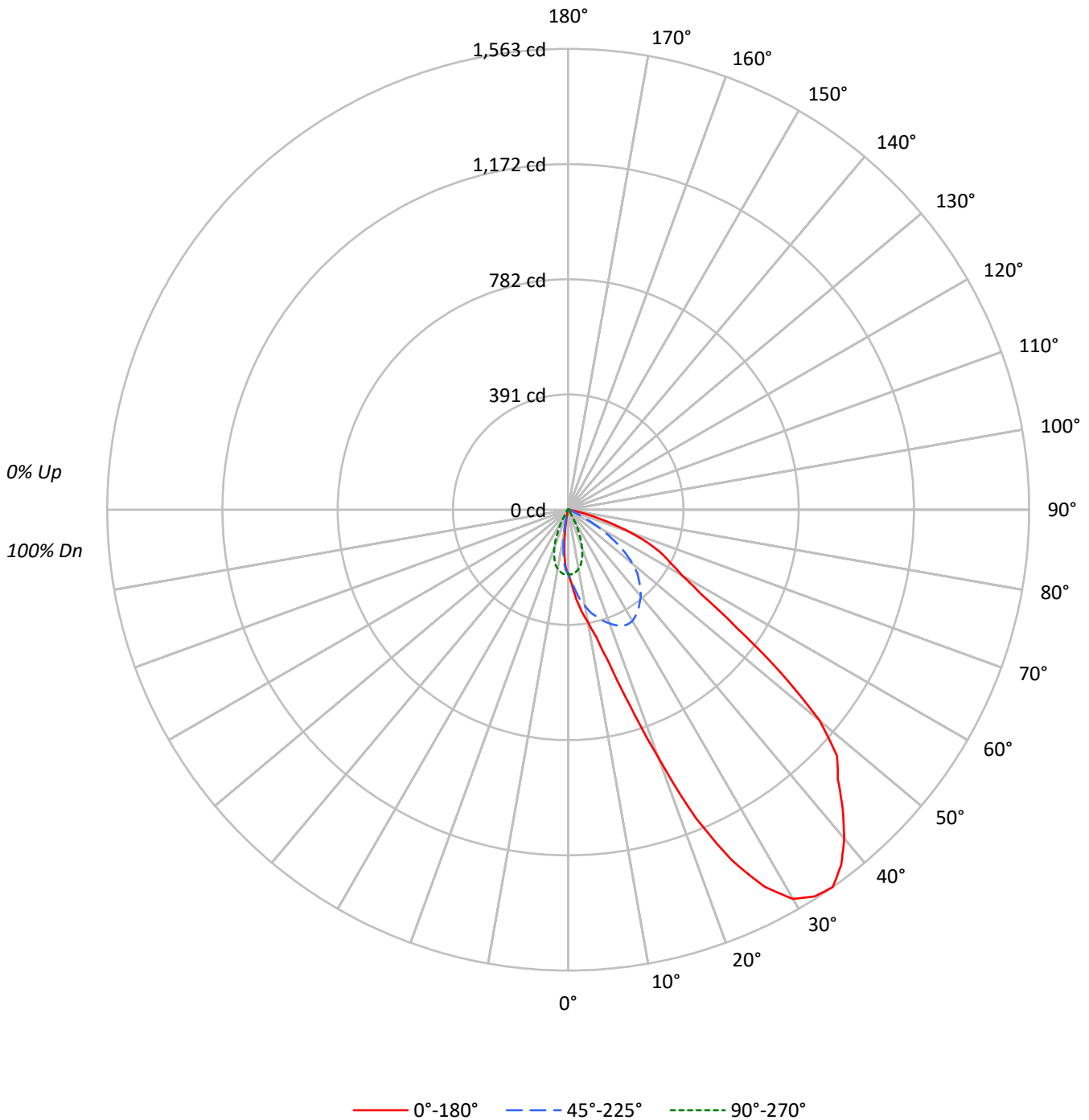
Input Watts (W): 13  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P123861

CATALOG NUMBER: ELSG406940TBZ (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	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	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°	107261	107261	107261
5°	140975	101990	68353
10°	174857	91797	17927
15°	235455	77496	4451
20°	381897	58229	2430
25°	550488	35345	462
30°	634964	14706	958
35°	651104	4749	0
40°	611197	2855	0
45°	551334	1450	0
50°	485409	480	0
55°	313898	1532	0
60°	209398	516	0
65°	171915	543	0
70°	116491	0	577
75°	50143	0	0
80°	8443	0	0
85°	4651	0	0



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CATALOG NUMBER: ELSG406940TBZ (35° BEAM - 35° TILT)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.6	2.6
10°-20°	62.4	7.8
20°-30°	138.6	17.3
30°-40°	198.5	24.8
40°-50°	185.1	23.1
50°-60°	115.6	14.5
60°-70°	60.3	7.5
70°-80°	16.0	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°	221.6	27.7
0°-40°	420.1	52.5
0°-60°	720.8	90.1
0°-90°	799.2	99.9
90°-120°	0.8	0.1
90°-150°	0.8	0.1
90°-180°	1.0	0.1
0°-180°	800.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	217	217	217	217	217	
5°	300	273	217	170	146	31
15°	540	376	178	20	10	172
25°	1311	436	84	6	1	598
35°	1563	414	11	0	0	962
45°	1293	339	3	0	0	1002
55°	697	207	3	0	0	649
65°	348	42	1	0	0	337
75°	89	6	0	0	0	104
85°	7	2	0	0	0	7
90°	5	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: P123861

CATALOG NUMBER: ELSG406940TBZ (35° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	217.4	217.4	217.4	217.4	217.4	217.4	217.4	217.4	217.4	217.4	217.4
2.5°	248.2	247.0	247.0	247.0	244.7	244.7	244.7	243.6	241.3	239.1	236.8
5°	300.5	299.4	298.2	296.0	292.6	292.6	288.0	283.4	281.2	273.2	268.6
7.5°	347.2	344.9	343.8	340.4	336.9	333.5	326.7	323.3	313.0	306.2	297.1
10°	388.2	387.0	383.6	380.2	376.8	371.1	363.1	354.0	344.9	333.5	322.2
12.5°	444.0	441.7	437.1	429.2	417.8	407.5	396.1	383.6	370.0	358.6	341.5
15°	539.6	536.2	522.5	507.7	482.7	461.0	437.1	414.4	395.0	375.7	359.7
17.5°	693.3	683.0	660.2	627.2	584.0	539.6	494.0	455.3	421.2	395.0	372.2
20°	895.9	883.4	842.4	786.6	714.9	640.9	566.9	499.7	450.8	410.9	381.3
22.5°	1132.6	1112.2	1059.8	980.1	873.1	759.3	650.0	553.2	478.1	424.6	388.2
25°	1311.4	1297.7	1246.5	1164.5	1032.5	879.9	732.0	602.2	502.0	436.0	390.5
27.5°	1441.1	1421.8	1369.4	1289.7	1161.1	986.9	800.3	640.9	520.2	438.3	390.5
30°	1524.2	1510.6	1457.1	1371.7	1241.9	1060.9	846.9	661.4	527.1	436.0	387.0
32.5°	1555.0	1542.5	1499.2	1412.7	1278.4	1096.2	861.7	659.1	512.3	425.7	376.8
35°	1562.9	1541.3	1498.1	1413.8	1278.4	1091.7	846.9	638.6	496.3	414.4	366.5
37.5°	1519.7	1503.7	1466.2	1379.7	1248.8	1050.7	804.8	601.0	470.1	398.4	352.9
40°	1455.9	1446.8	1405.9	1323.9	1193.0	980.1	738.8	549.8	442.8	382.5	334.7
42.5°	1377.4	1366.0	1329.6	1254.5	1107.6	877.7	655.7	499.7	414.4	363.1	315.3
45°	1293.2	1284.0	1247.6	1163.4	981.3	758.1	568.0	450.8	387.0	339.2	285.7
47.5°	1236.2	1221.4	1160.0	1029.1	834.4	638.6	499.7	416.6	366.5	317.6	257.3
50°	1112.2	1082.6	992.6	850.3	676.2	533.9	442.8	385.9	341.5	285.7	224.3
52.5°	909.5	876.5	788.9	671.6	549.8	459.9	401.8	357.4	309.6	248.2	182.1
55°	696.7	672.8	609.0	533.9	463.3	409.8	367.7	325.6	273.2	207.2	138.9
57.5°	536.2	525.9	490.6	450.8	410.9	374.5	335.8	289.1	229.9	161.6	101.3
60°	446.2	439.4	420.0	400.7	371.1	338.1	297.1	243.6	183.3	117.2	62.6
62.5°	391.6	387.0	373.4	357.4	330.1	296.0	248.2	190.1	130.9	75.1	30.7
65°	348.3	343.8	333.5	318.7	288.0	247.0	195.8	141.2	89.9	42.1	17.1
67.5°	291.4	290.3	281.2	263.0	228.8	187.8	138.9	91.1	50.1	18.2	9.1
70°	222.0	220.8	214.0	196.9	167.3	130.9	93.3	51.2	21.6	10.2	6.8
72.5°	149.1	146.8	143.4	130.9	109.3	82.0	52.4	22.8	10.2	9.1	8.0
75°	88.8	87.7	86.5	78.5	66.0	43.3	20.5	10.2	9.1	5.7	2.3
77.5°	42.1	43.3	43.3	41.0	30.7	15.9	11.4	9.1	6.8	5.7	3.4
80°	13.7	14.8	14.8	13.7	12.5	10.2	9.1	5.7	4.6	3.4	4.6
82.5°	10.2	10.2	10.2	9.1	9.1	6.8	6.8	5.7	4.6	4.6	2.3
85°	6.8	6.8	6.8	5.7	4.6	5.7	4.6	3.4	3.4	2.3	2.3
87.5°	5.7	5.7	3.4	4.6	4.6	3.4	3.4	3.4	2.3	2.3	1.1
90°	4.6	3.4	4.6	3.4	4.6	3.4	3.4	2.3	4.6	2.3	1.1
92.5°	1.1	2.3	2.3	1.1	3.4	2.3	3.4	1.1	1.1	1.1	2.3
95°	1.1	2.3	2.3	1.1	2.3	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: P123861

CATALOG NUMBER: ELSG406940TBZ (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: P123861

CATALOG NUMBER: ELSG406940TBZ (35° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	217.4	217.4	217.4	217.4	217.4	217.4	217.4	217.4	217.4	217.4	217.4
2.5°	234.5	233.4	231.1	229.9	227.7	225.4	222.0	219.7	218.6	217.4	215.1
5°	264.1	258.4	249.3	244.7	240.2	232.2	223.1	217.4	214.0	206.0	201.5
7.5°	286.9	277.8	266.4	255.0	244.7	232.2	219.7	211.7	200.3	192.4	182.1
10°	309.6	294.8	280.0	263.0	248.2	231.1	216.3	203.8	190.1	176.4	161.6
12.5°	324.4	308.5	290.3	268.6	248.2	226.5	209.5	193.5	174.2	154.8	138.9
15°	339.2	317.6	294.8	269.8	244.7	219.7	199.2	177.6	153.7	130.9	108.1
17.5°	349.5	324.4	297.1	269.8	239.1	211.7	186.7	159.4	130.9	103.6	77.4
20°	355.2	326.7	296.0	261.8	228.8	196.9	169.6	136.6	102.5	74.0	48.9
22.5°	356.3	325.6	290.3	252.7	217.4	182.1	148.0	112.7	76.3	47.8	26.2
25°	362.0	326.7	284.6	242.5	204.9	165.1	127.5	84.2	52.4	27.3	17.1
27.5°	352.9	316.5	270.9	227.7	185.5	142.3	99.0	59.2	28.5	13.7	10.2
30°	350.6	306.2	257.3	211.7	163.9	117.2	71.7	35.3	14.8	10.2	8.0
32.5°	334.7	290.3	239.1	187.8	136.6	86.5	45.5	17.1	9.1	6.8	6.8
35°	322.2	272.1	216.3	161.6	110.4	60.3	25.0	11.4	8.0	5.7	5.7
37.5°	303.9	249.3	191.2	134.3	82.0	37.6	14.8	9.1	6.8	4.6	3.4
40°	284.6	224.3	162.8	105.9	54.6	18.2	9.1	6.8	8.0	3.4	2.3
42.5°	255.0	193.5	132.0	74.0	29.6	9.1	8.0	4.6	3.4	2.3	2.3
45°	222.0	157.1	95.6	43.3	11.4	5.7	2.3	3.4	0.0	0.0	0.0
47.5°	191.2	126.4	70.6	26.2	11.4	6.8	5.7	4.6	3.4	2.3	3.4
50°	154.8	89.9	38.7	11.4	8.0	4.6	3.4	1.1	3.4	1.1	0.0
52.5°	113.8	61.5	18.2	9.1	6.8	3.4	3.4	1.1	1.1	2.3	1.1
55°	78.5	33.0	10.2	8.0	5.7	3.4	2.3	3.4	1.1	0.0	0.0
57.5°	47.8	14.8	9.1	8.0	4.6	5.7	2.3	1.1	2.3	1.1	1.1
60°	22.8	11.4	8.0	5.7	3.4	2.3	1.1	1.1	1.1	1.1	1.1
62.5°	11.4	6.8	5.7	3.4	2.3	0.0	1.1	1.1	0.0	0.0	1.1
65°	9.1	6.8	5.7	2.3	3.4	2.3	1.1	1.1	0.0	0.0	0.0
67.5°	5.7	5.7	3.4	1.1	1.1	1.1	0.0	1.1	0.0	0.0	0.0
70°	4.6	4.6	2.3	2.3	1.1	1.1	0.0	0.0	1.1	0.0	1.1
72.5°	4.6	3.4	1.1	2.3	1.1	1.1	0.0	0.0	0.0	1.1	0.0
75°	2.3	2.3	2.3	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	2.3	2.3	2.3	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	3.4	3.4	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1
82.5°	2.3	2.3	2.3	2.3	2.3	1.1	1.1	0.0	0.0	1.1	1.1
85°	1.1	2.3	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	2.3	1.1	1.1	2.3	0.0	0.0	0.0	0.0	1.1	1.1
92.5°	0.0	2.3	0.0	1.1	1.1	1.1	0.0	0.0	1.1	0.0	0.0
95°	0.0	2.3	1.1	1.1	2.3	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: P123861

CATALOG NUMBER: ELSG406940TBZ (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: P123861

CATALOG NUMBER: ELSG406940TBZ (35° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	217.4	217.4	217.4	217.4	217.4	217.4	217.4	217.4	217.4	217.4	217.4
2.5°	212.9	210.6	207.2	207.2	206.0	203.8	202.6	201.5	199.2	195.8	196.9
5°	194.7	189.0	183.3	177.6	173.0	169.6	163.9	158.2	154.8	156.0	152.5
7.5°	173.0	162.8	153.7	143.4	134.3	126.4	119.5	112.7	104.7	101.3	96.8
10°	146.8	130.9	118.4	107.0	93.3	82.0	74.0	66.0	56.9	53.5	47.8
12.5°	117.2	99.0	84.2	69.4	54.6	44.4	36.4	28.5	22.8	19.4	18.2
15°	85.4	64.9	48.9	35.3	23.9	20.5	13.7	13.7	12.5	11.4	11.4
17.5°	56.9	36.4	25.0	15.9	13.7	11.4	11.4	11.4	10.2	10.2	8.0
20°	28.5	17.1	12.5	10.2	8.0	8.0	8.0	6.8	5.7	4.6	4.6
22.5°	18.2	14.8	9.1	6.8	10.2	6.8	5.7	4.6	3.4	3.4	2.3
25°	11.4	9.1	8.0	6.8	4.6	5.7	4.6	3.4	2.3	3.4	2.3
27.5°	8.0	6.8	5.7	3.4	2.3	3.4	1.1	2.3	1.1	1.1	1.1
30°	5.7	4.6	8.0	2.3	2.3	4.6	3.4	2.3	0.0	5.7	2.3
32.5°	3.4	1.1	1.1	2.3	0.0	0.0	0.0	1.1	0.0	0.0	0.0
35°	3.4	1.1	1.1	0.0	2.3	0.0	1.1	0.0	0.0	0.0	0.0
37.5°	2.3	2.3	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°	2.3	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	2.3	0.0	0.0	0.0	2.3	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°	2.3	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	2.3	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: P123861

CATALOG NUMBER: ELSG406940TBZ (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: P123861

CATALOG NUMBER: ELSG406940TBZ (35° BEAM - 35° TILT)

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	217.4	217.4	217.4	217.4
2.5°	194.7	195.8	193.5	194.7
5°	146.8	145.7	146.8	145.7
7.5°	92.2	92.2	89.9	88.8
10°	44.4	43.3	41.0	39.8
12.5°	17.1	17.1	15.9	15.9
15°	11.4	10.2	11.4	10.2
17.5°	8.0	9.1	6.8	9.1
20°	5.7	4.6	4.6	5.7
22.5°	2.3	2.3	3.4	1.1
25°	2.3	2.3	2.3	1.1
27.5°	1.1	1.1	1.1	1.1
30°	0.0	1.1	1.1	2.3
32.5°	0.0	0.0	0.0	0.0
35°	0.0	2.3	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	3.4
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	2.3	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: P123861

CATALOG NUMBER: ELSG406940TBZ (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)