

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: P123868

Luminaire Tested: **ELSG406935WH (35° BEAM - 35° TILT)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123868
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: ELSG406935WH (35° BEAM - 35° TILT)
Description: HALO 4 INCH RECESSED FIXTURE WITH SQUARE WHITE TRIM,
Light Source: (1)SURFACE MOUNT LED, 3500K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 810.1 lumens
Efficiency: N/A
Efficacy: 62.3 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

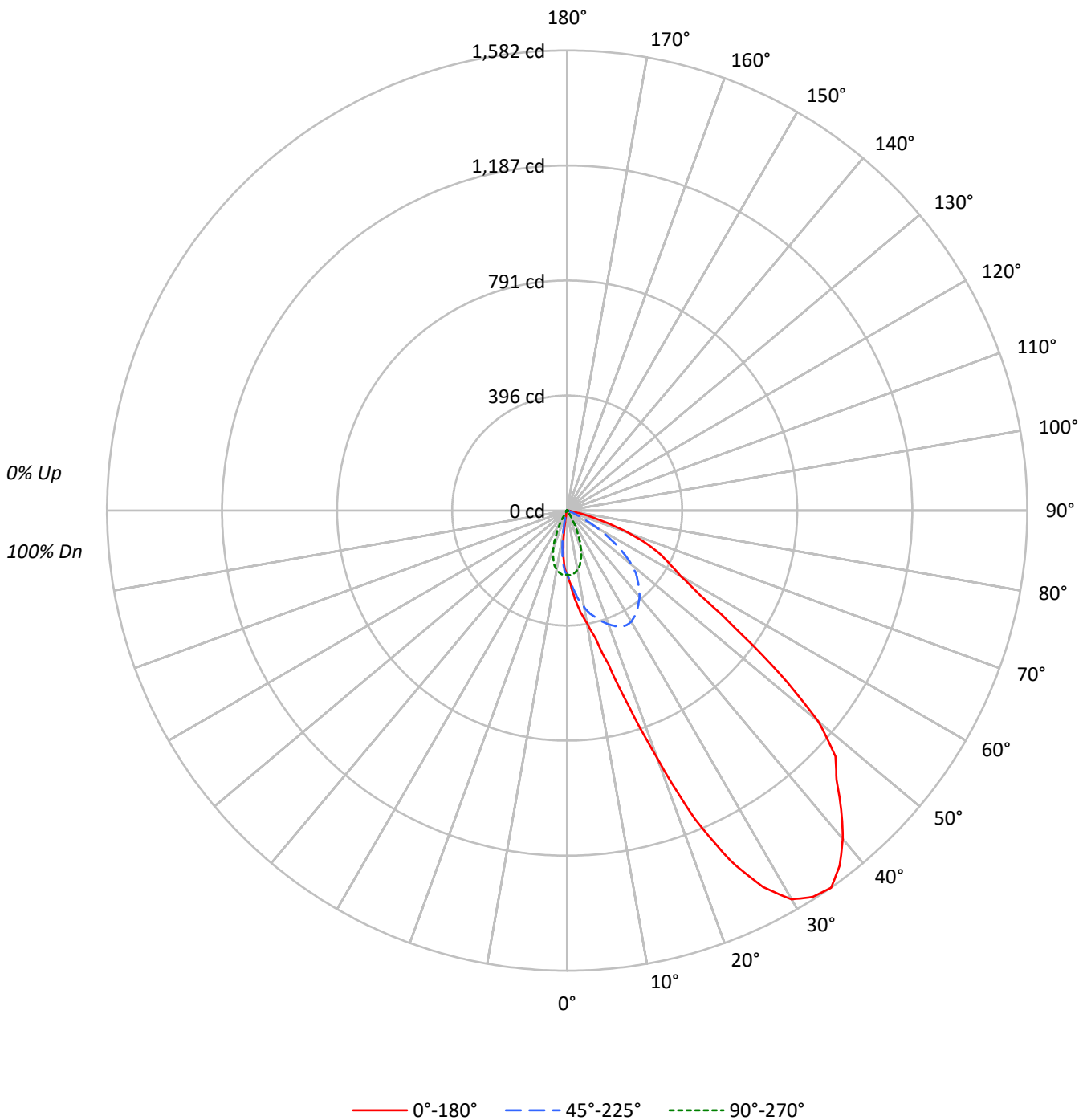
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: ELSG406935WH (35° BEAM - 35° TILT)

Luminous Intensity Polar Plot





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CATALOG NUMBER: ELSG406935WH (35° 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	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°	108593	108593	108593
5°	142758	103257	69197
10°	177019	92923	18152
15°	238379	78456	4538
20°	386672	58953	2472
25°	557372	35806	504
30°	642921	14872	958
35°	659270	4791	0
40°	618837	2897	0
45°	558198	1492	0
50°	491475	524	0
55°	317818	1577	0
60°	212026	563	0
65°	174087	592	0
70°	117961	0	630
75°	50764	0	0
80°	8504	0	0
85°	4719	0	0



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CATALOG NUMBER: ELSG406935WH (35° BEAM - 35° TILT)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.9	2.6
10°-20°	63.2	7.8
20°-30°	140.3	17.3
30°-40°	200.9	24.8
40°-50°	187.4	23.1
50°-60°	117.1	14.5
60°-70°	61.1	7.5
70°-80°	16.2	2.0
80°-90°	2.2	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°	224.4	27.7
0°-40°	425.3	52.5
0°-60°	729.8	90.1
0°-90°	809.2	99.9
90°-120°	0.8	0.1
90°-150°	0.8	0.1
90°-180°	1.0	0.1
0°-180°	810.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	220	220	220	220	220	
5°	304	277	220	172	148	32
15°	546	380	180	21	10	174
25°	1328	441	85	6	1	606
35°	1582	420	12	0	0	974
45°	1309	344	4	0	0	1014
55°	705	210	4	0	0	657
65°	353	43	1	0	0	342
75°	90	6	0	0	0	106
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: P123868

CATALOG NUMBER: ELSG406935WH (35° BEAM - 35° TILT)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	220.1	220.1	220.1	220.1	220.1	220.1	220.1	220.1	220.1	220.1	220.1
2.5°	251.3	250.1	250.1	250.1	247.8	247.8	247.8	246.7	244.3	242.0	239.7
5°	304.3	303.1	302.0	299.7	296.2	296.2	291.6	287.0	284.7	276.6	272.0
7.5°	351.5	349.2	348.1	344.6	341.2	337.7	330.8	327.3	317.0	310.0	300.8
10°	393.0	391.9	388.4	385.0	381.5	375.7	367.7	358.4	349.2	337.7	326.2
12.5°	449.5	447.2	442.6	434.5	423.0	412.6	401.1	388.4	374.6	363.1	345.8
15°	546.3	542.9	529.0	514.0	488.7	466.8	442.6	419.5	399.9	380.3	364.2
17.5°	701.9	691.5	668.5	635.1	591.3	546.3	500.2	461.0	426.5	399.9	376.9
20°	907.1	894.4	852.9	796.4	723.8	648.9	574.0	506.0	456.4	416.1	386.1
22.5°	1146.8	1126.1	1073.0	992.4	884.0	768.8	658.1	560.1	484.1	429.9	393.0
25°	1327.8	1313.9	1262.1	1179.1	1045.4	890.9	741.1	609.7	508.3	441.4	395.3
27.5°	1459.2	1439.6	1386.5	1305.9	1175.6	999.3	810.3	648.9	526.7	443.7	395.3
30°	1543.3	1529.5	1475.3	1388.8	1257.5	1074.2	857.5	669.6	533.6	441.4	391.9
32.5°	1574.4	1561.7	1517.9	1430.3	1294.3	1109.9	872.5	667.3	518.7	431.1	381.5
35°	1582.5	1560.6	1516.8	1431.5	1294.3	1105.3	857.5	646.6	502.5	419.5	371.1
37.5°	1538.7	1522.5	1484.5	1396.9	1264.4	1063.8	814.9	608.6	476.0	403.4	357.3
40°	1474.1	1464.9	1423.4	1340.4	1207.9	992.4	748.0	556.7	448.4	387.3	338.9
42.5°	1394.6	1383.1	1346.2	1270.1	1121.5	888.6	663.9	506.0	419.5	367.7	319.3
45°	1309.3	1300.1	1263.2	1177.9	993.5	767.6	575.1	456.4	391.9	343.5	289.3
47.5°	1251.7	1236.7	1174.5	1041.9	844.8	646.6	506.0	421.8	371.1	321.6	260.5
50°	1126.1	1096.1	1005.0	861.0	684.6	540.6	448.4	390.7	345.8	289.3	227.1
52.5°	920.9	887.5	798.7	680.0	556.7	465.6	406.9	361.9	313.5	251.3	184.4
55°	705.4	681.2	616.6	540.6	469.1	414.9	372.3	329.6	276.6	209.8	140.6
57.5°	542.9	532.5	496.8	456.4	416.1	379.2	340.0	292.8	232.8	163.7	102.6
60°	451.8	444.9	425.3	405.7	375.7	342.3	300.8	246.7	185.6	118.7	63.4
62.5°	396.5	391.9	378.0	361.9	334.2	299.7	251.3	192.5	132.5	76.1	31.1
65°	352.7	348.1	337.7	322.7	291.6	250.1	198.2	142.9	91.1	42.6	17.3
67.5°	295.1	293.9	284.7	266.2	231.7	190.2	140.6	92.2	50.7	18.4	9.2
70°	224.8	223.6	216.7	199.4	169.4	132.5	94.5	51.9	21.9	10.4	6.9
72.5°	151.0	148.7	145.2	132.5	110.6	83.0	53.0	23.1	10.4	9.2	8.1
75°	89.9	88.7	87.6	79.5	66.8	43.8	20.7	10.4	9.2	5.8	2.3
77.5°	42.6	43.8	43.8	41.5	31.1	16.1	11.5	9.2	6.9	5.8	3.5
80°	13.8	15.0	15.0	13.8	12.7	10.4	9.2	5.8	4.6	3.5	4.6
82.5°	10.4	10.4	10.4	9.2	9.2	6.9	6.9	5.8	4.6	4.6	2.3
85°	6.9	6.9	6.9	5.8	4.6	5.8	4.6	3.5	3.5	2.3	2.3
87.5°	5.8	5.8	3.5	4.6	4.6	3.5	3.5	3.5	2.3	2.3	1.2
90°	4.6	3.5	4.6	3.5	4.6	3.5	3.5	2.3	4.6	2.3	1.2
92.5°	1.2	2.3	2.3	1.2	3.5	2.3	3.5	1.2	1.2	1.2	2.3
95°	1.2	2.3	2.3	1.2	2.3	1.2	1.2	1.2	1.2	1.2	1.2
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



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CATALOG NUMBER: ELSG406935WH (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



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CATALOG NUMBER: ELSG406935WH (35° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	220.1	220.1	220.1	220.1	220.1	220.1	220.1	220.1	220.1	220.1	220.1
2.5°	237.4	236.3	234.0	232.8	230.5	228.2	224.8	222.4	221.3	220.1	217.8
5°	267.4	261.6	252.4	247.8	243.2	235.1	225.9	220.1	216.7	208.6	204.0
7.5°	290.4	281.2	269.7	258.2	247.8	235.1	222.4	214.4	202.9	194.8	184.4
10°	313.5	298.5	283.5	266.2	251.3	234.0	219.0	206.3	192.5	178.6	163.7
12.5°	328.5	312.3	293.9	272.0	251.3	229.4	212.1	195.9	176.3	156.7	140.6
15°	343.5	321.6	298.5	273.2	247.8	222.4	201.7	179.8	155.6	132.5	109.5
17.5°	353.8	328.5	300.8	273.2	242.0	214.4	189.0	161.4	132.5	104.9	78.4
20°	359.6	330.8	299.7	265.1	231.7	199.4	171.7	138.3	103.7	74.9	49.6
22.5°	360.8	329.6	293.9	255.9	220.1	184.4	149.8	114.1	77.2	48.4	26.5
25°	366.5	330.8	288.1	245.5	207.5	167.1	129.1	85.3	53.0	27.7	17.3
27.5°	357.3	320.4	274.3	230.5	187.9	144.1	100.3	59.9	28.8	13.8	10.4
30°	355.0	310.0	260.5	214.4	166.0	118.7	72.6	35.7	15.0	10.4	8.1
32.5°	338.9	293.9	242.0	190.2	138.3	87.6	46.1	17.3	9.2	6.9	6.9
35°	326.2	275.5	219.0	163.7	111.8	61.1	25.4	11.5	8.1	5.8	5.8
37.5°	307.7	252.4	193.6	136.0	83.0	38.0	15.0	9.2	6.9	4.6	3.5
40°	288.1	227.1	164.8	107.2	55.3	18.4	9.2	6.9	8.1	3.5	2.3
42.5°	258.2	195.9	133.7	74.9	30.0	9.2	8.1	4.6	3.5	2.3	2.3
45°	224.8	159.1	96.8	43.8	11.5	5.8	2.3	3.5	0.0	0.0	0.0
47.5°	193.6	127.9	71.5	26.5	11.5	6.9	5.8	4.6	3.5	2.3	3.5
50°	156.7	91.1	39.2	11.5	8.1	4.6	3.5	1.2	3.5	1.2	0.0
52.5°	115.3	62.2	18.4	9.2	6.9	3.5	3.5	1.2	1.2	2.3	1.2
55°	79.5	33.4	10.4	8.1	5.8	3.5	2.3	3.5	1.2	0.0	0.0
57.5°	48.4	15.0	9.2	8.1	4.6	5.8	2.3	1.2	2.3	1.2	1.2
60°	23.1	11.5	8.1	5.8	3.5	2.3	1.2	1.2	1.2	1.2	1.2
62.5°	11.5	6.9	5.8	3.5	2.3	0.0	1.2	1.2	0.0	0.0	1.2
65°	9.2	6.9	5.8	2.3	3.5	2.3	1.2	1.2	0.0	0.0	0.0
67.5°	5.8	5.8	3.5	1.2	1.2	1.2	0.0	1.2	0.0	0.0	0.0
70°	4.6	4.6	2.3	2.3	1.2	1.2	0.0	0.0	1.2	0.0	1.2
72.5°	4.6	3.5	1.2	2.3	1.2	1.2	0.0	0.0	0.0	1.2	0.0
75°	2.3	2.3	2.3	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	2.3	2.3	2.3	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
80°	3.5	3.5	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2
82.5°	2.3	2.3	2.3	2.3	2.3	1.2	1.2	0.0	0.0	1.2	1.2
85°	1.2	2.3	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	1.2	0.0	0.0	1.2
90°	1.2	2.3	1.2	1.2	2.3	0.0	0.0	0.0	0.0	1.2	1.2
92.5°	0.0	2.3	0.0	1.2	1.2	1.2	0.0	0.0	1.2	0.0	0.0
95°	0.0	2.3	1.2	1.2	2.3	1.2	1.2	1.2	1.2	1.2	1.2
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	1.2	0.0	1.2	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: P123868

CATALOG NUMBER: ELSG406935WH (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: P123868

CATALOG NUMBER: ELSG406935WH (35° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	220.1	220.1	220.1	220.1	220.1	220.1	220.1	220.1	220.1	220.1	220.1
2.5°	215.5	213.2	209.8	209.8	208.6	206.3	205.2	204.0	201.7	198.2	199.4
5°	197.1	191.3	185.6	179.8	175.2	171.7	166.0	160.2	156.7	157.9	154.4
7.5°	175.2	164.8	155.6	145.2	136.0	127.9	121.0	114.1	106.0	102.6	98.0
10°	148.7	132.5	119.9	108.3	94.5	83.0	74.9	66.8	57.6	54.2	48.4
12.5°	118.7	100.3	85.3	70.3	55.3	45.0	36.9	28.8	23.1	19.6	18.4
15°	86.4	65.7	49.6	35.7	24.2	20.7	13.8	13.8	12.7	11.5	11.5
17.5°	57.6	36.9	25.4	16.1	13.8	11.5	11.5	11.5	10.4	10.4	8.1
20°	28.8	17.3	12.7	10.4	8.1	8.1	8.1	6.9	5.8	4.6	4.6
22.5°	18.4	15.0	9.2	6.9	10.4	6.9	5.8	4.6	3.5	3.5	2.3
25°	11.5	9.2	8.1	6.9	4.6	5.8	4.6	3.5	2.3	3.5	2.3
27.5°	8.1	6.9	5.8	3.5	2.3	3.5	1.2	2.3	1.2	1.2	1.2
30°	5.8	4.6	8.1	2.3	2.3	4.6	3.5	2.3	0.0	5.8	2.3
32.5°	3.5	1.2	1.2	2.3	0.0	0.0	0.0	1.2	0.0	0.0	0.0
35°	3.5	1.2	1.2	0.0	2.3	0.0	1.2	0.0	0.0	0.0	0.0
37.5°	2.3	2.3	1.2	0.0	1.2	0.0	0.0	0.0	1.2	0.0	0.0
40°	1.2	0.0	1.2	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	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.2	1.2	0.0	2.3	0.0	0.0	0.0	2.3	0.0	0.0	0.0
50°	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1.2	0.0	0.0	1.2	0.0	0.0	0.0	1.2	1.2	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	1.2	0.0	0.0	0.0	1.2	0.0	1.2	0.0	0.0	1.2
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	1.2	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	1.2	1.2	0.0	0.0	1.2	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	1.2	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	0.0	0.0	0.0
82.5°	0.0	1.2	0.0	1.2	1.2	1.2	1.2	0.0	0.0	0.0	1.2
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°	1.2	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	1.2	0.0	1.2	1.2	0.0	0.0	1.2	0.0	0.0
92.5°	1.2	0.0	0.0	1.2	0.0	1.2	0.0	1.2	1.2	1.2	0.0
95°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	1.2	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: P123868

CATALOG NUMBER: ELSG406935WH (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: P123868

CATALOG NUMBER: ELSG406935WH (35° BEAM - 35° TILT)

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	220.1	220.1	220.1	220.1
2.5°	197.1	198.2	195.9	197.1
5°	148.7	147.5	148.7	147.5
7.5°	93.4	93.4	91.1	89.9
10°	45.0	43.8	41.5	40.3
12.5°	17.3	17.3	16.1	16.1
15°	11.5	10.4	11.5	10.4
17.5°	8.1	9.2	6.9	9.2
20°	5.8	4.6	4.6	5.8
22.5°	2.3	2.3	3.5	1.2
25°	2.3	2.3	2.3	1.2
27.5°	1.2	1.2	1.2	1.2
30°	0.0	1.2	1.2	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	1.2	0.0
40°	0.0	0.0	1.2	0.0
42.5°	1.2	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	1.2	0.0	1.2	3.5
50°	0.0	1.2	0.0	0.0
52.5°	1.2	0.0	1.2	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	1.2	1.2	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	1.2
72.5°	0.0	0.0	1.2	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	1.2	0.0
90°	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0
95°	1.2	0.0	1.2	1.2
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: P123868

CATALOG NUMBER: ELSG406935WH (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)