

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: P130050

Luminaire Tested: **HL618TAT - HLM6940 - HL6FL - 71PS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P130050  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33457)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: HL618TAT - HLM6940 - HL6FL - 71PS  
Description: HALO ALLSLOPE 6" 30W, Drop Opal Glass Lens, White Polymer Trim Ring  
"Dead Front", Wet Location - Showerlight using 40 Degree Optic at a 6-12  
Pitch  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

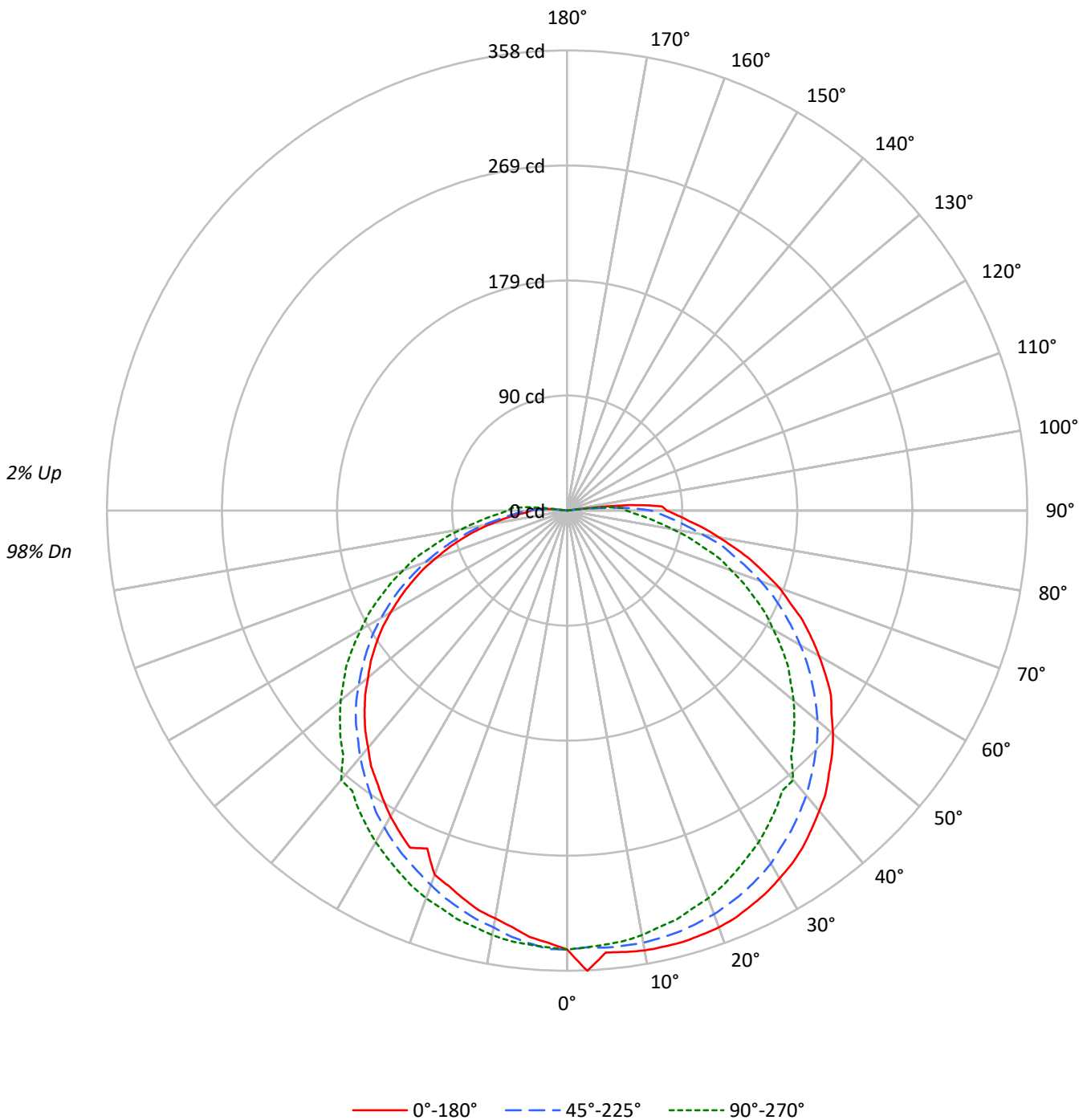
Lumens per Lamp: N/A  
Luminaire Lumens: 1208.3 lumens  
Efficiency: N/A  
Efficacy: 43.8 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.3 / 1.45  
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 27.6  
Input Voltage (V): NR  
Input Current (Ain): 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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### 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	110	110	110	105	105	105	100	100	100	98
1	106	100	95	90	103	98	93	89	93	89	86	89	85	83	85	82	80	77
2	95	86	78	72	92	84	77	71	80	74	69	76	71	67	73	69	65	63
3	86	75	66	59	84	73	65	58	70	62	57	66	60	55	64	58	54	52
4	79	66	56	49	76	64	55	48	61	54	48	59	52	47	56	51	46	43
5	72	58	49	42	70	57	48	41	55	47	41	52	46	40	50	44	39	37
6	67	52	43	36	64	51	42	36	49	41	35	47	40	35	46	39	34	32
7	62	47	38	32	60	46	38	31	45	37	31	43	36	31	41	35	30	28
8	57	43	34	28	56	42	34	28	41	33	28	39	32	27	38	32	27	25
9	53	39	31	25	52	39	31	25	37	30	25	36	29	24	35	29	24	22
10	50	36	28	23	49	36	28	23	35	27	22	33	27	22	32	26	22	20

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

	0°	90°	180°
0°	20378	20378	20378
5°	20208	19851	19500
10°	20120	19419	18649
15°	20047	18997	18022
20°	19988	18586	17463
25°	19866	18166	16959
30°	19750	17802	16421
35°	19636	17405	15845
40°	19439	17432	15349
45°	19221	16633	14859
50°	19043	16221	14261
55°	18905	15805	13700
60°	18509	15141	12966
65°	18192	14485	12092
70°	17714	13679	10996
75°	17103	12622	9819
80°	16440	11449	8296
85°	16235	10467	6786



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.3	2.7
10°-20°	93.3	7.7
20°-30°	144.1	11.9
30°-40°	179.1	14.8
40°-50°	194.6	16.1
50°-60°	189.0	15.6
60°-70°	162.2	13.4
70°-80°	118.6	9.8
80°-90°	71.1	5.9
90°-100°	24.1	2.0
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°	269.7	22.3
0°-40°	448.8	37.1
0°-60°	832.4	68.9
0°-90°	1184.2	98.0
90°-120°	24.1	2.0
90°-150°	24.1	2.0
90°-180°	24.0	2.0
0°-180°	1208.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	341	341	341	341	341	
5°	345	341	339	338	333	33
15°	348	339	329	321	312	98
25°	339	327	310	298	289	157
35°	320	304	283	268	258	200
45°	288	272	249	232	223	223
55°	251	232	210	190	182	223
65°	202	185	161	143	134	199
75°	148	133	109	92	85	156
85°	96	84	62	45	40	83
90°	78	65	46	32	28	43
95°	50	16	30	6	14	24
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: P130050

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4
2.5°	358.4	342.7	348.7	345.1	341.4	345.1	342.7	347.5	339.0	340.2	341.4
5°	345.1	345.1	351.1	347.5	342.7	346.3	345.1	348.7	340.2	341.4	342.7
7.5°	346.3	347.5	352.3	347.5	343.9	347.5	345.1	348.7	341.4	341.4	342.7
10°	347.5	347.5	352.3	348.7	345.1	347.5	345.1	348.7	341.4	341.4	342.7
12.5°	347.5	348.7	353.5	348.7	345.1	347.5	345.1	347.5	341.4	340.2	341.4
15°	347.5	354.8	352.3	347.5	343.9	346.3	343.9	347.5	339.0	339.0	340.2
17.5°	346.3	346.3	351.1	346.3	342.7	345.1	341.4	345.1	336.6	336.6	337.8
20°	345.1	345.1	348.7	343.9	341.4	342.7	339.0	342.7	335.4	334.2	334.2
22.5°	342.7	341.4	345.1	341.4	337.8	339.0	335.4	339.0	331.8	330.5	331.8
25°	339.0	339.0	341.4	337.8	334.2	335.4	331.8	334.2	328.1	326.9	326.9
27.5°	335.4	334.2	337.8	333.0	330.5	330.5	326.9	330.5	323.3	322.1	322.1
30°	330.5	329.3	333.0	328.1	325.7	325.7	322.1	324.5	318.4	317.2	317.2
32.5°	325.7	323.3	326.9	322.1	319.6	319.6	316.0	318.4	311.2	310.0	310.0
35°	319.6	317.2	319.6	314.8	313.6	312.4	308.7	311.2	305.1	303.9	302.7
37.5°	312.4	311.2	312.4	308.7	306.3	306.3	301.5	303.9	297.9	296.6	296.6
40°	305.1	303.9	305.1	301.5	299.1	297.9	294.2	296.6	290.6	289.4	288.2
42.5°	297.9	295.4	296.6	293.0	290.6	290.6	287.0	287.0	282.1	280.9	280.9
45°	288.2	287.0	288.2	284.5	282.1	282.1	277.3	278.5	273.6	272.4	271.2
47.5°	279.7	278.5	279.7	276.1	273.6	272.4	268.8	270.0	265.2	263.9	262.7
50°	270.0	268.8	268.8	266.4	263.9	262.7	259.1	259.1	255.5	254.3	253.1
52.5°	259.1	257.9	259.1	255.5	254.3	251.8	249.4	248.2	245.8	243.4	242.2
55°	250.6	248.2	248.2	244.6	243.4	242.2	238.5	237.3	234.9	232.5	231.3
57.5°	238.5	236.1	236.1	232.5	232.5	230.0	227.6	226.4	222.8	221.6	220.4
60°	226.4	225.2	224.0	221.6	220.4	219.2	215.5	214.3	211.9	209.5	208.3
62.5°	214.3	213.1	211.9	209.5	209.5	207.0	203.4	202.2	199.8	197.4	196.1
65°	202.2	199.8	199.8	197.4	196.1	193.7	190.1	190.1	187.7	185.2	184.0
67.5°	187.7	187.7	186.5	184.0	182.8	181.6	178.0	173.1	174.4	173.1	170.7
70°	175.6	173.1	171.9	170.7	170.7	168.3	164.7	161.0	161.0	159.8	157.4
72.5°	161.0	159.8	158.6	157.4	156.2	155.0	151.3	150.1	147.7	146.5	144.1
75°	147.7	146.5	145.3	144.1	142.9	141.7	138.0	136.8	134.4	133.2	130.8
77.5°	133.2	132.0	132.0	129.6	129.6	128.3	124.7	123.5	121.1	122.3	117.4
80°	119.9	118.7	118.7	116.2	116.2	113.8	111.4	110.2	107.8	106.5	104.1
82.5°	107.8	106.5	105.3	104.1	104.1	101.7	99.3	96.9	95.7	94.4	92.0
85°	95.7	94.4	94.4	92.0	92.0	89.6	87.2	86.0	84.8	83.5	81.1
87.5°	86.0	84.8	83.5	82.3	82.3	81.1	77.5	76.3	75.1	73.9	71.4
90°	77.5	76.3	76.3	75.1	73.9	72.6	70.2	67.8	66.6	65.4	63.0
92.5°	73.9	72.6	72.6	69.0	67.8	64.2	59.3	54.5	49.6	47.2	47.2
95°	49.6	48.4	49.6	44.8	42.4	35.1	29.1	24.2	19.4	15.7	15.7
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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**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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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4
2.5°	340.2	343.9	337.8	341.4	345.1	342.7	345.1	340.2	339.0	337.8	339.0
5°	340.2	343.9	339.0	341.4	345.1	341.4	345.1	339.0	337.8	336.6	337.8
7.5°	340.2	343.9	337.8	340.2	345.1	340.2	342.7	337.8	335.4	334.2	334.2
10°	340.2	342.7	336.6	339.0	342.7	337.8	340.2	335.4	333.0	330.5	331.8
12.5°	337.8	340.2	335.4	336.6	340.2	335.4	337.8	331.8	329.3	328.1	328.1
15°	336.6	339.0	333.0	334.2	341.4	331.8	334.2	329.3	325.7	323.3	323.3
17.5°	333.0	326.9	329.3	330.5	334.2	328.1	330.5	324.5	322.1	319.6	318.4
20°	330.5	331.8	326.9	326.9	330.5	324.5	325.7	320.9	323.3	316.0	313.6
22.5°	326.9	326.9	322.1	322.1	326.9	319.6	320.9	316.0	312.4	310.0	308.7
25°	322.1	323.3	318.4	318.4	322.1	314.8	316.0	310.0	306.3	305.1	302.7
27.5°	317.2	317.2	312.4	312.4	316.0	308.7	308.7	303.9	300.3	299.1	296.6
30°	311.2	311.2	306.3	306.3	310.0	301.5	302.7	297.9	294.2	291.8	289.4
32.5°	303.9	303.9	300.3	299.1	302.7	295.4	295.4	290.6	291.8	284.5	282.1
35°	297.9	297.9	293.0	291.8	295.4	287.0	287.0	283.3	278.5	277.3	274.8
37.5°	290.6	289.4	285.7	284.5	287.0	278.5	279.7	274.8	271.2	268.8	266.4
40°	283.3	282.1	278.5	277.3	279.7	271.2	271.2	273.6	262.7	266.4	257.9
42.5°	273.6	273.6	270.0	267.6	270.0	261.5	262.7	257.9	253.1	251.8	248.2
45°	265.2	263.9	261.5	259.1	260.3	253.1	253.1	249.4	244.6	242.2	239.7
47.5°	256.7	255.5	250.6	249.4	250.6	243.4	243.4	239.7	234.9	233.7	230.0
50°	247.0	245.8	242.2	239.7	240.9	233.7	233.7	230.0	225.2	222.8	220.4
52.5°	236.1	234.9	231.3	228.8	230.0	222.8	222.8	219.2	217.9	211.9	209.5
55°	226.4	224.0	220.4	217.9	219.2	211.9	211.9	209.5	203.4	202.2	198.6
57.5°	215.5	213.1	209.5	207.0	208.3	201.0	201.0	197.4	192.5	190.1	187.7
60°	203.4	201.0	198.6	196.1	196.1	190.1	188.9	185.2	180.4	179.2	175.6
62.5°	191.3	188.9	186.5	184.0	184.0	178.0	176.8	174.4	169.5	167.1	163.5
65°	179.2	176.8	173.1	170.7	170.7	164.7	164.7	161.0	156.2	155.0	151.3
67.5°	165.9	164.7	161.0	158.6	158.6	152.6	151.3	148.9	144.1	141.7	139.2
70°	153.8	151.3	147.7	145.3	145.3	140.5	139.2	135.6	132.0	129.6	125.9
72.5°	140.5	138.0	134.4	133.2	132.0	127.1	125.9	124.7	118.7	117.4	113.8
75°	127.1	124.7	122.3	119.9	118.7	113.8	112.6	109.0	105.3	104.1	100.5
77.5°	113.8	111.4	109.0	106.5	105.3	100.5	99.3	96.9	93.2	90.8	88.4
80°	100.5	98.1	95.7	93.2	92.0	88.4	86.0	83.5	79.9	81.1	75.1
82.5°	89.6	86.0	83.5	81.1	79.9	76.3	73.9	71.4	67.8	66.6	64.2
85°	78.7	75.1	72.6	70.2	69.0	65.4	63.0	61.7	58.1	56.9	53.3
87.5°	69.0	65.4	64.2	61.7	59.3	55.7	54.5	52.1	48.4	47.2	44.8
90°	60.5	58.1	56.9	54.5	52.1	48.4	47.2	46.0	42.4	41.2	38.7
92.5°	47.2	48.4	48.4	47.2	48.4	46.0	44.8	43.6	41.2	38.7	36.3
95°	18.2	21.8	24.2	26.6	30.3	30.3	30.3	30.3	27.8	25.4	23.0
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: P130050

CATALOG NUMBER: HL618TAT - HLM6940 - HL6FL - 71PS

**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: P130050

CATALOG NUMBER: HL618TAT - HLM6940 - HL6FL - 71PS

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4
2.5°	342.7	335.4	335.4	339.0	336.6	341.4	340.2	340.2	339.0	337.8	330.5
5°	340.2	333.0	333.0	336.6	333.0	337.8	336.6	336.6	335.4	334.2	331.8
7.5°	337.8	330.5	329.3	333.0	329.3	334.2	333.0	331.8	330.5	329.3	326.9
10°	334.2	326.9	325.7	329.3	324.5	329.3	328.1	326.9	325.7	324.5	322.1
12.5°	330.5	323.3	322.1	324.5	320.9	325.7	324.5	323.3	322.1	319.6	317.2
15°	325.7	318.4	318.4	320.9	317.2	320.9	319.6	318.4	317.2	314.8	312.4
17.5°	322.1	313.6	313.6	316.0	311.2	316.0	313.6	312.4	311.2	310.0	306.3
20°	317.2	308.7	308.7	311.2	306.3	310.0	308.7	307.5	306.3	303.9	301.5
22.5°	311.2	303.9	302.7	305.1	300.3	303.9	302.7	301.5	300.3	299.1	296.6
25°	305.1	297.9	296.6	299.1	294.2	297.9	296.6	295.4	294.2	291.8	289.4
27.5°	299.1	291.8	290.6	293.0	288.2	291.8	290.6	288.2	287.0	285.7	283.3
30°	291.8	284.5	283.3	287.0	280.9	284.5	282.1	282.1	279.7	278.5	276.1
32.5°	284.5	277.3	276.1	278.5	273.6	277.3	274.8	280.9	271.2	270.0	267.6
35°	277.3	270.0	267.6	270.0	265.2	267.6	267.6	265.2	263.9	261.5	259.1
37.5°	267.6	261.5	260.3	261.5	256.7	259.1	257.9	256.7	255.5	254.3	250.6
40°	259.1	253.1	251.8	253.1	248.2	250.6	249.4	249.4	247.0	245.8	243.4
42.5°	250.6	243.4	242.2	243.4	239.7	240.9	239.7	239.7	237.3	236.1	233.7
45°	240.9	234.9	233.7	234.9	230.0	232.5	231.3	230.0	227.6	226.4	224.0
47.5°	231.3	225.2	224.0	225.2	220.4	222.8	221.6	220.4	217.9	216.7	214.3
50°	220.4	215.5	214.3	215.5	210.7	211.9	210.7	210.7	208.3	207.0	204.6
52.5°	210.7	204.6	203.4	204.6	199.8	201.0	201.0	199.8	197.4	196.1	194.9
55°	199.8	194.9	193.7	193.7	188.9	190.1	188.9	188.9	186.5	185.2	184.0
57.5°	188.9	182.8	181.6	181.6	178.0	179.2	178.0	178.0	175.6	174.4	171.9
60°	176.8	171.9	170.7	170.7	165.9	167.1	165.9	165.9	163.5	162.2	159.8
62.5°	164.7	159.8	158.6	158.6	153.8	155.0	155.0	153.8	151.3	150.1	148.9
65°	152.6	147.7	146.5	145.3	141.7	142.9	141.7	140.5	139.2	138.0	136.8
67.5°	139.2	135.6	136.8	133.2	129.6	129.6	129.6	128.3	125.9	125.9	124.7
70°	127.1	122.3	121.1	119.9	116.2	117.4	116.2	115.0	113.8	112.6	111.4
72.5°	113.8	110.2	107.8	107.8	104.1	104.1	104.1	102.9	100.5	100.5	99.3
75°	100.5	96.9	95.7	94.4	90.8	92.0	89.6	89.6	87.2	87.2	86.0
77.5°	87.2	83.5	83.5	81.1	78.7	78.7	77.5	77.5	76.3	75.1	73.9
80°	73.9	71.4	70.2	69.0	66.6	66.6	65.4	64.2	63.0	63.0	61.7
82.5°	63.0	60.5	59.3	56.9	55.7	54.5	54.5	53.3	52.1	52.1	50.9
85°	52.1	49.6	48.4	47.2	46.0	44.8	43.6	43.6	42.4	41.2	41.2
87.5°	43.6	42.4	41.2	40.0	37.5	37.5	36.3	36.3	35.1	33.9	32.7
90°	37.5	36.3	35.1	33.9	32.7	31.5	30.3	30.3	29.1	29.1	27.8
92.5°	33.9	30.3	26.6	25.4	21.8	21.8	20.6	21.8	21.8	23.0	24.2
95°	19.4	15.7	12.1	9.7	7.3	6.1	6.1	7.3	8.5	10.9	13.3
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: P130050

CATALOG NUMBER: HL618TAT - HLM6940 - HL6FL - 71PS

**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: P130050

CATALOG NUMBER: HL618TAT - HLM6940 - HL6FL - 71PS

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	341.4	341.4	341.4	341.4
2.5°	341.4	343.9	340.2	336.6
5°	337.8	340.2	336.6	333.0
7.5°	333.0	334.2	331.8	326.9
10°	328.1	329.3	325.7	322.1
12.5°	323.3	324.5	322.1	318.4
15°	318.4	319.6	316.0	312.4
17.5°	312.4	313.6	311.2	306.3
20°	306.3	308.7	305.1	301.5
22.5°	300.3	302.7	299.1	284.5
25°	294.2	295.4	293.0	289.4
27.5°	287.0	288.2	285.7	282.1
30°	279.7	280.9	278.5	274.8
32.5°	271.2	272.4	271.2	266.4
35°	262.7	263.9	261.5	257.9
37.5°	254.3	255.5	253.1	250.6
40°	245.8	247.0	244.6	240.9
42.5°	236.1	237.3	234.9	232.5
45°	226.4	227.6	225.2	222.8
47.5°	220.4	216.7	215.5	213.1
50°	207.0	207.0	205.8	202.2
52.5°	196.1	196.1	194.9	192.5
55°	187.7	185.2	184.0	181.6
57.5°	173.1	173.1	171.9	170.7
60°	162.2	161.0	161.0	158.6
62.5°	150.1	150.1	150.1	146.5
65°	136.8	138.0	136.8	134.4
67.5°	125.9	124.7	124.7	122.3
70°	112.6	111.4	111.4	109.0
72.5°	99.3	99.3	99.3	96.9
75°	86.0	86.0	86.0	84.8
77.5°	73.9	73.9	73.9	72.6
80°	61.7	61.7	60.5	60.5
82.5°	50.9	49.6	50.9	49.6
85°	41.2	40.0	41.2	40.0
87.5°	32.7	32.7	32.7	31.5
90°	27.8	27.8	27.8	27.8
92.5°	25.4	25.4	26.6	25.4
95°	14.5	14.5	14.5	14.5
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: P130050

CATALOG NUMBER: HL618TAT - HLM6940 - HL6FL - 71PS

**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)