

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: P130056

Luminaire Tested: **HL618TAT - HLM6930 - HL6FL - ERT702**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P130056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33460)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: HL618TAT - HLM6930 - HL6FL - ERT702  
Description: HALO ALLSLOPE 6" 30W, Drop Opal Plastic 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 / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

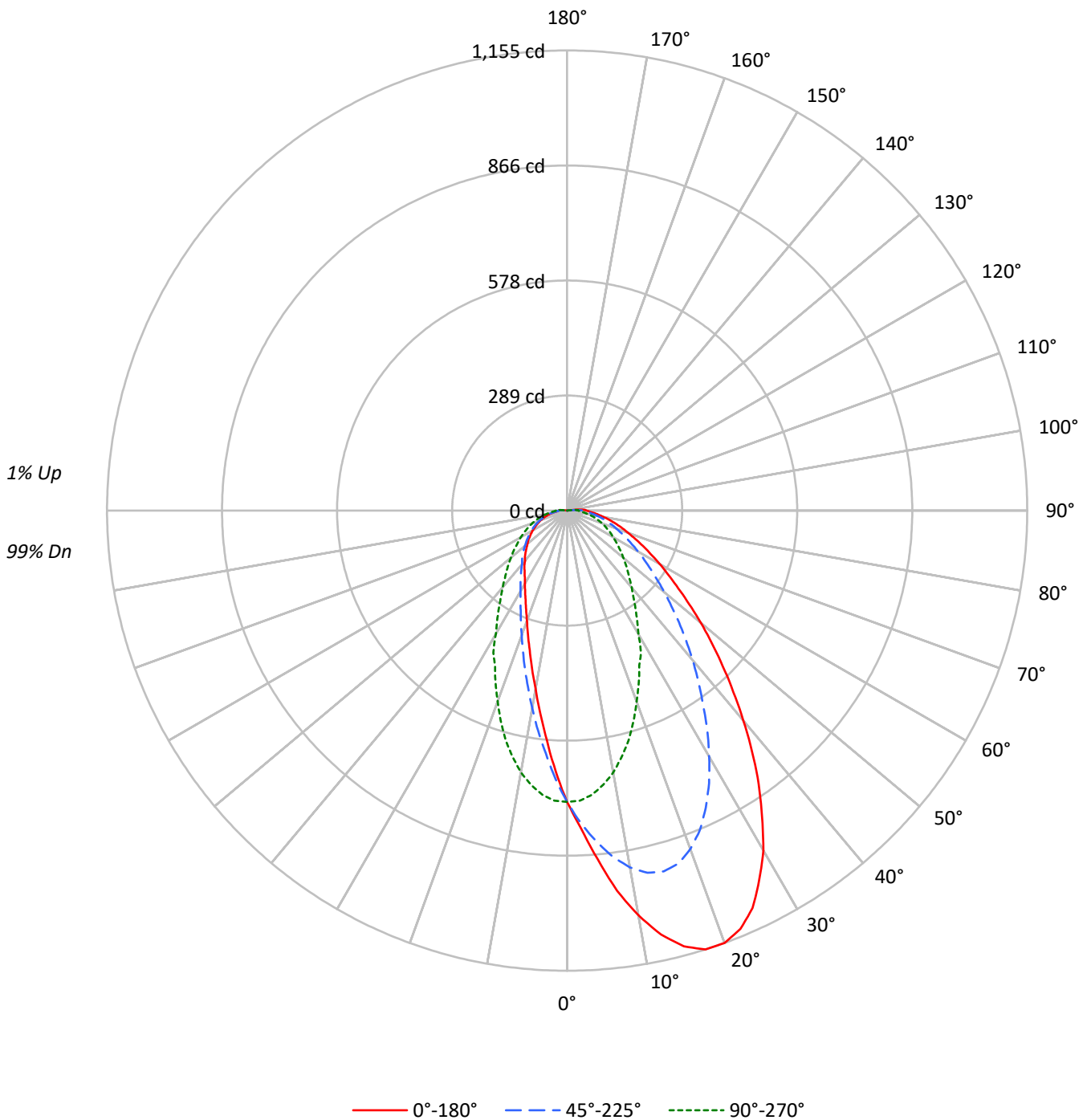
Lumens per Lamp: N/A  
Luminaire Lumens: 1427.5 lumens  
Efficiency: N/A  
Efficacy: 51.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.84 / 1.09  
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 27.6  
Input Voltage (V): NR  
Input Current (Ain): 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99				
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	89	87	85	83				
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71				
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61				
4	85	73	65	59	82	72	64	58	70	63	58	67	61	57	65	60	56	54				
5	79	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48				
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	54	49	44	42				
7	68	55	47	41	66	55	47	41	53	46	41	52	45	41	50	44	40	38				
8	64	51	43	38	62	50	43	37	49	42	37	48	41	37	46	41	37	35				
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32				
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29				

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

	0°	90°	180°
0°	43640	43640	43640
5°	51419	41921	33946
10°	59734	38636	26361
15°	65321	34377	20901
20°	66897	29504	17040
25°	64513	25099	14451
30°	58873	21393	12669
35°	51491	18339	11427
40°	43823	16056	10475
45°	36855	14352	9811
50°	30891	12963	9155
55°	25702	11829	8645
60°	21927	10963	8135
65°	18876	10122	7594
70°	16362	9382	7092
75°	14521	8511	6392
80°	12752	7418	5485
85°	11366	6429	4580



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.7	4.8
10°-20°	188.7	13.2
20°-30°	253.0	17.7
30°-40°	252.3	17.7
40°-50°	216.9	15.2
50°-60°	171.5	12.0
60°-70°	127.7	8.9
70°-80°	85.8	6.0
80°-90°	47.2	3.3
90°-100°	15.7	1.1
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°	510.5	35.8
0°-40°	762.8	53.4
0°-60°	1151.2	80.6
0°-90°	1411.8	98.9
90°-120°	15.7	1.1
90°-150°	15.7	1.1
90°-180°	16.0	1.1
0°-180°	1427.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	731	731	731	731	731	
5°	878	833	716	612	580	89
15°	1132	938	596	410	362	319
25°	1101	823	428	276	247	501
35°	838	595	298	203	186	522
45°	553	397	215	157	147	428
55°	341	255	157	121	115	308
65°	210	164	112	90	84	209
75°	125	103	74	58	55	134
85°	67	55	38	28	27	60
90°	49	40	28	22	22	27
95°	30	11	20	5	14	14
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: P130056

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	731.1	731.1	731.1	731.1	731.1	731.1	731.1	731.1	731.1	731.1	731.1
2.5°	798.1	806.8	804.6	791.6	805.7	804.6	791.6	790.5	784.0	785.1	780.8
5°	878.1	887.9	882.5	870.6	883.5	864.1	856.5	855.4	840.3	832.7	823.0
7.5°	962.5	969.0	962.5	945.2	957.1	930.0	916.0	913.8	890.0	876.0	859.8
10°	1031.7	1040.4	1033.9	1009.0	1022.0	989.5	985.2	961.4	929.0	909.5	884.6
12.5°	1090.1	1099.8	1094.4	1067.4	1072.8	1033.9	1010.1	996.0	958.2	931.1	898.7
15°	1132.3	1142.0	1131.2	1103.1	1107.4	1064.1	1036.0	1016.6	970.1	937.6	898.7
17.5°	1155.0	1163.6	1151.7	1121.5	1121.5	1076.0	1043.6	1019.8	966.8	929.0	884.6
20°	1155.0	1163.6	1151.7	1119.3	1117.1	1067.4	1033.9	1004.7	948.4	904.1	856.5
22.5°	1136.6	1146.3	1131.2	1097.7	1093.3	1042.5	1005.7	975.5	916.0	869.5	818.7
25°	1100.9	1106.3	1094.4	1059.8	1052.2	1002.5	964.7	932.2	871.6	823.0	773.2
27.5°	1044.7	1054.4	1040.4	1006.8	1001.4	949.5	910.6	878.1	816.5	771.1	719.2
30°	985.2	989.5	975.5	943.0	935.5	886.8	848.9	813.2	758.1	712.7	664.0
32.5°	910.6	914.9	901.9	871.6	865.2	818.7	781.9	750.5	696.5	654.3	606.7
35°	838.1	840.3	828.4	799.2	789.5	748.4	713.8	684.6	632.6	594.8	553.7
37.5°	762.4	767.8	752.7	727.8	715.9	682.4	647.8	619.7	573.2	540.7	502.9
40°	687.8	692.1	680.2	655.4	646.7	616.4	585.1	561.3	521.3	489.9	456.4
42.5°	617.5	621.8	612.1	589.4	582.9	552.6	528.8	505.0	470.4	441.2	410.9
45°	552.6	555.9	547.2	529.9	520.2	495.3	473.7	453.1	418.5	396.9	368.8
47.5°	492.1	493.1	484.5	466.1	465.0	440.1	420.7	403.4	374.2	354.7	332.0
50°	438.0	436.9	428.3	418.5	412.0	388.2	373.1	359.0	335.2	317.9	292.0
52.5°	386.1	387.2	379.6	368.8	369.9	347.1	332.0	320.1	299.6	284.4	268.2
55°	340.7	343.9	337.4	326.6	320.1	306.0	294.2	284.4	266.0	255.2	240.1
57.5°	301.7	303.9	299.6	289.8	284.4	271.4	261.7	254.1	237.9	229.3	216.3
60°	268.2	269.3	262.8	256.3	253.1	241.2	239.0	226.0	213.0	205.5	194.7
62.5°	236.8	237.9	234.7	226.0	223.9	214.1	207.6	201.1	190.3	183.8	173.0
65°	209.8	209.8	207.6	200.1	197.9	190.3	183.8	179.5	169.8	164.4	157.9
67.5°	183.8	184.9	181.7	177.4	174.1	168.7	163.3	160.1	151.4	147.1	140.6
70°	162.2	163.3	160.1	156.8	155.7	148.2	144.9	142.8	135.2	130.9	126.5
72.5°	143.8	142.8	140.6	138.4	136.3	131.9	127.6	125.4	120.0	116.8	112.5
75°	125.4	124.4	123.3	120.0	119.0	114.6	112.5	110.3	104.9	102.7	98.4
77.5°	109.2	108.1	107.1	104.9	103.8	99.5	97.3	96.2	91.9	89.8	86.5
80°	93.0	93.0	91.9	89.8	89.8	86.5	84.4	83.3	78.9	76.8	74.6
82.5°	78.9	78.9	77.9	76.8	75.7	73.5	71.4	70.3	67.0	64.9	62.7
85°	67.0	67.0	66.0	64.9	63.8	61.6	59.5	58.4	56.2	55.2	53.0
87.5°	56.2	56.2	55.2	54.1	53.0	51.9	50.8	49.7	47.6	46.5	44.3
90°	48.7	48.7	47.6	46.5	46.5	45.4	43.3	43.3	41.1	40.0	38.9
92.5°	44.3	44.3	44.3	42.2	41.1	38.9	36.8	33.5	30.3	29.2	29.2
95°	30.3	31.4	30.3	29.2	26.0	22.7	18.4	16.2	10.8	10.8	9.7
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°	731.1	731.1	731.1	731.1	731.1	731.1	731.1	731.1	731.1	731.1	731.1
2.5°	765.7	772.2	761.3	746.2	755.9	745.1	737.5	728.9	715.9	720.2	701.9
5°	802.4	802.4	783.0	761.3	763.5	746.2	731.1	715.9	695.4	692.1	670.5
7.5°	830.6	824.1	797.0	767.8	764.6	737.5	717.0	694.3	669.4	659.7	633.7
10°	866.2	833.8	799.2	763.5	751.6	721.3	709.4	667.3	637.0	624.0	593.7
12.5°	854.3	832.7	791.6	749.4	733.2	695.4	664.0	632.6	600.2	581.8	551.5
15°	846.8	819.7	772.2	726.7	705.1	665.1	629.4	595.9	559.1	539.6	509.4
17.5°	829.5	795.9	745.1	695.4	669.4	626.2	589.4	553.7	516.9	497.5	466.1
20°	798.1	760.3	708.3	656.4	627.2	584.0	547.2	509.4	475.8	453.1	423.9
22.5°	761.3	719.2	665.1	609.9	584.0	539.6	505.0	469.3	434.7	413.1	386.1
25°	713.8	672.7	619.7	566.7	538.6	495.3	461.8	428.3	396.9	377.4	350.4
27.5°	662.9	621.8	571.0	522.3	494.2	453.1	420.7	401.2	363.4	343.9	320.1
30°	609.9	567.8	522.3	475.8	451.0	413.1	382.8	358.0	329.8	313.6	293.1
32.5°	556.9	521.3	478.0	433.7	410.9	377.4	349.3	326.6	302.8	287.7	269.3
35°	508.3	472.6	434.7	394.7	375.3	342.8	319.0	298.5	275.8	263.9	248.7
37.5°	460.7	430.4	394.7	360.1	340.7	312.5	292.0	272.5	254.1	243.3	229.3
40°	417.4	390.4	360.1	327.7	312.5	286.6	269.3	252.0	234.7	224.9	213.0
42.5°	386.1	353.6	326.6	297.4	285.5	262.8	247.7	231.4	216.3	207.6	197.9
45°	341.7	319.0	296.3	271.4	259.5	241.2	227.1	215.2	201.1	193.6	184.9
47.5°	308.2	288.7	270.4	247.7	237.9	222.8	213.0	199.0	187.1	179.5	173.0
50°	276.9	261.7	245.5	226.0	218.5	204.4	192.5	183.8	173.0	167.6	161.1
52.5°	250.9	236.8	222.8	206.6	200.1	188.2	178.4	170.9	161.1	155.7	149.2
55°	224.9	214.1	203.3	188.2	183.8	173.0	164.4	156.8	149.2	144.9	138.4
57.5°	203.3	194.7	184.9	172.0	168.7	159.0	151.4	144.9	138.4	134.1	128.7
60°	183.8	176.3	168.7	157.9	154.6	146.0	139.5	134.1	127.6	124.4	120.0
62.5°	166.5	160.1	152.5	142.8	140.6	134.1	127.6	123.3	117.9	114.6	110.3
65°	150.3	144.9	138.4	129.8	128.7	122.2	116.8	112.5	108.1	104.9	101.7
67.5°	135.2	129.8	125.4	117.9	115.7	110.3	106.0	102.7	98.4	96.2	93.0
70°	121.1	116.8	112.5	106.0	104.9	101.7	96.2	93.0	88.7	86.5	84.4
72.5°	107.1	103.8	99.5	95.2	93.0	89.8	85.4	83.3	80.0	78.9	76.8
75°	94.1	90.8	88.7	83.3	82.2	78.9	75.7	73.5	70.3	68.1	66.0
77.5°	82.2	80.0	77.9	72.5	71.4	69.2	66.0	63.8	61.6	59.5	57.3
80°	71.4	69.2	67.0	62.7	61.6	59.5	56.2	54.1	51.9	50.8	49.7
82.5°	60.6	58.4	56.2	53.0	51.9	49.7	47.6	45.4	43.3	42.2	41.1
85°	50.8	48.7	47.6	44.3	43.3	41.1	38.9	37.9	35.7	34.6	33.5
87.5°	43.3	41.1	40.0	36.8	36.8	34.6	32.4	31.4	30.3	29.2	28.1
90°	36.8	35.7	34.6	32.4	31.4	30.3	29.2	28.1	27.0	26.0	24.9
92.5°	29.2	29.2	29.2	28.1	29.2	28.1	27.0	26.0	24.9	23.8	22.7
95°	13.0	14.1	16.2	17.3	19.5	20.5	19.5	19.5	18.4	17.3	15.1
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: P130056

CATALOG NUMBER: HL618TAT - HLM6930 - HL6FL - ERT702

**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: P130056

CATALOG NUMBER: HL618TAT - HLM6930 - HL6FL - ERT702

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	731.1	731.1	731.1	731.1	731.1	731.1	731.1	731.1	731.1	731.1	731.1
2.5°	702.9	707.3	696.5	697.5	684.6	673.7	669.4	671.6	659.7	668.3	670.5
5°	666.2	664.0	649.9	644.5	628.3	612.1	603.4	604.5	594.8	598.0	598.0
7.5°	625.1	618.6	599.1	592.6	573.2	558.0	546.1	542.9	533.2	532.1	532.1
10°	578.6	571.0	551.5	540.7	519.1	504.0	491.0	486.7	469.3	473.7	471.5
12.5°	535.3	528.8	504.0	492.1	469.3	453.1	441.2	436.9	426.1	422.8	421.8
15°	489.9	480.2	456.4	433.7	427.2	409.9	396.9	390.4	381.8	380.7	376.3
17.5°	447.7	435.8	414.2	402.3	380.7	368.8	358.0	351.5	343.9	342.8	339.6
20°	406.6	394.7	376.3	363.4	347.1	333.1	323.4	317.9	311.5	308.2	306.0
22.5°	370.9	359.0	340.7	330.9	315.8	302.8	294.2	289.8	283.3	282.3	279.0
25°	335.2	326.6	310.4	301.7	287.7	275.8	269.3	266.0	259.5	257.4	256.3
27.5°	307.1	298.5	284.4	275.8	262.8	254.1	247.7	245.5	240.1	239.0	236.8
30°	281.2	273.6	260.6	254.1	242.2	233.6	228.2	227.1	220.6	221.7	218.5
32.5°	259.5	253.1	241.2	234.7	226.0	217.4	213.0	210.9	206.6	206.6	204.4
35°	239.0	234.7	223.9	218.5	209.8	203.3	199.0	196.8	193.6	193.6	191.4
37.5°	220.6	216.3	208.7	203.3	195.7	189.3	186.0	183.8	181.7	180.6	179.5
40°	205.5	202.2	194.7	190.3	182.8	176.3	174.1	173.0	170.9	169.8	168.7
42.5°	191.4	189.3	182.8	178.4	172.0	167.6	164.4	163.3	160.1	160.1	160.1
45°	178.4	176.3	170.9	166.5	161.1	156.8	154.6	152.5	151.4	150.3	150.3
47.5°	166.5	165.5	160.1	156.8	151.4	148.2	144.9	143.8	141.7	141.7	140.6
50°	155.7	154.6	150.3	147.1	141.7	138.4	136.3	135.2	133.0	133.0	131.9
52.5°	146.0	143.8	140.6	137.3	133.0	129.8	127.6	126.5	125.4	125.4	124.4
55°	136.3	135.2	130.9	127.6	124.4	121.1	119.0	119.0	116.8	116.8	115.7
57.5°	126.5	125.4	122.2	119.0	115.7	113.6	111.4	110.3	109.2	109.2	108.1
60°	116.8	116.8	112.5	110.3	107.1	104.9	103.8	102.7	101.7	100.6	100.6
62.5°	104.9	107.1	104.9	101.7	99.5	97.3	95.2	95.2	94.1	93.0	93.0
65°	99.5	98.4	96.2	94.1	90.8	89.8	87.6	86.5	86.5	86.5	84.4
67.5°	88.7	89.8	87.6	85.4	83.3	81.1	80.0	78.9	77.9	77.9	77.9
70°	82.2	82.2	80.0	77.9	75.7	73.5	72.5	71.4	70.3	70.3	70.3
72.5°	73.5	73.5	71.4	69.2	67.0	66.0	64.9	63.8	63.8	62.7	62.7
75°	64.9	63.8	62.7	61.6	59.5	58.4	57.3	56.2	56.2	55.2	55.2
77.5°	56.2	55.2	54.1	53.0	50.8	50.8	48.7	48.7	48.7	47.6	47.6
80°	47.6	47.6	45.4	44.3	43.3	42.2	42.2	41.1	41.1	40.0	40.0
82.5°	38.9	38.9	37.9	36.8	35.7	34.6	34.6	33.5	33.5	33.5	32.4
85°	32.4	31.4	30.3	30.3	29.2	28.1	28.1	27.0	27.0	27.0	27.0
87.5°	27.0	27.0	26.0	24.9	23.8	23.8	23.8	22.7	22.7	22.7	22.7
90°	23.8	23.8	22.7	22.7	21.6	21.6	21.6	20.5	20.5	20.5	20.5
92.5°	21.6	20.5	19.5	17.3	16.2	15.1	16.2	16.2	17.3	18.4	18.4
95°	14.1	11.9	8.7	6.5	5.4	5.4	5.4	6.5	8.7	9.7	11.9
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: P130056

CATALOG NUMBER: HL618TAT - HLM6930 - HL6FL - ERT702

**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: P130056

CATALOG NUMBER: HL618TAT - HLM6930 - HL6FL - ERT702

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	731.1	731.1	731.1	731.1
2.5°	659.7	659.7	665.1	655.4
5°	587.2	587.2	590.5	579.7
7.5°	524.5	521.3	521.3	513.7
10°	462.9	461.8	461.8	455.3
12.5°	413.1	412.0	414.2	406.6
15°	367.7	368.8	369.9	362.3
17.5°	332.0	332.0	329.8	326.6
20°	300.6	300.6	298.5	294.2
22.5°	273.6	274.7	274.7	269.3
25°	252.0	252.0	252.0	246.6
27.5°	232.5	232.5	233.6	228.2
30°	216.3	216.3	216.3	212.0
32.5°	202.2	202.2	202.2	197.9
35°	190.3	190.3	189.3	186.0
37.5°	178.4	178.4	177.4	176.3
40°	167.6	167.6	167.6	164.4
42.5°	159.0	159.0	157.9	156.8
45°	149.2	149.2	148.2	147.1
47.5°	140.6	139.5	139.5	138.4
50°	131.9	131.9	130.9	129.8
52.5°	124.4	124.4	123.3	123.3
55°	116.8	115.7	115.7	114.6
57.5°	108.1	108.1	108.1	107.1
60°	100.6	100.6	99.5	99.5
62.5°	93.0	93.0	91.9	91.9
65°	85.4	85.4	84.4	84.4
67.5°	77.9	77.9	76.8	76.8
70°	70.3	70.3	69.2	70.3
72.5°	62.7	62.7	61.6	62.7
75°	55.2	55.2	55.2	55.2
77.5°	47.6	47.6	47.6	47.6
80°	40.0	40.0	40.0	40.0
82.5°	33.5	33.5	32.4	33.5
85°	27.0	27.0	27.0	27.0
87.5°	22.7	22.7	22.7	22.7
90°	20.5	20.5	20.5	21.6
92.5°	18.4	19.5	19.5	19.5
95°	13.0	13.0	13.0	14.1
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: P130056

CATALOG NUMBER: HL618TAT - HLM6930 - HL6FL - ERT702

**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)