

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: P130058

Luminaire Tested: **HL618TAT - HLM6940 - HL6FL - ERT702**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P130058  
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 - HLM6940 - 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 / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

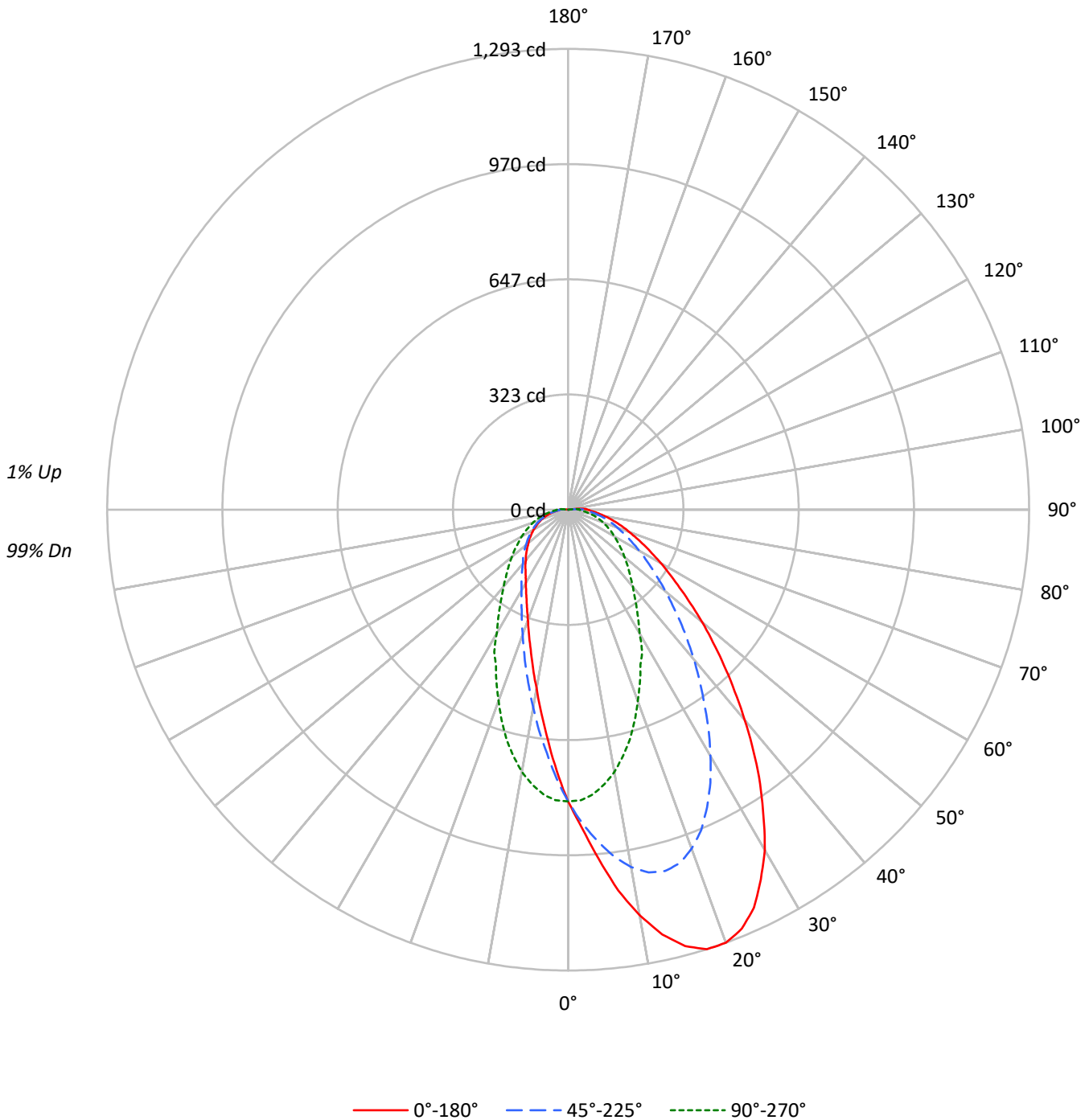
Lumens per Lamp: N/A  
Luminaire Lumens: 1598.2 lumens  
Efficiency: N/A  
Efficacy: 57.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.84 / 1.09  
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 27.6  
Input Voltage (V): NR  
Input Current (Ain): 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	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°	48857	48857	48857
5°	57568	46934	38004
10°	66879	43250	29511
15°	73132	38484	23399
20°	74896	33032	19073
25°	72231	28099	16180
30°	65912	23951	14180
35°	57647	20533	12798
40°	49067	17974	11723
45°	41263	16066	10984
50°	34587	14515	10248
55°	28773	13247	9679
60°	24551	12271	9107
65°	21134	11327	8493
70°	18319	10501	7939
75°	16258	9530	7145
80°	14274	8296	6143
85°	12740	7193	5140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.0	4.8
10°-20°	211.3	13.2
20°-30°	283.3	17.7
30°-40°	282.5	17.7
40°-50°	242.8	15.2
50°-60°	192.0	12.0
60°-70°	143.0	8.9
70°-80°	96.0	6.0
80°-90°	52.8	3.3
90°-100°	17.5	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°	571.5	35.8
0°-40°	854.0	53.4
0°-60°	1288.8	80.6
0°-90°	1580.6	98.9
90°-120°	17.5	1.1
90°-150°	17.5	1.1
90°-180°	18.0	1.1
0°-180°	1598.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	818	818	818	818	818	
5°	983	932	802	685	649	99
15°	1268	1050	667	459	406	357
25°	1233	921	480	309	276	561
35°	938	666	334	228	208	585
45°	619	444	241	176	165	479
55°	381	286	176	136	128	345
65°	235	184	126	100	94	234
75°	140	115	82	65	62	150
85°	75	62	42	32	30	67
90°	54	45	32	24	24	30
95°	34	12	22	6	16	16
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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	818.5	818.5	818.5	818.5	818.5	818.5	818.5	818.5	818.5	818.5	818.5
2.5°	893.6	903.2	900.8	886.3	902.0	900.8	886.3	885.1	877.8	879.0	874.2
5°	983.1	994.0	988.0	974.7	989.2	967.4	958.9	957.7	940.8	932.3	921.4
7.5°	1077.6	1084.9	1077.6	1058.2	1071.5	1041.3	1025.5	1023.1	996.5	980.7	962.6
10°	1155.1	1164.8	1157.5	1129.7	1144.2	1107.9	1103.0	1076.4	1040.1	1018.3	990.4
12.5°	1220.5	1231.4	1225.3	1195.0	1201.1	1157.5	1130.9	1115.1	1072.7	1042.5	1006.2
15°	1267.7	1278.6	1266.5	1235.0	1239.8	1191.4	1159.9	1138.1	1086.1	1049.7	1006.2
17.5°	1293.1	1302.8	1289.5	1255.6	1255.6	1204.7	1168.4	1141.8	1082.4	1040.1	990.4
20°	1293.1	1302.8	1289.5	1253.2	1250.7	1195.0	1157.5	1124.8	1061.8	1012.2	958.9
22.5°	1272.5	1283.4	1266.5	1228.9	1224.1	1167.2	1126.0	1092.1	1025.5	973.5	916.6
25°	1232.6	1238.6	1225.3	1186.6	1178.1	1122.4	1080.0	1043.7	975.9	921.4	865.7
27.5°	1169.6	1180.5	1164.8	1127.2	1121.2	1063.1	1019.5	983.1	914.1	863.3	805.2
30°	1103.0	1107.9	1092.1	1055.8	1047.3	992.8	950.5	910.5	848.8	797.9	743.4
32.5°	1019.5	1024.3	1009.8	975.9	968.6	916.6	875.4	840.3	779.7	732.5	679.2
35°	938.3	940.8	927.5	894.8	883.9	837.9	799.1	766.4	708.3	665.9	619.9
37.5°	853.6	859.6	842.7	814.9	801.5	764.0	725.3	693.8	641.7	605.4	563.0
40°	770.1	774.9	761.6	733.7	724.0	690.1	655.0	628.4	583.6	548.5	510.9
42.5°	691.4	696.2	685.3	659.9	652.6	618.7	592.1	565.4	526.7	494.0	460.1
45°	618.7	622.3	612.7	593.3	582.4	554.5	530.3	507.3	468.6	444.4	412.9
47.5°	550.9	552.1	542.4	521.8	520.6	492.8	471.0	451.6	418.9	397.1	371.7
50°	490.4	489.2	479.5	468.6	461.3	434.7	417.7	402.0	375.3	356.0	326.9
52.5°	432.2	433.5	425.0	412.9	414.1	388.7	371.7	358.4	335.4	318.4	300.3
55°	381.4	385.0	377.8	365.7	358.4	342.6	329.3	318.4	297.9	285.7	268.8
57.5°	337.8	340.2	335.4	324.5	318.4	303.9	293.0	284.5	266.4	256.7	242.2
60°	300.3	301.5	294.2	287.0	283.3	270.0	267.6	253.1	238.5	230.0	217.9
62.5°	265.2	266.4	262.7	253.1	250.6	239.7	232.5	225.2	213.1	205.8	193.7
65°	234.9	234.9	232.5	224.0	221.6	213.1	205.8	201.0	190.1	184.0	176.8
67.5°	205.8	207.0	203.4	198.6	194.9	188.9	182.8	179.2	169.5	164.7	157.4
70°	181.6	182.8	179.2	175.6	174.4	165.9	162.2	159.8	151.3	146.5	141.7
72.5°	161.0	159.8	157.4	155.0	152.6	147.7	142.9	140.4	134.4	130.8	125.9
75°	140.4	139.2	138.0	134.4	133.2	128.3	125.9	123.5	117.4	115.0	110.2
77.5°	122.3	121.1	119.9	117.4	116.2	111.4	109.0	107.8	102.9	100.5	96.9
80°	104.1	104.1	102.9	100.5	100.5	96.9	94.4	93.2	88.4	86.0	83.5
82.5°	88.4	88.4	87.2	86.0	84.8	82.3	79.9	78.7	75.1	72.6	70.2
85°	75.1	75.1	73.9	72.6	71.4	69.0	66.6	65.4	63.0	61.7	59.3
87.5°	63.0	63.0	61.7	60.5	59.3	58.1	56.9	55.7	53.3	52.1	49.6
90°	54.5	54.5	53.3	52.1	52.1	50.9	48.4	48.4	46.0	44.8	43.6
92.5°	49.6	49.6	49.6	47.2	46.0	43.6	41.2	37.5	33.9	32.7	32.7
95°	33.9	35.1	33.9	32.7	29.1	25.4	20.6	18.2	12.1	12.1	10.9
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



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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°	818.5	818.5	818.5	818.5	818.5	818.5	818.5	818.5	818.5	818.5	818.5
2.5°	857.2	864.5	852.4	835.4	846.3	834.2	825.7	816.1	801.5	806.4	785.8
5°	898.4	898.4	876.6	852.4	854.8	835.4	818.5	801.5	778.5	774.9	750.7
7.5°	929.9	922.6	892.3	859.6	856.0	825.7	802.7	777.3	749.5	738.6	709.5
10°	969.8	933.5	894.8	854.8	841.5	807.6	794.3	747.0	713.1	698.6	664.7
12.5°	956.5	932.3	886.3	839.1	820.9	778.5	743.4	708.3	672.0	651.4	617.5
15°	948.0	917.8	864.5	813.6	789.4	744.6	704.7	667.1	626.0	604.2	570.3
17.5°	928.7	891.1	834.2	778.5	749.5	701.0	659.9	619.9	578.7	557.0	521.8
20°	893.6	851.2	793.1	734.9	702.2	653.8	612.7	570.3	532.7	507.3	474.6
22.5°	852.4	805.2	744.6	682.9	653.8	604.2	565.4	525.5	486.7	462.5	432.2
25°	799.1	753.1	693.8	634.4	603.0	554.5	517.0	479.5	444.4	422.6	392.3
27.5°	742.2	696.2	639.3	584.8	553.3	507.3	471.0	449.2	406.8	385.0	358.4
30°	682.9	635.7	584.8	532.7	504.9	462.5	428.6	400.8	369.3	351.1	328.1
32.5°	623.5	583.6	535.2	485.5	460.1	422.6	391.1	365.7	339.0	322.1	301.5
35°	569.1	529.1	486.7	441.9	420.1	383.8	357.2	334.2	308.7	295.4	278.5
37.5°	515.8	481.9	441.9	403.2	381.4	349.9	326.9	305.1	284.5	272.4	256.7
40°	467.4	437.1	403.2	366.9	349.9	320.9	301.5	282.1	262.7	251.8	238.5
42.5°	432.2	395.9	365.7	333.0	319.6	294.2	277.3	259.1	242.2	232.5	221.6
45°	382.6	357.2	331.8	303.9	290.6	270.0	254.3	240.9	225.2	216.7	207.0
47.5°	345.1	323.3	302.7	277.3	266.4	249.4	238.5	222.8	209.5	201.0	193.7
50°	310.0	293.0	274.8	253.1	244.6	228.8	215.5	205.8	193.7	187.7	180.4
52.5°	280.9	265.2	249.4	231.3	224.0	210.7	199.8	191.3	180.4	174.4	167.1
55°	251.8	239.7	227.6	210.7	205.8	193.7	184.0	175.6	167.1	162.2	155.0
57.5°	227.6	217.9	207.0	192.5	188.9	178.0	169.5	162.2	155.0	150.1	144.1
60°	205.8	197.4	188.9	176.8	173.1	163.5	156.2	150.1	142.9	139.2	134.4
62.5°	186.5	179.2	170.7	159.8	157.4	150.1	142.9	138.0	132.0	128.3	123.5
65°	168.3	162.2	155.0	145.3	144.1	136.8	130.8	125.9	121.1	117.4	113.8
67.5°	151.3	145.3	140.4	132.0	129.6	123.5	118.7	115.0	110.2	107.8	104.1
70°	135.6	130.8	125.9	118.7	117.4	113.8	107.8	104.1	99.3	96.9	94.4
72.5°	119.9	116.2	111.4	106.5	104.1	100.5	95.7	93.2	89.6	88.4	86.0
75°	105.3	101.7	99.3	93.2	92.0	88.4	84.8	82.3	78.7	76.3	73.9
77.5°	92.0	89.6	87.2	81.1	79.9	77.5	73.9	71.4	69.0	66.6	64.2
80°	79.9	77.5	75.1	70.2	69.0	66.6	63.0	60.5	58.1	56.9	55.7
82.5°	67.8	65.4	63.0	59.3	58.1	55.7	53.3	50.9	48.4	47.2	46.0
85°	56.9	54.5	53.3	49.6	48.4	46.0	43.6	42.4	40.0	38.7	37.5
87.5°	48.4	46.0	44.8	41.2	41.2	38.7	36.3	35.1	33.9	32.7	31.5
90°	41.2	40.0	38.7	36.3	35.1	33.9	32.7	31.5	30.3	29.1	27.8
92.5°	32.7	32.7	32.7	31.5	32.7	31.5	30.3	29.1	27.8	26.6	25.4
95°	14.5	15.7	18.2	19.4	21.8	23.0	21.8	21.8	20.6	19.4	17.0
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: P130058

CATALOG NUMBER: HL618TAT - HLM6940 - 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: P130058

CATALOG NUMBER: HL618TAT - HLM6940 - HL6FL - ERT702

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	818.5	818.5	818.5	818.5	818.5	818.5	818.5	818.5	818.5	818.5	818.5
2.5°	787.0	791.8	779.7	780.9	766.4	754.3	749.5	751.9	738.6	748.3	750.7
5°	745.8	743.4	727.7	721.6	703.5	685.3	675.6	676.8	665.9	669.6	669.6
7.5°	699.8	692.6	670.8	663.5	641.7	624.8	611.4	607.8	596.9	595.7	595.7
10°	647.8	639.3	617.5	605.4	581.2	564.2	549.7	544.8	525.5	530.3	527.9
12.5°	599.3	592.1	564.2	550.9	525.5	507.3	494.0	489.2	477.0	473.4	472.2
15°	548.5	537.6	510.9	485.5	478.3	458.9	444.4	437.1	427.4	426.2	421.3
17.5°	501.3	487.9	463.7	450.4	426.2	412.9	400.8	393.5	385.0	383.8	380.2
20°	455.3	441.9	421.3	406.8	388.7	372.9	362.0	356.0	348.7	345.1	342.6
22.5°	415.3	402.0	381.4	370.5	353.5	339.0	329.3	324.5	317.2	316.0	312.4
25°	375.3	365.7	347.5	337.8	322.1	308.7	301.5	297.9	290.6	288.2	287.0
27.5°	343.9	334.2	318.4	308.7	294.2	284.5	277.3	274.8	268.8	267.6	265.2
30°	314.8	306.3	291.8	284.5	271.2	261.5	255.5	254.3	247.0	248.2	244.6
32.5°	290.6	283.3	270.0	262.7	253.1	243.4	238.5	236.1	231.3	231.3	228.8
35°	267.6	262.7	250.6	244.6	234.9	227.6	222.8	220.4	216.7	216.7	214.3
37.5°	247.0	242.2	233.7	227.6	219.1	211.9	208.3	205.8	203.4	202.2	201.0
40°	230.0	226.4	217.9	213.1	204.6	197.4	194.9	193.7	191.3	190.1	188.9
42.5°	214.3	211.9	204.6	199.8	192.5	187.7	184.0	182.8	179.2	179.2	179.2
45°	199.8	197.4	191.3	186.5	180.4	175.6	173.1	170.7	169.5	168.3	168.3
47.5°	186.5	185.2	179.2	175.6	169.5	165.9	162.2	161.0	158.6	158.6	157.4
50°	174.4	173.1	168.3	164.7	158.6	155.0	152.6	151.3	148.9	148.9	147.7
52.5°	163.5	161.0	157.4	153.8	148.9	145.3	142.9	141.7	140.4	140.4	139.2
55°	152.6	151.3	146.5	142.9	139.2	135.6	133.2	133.2	130.8	130.8	129.6
57.5°	141.7	140.4	136.8	133.2	129.6	127.1	124.7	123.5	122.3	122.3	121.1
60°	130.8	130.8	125.9	123.5	119.9	117.4	116.2	115.0	113.8	112.6	112.6
62.5°	117.4	119.9	117.4	113.8	111.4	109.0	106.5	106.5	105.3	104.1	104.1
65°	111.4	110.2	107.8	105.3	101.7	100.5	98.1	96.9	96.9	96.9	94.4
67.5°	99.3	100.5	98.1	95.7	93.2	90.8	89.6	88.4	87.2	87.2	87.2
70°	92.0	92.0	89.6	87.2	84.8	82.3	81.1	79.9	78.7	78.7	78.7
72.5°	82.3	82.3	79.9	77.5	75.1	73.9	72.6	71.4	71.4	70.2	70.2
75°	72.6	71.4	70.2	69.0	66.6	65.4	64.2	63.0	63.0	61.7	61.7
77.5°	63.0	61.7	60.5	59.3	56.9	56.9	54.5	54.5	54.5	53.3	53.3
80°	53.3	53.3	50.9	49.6	48.4	47.2	47.2	46.0	46.0	44.8	44.8
82.5°	43.6	43.6	42.4	41.2	40.0	38.7	38.7	37.5	37.5	37.5	36.3
85°	36.3	35.1	33.9	33.9	32.7	31.5	31.5	30.3	30.3	30.3	30.3
87.5°	30.3	30.3	29.1	27.8	26.6	26.6	26.6	25.4	25.4	25.4	25.4
90°	26.6	26.6	25.4	25.4	24.2	24.2	24.2	23.0	23.0	23.0	23.0
92.5°	24.2	23.0	21.8	19.4	18.2	17.0	18.2	18.2	19.4	20.6	20.6
95°	15.7	13.3	9.7	7.3	6.1	6.1	6.1	7.3	9.7	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: P130058

CATALOG NUMBER: HL618TAT - HLM6940 - 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: P130058

CATALOG NUMBER: HL618TAT - HLM6940 - HL6FL - ERT702

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	818.5	818.5	818.5	818.5
2.5°	738.6	738.6	744.6	733.7
5°	657.4	657.4	661.1	649.0
7.5°	587.2	583.6	583.6	575.1
10°	518.2	517.0	517.0	509.7
12.5°	462.5	461.3	463.7	455.3
15°	411.7	412.9	414.1	405.6
17.5°	371.7	371.7	369.3	365.7
20°	336.6	336.6	334.2	329.3
22.5°	306.3	307.5	307.5	301.5
25°	282.1	282.1	282.1	276.1
27.5°	260.3	260.3	261.5	255.5
30°	242.2	242.2	242.2	237.3
32.5°	226.4	226.4	226.4	221.6
35°	213.1	213.1	211.9	208.3
37.5°	199.8	199.8	198.6	197.4
40°	187.7	187.7	187.7	184.0
42.5°	178.0	178.0	176.8	175.6
45°	167.1	167.1	165.9	164.7
47.5°	157.4	156.2	156.2	155.0
50°	147.7	147.7	146.5	145.3
52.5°	139.2	139.2	138.0	138.0
55°	130.8	129.6	129.6	128.3
57.5°	121.1	121.1	121.1	119.9
60°	112.6	112.6	111.4	111.4
62.5°	104.1	104.1	102.9	102.9
65°	95.7	95.7	94.4	94.4
67.5°	87.2	87.2	86.0	86.0
70°	78.7	78.7	77.5	78.7
72.5°	70.2	70.2	69.0	70.2
75°	61.7	61.7	61.7	61.7
77.5°	53.3	53.3	53.3	53.3
80°	44.8	44.8	44.8	44.8
82.5°	37.5	37.5	36.3	37.5
85°	30.3	30.3	30.3	30.3
87.5°	25.4	25.4	25.4	25.4
90°	23.0	23.0	23.0	24.2
92.5°	20.6	21.8	21.8	21.8
95°	14.5	14.5	14.5	15.7
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: P130058

CATALOG NUMBER: HL618TAT - HLM6940 - 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)