

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: P130095

Luminaire Tested: **HL618TAT - HLM6927 - HL6NFL - ERT702**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33479)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HL618TAT - HLM6927 - HL6NFL - ERT702
Description: HALO ALLSLOPE 6" 30W, Drop Opal Plastic Lens, White Polymer Trim Ring "Dead Front", Wet Location - Showerlight using 25 Degree Optic at a 6-12 Pitch
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1408.9 lumens
Efficiency: N/A
Efficacy: 51.0 lumens/watt
Spacing Criteria (0/90/45): 1.5 / 0.84 / 1.15
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')
CIE Type: Direct

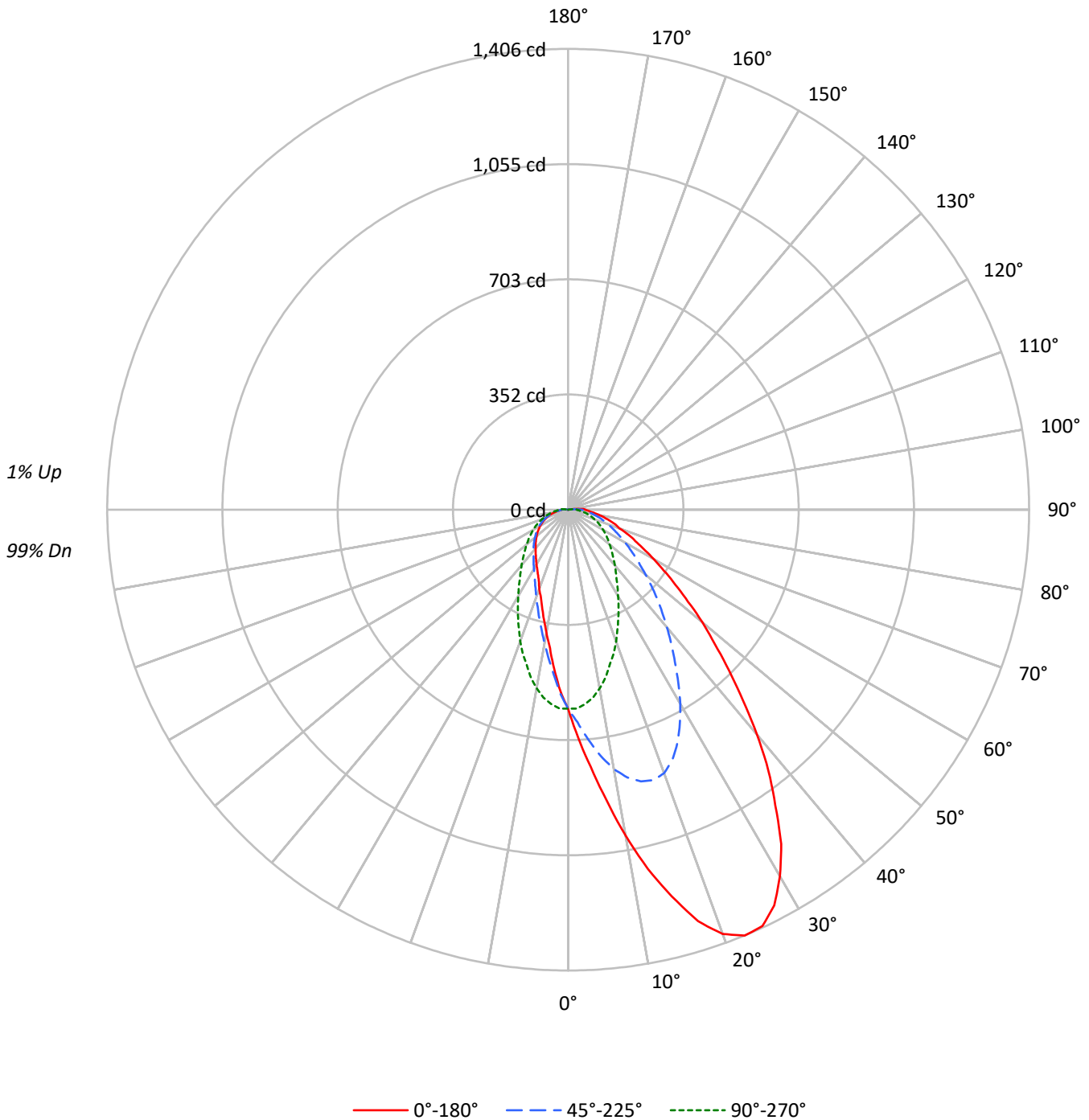
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	101	101	101	99
1	109	104	100	96	106	102	98	94	97	94	91	93	90	88	89	87	85	83
2	100	92	85	80	97	90	84	79	86	81	77	83	78	75	79	76	73	71
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	71	67	63	61
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	64	59	55	53
5	78	66	57	51	76	65	57	51	63	55	50	60	54	49	59	53	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	39	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	43	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	36244	36244	36244
5°	46096	34853	28523
10°	58495	32024	22065
15°	70455	28216	17716
20°	79779	24738	14891
25°	82123	21219	12781
30°	77165	18172	11539
35°	67661	15796	10567
40°	57101	14087	9876
45°	46232	12672	9337
50°	37598	11637	8887
55°	30108	10788	8449
60°	24535	10056	8012
65°	20342	9357	7558
70°	16847	8575	7061
75°	15285	7990	6369
80°	13437	6993	5485
85°	11705	6107	4750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	4.1
10°-20°	173.0	12.3
20°-30°	251.7	17.9
30°-40°	258.0	18.3
40°-50°	220.6	15.7
50°-60°	172.2	12.2
60°-70°	127.2	9.0
70°-80°	85.3	6.1
80°-90°	46.9	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°	483.1	34.3
0°-40°	741.1	52.6
0°-60°	1133.8	80.5
0°-90°	1393.2	98.9
90°-120°	15.7	1.1
90°-150°	15.7	1.1
90°-180°	16.0	1.1
0°-180°	1408.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	607	607	607	607	607	
5°	787	704	595	504	487	82
15°	1221	858	489	341	307	349
25°	1401	787	362	240	218	636
35°	1101	567	257	184	172	687
45°	693	383	190	148	140	539
55°	399	248	143	118	112	362
65°	226	161	104	88	84	227
75°	132	101	69	57	55	140
85°	69	55	36	28	28	62
90°	52	41	26	21	20	29
95°	31	9	19	6	13	15
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°	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2
2.5°	695.2	669.2	682.2	676.2	676.2	673.2	664.2	674.2	666.2	649.2	649.2
5°	787.2	765.2	777.2	763.2	761.2	755.2	740.2	744.2	729.2	704.2	699.2
7.5°	893.2	864.2	875.2	859.2	853.2	841.2	818.2	815.2	790.2	757.2	742.2
10°	1010.3	972.3	984.3	960.3	951.3	933.2	893.2	884.2	846.2	803.2	778.2
12.5°	1122.3	1084.3	1090.3	1063.3	1042.3	1014.3	965.3	944.2	896.2	837.2	803.2
15°	1221.3	1187.3	1192.3	1154.3	1125.3	1083.3	1022.3	991.3	930.2	858.2	815.2
17.5°	1316.3	1274.3	1273.3	1229.3	1199.3	1136.3	1065.3	1021.3	949.2	865.2	813.2
20°	1377.4	1335.4	1331.4	1275.3	1233.3	1166.3	1081.3	1029.3	947.2	855.2	797.2
22.5°	1406.4	1364.4	1354.4	1293.3	1245.3	1170.3	1076.3	1014.3	926.2	828.2	766.2
25°	1401.4	1358.4	1345.4	1280.3	1228.3	1146.3	1072.3	980.3	888.2	787.2	725.2
27.5°	1361.4	1319.3	1303.3	1241.3	1210.3	1101.3	999.3	928.2	837.2	737.2	676.2
30°	1291.3	1253.3	1236.3	1175.3	1117.3	1033.3	930.2	867.2	775.2	683.2	622.2
32.5°	1209.3	1167.3	1150.3	1092.3	1035.3	958.3	861.2	798.2	712.2	624.2	571.2
35°	1101.3	1075.3	1057.3	997.3	952.3	874.2	782.2	726.2	646.2	567.1	519.1
37.5°	1003.3	973.3	954.3	902.2	860.2	789.2	709.2	658.2	587.2	517.1	471.1
40°	896.2	871.2	858.2	807.2	768.2	707.2	641.2	593.2	532.1	468.1	430.1
42.5°	788.2	768.2	761.2	717.2	684.2	632.2	574.2	533.1	479.1	424.1	388.1
45°	693.2	676.2	670.2	633.2	606.2	562.1	515.1	477.1	431.1	383.1	352.1
47.5°	606.2	594.2	587.2	555.1	534.1	498.1	453.1	425.1	385.1	344.1	318.1
50°	533.1	516.1	514.1	484.1	468.1	436.1	400.1	378.1	344.1	308.1	287.1
52.5°	461.1	446.1	443.1	421.1	412.1	383.1	355.1	334.1	308.1	276.1	259.1
55°	399.1	387.1	384.1	370.1	360.1	337.1	312.1	297.1	274.1	248.1	234.1
57.5°	346.1	336.1	333.1	321.1	315.1	296.1	281.1	264.1	244.1	223.1	211.1
60°	300.1	292.1	291.1	280.1	276.1	261.1	243.1	234.1	219.1	200.1	191.1
62.5°	259.1	255.1	254.1	246.1	243.1	230.1	216.1	210.1	196.1	180.0	172.0
65°	226.1	224.1	222.1	215.1	213.1	203.1	191.1	186.0	175.0	161.0	155.0
67.5°	198.1	196.1	195.1	189.0	187.0	180.0	171.0	165.0	157.0	145.0	140.0
70°	167.0	171.0	171.0	166.0	165.0	158.0	151.0	146.0	140.0	129.0	126.0
72.5°	152.0	149.0	149.0	145.0	144.0	140.0	132.0	129.0	124.0	115.0	112.0
75°	132.0	130.0	130.0	126.0	126.0	126.0	116.0	114.0	109.0	101.0	99.0
77.5°	114.0	112.0	112.0	109.0	109.0	106.0	100.0	99.0	97.0	88.0	87.0
80°	98.0	96.0	96.0	93.0	93.0	90.0	86.0	85.0	81.0	76.0	75.0
82.5°	82.0	81.0	81.0	79.0	79.0	76.0	73.0	72.0	69.0	65.0	63.0
85°	69.0	69.0	69.0	67.0	67.0	64.0	62.0	61.0	58.0	55.0	54.0
87.5°	59.0	59.0	58.0	56.0	57.0	55.0	52.0	52.0	50.0	47.0	46.0
90°	52.0	51.0	51.0	50.0	50.0	48.0	47.0	45.0	43.0	41.0	40.0
92.5°	47.0	47.0	47.0	45.0	44.0	41.0	38.0	35.0	32.0	29.0	28.0
95°	31.0	32.0	32.0	31.0	28.0	24.0	19.0	16.0	12.0	9.0	9.0
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



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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°	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2
2.5°	640.2	640.2	644.2	622.2	622.2	620.2	612.2	607.2	592.2	589.2	584.2
5°	683.2	675.2	669.2	639.2	632.2	622.2	608.2	595.2	575.2	567.1	555.1
7.5°	717.2	698.2	686.2	649.2	633.2	617.2	595.2	578.2	552.1	539.1	525.1
10°	743.2	717.2	694.2	649.2	627.2	605.2	577.2	553.1	525.1	508.1	489.1
12.5°	758.2	721.2	692.2	639.2	599.2	583.2	552.1	525.1	494.1	476.1	455.1
15°	759.2	715.2	679.2	621.2	588.2	558.1	523.1	489.1	470.1	442.1	420.1
17.5°	749.2	699.2	658.2	596.2	560.1	526.1	491.1	461.1	430.1	409.1	387.1
20°	727.2	672.2	627.2	564.1	528.1	491.1	456.1	427.1	397.1	376.1	356.1
22.5°	692.2	638.2	591.2	528.1	493.1	457.1	423.1	393.1	365.1	345.1	326.1
25°	651.2	595.2	550.1	490.1	456.1	428.1	389.1	362.1	335.1	317.1	299.1
27.5°	603.2	550.1	507.1	450.1	419.1	387.1	355.1	332.1	307.1	291.1	275.1
30°	555.1	503.1	462.1	412.1	382.1	354.1	325.1	304.1	282.1	267.1	253.1
32.5°	509.1	461.1	423.1	377.1	350.1	324.1	299.1	280.1	261.1	248.1	236.1
35°	463.1	419.1	386.1	344.1	319.1	296.1	275.1	257.1	241.1	230.1	219.1
37.5°	423.1	382.1	351.1	315.1	293.1	272.1	254.1	238.1	223.1	213.1	203.1
40°	385.1	348.1	320.1	288.1	270.1	251.1	234.1	221.1	208.1	199.1	190.0
42.5°	350.1	318.1	293.1	264.1	247.1	233.1	217.1	205.1	193.1	186.0	179.0
45°	318.1	289.1	267.1	243.1	228.1	214.1	201.1	190.0	180.0	174.0	167.0
47.5°	288.1	263.1	246.1	224.1	211.1	198.1	186.0	177.0	169.0	163.0	157.0
50°	261.1	240.1	224.1	206.1	195.1	186.0	173.0	165.0	157.0	153.0	147.0
52.5°	237.1	218.1	205.1	188.0	179.0	170.0	161.0	154.0	146.0	143.0	138.0
55°	215.1	199.1	188.0	174.0	166.0	158.0	150.0	143.0	137.0	134.0	129.0
57.5°	195.1	181.0	172.0	159.0	152.0	146.0	138.0	133.0	127.0	124.0	121.0
60°	177.0	165.0	157.0	146.0	141.0	134.0	128.0	123.0	118.0	115.0	112.0
62.5°	161.0	150.0	143.0	134.0	129.0	123.0	118.0	114.0	109.0	107.0	104.0
65°	145.0	136.0	130.0	123.0	118.0	113.0	108.0	104.0	100.0	98.0	95.0
67.5°	131.0	124.0	119.0	112.0	107.0	104.0	99.0	96.0	92.0	90.0	87.0
70°	118.0	111.0	107.0	101.0	97.0	94.0	89.0	85.0	83.0	82.0	79.0
72.5°	105.0	99.0	95.0	90.0	87.0	84.0	80.0	77.0	75.0	76.0	71.0
75°	93.0	88.0	85.0	80.0	77.0	75.0	71.0	69.0	66.0	65.0	63.0
77.5°	81.0	77.0	74.0	70.0	68.0	65.0	62.0	60.0	57.0	57.0	54.0
80°	70.0	66.0	63.0	59.0	58.0	56.0	54.0	51.0	49.0	48.0	46.0
82.5°	60.0	57.0	54.0	51.0	49.0	47.0	45.0	43.0	41.0	40.0	38.0
85°	50.0	48.0	45.0	43.0	41.0	39.0	37.0	36.0	34.0	33.0	31.0
87.5°	43.0	41.0	39.0	37.0	35.0	33.0	31.0	30.0	28.0	28.0	26.0
90°	37.0	36.0	34.0	32.0	31.0	29.0	28.0	26.0	25.0	24.0	23.0
92.5°	28.0	29.0	28.0	28.0	28.0	27.0	26.0	25.0	24.0	23.0	22.0
95°	10.0	13.0	14.0	17.0	18.0	20.0	19.0	19.0	17.0	17.0	15.0
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: P130095

CATALOG NUMBER: HL618TAT - HLM6927 - HL6NFL - 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: P130095

CATALOG NUMBER: HL618TAT - HLM6927 - HL6NFL - ERT702

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2
2.5°	575.2	577.2	575.2	569.1	565.1	560.1	558.1	551.1	555.1	548.1	552.1
5°	542.1	540.1	532.1	523.1	514.1	504.1	501.1	494.1	483.1	487.1	488.1
7.5°	506.1	500.1	489.1	478.1	469.1	457.1	452.1	441.1	440.1	434.1	434.1
10°	471.1	462.1	450.1	438.1	424.1	414.1	408.1	397.1	394.1	388.1	388.1
12.5°	435.1	424.1	411.1	399.1	386.1	374.1	368.1	358.1	354.1	349.1	346.1
15°	400.1	388.1	375.1	362.1	350.1	341.1	333.1	324.1	321.1	309.1	312.1
17.5°	367.1	357.1	343.1	331.1	320.1	310.1	303.1	295.1	291.1	286.1	285.1
20°	337.1	327.1	314.1	302.1	292.1	284.1	277.1	269.1	265.1	261.1	261.1
22.5°	308.1	299.1	288.1	277.1	274.1	260.1	254.1	246.1	245.1	240.1	239.1
25°	283.1	275.1	265.1	256.1	247.1	240.1	235.1	228.1	226.1	223.1	222.1
27.5°	261.1	253.1	245.1	237.1	229.1	224.1	218.1	213.1	211.1	208.1	207.1
30°	241.1	235.1	227.1	220.1	213.1	208.1	205.1	199.1	197.1	195.1	194.1
32.5°	225.1	219.1	212.1	207.1	200.1	196.1	193.1	188.0	186.0	184.0	184.0
35°	209.1	204.1	198.1	193.1	188.0	184.0	181.0	177.0	176.0	173.0	174.0
37.5°	195.1	191.1	186.0	182.0	177.0	174.0	171.0	167.0	166.0	165.0	165.0
40°	183.0	180.0	175.0	168.0	167.0	164.0	162.0	158.0	158.0	156.0	156.0
42.5°	172.0	169.0	165.0	162.0	158.0	156.0	154.0	151.0	150.0	148.0	149.0
45°	162.0	159.0	156.0	154.0	149.0	148.0	146.0	143.0	142.0	140.0	141.0
47.5°	152.0	150.0	148.0	145.0	142.0	140.0	138.0	135.0	135.0	133.0	134.0
50°	143.0	141.0	139.0	137.0	133.0	132.0	131.0	128.0	127.0	126.0	127.0
52.5°	134.0	133.0	131.0	129.0	126.0	125.0	123.0	121.0	120.0	119.0	120.0
55°	126.0	125.0	123.0	121.0	118.0	118.0	116.0	114.0	113.0	112.0	113.0
57.5°	117.0	117.0	115.0	114.0	111.0	110.0	109.0	106.0	106.0	105.0	106.0
60°	110.0	109.0	110.0	106.0	103.0	102.0	101.0	99.0	99.0	98.0	99.0
62.5°	101.0	101.0	100.0	99.0	96.0	96.0	94.0	92.0	92.0	91.0	92.0
65°	93.0	93.0	92.0	91.0	89.0	88.0	87.0	85.0	85.0	84.0	85.0
67.5°	86.0	85.0	84.0	83.0	81.0	81.0	79.0	78.0	77.0	77.0	78.0
70°	78.0	77.0	77.0	75.0	74.0	73.0	72.0	71.0	70.0	69.0	70.0
72.5°	70.0	69.0	69.0	68.0	66.0	65.0	64.0	63.0	63.0	62.0	63.0
75°	62.0	61.0	61.0	59.0	58.0	57.0	56.0	55.0	55.0	55.0	55.0
77.5°	53.0	53.0	52.0	51.0	50.0	49.0	49.0	48.0	47.0	47.0	48.0
80°	45.0	45.0	44.0	43.0	42.0	42.0	41.0	40.0	40.0	39.0	40.0
82.5°	37.0	37.0	36.0	36.0	34.0	35.0	34.0	33.0	33.0	33.0	33.0
85°	31.0	30.0	29.0	29.0	28.0	28.0	28.0	27.0	27.0	27.0	27.0
87.5°	25.0	25.0	24.0	24.0	23.0	23.0	23.0	23.0	22.0	22.0	23.0
90°	22.0	22.0	22.0	21.0	21.0	21.0	21.0	20.0	20.0	20.0	20.0
92.5°	21.0	20.0	19.0	18.0	16.0	16.0	16.0	17.0	17.0	18.0	19.0
95°	13.0	11.0	9.0	7.0	6.0	6.0	5.0	7.0	8.0	10.0	12.0
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: P130095

CATALOG NUMBER: HL618TAT - HLM6927 - HL6NFL - 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: P130095

CATALOG NUMBER: HL618TAT - HLM6927 - HL6NFL - ERT702

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	607.2	607.2	607.2	607.2
2.5°	555.1	544.1	538.1	553.1
5°	488.1	478.1	470.1	487.1
7.5°	432.1	426.1	418.1	426.1
10°	386.1	371.1	370.1	381.1
12.5°	345.1	337.1	332.1	342.1
15°	311.1	304.1	299.1	307.1
17.5°	284.1	278.1	272.1	278.1
20°	259.1	253.1	248.1	257.1
22.5°	238.1	234.1	228.1	234.1
25°	221.1	217.1	212.1	218.1
27.5°	207.1	203.1	199.1	204.1
30°	194.1	191.1	187.0	193.1
32.5°	183.0	177.0	177.0	182.0
35°	173.0	171.0	167.0	172.0
37.5°	164.0	162.0	159.0	163.0
40°	156.0	154.0	151.0	155.0
42.5°	147.0	147.0	143.0	147.0
45°	141.0	139.0	136.0	140.0
47.5°	134.0	132.0	129.0	133.0
50°	127.0	125.0	123.0	126.0
52.5°	120.0	119.0	115.0	119.0
55°	113.0	112.0	109.0	112.0
57.5°	106.0	105.0	102.0	105.0
60°	99.0	98.0	96.0	98.0
62.5°	92.0	91.0	89.0	91.0
65°	85.0	84.0	82.0	84.0
67.5°	77.0	77.0	75.0	77.0
70°	70.0	70.0	68.0	70.0
72.5°	63.0	63.0	61.0	63.0
75°	56.0	55.0	53.0	55.0
77.5°	48.0	47.0	47.0	47.0
80°	40.0	40.0	39.0	40.0
82.5°	33.0	33.0	32.0	33.0
85°	27.0	27.0	26.0	28.0
87.5°	23.0	23.0	22.0	22.0
90°	20.0	20.0	20.0	20.0
92.5°	19.0	19.0	19.0	19.0
95°	13.0	14.0	13.0	13.0
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: P130095

CATALOG NUMBER: HL618TAT - HLM6927 - HL6NFL - 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)