

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: P130057

Luminaire Tested: **HL618TAT - HLM6935 - HL6FL - ERT702**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130057
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 - HLM6935 - 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 / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1514.6 lumens
Efficiency: N/A
Efficacy: 54.9 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

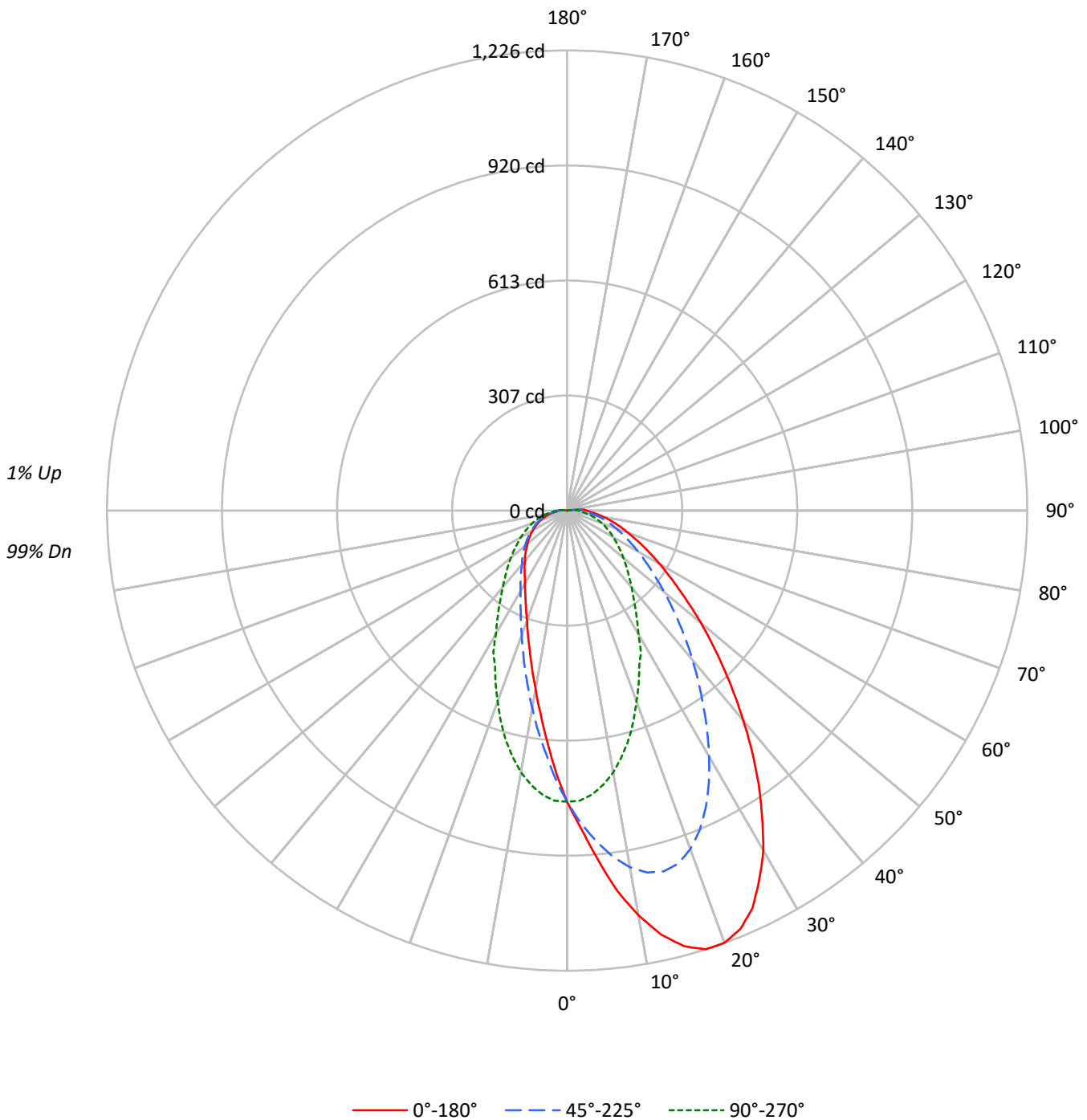
Input Watts (W): 27.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	46302	46302	46302
5°	54558	44480	36013
10°	63382	40992	27971
15°	69307	36471	22176
20°	70981	31300	18077
25°	68451	26628	15330
30°	62464	22696	13439
35°	54637	19457	12128
40°	46499	17037	11112
45°	39102	15226	10411
50°	32774	13760	9712
55°	27264	12553	9173
60°	23267	11634	8633
65°	20028	10734	8052
70°	17361	9957	7525
75°	15412	9032	6774
80°	13533	7870	5827
85°	12062	6820	4869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	4.8
10°-20°	200.3	13.2
20°-30°	268.5	17.7
30°-40°	267.7	17.7
40°-50°	230.1	15.2
50°-60°	182.0	12.0
60°-70°	135.5	8.9
70°-80°	91.0	6.0
80°-90°	50.0	3.3
90°-100°	16.6	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°	541.6	35.8
0°-40°	809.3	53.4
0°-60°	1221.4	80.6
0°-90°	1498.0	98.9
90°-120°	16.6	1.1
90°-150°	16.6	1.1
90°-180°	17.0	1.1
0°-180°	1514.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	776	776	776	776	776	
5°	932	884	760	650	615	94
15°	1201	995	632	435	384	338
25°	1168	873	454	293	262	532
35°	889	631	317	216	197	554
45°	586	421	228	166	156	454
55°	361	271	166	128	122	327
65°	223	174	119	95	90	222
75°	133	109	78	62	58	142
85°	71	58	40	30	29	64
90°	52	42	30	23	23	29
95°	32	12	21	6	15	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°	775.7	775.7	775.7	775.7	775.7	775.7	775.7	775.7	775.7	775.7	775.7
2.5°	846.8	856.0	853.7	839.9	854.8	853.7	839.9	838.8	831.9	833.0	828.5
5°	931.7	942.0	936.3	923.7	937.5	916.8	908.8	907.6	891.6	883.5	873.2
7.5°	1021.2	1028.1	1021.2	1002.9	1015.5	986.8	971.9	969.6	944.3	929.4	912.2
10°	1094.7	1103.8	1097.0	1070.6	1084.3	1049.9	1045.3	1020.1	985.7	965.0	938.6
12.5°	1156.6	1166.9	1161.2	1132.5	1138.3	1097.0	1071.7	1056.8	1016.6	987.9	953.5
15°	1201.4	1211.7	1200.2	1170.4	1175.0	1129.1	1099.2	1078.6	1029.3	994.8	953.5
17.5°	1225.5	1234.6	1222.0	1189.9	1189.9	1141.7	1107.3	1082.0	1025.8	985.7	938.6
20°	1225.5	1234.6	1222.0	1187.6	1185.3	1132.5	1097.0	1066.0	1006.3	959.3	908.8
22.5°	1206.0	1216.3	1200.2	1164.7	1160.1	1106.1	1067.1	1035.0	971.9	922.5	868.6
25°	1168.1	1173.8	1161.2	1124.5	1116.5	1063.7	1023.5	989.1	924.8	873.2	820.4
27.5°	1108.4	1118.8	1103.8	1068.3	1062.5	1007.5	966.1	931.7	866.3	818.1	763.0
30°	1045.3	1049.9	1035.0	1000.6	992.5	940.9	900.7	862.9	804.4	756.2	704.5
32.5°	966.1	970.7	957.0	924.8	918.0	868.6	829.6	796.3	739.0	694.2	643.7
35°	889.3	891.6	878.9	848.0	837.6	794.0	757.3	726.3	671.3	631.1	587.5
37.5°	808.9	814.7	798.6	772.2	759.6	724.0	687.3	657.5	608.1	573.7	533.6
40°	729.8	734.4	721.7	695.3	686.2	654.0	620.8	595.5	553.1	519.8	484.2
42.5°	655.2	659.8	649.5	625.4	618.5	586.3	561.1	535.9	499.1	468.2	436.0
45°	586.3	589.8	580.6	562.2	551.9	525.5	502.6	480.8	444.1	421.1	391.3
47.5°	522.1	523.2	514.1	494.5	493.4	467.0	446.4	428.0	397.0	376.4	352.3
50°	464.7	463.6	454.4	444.1	437.2	411.9	395.9	381.0	355.7	337.3	309.8
52.5°	409.6	410.8	402.8	391.3	392.4	368.3	352.3	339.6	317.8	301.8	284.6
55°	361.4	364.9	358.0	346.5	339.6	324.7	312.1	301.8	282.3	270.8	254.7
57.5°	320.1	322.4	317.8	307.5	301.8	288.0	277.7	269.6	252.4	243.3	229.5
60°	284.6	285.7	278.8	271.9	268.5	255.9	253.6	239.8	226.0	218.0	206.5
62.5°	251.3	252.4	249.0	239.8	237.5	227.2	220.3	213.4	201.9	195.1	183.6
65°	222.6	222.6	220.3	212.3	210.0	201.9	195.1	190.5	180.1	174.4	167.5
67.5°	195.1	196.2	192.8	188.2	184.7	179.0	173.3	169.8	160.6	156.1	149.2
70°	172.1	173.3	169.8	166.4	165.2	157.2	153.8	151.5	143.4	138.8	134.3
72.5°	152.6	151.5	149.2	146.9	144.6	140.0	135.4	133.1	127.4	123.9	119.3
75°	133.1	132.0	130.8	127.4	126.2	121.6	119.3	117.0	111.3	109.0	104.4
77.5°	115.9	114.7	113.6	111.3	110.2	105.6	103.3	102.1	97.5	95.2	91.8
80°	98.7	98.7	97.5	95.2	95.2	91.8	89.5	88.4	83.8	81.5	79.2
82.5°	83.8	83.8	82.6	81.5	80.3	78.0	75.7	74.6	71.1	68.8	66.6
85°	71.1	71.1	70.0	68.8	67.7	65.4	63.1	62.0	59.7	58.5	56.2
87.5°	59.7	59.7	58.5	57.4	56.2	55.1	53.9	52.8	50.5	49.3	47.0
90°	51.6	51.6	50.5	49.3	49.3	48.2	45.9	45.9	43.6	42.5	41.3
92.5°	47.0	47.0	47.0	44.8	43.6	41.3	39.0	35.6	32.1	31.0	31.0
95°	32.1	33.3	32.1	31.0	27.5	24.1	19.5	17.2	11.5	11.5	10.3
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



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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°	775.7	775.7	775.7	775.7	775.7	775.7	775.7	775.7	775.7	775.7	775.7
2.5°	812.4	819.3	807.8	791.7	802.1	790.6	782.6	773.4	759.6	764.2	744.7
5°	851.4	851.4	830.7	807.8	810.1	791.7	775.7	759.6	737.8	734.4	711.4
7.5°	881.2	874.3	845.7	814.7	811.2	782.6	760.8	736.7	710.3	699.9	672.4
10°	919.1	884.7	848.0	810.1	797.5	765.3	752.7	708.0	675.8	662.1	629.9
12.5°	906.5	883.5	839.9	795.2	778.0	737.8	704.5	671.3	636.8	617.3	585.2
15°	898.4	869.8	819.3	771.1	748.1	705.7	667.8	632.2	593.2	572.6	540.4
17.5°	880.1	844.5	790.6	737.8	710.3	664.4	625.4	587.5	548.5	527.8	494.5
20°	846.8	806.7	751.6	696.5	665.5	619.6	580.6	540.4	504.9	480.8	449.8
22.5°	807.8	763.0	705.7	647.2	619.6	572.6	535.9	498.0	461.3	438.3	409.6
25°	757.3	713.7	657.5	601.3	571.4	525.5	490.0	454.4	421.1	400.5	371.8
27.5°	703.4	659.8	605.8	554.2	524.4	480.8	446.4	425.7	385.5	364.9	339.6
30°	647.2	602.4	554.2	504.9	478.5	438.3	406.2	379.8	350.0	332.8	311.0
32.5°	590.9	553.1	507.2	460.1	436.0	400.5	370.6	346.5	321.3	305.2	285.7
35°	539.3	501.4	461.3	418.8	398.2	363.7	338.5	316.7	292.6	280.0	263.9
37.5°	488.8	456.7	418.8	382.1	361.4	331.6	309.8	289.2	269.6	258.2	243.3
40°	442.9	414.2	382.1	347.7	331.6	304.1	285.7	267.4	249.0	238.7	226.0
42.5°	409.6	375.2	346.5	315.5	302.9	278.8	262.8	245.6	229.5	220.3	210.0
45°	362.6	338.5	314.4	288.0	275.4	255.9	241.0	228.3	213.4	205.4	196.2
47.5°	327.0	306.4	286.9	262.8	252.4	236.4	226.0	211.1	198.5	190.5	183.6
50°	293.7	277.7	260.5	239.8	231.8	216.9	204.2	195.1	183.6	177.9	171.0
52.5°	266.2	251.3	236.4	219.2	212.3	199.7	189.3	181.3	171.0	165.2	158.3
55°	238.7	227.2	215.7	199.7	195.1	183.6	174.4	166.4	158.3	153.8	146.9
57.5°	215.7	206.5	196.2	182.4	179.0	168.7	160.6	153.8	146.9	142.3	136.5
60°	195.1	187.0	179.0	167.5	164.1	154.9	148.0	142.3	135.4	132.0	127.4
62.5°	176.7	169.8	161.8	151.5	149.2	142.3	135.4	130.8	125.1	121.6	117.0
65°	159.5	153.8	146.9	137.7	136.5	129.7	123.9	119.3	114.7	111.3	107.9
67.5°	143.4	137.7	133.1	125.1	122.8	117.0	112.4	109.0	104.4	102.1	98.7
70°	128.5	123.9	119.3	112.4	111.3	107.9	102.1	98.7	94.1	91.8	89.5
72.5°	113.6	110.2	105.6	101.0	98.7	95.2	90.6	88.4	84.9	83.8	81.5
75°	99.8	96.4	94.1	88.4	87.2	83.8	80.3	78.0	74.6	72.3	70.0
77.5°	87.2	84.9	82.6	76.9	75.7	73.4	70.0	67.7	65.4	63.1	60.8
80°	75.7	73.4	71.1	66.6	65.4	63.1	59.7	57.4	55.1	53.9	52.8
82.5°	64.3	62.0	59.7	56.2	55.1	52.8	50.5	48.2	45.9	44.8	43.6
85°	53.9	51.6	50.5	47.0	45.9	43.6	41.3	40.2	37.9	36.7	35.6
87.5°	45.9	43.6	42.5	39.0	39.0	36.7	34.4	33.3	32.1	31.0	29.8
90°	39.0	37.9	36.7	34.4	33.3	32.1	31.0	29.8	28.7	27.5	26.4
92.5°	31.0	31.0	31.0	29.8	31.0	29.8	28.7	27.5	26.4	25.2	24.1
95°	13.8	14.9	17.2	18.4	20.7	21.8	20.7	20.7	19.5	18.4	16.1
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: P130057

CATALOG NUMBER: HL618TAT - HLM6935 - 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: P130057

CATALOG NUMBER: HL618TAT - HLM6935 - HL6FL - ERT702

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	775.7	775.7	775.7	775.7	775.7	775.7	775.7	775.7	775.7	775.7	775.7
2.5°	745.8	750.4	739.0	740.1	726.3	714.9	710.3	712.6	699.9	709.1	711.4
5°	706.8	704.5	689.6	683.9	666.7	649.5	640.3	641.4	631.1	634.5	634.5
7.5°	663.2	656.3	635.7	628.8	608.1	592.1	579.5	576.0	565.7	564.5	564.5
10°	613.9	605.8	585.2	573.7	550.8	534.7	520.9	516.3	498.0	502.6	500.3
12.5°	568.0	561.1	534.7	522.1	498.0	480.8	468.2	463.6	452.1	448.6	447.5
15°	519.8	509.5	484.2	460.1	453.2	434.9	421.1	414.2	405.0	403.9	399.3
17.5°	475.0	462.4	439.5	426.8	403.9	391.3	379.8	372.9	364.9	363.7	360.3
20°	431.4	418.8	399.3	385.5	368.3	353.4	343.1	337.3	330.5	327.0	324.7
22.5°	393.6	381.0	361.4	351.1	335.1	321.3	312.1	307.5	300.6	299.5	296.0
25°	355.7	346.5	329.3	320.1	305.2	292.6	285.7	282.3	275.4	273.1	271.9
27.5°	325.9	316.7	301.8	292.6	278.8	269.6	262.8	260.5	254.7	253.6	251.3
30°	298.3	290.3	276.5	269.6	257.0	247.8	242.1	241.0	234.1	235.2	231.8
32.5°	275.4	268.5	255.9	249.0	239.8	230.6	226.0	223.8	219.2	219.2	216.9
35°	253.6	249.0	237.5	231.8	222.6	215.7	211.1	208.8	205.4	205.4	203.1
37.5°	234.1	229.5	221.5	215.7	207.7	200.8	197.4	195.1	192.8	191.6	190.5
40°	218.0	214.6	206.5	201.9	193.9	187.0	184.7	183.6	181.3	180.1	179.0
42.5°	203.1	200.8	193.9	189.3	182.4	177.9	174.4	173.3	169.8	169.8	169.8
45°	189.3	187.0	181.3	176.7	171.0	166.4	164.1	161.8	160.6	159.5	159.5
47.5°	176.7	175.6	169.8	166.4	160.6	157.2	153.8	152.6	150.3	150.3	149.2
50°	165.2	164.1	159.5	156.1	150.3	146.9	144.6	143.4	141.1	141.1	140.0
52.5°	154.9	152.6	149.2	145.7	141.1	137.7	135.4	134.3	133.1	133.1	132.0
55°	144.6	143.4	138.8	135.4	132.0	128.5	126.2	126.2	123.9	123.9	122.8
57.5°	134.3	133.1	129.7	126.2	122.8	120.5	118.2	117.0	115.9	115.9	114.7
60°	123.9	123.9	119.3	117.0	113.6	111.3	110.2	109.0	107.9	106.7	106.7
62.5°	111.3	113.6	111.3	107.9	105.6	103.3	101.0	101.0	99.8	98.7	98.7
65°	105.6	104.4	102.1	99.8	96.4	95.2	92.9	91.8	91.8	91.8	89.5
67.5°	94.1	95.2	92.9	90.6	88.4	86.1	84.9	83.8	82.6	82.6	82.6
70°	87.2	87.2	84.9	82.6	80.3	78.0	76.9	75.7	74.6	74.6	74.6
72.5°	78.0	78.0	75.7	73.4	71.1	70.0	68.8	67.7	67.7	66.6	66.6
75°	68.8	67.7	66.6	65.4	63.1	62.0	60.8	59.7	59.7	58.5	58.5
77.5°	59.7	58.5	57.4	56.2	53.9	53.9	51.6	51.6	51.6	50.5	50.5
80°	50.5	50.5	48.2	47.0	45.9	44.8	44.8	43.6	43.6	42.5	42.5
82.5°	41.3	41.3	40.2	39.0	37.9	36.7	36.7	35.6	35.6	35.6	34.4
85°	34.4	33.3	32.1	32.1	31.0	29.8	29.8	28.7	28.7	28.7	28.7
87.5°	28.7	28.7	27.5	26.4	25.2	25.2	25.2	24.1	24.1	24.1	24.1
90°	25.2	25.2	24.1	24.1	22.9	22.9	22.9	21.8	21.8	21.8	21.8
92.5°	22.9	21.8	20.7	18.4	17.2	16.1	17.2	17.2	18.4	19.5	19.5
95°	14.9	12.6	9.2	6.9	5.7	5.7	5.7	6.9	9.2	10.3	12.6
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: P130057

CATALOG NUMBER: HL618TAT - HLM6935 - 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: P130057

CATALOG NUMBER: HL618TAT - HLM6935 - HL6FL - ERT702

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	775.7	775.7	775.7	775.7
2.5°	699.9	699.9	705.7	695.3
5°	623.1	623.1	626.5	615.0
7.5°	556.5	553.1	553.1	545.0
10°	491.1	490.0	490.0	483.1
12.5°	438.3	437.2	439.5	431.4
15°	390.1	391.3	392.4	384.4
17.5°	352.3	352.3	350.0	346.5
20°	319.0	319.0	316.7	312.1
22.5°	290.3	291.4	291.4	285.7
25°	267.4	267.4	267.4	261.6
27.5°	246.7	246.7	247.8	242.1
30°	229.5	229.5	229.5	224.9
32.5°	214.6	214.6	214.6	210.0
35°	201.9	201.9	200.8	197.4
37.5°	189.3	189.3	188.2	187.0
40°	177.9	177.9	177.9	174.4
42.5°	168.7	168.7	167.5	166.4
45°	158.3	158.3	157.2	156.1
47.5°	149.2	148.0	148.0	146.9
50°	140.0	140.0	138.8	137.7
52.5°	132.0	132.0	130.8	130.8
55°	123.9	122.8	122.8	121.6
57.5°	114.7	114.7	114.7	113.6
60°	106.7	106.7	105.6	105.6
62.5°	98.7	98.7	97.5	97.5
65°	90.6	90.6	89.5	89.5
67.5°	82.6	82.6	81.5	81.5
70°	74.6	74.6	73.4	74.6
72.5°	66.6	66.6	65.4	66.6
75°	58.5	58.5	58.5	58.5
77.5°	50.5	50.5	50.5	50.5
80°	42.5	42.5	42.5	42.5
82.5°	35.6	35.6	34.4	35.6
85°	28.7	28.7	28.7	28.7
87.5°	24.1	24.1	24.1	24.1
90°	21.8	21.8	21.8	22.9
92.5°	19.5	20.7	20.7	20.7
95°	13.8	13.8	13.8	14.9
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: P130057

CATALOG NUMBER: HL618TAT - HLM6935 - 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)