

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: P130185

Luminaire Tested: **HL612ICAT - HLM6927 - HL6FL - 71PS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P130185
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: HL612ICAT - HLM6927 - HL6FL - 71PS
Description: HALO ALLSLOPE 6" 21W, 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 / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 764.3 lumens
Efficiency: N/A
Efficacy: 40.0 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

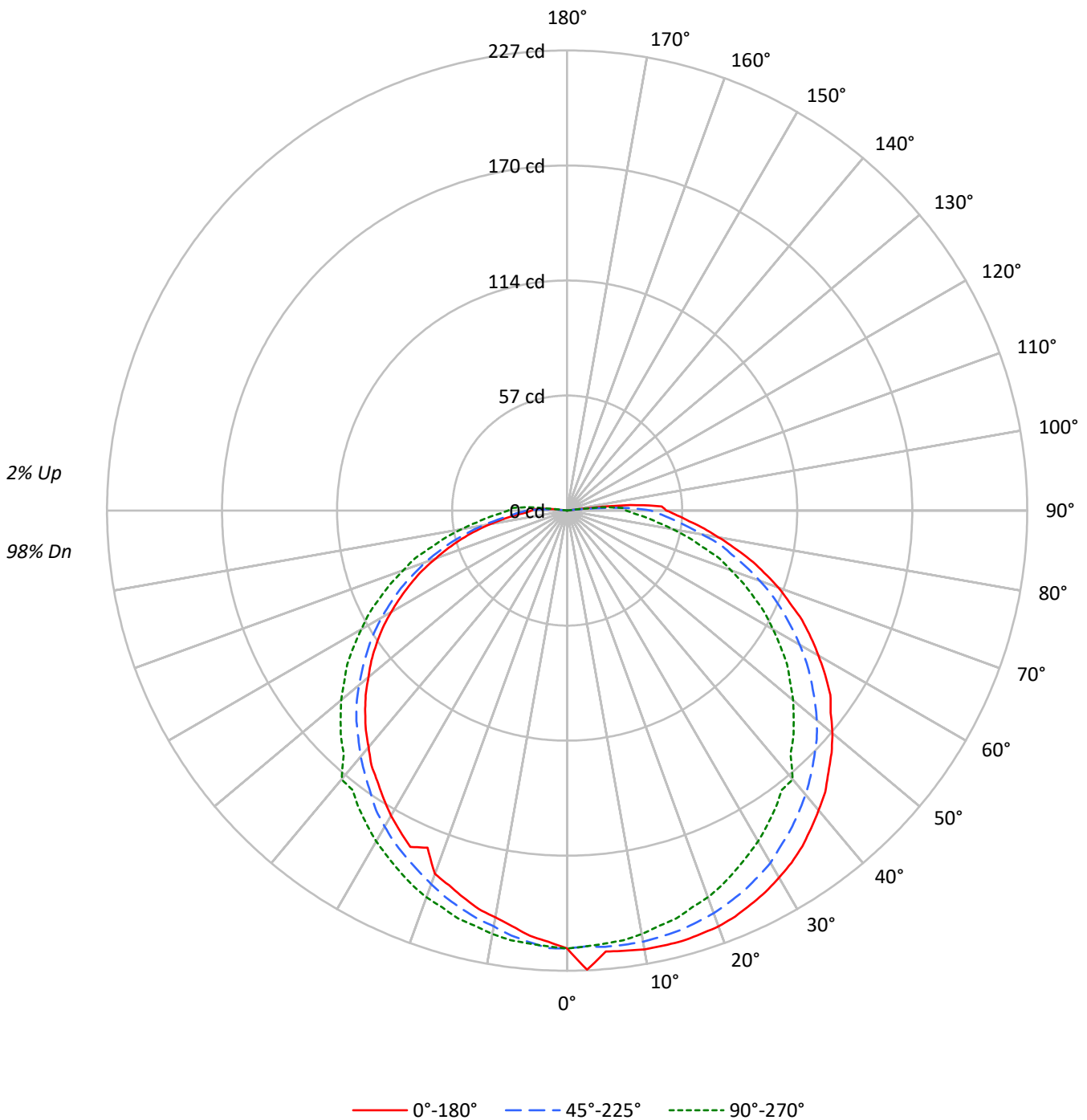
Input Watts (W): 19.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12893	12893	12893
5°	12783	12555	12332
10°	12726	12280	11794
15°	12680	12017	11399
20°	12644	11758	11045
25°	12564	11492	10724
30°	12495	11258	10386
35°	12423	11010	10021
40°	12297	11029	9710
45°	12158	10524	9397
50°	12046	10262	9021
55°	11957	9996	8668
60°	11707	9582	8200
65°	11507	9168	7648
70°	11197	8655	6950
75°	10815	7978	6207
80°	10393	7240	5252
85°	10263	6633	4292



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.4	2.7
10°-20°	59.0	7.7
20°-30°	91.2	11.9
30°-40°	113.3	14.8
40°-50°	123.1	16.1
50°-60°	119.5	15.6
60°-70°	102.6	13.4
70°-80°	75.0	9.8
80°-90°	45.0	5.9
90°-100°	15.2	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°	170.6	22.3
0°-40°	283.9	37.1
0°-60°	526.5	68.9
0°-90°	749.1	98.0
90°-120°	15.2	2.0
90°-150°	15.2	2.0
90°-180°	15.0	2.0
0°-180°	764.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	216	216	216	216	216	
5°	218	216	214	214	211	21
15°	220	214	208	203	198	62
25°	214	207	196	188	183	99
35°	202	192	179	169	163	127
45°	182	172	158	147	141	141
55°	158	147	132	120	115	141
65°	128	117	102	90	85	126
75°	93	84	69	58	54	98
85°	60	53	39	28	25	53
90°	49	41	29	20	18	27
95°	31	10	19	4	9	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°	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
2.5°	226.7	216.7	220.6	218.3	216.0	218.3	216.7	219.8	214.4	215.2	216.0
5°	218.3	218.3	222.1	219.8	216.7	219.0	218.3	220.6	215.2	216.0	216.7
7.5°	219.0	219.8	222.9	219.8	217.5	219.8	218.3	220.6	216.0	216.0	216.7
10°	219.8	219.8	222.9	220.6	218.3	219.8	218.3	220.6	216.0	216.0	216.7
12.5°	219.8	220.6	223.6	220.6	218.3	219.8	218.3	219.8	216.0	215.2	216.0
15°	219.8	224.4	222.9	219.8	217.5	219.0	217.5	219.8	214.4	214.4	215.2
17.5°	219.0	219.0	222.1	219.0	216.7	218.3	216.0	218.3	212.9	212.9	213.7
20°	218.3	218.3	220.6	217.5	216.0	216.7	214.4	216.7	212.1	211.4	211.4
22.5°	216.7	216.0	218.3	216.0	213.7	214.4	212.1	214.4	209.8	209.1	209.8
25°	214.4	214.4	216.0	213.7	211.4	212.1	209.8	211.4	207.5	206.8	206.8
27.5°	212.1	211.4	213.7	210.6	209.1	209.1	206.8	209.1	204.5	203.7	203.7
30°	209.1	208.3	210.6	207.5	206.0	206.0	203.7	205.2	201.4	200.7	200.7
32.5°	206.0	204.5	206.8	203.7	202.2	202.2	199.9	201.4	196.8	196.1	196.1
35°	202.2	200.7	202.2	199.1	198.4	197.6	195.3	196.8	193.0	192.2	191.5
37.5°	197.6	196.8	197.6	195.3	193.8	193.8	190.7	192.2	188.4	187.6	187.6
40°	193.0	192.2	193.0	190.7	189.2	188.4	186.1	187.6	183.8	183.0	182.3
42.5°	188.4	186.9	187.6	185.3	183.8	183.8	181.5	181.5	178.4	177.7	177.7
45°	182.3	181.5	182.3	180.0	178.4	178.4	175.4	176.1	173.1	172.3	171.6
47.5°	176.9	176.1	176.9	174.6	173.1	172.3	170.0	170.8	167.7	167.0	166.2
50°	170.8	170.0	170.0	168.5	167.0	166.2	163.9	163.9	161.6	160.8	160.1
52.5°	163.9	163.1	163.9	161.6	160.8	159.3	157.8	157.0	155.5	153.9	153.2
55°	158.5	157.0	157.0	154.7	153.9	153.2	150.9	150.1	148.6	147.0	146.3
57.5°	150.9	149.3	149.3	147.0	147.0	145.5	144.0	143.2	140.9	140.2	139.4
60°	143.2	142.4	141.7	140.2	139.4	138.6	136.3	135.6	134.0	132.5	131.7
62.5°	135.6	134.8	134.0	132.5	132.5	131.0	128.7	127.9	126.4	124.8	124.1
65°	127.9	126.4	126.4	124.8	124.1	122.5	120.2	120.2	118.7	117.2	116.4
67.5°	118.7	118.7	117.9	116.4	115.6	114.9	112.6	109.5	110.3	109.5	108.0
70°	111.0	109.5	108.8	108.0	108.0	106.5	104.2	101.9	101.9	101.1	99.6
72.5°	101.9	101.1	100.3	99.6	98.8	98.0	95.7	95.0	93.4	92.7	91.1
75°	93.4	92.7	91.9	91.1	90.4	89.6	87.3	86.5	85.0	84.2	82.7
77.5°	84.2	83.5	83.5	81.9	81.9	81.2	78.9	78.1	76.6	77.4	74.3
80°	75.8	75.1	75.1	73.5	73.5	72.0	70.5	69.7	68.2	67.4	65.9
82.5°	68.2	67.4	66.6	65.9	65.9	64.3	62.8	61.3	60.5	59.7	58.2
85°	60.5	59.7	59.7	58.2	58.2	56.7	55.1	54.4	53.6	52.8	51.3
87.5°	54.4	53.6	52.8	52.1	52.1	51.3	49.0	48.2	47.5	46.7	45.2
90°	49.0	48.2	48.2	47.5	46.7	46.0	44.4	42.9	42.1	41.4	39.8
92.5°	46.7	46.0	46.0	43.7	42.9	40.6	37.5	34.5	31.4	29.9	29.9
95°	31.4	30.6	31.4	28.3	26.8	22.2	18.4	15.3	12.3	10.0	10.0
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°	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
2.5°	215.2	217.5	213.7	216.0	218.3	216.7	218.3	215.2	214.4	213.7	214.4
5°	215.2	217.5	214.4	216.0	218.3	216.0	218.3	214.4	213.7	212.9	213.7
7.5°	215.2	217.5	213.7	215.2	218.3	215.2	216.7	213.7	212.1	211.4	211.4
10°	215.2	216.7	212.9	214.4	216.7	213.7	215.2	212.1	210.6	209.1	209.8
12.5°	213.7	215.2	212.1	212.9	215.2	212.1	213.7	209.8	208.3	207.5	207.5
15°	212.9	214.4	210.6	211.4	216.0	209.8	211.4	208.3	206.0	204.5	204.5
17.5°	210.6	206.8	208.3	209.1	211.4	207.5	209.1	205.2	203.7	202.2	201.4
20°	209.1	209.8	206.8	206.8	209.1	205.2	206.0	203.0	204.5	199.9	198.4
22.5°	206.8	206.8	203.7	203.7	206.8	202.2	203.0	199.9	197.6	196.1	195.3
25°	203.7	204.5	201.4	201.4	203.7	199.1	199.9	196.1	193.8	193.0	191.5
27.5°	200.7	200.7	197.6	197.6	199.9	195.3	195.3	192.2	189.9	189.2	187.6
30°	196.8	196.8	193.8	193.8	196.1	190.7	191.5	188.4	186.1	184.6	183.0
32.5°	192.2	192.2	189.9	189.2	191.5	186.9	186.9	183.8	184.6	180.0	178.4
35°	188.4	188.4	185.3	184.6	186.9	181.5	181.5	179.2	176.1	175.4	173.8
37.5°	183.8	183.0	180.7	180.0	181.5	176.1	176.9	173.8	171.6	170.0	168.5
40°	179.2	178.4	176.1	175.4	176.9	171.6	171.6	173.1	166.2	168.5	163.1
42.5°	173.1	173.1	170.8	169.3	170.8	165.4	166.2	163.1	160.1	159.3	157.0
45°	167.7	167.0	165.4	163.9	164.7	160.1	160.1	157.8	154.7	153.2	151.6
47.5°	162.4	161.6	158.5	157.8	158.5	153.9	153.9	151.6	148.6	147.8	145.5
50°	156.2	155.5	153.2	151.6	152.4	147.8	147.8	145.5	142.4	140.9	139.4
52.5°	149.3	148.6	146.3	144.7	145.5	140.9	140.9	138.6	137.9	134.0	132.5
55°	143.2	141.7	139.4	137.9	138.6	134.0	134.0	132.5	128.7	127.9	125.6
57.5°	136.3	134.8	132.5	131.0	131.7	127.1	127.1	124.8	121.8	120.2	118.7
60°	128.7	127.1	125.6	124.1	124.1	120.2	119.5	117.2	114.1	113.3	111.0
62.5°	121.0	119.5	117.9	116.4	116.4	112.6	111.8	110.3	107.2	105.7	103.4
65°	113.3	111.8	109.5	108.0	108.0	104.2	104.2	101.9	98.8	98.0	95.7
67.5°	104.9	104.2	101.9	100.3	100.3	96.5	95.7	94.2	91.1	89.6	88.1
70°	97.3	95.7	93.4	91.9	91.9	88.8	88.1	85.8	83.5	81.9	79.6
72.5°	88.8	87.3	85.0	84.2	83.5	80.4	79.6	78.9	75.1	74.3	72.0
75°	80.4	78.9	77.4	75.8	75.1	72.0	71.2	68.9	66.6	65.9	63.6
77.5°	72.0	70.5	68.9	67.4	66.6	63.6	62.8	61.3	59.0	57.4	55.9
80°	63.6	62.0	60.5	59.0	58.2	55.9	54.4	52.8	50.5	51.3	47.5
82.5°	56.7	54.4	52.8	51.3	50.5	48.2	46.7	45.2	42.9	42.1	40.6
85°	49.8	47.5	46.0	44.4	43.7	41.4	39.8	39.1	36.8	36.0	33.7
87.5°	43.7	41.4	40.6	39.1	37.5	35.2	34.5	32.9	30.6	29.9	28.3
90°	38.3	36.8	36.0	34.5	32.9	30.6	29.9	29.1	26.8	26.0	24.5
92.5°	29.9	30.6	30.6	29.9	30.6	29.1	28.3	27.6	26.0	24.5	23.0
95°	11.5	13.8	15.3	16.8	19.1	19.1	19.1	19.1	17.6	16.1	14.6
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: P130185

CATALOG NUMBER: HL612ICAT - HLM6927 - 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: P130185

CATALOG NUMBER: HL612ICAT - HLM6927 - HL6FL - 71PS

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
2.5°	216.7	212.1	212.1	214.4	212.9	216.0	215.2	215.2	214.4	213.7	209.1
5°	215.2	210.6	210.6	212.9	210.6	213.7	212.9	212.9	212.1	211.4	209.8
7.5°	213.7	209.1	208.3	210.6	208.3	211.4	210.6	209.8	209.1	208.3	206.8
10°	211.4	206.8	206.0	208.3	205.2	208.3	207.5	206.8	206.0	205.2	203.7
12.5°	209.1	204.5	203.7	205.2	203.0	206.0	205.2	204.5	203.7	202.2	200.7
15°	206.0	201.4	201.4	203.0	200.7	203.0	202.2	201.4	200.7	199.1	197.6
17.5°	203.7	198.4	198.4	199.9	196.8	199.9	198.4	197.6	196.8	196.1	193.8
20°	200.7	195.3	195.3	196.8	193.8	196.1	195.3	194.5	193.8	192.2	190.7
22.5°	196.8	192.2	191.5	193.0	189.9	192.2	191.5	190.7	189.9	189.2	187.6
25°	193.0	188.4	187.6	189.2	186.1	188.4	187.6	186.9	186.1	184.6	183.0
27.5°	189.2	184.6	183.8	185.3	182.3	184.6	183.8	182.3	181.5	180.7	179.2
30°	184.6	180.0	179.2	181.5	177.7	180.0	178.4	178.4	176.9	176.1	174.6
32.5°	180.0	175.4	174.6	176.1	173.1	175.4	173.8	177.7	171.6	170.8	169.3
35°	175.4	170.8	169.3	170.8	167.7	169.3	169.3	167.7	167.0	165.4	163.9
37.5°	169.3	165.4	164.7	165.4	162.4	163.9	163.1	162.4	161.6	160.8	158.5
40°	163.9	160.1	159.3	160.1	157.0	158.5	157.8	157.8	156.2	155.5	153.9
42.5°	158.5	153.9	153.2	153.9	151.6	152.4	151.6	151.6	150.1	149.3	147.8
45°	152.4	148.6	147.8	148.6	145.5	147.0	146.3	145.5	144.0	143.2	141.7
47.5°	146.3	142.4	141.7	142.4	139.4	140.9	140.2	139.4	137.9	137.1	135.6
50°	139.4	136.3	135.6	136.3	133.3	134.0	133.3	133.3	131.7	131.0	129.4
52.5°	133.3	129.4	128.7	129.4	126.4	127.1	127.1	126.4	124.8	124.1	123.3
55°	126.4	123.3	122.5	122.5	119.5	120.2	119.5	119.5	117.9	117.2	116.4
57.5°	119.5	115.6	114.9	114.9	112.6	113.3	112.6	112.6	111.0	110.3	108.8
60°	111.8	108.8	108.0	108.0	104.9	105.7	104.9	104.9	103.4	102.6	101.1
62.5°	104.2	101.1	100.3	100.3	97.3	98.0	98.0	97.3	95.7	95.0	94.2
65°	96.5	93.4	92.7	91.9	89.6	90.4	89.6	88.8	88.1	87.3	86.5
67.5°	88.1	85.8	86.5	84.2	81.9	81.9	81.9	81.2	79.6	79.6	78.9
70°	80.4	77.4	76.6	75.8	73.5	74.3	73.5	72.8	72.0	71.2	70.5
72.5°	72.0	69.7	68.2	68.2	65.9	65.9	65.9	65.1	63.6	63.6	62.8
75°	63.6	61.3	60.5	59.7	57.4	58.2	56.7	56.7	55.1	55.1	54.4
77.5°	55.1	52.8	52.8	51.3	49.8	49.8	49.0	49.0	48.2	47.5	46.7
80°	46.7	45.2	44.4	43.7	42.1	42.1	41.4	40.6	39.8	39.8	39.1
82.5°	39.8	38.3	37.5	36.0	35.2	34.5	34.5	33.7	32.9	32.9	32.2
85°	32.9	31.4	30.6	29.9	29.1	28.3	27.6	27.6	26.8	26.0	26.0
87.5°	27.6	26.8	26.0	25.3	23.7	23.7	23.0	23.0	22.2	21.4	20.7
90°	23.7	23.0	22.2	21.4	20.7	19.9	19.1	19.1	18.4	18.4	17.6
92.5°	21.4	19.1	16.8	16.1	13.8	13.8	13.0	13.8	13.8	14.6	15.3
95°	12.3	10.0	7.7	6.1	4.6	3.8	3.8	4.6	5.4	6.9	8.4
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: P130185

CATALOG NUMBER: HL612ICAT - HLM6927 - 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: P130185

CATALOG NUMBER: HL612ICAT - HLM6927 - HL6FL - 71PS

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	216.0	216.0	216.0	216.0
2.5°	216.0	217.5	215.2	212.9
5°	213.7	215.2	212.9	210.6
7.5°	210.6	211.4	209.8	206.8
10°	207.5	208.3	206.0	203.7
12.5°	204.5	205.2	203.7	201.4
15°	201.4	202.2	199.9	197.6
17.5°	197.6	198.4	196.8	193.8
20°	193.8	195.3	193.0	190.7
22.5°	189.9	191.5	189.2	180.0
25°	186.1	186.9	185.3	183.0
27.5°	181.5	182.3	180.7	178.4
30°	176.9	177.7	176.1	173.8
32.5°	171.6	172.3	171.6	168.5
35°	166.2	167.0	165.4	163.1
37.5°	160.8	161.6	160.1	158.5
40°	155.5	156.2	154.7	152.4
42.5°	149.3	150.1	148.6	147.0
45°	143.2	144.0	142.4	140.9
47.5°	139.4	137.1	136.3	134.8
50°	131.0	131.0	130.2	127.9
52.5°	124.1	124.1	123.3	121.8
55°	118.7	117.2	116.4	114.9
57.5°	109.5	109.5	108.8	108.0
60°	102.6	101.9	101.9	100.3
62.5°	95.0	95.0	95.0	92.7
65°	86.5	87.3	86.5	85.0
67.5°	79.6	78.9	78.9	77.4
70°	71.2	70.5	70.5	68.9
72.5°	62.8	62.8	62.8	61.3
75°	54.4	54.4	54.4	53.6
77.5°	46.7	46.7	46.7	46.0
80°	39.1	39.1	38.3	38.3
82.5°	32.2	31.4	32.2	31.4
85°	26.0	25.3	26.0	25.3
87.5°	20.7	20.7	20.7	19.9
90°	17.6	17.6	17.6	17.6
92.5°	16.1	16.1	16.8	16.1
95°	9.2	9.2	9.2	9.2
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: P130185

CATALOG NUMBER: HL612ICAT - HLM6927 - 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)