

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: A2016275B001

Luminaire Tested: **LT4069FS231EWHR**

Test Date: 2020-09-10



Test Information

Test Method: LM-41-14
Report Number: A2016275B001
Test Lab: EVERFINE
Test Date: 2020-09-10
Issue Date: 2020-09-10 10:08:53
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: LT4069FS231EWHR
Description: LT4069FS231EWHR
Light Source: -
Ballast/Driver: -

Summary

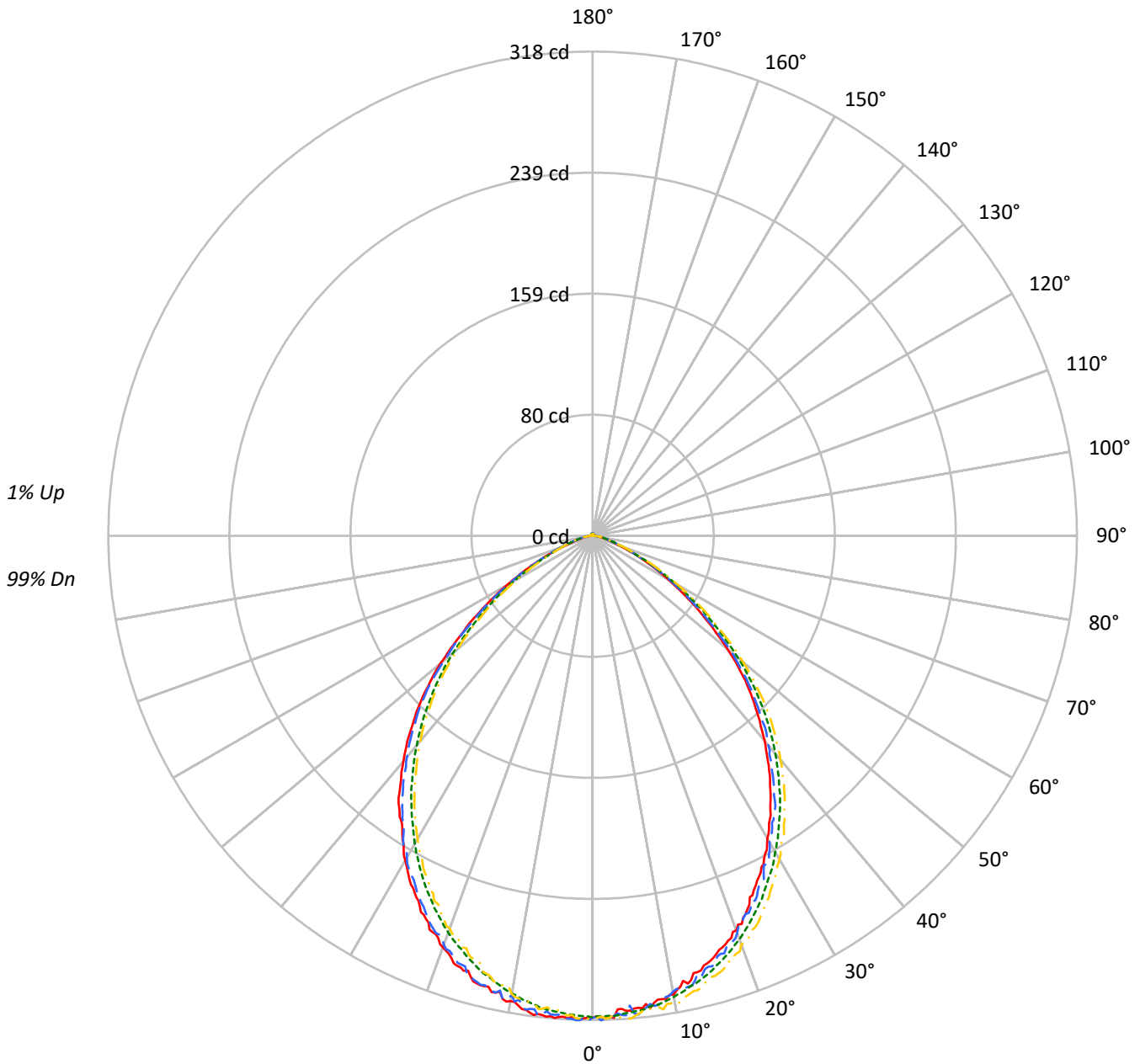
Lumens per Lamp: N/A
Luminaire Lumens: 622.4 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6.83953
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				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	102	102	102	99			99
1	111	107	104	100	108	105	102	99	100	98	96	97	95	93	93	91	90	88			88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67			67
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59			59
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52			52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47			47
7	71	58	50	45	69	57	50	45	56	49	44	55	48	44	53	48	44	42			42
8	66	54	46	40	64	53	45	40	52	45	40	50	44	40	49	44	40	38			38
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34			34
10	58	46	39	34	57	45	38	34	44	38	33	43	37	33	43	37	33	31			31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	39833	39833	39833	39833
5°	39390	39619	40003	39540
10°	39114	39302	39652	39024
15°	37869	38695	39475	38203
20°	36937	37767	38519	37130
25°	35198	36519	37302	35708
30°	33351	34833	35773	33939
35°	31258	32955	33962	31908
40°	28865	30639	31751	29502
45°	26172	27907	29128	26752
50°	22590	24409	25511	23408
55°	18577	20228	21143	19286
60°	14363	15790	16400	14975
65°	10471	11288	11824	10920
70°	6867	7641	7319	7635
75°	5022	5437	4876	5726
80°	4021	4442	3865	4818
85°	2568	4381	2937	4677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	4.8
10°-20°	83.4	13.4
20°-30°	119.9	19.3
30°-40°	132.3	21.3
40°-50°	118.8	19.1
50°-60°	80.9	13.0
60°-70°	38.0	6.1
70°-80°	12.6	2.0
80°-90°	3.1	0.5
90°-100°	0.3	0.1
100°-110°	0.3	0.0
110°-120°	0.3	0.1
120°-130°	0.4	0.1
130°-140°	0.5	0.1
140°-150°	0.6	0.1
150°-160°	0.5	0.1
160°-170°	0.4	0.1
170°-180°	0.1	0.0
0°-30°	233.1	37.4
0°-40°	365.4	58.7
0°-60°	565.1	90.8
0°-90°	618.9	99.4
90°-120°	1.0	0.2
90°-150°	2.5	0.4
90°-180°	3.0	0.5
0°-180°	622.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	317	317	317	317	317	
5°	312	314	317	313	312	30
15°	291	297	303	293	291	82
25°	253	263	269	257	253	117
35°	203	214	221	208	203	127
45°	147	157	164	150	147	113
55°	85	92	96	88	85	76
65°	35	38	40	37	35	35
75°	10	11	10	12	10	11
85°	2	3	2	3	2	2
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	1	1	0	0	0
125°	0	1	1	1	0	0
135°	1	1	1	1	1	0
145°	1	1	1	1	1	1
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	316.5	316.5	316.5	316.5	316.5	316.5	316.5	316.5	316.5	316.5	316.5
0.5°	315.5	315.1	316.0	318.8	315.6	316.7	316.8	316.2	316.4	316.5	318.4
1°	316.1	316.2	318.4	317.9	315.6	316.6	315.8	316.6	316.9	317.2	316.6
1.5°	317.1	318.7	317.1	316.5	315.6	315.8	317.3	316.6	317.7	316.1	318.3
2°	315.9	318.8	316.5	318.6	315.5	314.5	316.7	318.8	317.0	317.5	318.3
2.5°	317.0	315.8	315.9	314.4	315.6	316.7	315.0	318.0	316.5	317.9	317.6
3°	311.6	312.4	314.2	316.5	315.4	317.7	316.5	317.1	317.3	318.0	317.5
3.5°	311.3	312.9	315.4	317.8	314.7	314.9	317.1	316.6	316.4	317.3	316.2
4°	312.7	313.0	315.8	314.4	314.3	316.7	317.2	316.0	316.8	314.4	315.5
4.5°	313.0	312.8	309.6	312.4	314.0	315.7	318.2	317.3	317.8	316.5	315.5
5°	311.8	315.1	315.0	315.1	313.6	313.0	316.7	317.4	316.7	315.9	315.6
5.5°	311.4	314.8	315.9	314.2	313.4	313.8	315.6	316.8	317.3	318.6	313.7
6°	312.0	312.8	313.0	312.4	313.3	314.9	313.8	316.9	316.5	314.7	315.8
6.5°	309.5	314.5	311.9	314.7	312.4	313.7	314.7	315.7	316.1	314.6	317.3
7°	312.3	310.7	309.9	313.6	311.5	313.4	313.1	315.9	317.1	314.2	313.4
7.5°	309.4	310.3	311.5	312.9	310.8	313.4	312.8	314.7	316.0	313.9	313.4
8°	307.7	309.4	311.2	310.4	310.8	312.6	312.7	315.3	314.6	314.2	314.3
8.5°	307.7	308.5	309.3	307.2	310.0	311.9	314.5	312.3	314.4	313.8	312.7
9°	308.0	304.6	306.7	308.2	309.3	310.4	311.4	311.2	312.3	313.5	308.5
9.5°	305.8	305.3	306.3	306.7	308.4	309.3	311.4	310.1	310.6	311.3	310.3
10°	306.1	304.1	304.0	304.9	307.6	308.1	310.1	310.3	310.3	311.8	306.5
10.5°	303.4	303.7	302.7	305.4	306.3	308.5	312.0	310.2	311.2	311.4	309.0
11°	301.7	303.2	302.4	304.3	305.8	309.0	309.6	309.9	310.0	309.7	309.9
11.5°	298.3	301.2	303.2	302.1	304.7	307.6	308.6	309.5	305.6	308.0	304.8
12°	300.7	299.6	302.9	302.3	303.5	307.2	307.6	309.3	306.8	307.1	306.9
12.5°	298.9	298.6	302.5	298.2	302.4	305.3	306.3	308.8	307.1	306.5	306.1
13°	294.8	297.6	299.6	297.8	301.7	303.8	306.3	307.6	304.0	306.1	305.0
13.5°	294.8	297.5	295.4	296.9	300.4	302.8	305.2	304.6	304.2	304.5	303.6
14°	294.2	294.9	297.4	295.0	299.3	301.1	302.7	303.8	304.4	301.4	304.0
14.5°	291.5	294.2	294.2	294.1	298.2	300.8	302.4	302.6	303.8	302.8	302.8
15°	290.7	292.6	293.0	294.3	297.0	298.8	300.0	301.1	303.0	302.4	302.0
15.5°	289.6	293.4	293.5	293.0	295.6	298.3	300.0	301.1	300.3	301.9	300.1
16°	288.2	288.7	291.7	290.6	294.0	296.7	299.2	295.5	297.1	302.2	299.1
16.5°	286.4	286.5	288.2	289.7	292.6	296.0	298.2	296.1	298.1	298.6	295.0
17°	284.4	286.5	287.2	288.5	291.2	294.9	296.6	296.7	296.5	297.9	294.6
17.5°	283.5	284.9	287.7	288.1	289.8	292.8	293.1	293.6	296.1	297.5	294.2
18°	282.2	282.3	284.3	285.2	288.3	291.4	294.1	295.6	295.3	296.2	292.1
18.5°	280.4	282.2	282.8	283.2	286.8	288.6	291.5	293.2	292.4	291.2	290.4
19°	279.4	280.0	282.0	280.8	285.0	288.3	290.2	290.4	290.3	289.7	288.3
19.5°	275.9	277.4	280.7	278.5	283.5	285.9	289.6	286.2	288.9	286.1	288.1
20°	275.8	273.7	277.6	275.4	282.0	284.1	285.4	286.7	287.6	286.0	286.0
20.5°	272.7	272.5	273.8	275.2	280.1	282.6	285.4	284.8	286.3	288.0	282.2
21°	273.2	272.9	273.1	274.6	278.3	281.4	284.1	283.0	282.9	286.0	280.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	265.5	267.7	268.2	270.8	272.7	275.9	278.6	279.1	280.0	278.5	277.0
23°	263.4	265.1	265.7	266.1	270.6	273.9	276.8	277.6	275.8	276.8	274.8
23.5°	258.9	261.9	261.7	263.5	268.8	271.8	274.9	274.6	274.6	274.4	272.5
24°	258.4	260.7	262.4	263.7	266.8	269.1	272.3	273.2	272.5	270.8	270.1
24.5°	255.6	257.6	260.2	261.0	264.7	267.3	270.0	272.0	271.7	268.5	267.8
25°	253.5	255.5	256.7	259.4	263.0	265.8	268.1	269.6	268.6	266.0	266.2
25.5°	251.0	253.5	254.1	258.3	260.4	263.4	265.8	266.2	265.7	263.2	264.0
26°	249.1	250.7	253.2	254.6	258.1	261.3	264.2	264.8	264.1	262.8	262.3
26.5°	247.3	247.7	252.2	252.7	256.2	258.7	261.2	264.0	262.0	261.0	259.4
27°	244.2	245.1	247.3	249.6	253.7	257.4	259.1	261.5	259.7	259.1	256.9
27.5°	243.0	243.5	243.7	246.8	251.5	254.5	256.7	258.6	258.4	257.4	254.7
28°	239.9	241.2	244.3	244.4	249.6	253.1	254.8	256.4	255.9	254.3	253.1
28.5°	237.4	239.3	242.7	243.7	247.5	250.3	252.6	253.8	253.4	250.4	251.8
29°	235.9	236.5	238.9	240.6	245.0	247.7	249.6	250.7	250.9	248.0	249.4
29.5°	232.6	234.8	236.2	237.0	242.4	245.1	247.4	248.4	248.5	246.1	247.3
30°	229.5	232.5	232.3	236.0	239.7	242.8	245.5	246.1	246.2	244.0	243.8
30.5°	227.6	229.5	230.9	234.2	237.5	241.2	243.2	243.5	244.1	242.1	240.5
31°	225.0	226.7	228.3	230.6	235.0	238.3	240.0	240.7	240.9	239.6	239.7
31.5°	221.6	223.7	225.6	227.5	232.8	235.6	237.0	238.2	237.5	236.9	237.8
32°	219.7	221.5	222.2	226.0	230.0	233.1	235.7	236.5	235.6	235.0	234.7
32.5°	217.6	218.6	221.2	222.8	227.3	230.4	233.6	234.8	232.6	233.1	231.0
33°	214.4	216.0	218.6	219.9	224.6	227.8	230.9	232.2	229.4	230.5	227.6
33.5°	211.4	213.6	216.7	218.2	222.2	225.5	227.6	229.9	226.8	227.7	225.6
34°	208.9	211.1	214.6	215.6	219.7	222.8	225.4	226.4	225.2	226.1	223.4
34.5°	206.2	209.1	211.2	211.8	217.1	220.6	222.2	223.9	223.8	223.0	220.3
35°	203.5	206.3	207.3	208.6	214.5	217.5	219.4	221.2	221.1	220.5	218.0
35.5°	200.6	202.7	206.0	205.6	211.8	214.9	217.0	218.1	218.7	216.9	215.3
36°	198.2	200.5	202.6	203.5	209.4	212.1	214.6	216.2	216.8	215.2	212.7
36.5°	195.5	197.7	199.3	201.3	206.2	209.6	212.1	213.4	214.2	212.0	209.5
37°	192.5	194.6	196.7	198.3	203.2	206.7	208.9	211.1	210.6	209.7	206.8
37.5°	190.0	191.8	193.2	195.2	200.9	203.7	206.4	207.5	207.6	206.6	204.4
38°	186.7	188.9	191.1	192.5	198.0	201.2	204.3	204.6	204.4	204.2	201.1
38.5°	183.6	186.3	187.8	189.9	195.1	198.6	200.1	202.3	201.9	201.2	197.9
39°	180.9	183.5	184.3	186.4	192.3	195.3	197.9	199.2	199.6	198.9	194.7
39.5°	178.5	181.0	183.0	184.7	189.5	193.2	195.1	195.3	196.3	195.1	192.6
40°	175.7	178.4	179.4	182.5	186.5	189.9	191.8	192.3	193.3	191.9	189.9
40.5°	172.7	175.3	177.6	179.4	183.8	186.8	189.3	190.6	190.4	189.9	186.4
41°	169.5	172.1	174.4	176.3	180.8	183.7	186.1	187.4	187.5	186.6	184.3
41.5°	166.5	169.0	172.2	172.6	177.9	180.8	182.7	184.0	184.7	183.2	181.4
42°	164.0	165.8	169.1	169.8	174.9	178.0	180.2	181.2	181.9	180.8	178.4
42.5°	161.2	163.0	165.0	167.1	172.0	175.0	177.5	177.8	178.8	178.0	175.6
43°	158.1	160.3	162.1	164.1	169.0	171.9	174.3	174.5	175.6	175.1	172.4
43.5°	155.3	157.3	159.1	161.7	165.9	169.9	171.3	172.1	172.1	172.3	169.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	147.1	148.9	150.1	152.0	156.8	159.8	161.9	163.5	163.7	162.5	161.3
45.5°	144.1	145.7	147.3	149.1	153.6	156.6	158.5	159.8	160.0	159.0	158.0
46°	141.2	142.7	144.2	146.1	150.3	153.5	155.8	157.5	157.1	155.7	154.9
46.5°	138.4	139.5	141.0	143.1	147.4	150.3	152.3	153.4	153.9	152.6	151.7
47°	135.0	136.5	138.3	140.3	144.3	147.0	148.6	150.4	150.5	149.8	148.5
47.5°	131.8	133.6	134.8	137.0	140.8	143.6	145.7	147.2	146.8	146.8	145.0
48°	128.8	130.3	131.2	132.9	137.6	140.2	142.4	144.3	143.6	143.7	141.8
48.5°	125.7	126.9	128.5	129.6	134.5	136.8	138.9	140.9	140.3	139.7	138.3
49°	122.4	123.6	125.3	126.7	131.4	133.4	135.6	136.6	137.1	136.5	134.3
49.5°	118.7	120.4	122.2	123.8	128.1	130.7	132.5	133.0	134.0	132.8	130.7
50°	115.4	117.2	119.1	120.2	124.7	127.2	128.8	129.7	130.3	129.3	127.1
50.5°	112.0	114.1	115.9	116.9	121.2	123.4	125.5	126.6	126.0	126.2	123.3
51°	108.7	111.0	112.3	113.4	117.9	120.2	122.1	123.0	122.8	122.5	120.3
51.5°	105.5	107.6	108.5	109.7	114.6	117.0	118.9	119.6	119.4	119.2	117.3
52°	102.3	104.2	105.3	106.6	111.3	113.7	115.4	116.6	115.8	115.1	113.9
52.5°	99.3	101.1	102.3	103.6	108.1	110.3	111.8	113.3	112.0	111.7	110.6
53°	96.2	98.0	99.2	100.5	105.0	107.1	108.3	109.3	108.2	108.4	107.2
53.5°	93.0	94.8	96.1	97.2	101.7	103.8	105.0	106.3	105.4	105.2	103.7
54°	90.0	91.6	92.9	93.9	98.4	100.2	101.9	102.4	102.6	101.8	100.5
54.5°	87.3	88.5	89.8	91.2	95.3	96.9	98.7	99.2	99.5	98.3	97.2
55°	84.7	85.9	87.0	88.2	92.2	94.1	95.4	96.3	96.4	95.2	94.0
55.5°	81.7	82.9	84.1	85.3	89.2	90.6	92.4	93.0	92.9	92.0	90.8
56°	78.6	79.9	81.0	82.5	86.3	87.8	89.1	89.8	89.5	88.7	87.5
56.5°	75.7	77.0	78.1	79.6	83.1	84.4	86.2	86.5	86.4	85.6	84.8
57°	72.7	74.1	75.4	76.5	80.0	81.4	83.0	83.2	83.5	82.7	81.6
57.5°	70.0	71.2	72.4	73.6	77.0	78.4	79.9	80.1	80.3	79.5	78.6
58°	67.5	68.7	69.6	70.7	73.9	75.4	77.0	77.2	77.5	76.3	75.7
58.5°	64.9	66.0	66.8	67.8	71.2	72.7	74.0	74.2	74.2	73.3	72.6
59°	62.3	63.4	64.3	64.9	68.4	69.7	70.8	71.0	71.2	70.3	69.4
59.5°	59.7	60.6	61.6	62.4	65.2	66.8	67.7	68.2	68.4	67.5	66.7
60°	57.1	58.0	59.3	59.7	62.7	64.0	64.8	65.4	65.2	64.7	63.6
60.5°	55.0	55.7	56.9	57.3	59.8	61.0	62.1	62.6	62.2	61.7	60.9
61°	52.7	53.4	54.2	54.9	57.1	58.3	59.6	59.9	59.7	58.7	58.3
61.5°	50.3	50.9	51.7	52.5	54.5	55.7	56.8	57.2	56.7	56.5	55.9
62°	48.0	48.8	49.3	50.1	52.0	53.0	54.0	54.5	54.3	53.9	53.3
62.5°	45.6	46.3	47.1	47.8	49.3	50.4	51.6	52.1	51.9	51.5	50.9
63°	43.4	44.1	44.8	45.3	47.0	48.0	49.1	49.5	49.5	48.8	48.2
63.5°	41.3	42.0	42.8	42.9	44.6	45.5	46.6	46.9	46.8	46.5	45.9
64°	39.2	40.1	40.4	40.7	42.4	43.3	44.1	44.5	44.7	44.1	43.5
64.5°	37.1	38.0	38.3	38.4	40.1	40.8	42.1	42.2	42.3	41.6	41.2
65°	35.2	36.0	36.2	36.4	37.9	38.9	39.6	40.1	39.7	39.3	39.0
65.5°	33.2	33.9	34.2	34.5	35.8	36.6	37.4	37.7	37.7	37.3	36.9
66°	31.1	32.0	32.3	32.8	33.6	34.6	35.2	35.4	35.1	35.1	35.0



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	25.6	26.8	27.2	27.2	28.2	28.7	29.5	29.8	28.9	29.3	29.3
68°	23.9	25.1	25.7	25.6	26.4	27.1	27.8	27.9	26.7	27.5	27.7
68.5°	22.5	23.5	24.2	24.1	24.8	25.5	26.1	26.2	24.7	25.6	26.1
69°	21.2	22.3	22.8	22.8	23.4	24.0	24.5	24.5	23.0	24.0	24.3
69.5°	19.8	21.0	21.6	21.4	22.0	22.3	22.9	22.9	21.3	22.3	22.9
70°	18.7	19.8	20.4	20.3	20.8	21.1	21.3	21.4	19.9	20.8	21.4
70.5°	17.4	18.7	19.2	19.1	19.6	19.9	20.2	20.1	18.4	19.5	20.2
71°	16.5	17.4	18.1	18.0	18.4	18.5	19.0	18.6	17.1	18.1	19.1
71.5°	15.5	16.4	17.1	17.0	17.4	17.6	17.9	17.4	15.9	16.8	18.1
72°	14.6	15.3	16.0	15.9	16.4	16.3	16.5	16.3	14.9	15.9	16.8
72.5°	13.7	14.6	15.2	15.1	16.2	15.4	15.6	15.1	14.0	14.7	16.2
73°	13.0	13.6	14.4	14.4	14.1	14.4	14.9	14.3	12.9	13.8	14.9
73.5°	12.3	12.9	13.6	13.5	13.5	13.6	14.0	13.4	12.1	12.7	14.1
74°	11.5	12.1	12.8	12.8	12.7	12.8	13.0	12.5	11.3	12.0	13.0
74.5°	10.9	11.4	12.0	12.1	12.0	12.1	12.3	12.0	10.9	11.2	12.2
75°	10.3	10.8	11.5	11.5	11.2	11.5	11.4	11.0	10.0	10.5	11.6
75.5°	9.6	10.3	10.8	10.9	10.6	10.8	11.2	10.6	9.3	10.0	11.0
76°	9.0	9.6	10.5	10.4	10.0	10.1	10.2	10.4	8.8	9.2	10.1
76.5°	8.5	9.1	9.6	9.7	9.3	9.9	9.8	9.2	8.2	8.8	10.0
77°	8.0	8.5	9.0	9.2	8.8	8.9	9.1	8.6	8.1	8.2	9.0
77.5°	7.6	8.0	8.6	8.8	8.3	8.4	8.5	8.3	7.2	7.9	8.5
78°	7.1	7.5	8.1	8.4	8.0	8.2	8.0	7.6	6.9	7.2	8.0
78.5°	6.8	7.1	7.6	7.9	7.8	7.9	7.7	7.2	6.7	7.0	7.7
79°	6.4	6.7	7.5	7.4	7.0	7.2	7.3	6.7	6.1	6.2	7.0
79.5°	5.9	6.4	6.9	7.1	6.9	6.9	7.0	6.2	6.1	6.0	6.9
80°	5.5	5.9	6.4	6.7	6.1	6.6	6.2	6.2	5.3	5.8	6.1
80.5°	5.1	5.4	6.1	6.3	5.9	6.0	6.0	5.6	4.9	5.0	6.0
81°	4.7	5.0	5.7	5.9	5.8	5.8	5.9	5.0	4.6	4.7	5.8
81.5°	4.3	4.7	5.4	5.6	5.0	5.2	5.2	4.7	4.1	4.3	5.0
82°	3.9	4.3	5.0	5.3	4.8	4.9	4.9	4.1	4.1	3.9	4.8
82.5°	3.5	3.9	4.5	4.9	4.6	4.8	4.5	4.0	3.6	3.8	4.3
83°	3.1	3.5	4.0	4.5	4.1	4.2	4.3	3.8	3.0	3.2	4.1
83.5°	2.8	3.1	3.8	4.3	4.0	4.2	4.2	3.2	3.0	2.9	4.1
84°	2.4	2.8	3.4	3.8	4.0	4.1	3.8	2.9	2.2	2.5	3.3
84.5°	2.2	2.4	3.3	3.5	3.1	3.5	3.2	2.7	2.1	2.1	2.9
85°	1.8	2.3	2.9	3.2	3.0	3.0	3.0	2.2	2.0	2.0	2.9
85.5°	1.4	1.9	2.5	2.8	3.0	2.9	2.9	2.2	1.3	2.0	2.2
86°	1.2	1.7	2.4	2.5	2.1	2.3	2.4	2.0	0.9	1.0	2.1
86.5°	1.1	1.4	2.0	2.3	2.0	2.1	2.1	1.5	0.8	0.8	2.2
87°	0.9	1.2	1.6	1.9	1.9	2.1	1.8	1.1	0.6	0.7	2.1
87.5°	0.9	1.0	1.4	1.5	1.4	1.7	1.7	1.0	0.4	0.7	1.1
88°	0.8	1.0	1.2	1.3	0.9	0.9	1.0	0.7	0.4	0.4	0.9
88.5°	0.6	0.8	0.9	1.0	0.7	0.8	1.0	0.6	0.4	0.3	0.7



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.4	0.4	0.4	0.5	0.4	0.2	0.3	0.1	0.4	0.3	0.3
90.5°	0.4	0.4	0.4	0.4	0.4	0.2	0.3	0.0	0.4	0.3	0.3
91°	0.4	0.4	0.4	0.4	0.4	0.2	0.3	0.2	0.4	0.3	0.3
91.5°	0.4	0.4	0.4	0.4	0.4	0.2	0.3	0.2	0.4	0.3	0.3
92°	0.4	0.4	0.3	0.4	0.4	0.2	0.3	0.2	0.4	0.3	0.3
92.5°	0.4	0.4	0.3	0.4	0.4	0.2	0.3	0.3	0.4	0.3	0.3
93°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3
93.5°	0.4	0.4	0.3	0.4	0.4	0.2	0.3	0.2	0.4	0.3	0.3
94°	0.4	0.4	0.3	0.4	0.4	0.2	0.3	0.3	0.4	0.3	0.3
94.5°	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.4	0.3	0.3
95°	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.4	0.3	0.3
95.5°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3
96°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3
96.5°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.1	0.4	0.3	0.3
97°	0.4	0.4	0.3	0.4	0.4	0.3	0.4	0.1	0.4	0.3	0.3
97.5°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.1	0.4	0.3	0.3
98°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.1	0.4	0.3	0.3
98.5°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.1	0.4	0.3	0.3
99°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.1	0.4	0.3	0.3
99.5°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.2	0.4	0.3	0.3
100°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.2	0.4	0.3	0.3
100.5°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.1	0.4	0.3	0.3
101°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.1	0.4	0.3	0.3
101.5°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.0	0.4	0.3	0.3
102°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.1	0.4	0.3	0.3
102.5°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.1	0.4	0.3	0.3
103°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.1	0.4	0.3	0.3
103.5°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3
104°	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3
104.5°	0.4	0.4	0.3	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.3
105°	0.4	0.4	0.3	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.3
105.5°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.3
106°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.3
106.5°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.3
107°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.1	0.4	0.3	0.3
107.5°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.1	0.4	0.3	0.3
108°	0.4	0.3	0.3	0.4	0.5	0.4	0.4	0.3	0.4	0.3	0.3
108.5°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.2	0.4	0.3	0.3
109°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.2	0.4	0.3	0.3
109.5°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.2	0.4	0.3	0.3
110°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.2	0.5	0.3	0.3
110.5°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.2	0.4	0.3	0.3
111°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.1	0.4	0.3	0.3



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.3
113°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.3
113.5°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.5	0.3	0.3
114°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.5	0.3	0.3
114.5°	0.4	0.3	0.3	0.4	0.5	0.3	0.4	0.3	0.5	0.3	0.3
115°	0.4	0.3	0.3	0.4	0.5	0.3	0.4	0.3	0.6	0.3	0.3
115.5°	0.4	0.3	0.3	0.4	0.5	0.3	0.4	0.3	0.5	0.3	0.3
116°	0.4	0.3	0.3	0.4	0.6	0.3	0.5	0.3	0.5	0.3	0.3
116.5°	0.4	0.3	0.3	0.4	0.5	0.4	0.5	0.3	0.5	0.3	0.3
117°	0.4	0.3	0.3	0.4	0.5	0.3	0.4	0.4	0.5	0.3	0.3
117.5°	0.4	0.3	0.3	0.4	0.5	0.3	0.4	0.4	0.5	0.3	0.3
118°	0.4	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.5	0.3	0.3
118.5°	0.4	0.3	0.3	0.4	0.6	0.4	0.4	0.4	0.5	0.3	0.3
119°	0.4	0.4	0.3	0.3	0.6	0.4	0.4	0.4	0.6	0.3	0.3
119.5°	0.4	0.4	0.3	0.4	0.6	0.4	0.4	0.3	0.6	0.3	0.3
120°	0.4	0.4	0.3	0.4	0.6	0.4	0.4	0.3	0.6	0.3	0.3
120.5°	0.4	0.4	0.3	0.4	0.6	0.4	0.4	0.2	0.6	0.4	0.4
121°	0.4	0.4	0.3	0.4	0.6	0.4	0.4	0.3	0.6	0.4	0.4
121.5°	0.4	0.4	0.3	0.4	0.6	0.4	0.4	0.4	0.6	0.3	0.4
122°	0.4	0.4	0.3	0.4	0.6	0.4	0.4	0.4	0.7	0.3	0.4
122.5°	0.4	0.4	0.6	0.4	0.6	0.4	0.4	0.3	0.7	0.3	0.4
123°	0.4	0.4	0.5	0.4	0.6	0.4	0.4	0.3	0.6	0.3	0.4
123.5°	0.4	0.4	0.4	0.5	0.6	0.4	0.4	0.3	0.6	0.3	0.4
124°	0.4	0.4	0.5	0.5	0.6	0.4	0.4	0.3	0.6	0.3	0.4
124.5°	0.4	0.4	0.6	0.3	0.6	0.4	0.4	0.2	0.6	0.3	0.3
125°	0.4	0.4	0.6	0.4	0.6	0.4	0.5	0.4	0.7	0.3	0.4
125.5°	0.4	0.4	0.6	0.4	0.7	0.4	0.5	0.4	0.7	0.3	0.6
126°	0.4	0.4	0.6	0.4	0.7	0.4	0.6	0.3	0.7	0.3	0.4
126.5°	0.4	0.4	0.6	0.4	0.6	0.4	0.6	0.3	0.7	0.4	0.3
127°	0.4	0.4	0.5	0.4	0.6	0.4	0.6	0.3	0.7	0.3	0.4
127.5°	0.4	0.4	0.5	0.4	0.6	0.4	0.6	0.4	0.7	0.4	0.4
128°	0.4	0.4	0.6	0.3	0.6	0.4	0.6	0.4	0.7	0.3	0.6
128.5°	0.4	0.4	0.6	0.3	0.6	0.5	0.6	0.3	0.7	0.3	0.6
129°	0.4	0.5	0.6	0.3	0.7	0.5	0.6	0.4	0.7	0.6	0.6
129.5°	0.4	0.6	0.6	0.3	0.7	0.6	0.6	0.4	0.8	0.6	0.6
130°	0.4	0.6	0.7	0.7	0.8	0.6	0.6	0.4	0.8	0.7	0.6
130.5°	0.4	0.6	0.7	0.6	0.7	0.6	0.6	0.4	0.8	0.6	0.6
131°	0.4	0.6	0.7	0.4	0.7	0.6	0.6	0.4	0.8	0.6	0.6
131.5°	0.4	0.6	0.7	0.6	0.8	0.6	0.6	0.4	0.8	0.7	0.6
132°	0.4	0.8	0.7	0.5	0.8	0.6	0.6	0.4	0.7	0.6	0.6
132.5°	0.4	0.8	0.7	0.5	0.8	0.6	0.6	0.4	0.4	0.6	0.6
133°	0.4	0.7	0.7	0.8	0.8	0.6	0.6	0.4	0.6	0.6	0.6
133.5°	0.4	0.7	0.8	0.7	0.8	0.6	0.7	0.4	0.4	0.7	0.6



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.6	0.8	0.8	0.7	0.9	0.6	0.7	0.4	0.6	0.8	0.7
135.5°	0.6	0.8	0.8	0.8	0.9	0.6	0.7	0.4	0.4	0.8	0.7
136°	0.6	0.8	0.8	0.8	0.8	0.6	0.7	0.6	0.4	0.8	0.8
136.5°	0.6	0.8	0.6	1.0	0.8	0.6	0.7	0.6	0.8	0.8	0.8
137°	0.7	0.8	0.8	1.0	0.8	0.6	0.8	0.6	0.7	0.8	0.8
137.5°	0.7	0.8	0.8	1.0	0.8	0.6	0.8	0.4	0.7	0.8	0.8
138°	0.8	0.8	0.8	1.0	0.8	0.6	0.8	0.4	0.6	0.8	0.8
138.5°	0.8	0.8	0.8	1.0	0.8	0.6	0.8	0.6	0.6	0.8	0.8
139°	0.8	0.8	0.8	1.0	0.8	0.6	0.8	0.6	0.9	0.8	0.9
139.5°	0.9	0.8	0.8	1.0	0.8	0.6	0.8	0.6	0.8	1.0	0.8
140°	0.8	0.8	0.8	1.0	0.9	0.6	0.8	0.6	1.0	0.9	0.8
140.5°	0.8	0.8	0.8	1.0	0.9	0.6	0.8	0.7	0.9	0.9	0.8
141°	0.9	0.8	0.8	1.0	0.9	0.7	0.8	0.7	0.9	0.9	0.8
141.5°	0.8	0.8	0.8	1.0	0.9	0.6	0.8	0.7	0.9	0.9	0.8
142°	0.8	0.9	1.0	1.0	0.9	0.6	0.8	0.7	0.9	0.9	0.7
142.5°	1.0	0.9	0.8	1.0	0.9	0.8	0.8	0.8	1.0	0.9	0.8
143°	1.0	0.9	0.8	1.0	0.9	0.8	0.8	0.8	1.0	0.9	0.9
143.5°	0.9	1.1	0.8	1.0	0.9	0.8	0.8	0.8	1.0	0.9	0.9
144°	0.9	1.1	0.9	1.0	0.9	0.8	0.8	0.8	1.0	0.9	0.9
144.5°	0.9	1.0	0.9	1.0	0.9	0.8	0.8	0.9	1.1	0.9	0.6
145°	0.9	1.0	0.8	1.0	0.9	0.8	0.8	0.8	1.1	1.0	0.5
145.5°	0.9	1.0	0.8	1.0	0.9	0.8	0.8	0.8	1.0	1.0	0.9
146°	0.9	1.0	1.3	1.0	1.0	0.8	0.8	0.8	1.0	1.0	0.9
146.5°	0.9	1.0	1.3	1.0	0.9	0.8	0.8	0.8	1.0	1.0	1.0
147°	0.9	1.0	1.3	1.0	0.9	0.8	0.8	0.8	1.0	1.0	1.0
147.5°	0.9	1.0	1.3	1.0	0.9	0.8	0.8	0.8	1.0	1.0	1.0
148°	0.9	1.0	1.1	1.0	0.9	0.8	0.8	0.8	1.0	1.0	1.0
148.5°	0.9	1.0	1.1	1.0	0.9	0.8	0.8	0.8	1.0	1.0	0.9
149°	0.9	1.0	1.1	1.0	0.9	0.8	0.8	0.8	0.8	1.0	1.0
149.5°	0.9	1.0	1.1	1.0	0.9	0.8	0.9	0.9	0.8	1.0	1.0
150°	0.9	1.0	1.1	1.0	0.9	0.8	0.9	0.9	1.0	1.1	0.8
150.5°	0.9	1.0	1.1	1.0	0.9	0.8	0.9	1.0	0.9	1.1	0.9
151°	0.9	1.0	1.1	1.1	0.9	0.8	1.0	1.0	0.8	1.1	1.0
151.5°	0.9	1.0	1.1	1.1	0.9	0.8	1.0	0.9	0.9	1.1	1.0
152°	0.9	1.0	1.1	1.0	0.9	0.8	1.0	0.9	0.9	1.1	1.0
152.5°	0.9	1.1	1.1	1.0	0.9	0.8	1.0	0.9	1.0	1.1	1.0
153°	0.9	1.1	1.0	0.9	0.9	0.8	1.0	0.9	0.8	1.1	1.0
153.5°	0.9	1.1	1.1	1.0	0.9	0.9	1.1	0.9	0.9	1.2	1.0
154°	0.9	1.1	1.1	0.9	0.9	0.9	1.1	0.9	1.0	1.2	1.0
154.5°	1.0	1.1	1.1	1.1	0.9	1.0	1.1	0.9	1.2	1.2	1.0
155°	1.0	1.1	1.1	1.0	0.9	1.0	1.1	0.9	1.3	1.3	1.2
155.5°	1.0	1.4	1.2	1.2	0.9	1.0	1.0	0.9	1.3	1.2	1.2
156°	1.0	1.4	1.2	0.9	0.9	1.0	1.0	0.9	1.3	1.2	1.0



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	1.0	1.4	1.1	1.2	0.9	1.0	1.0	0.9	1.2	1.3	1.2
158°	1.0	1.5	1.1	1.3	0.9	1.0	1.0	0.9	0.8	1.0	1.1
158.5°	1.0	1.5	1.1	1.3	0.9	1.1	1.0	0.9	1.0	1.2	1.3
159°	1.0	1.5	1.1	1.3	0.9	1.1	1.0	0.9	1.0	1.3	1.1
159.5°	1.0	1.4	1.1	1.3	0.9	0.9	1.0	0.9	1.1	1.0	1.1
160°	1.0	1.6	1.1	1.2	0.9	0.9	1.0	0.9	1.2	1.1	1.1
160.5°	1.0	1.6	1.1	1.1	0.9	1.1	1.0	0.9	1.0	1.3	1.1
161°	1.0	1.6	1.1	1.2	0.9	0.9	1.0	0.9	1.1	1.3	1.1
161.5°	1.0	1.6	1.1	1.2	0.9	0.9	1.1	1.0	1.1	1.1	1.2
162°	1.0	1.5	1.1	1.1	0.9	0.8	1.1	1.0	1.3	1.3	1.2
162.5°	1.0	1.5	1.1	1.1	0.9	1.1	1.1	0.9	1.3	1.2	1.3
163°	1.0	1.5	1.2	1.4	0.9	1.0	1.1	1.0	1.5	1.2	1.4
163.5°	1.0	1.5	1.2	1.4	0.9	1.1	1.1	1.1	1.5	1.1	1.5
164°	1.0	1.5	1.3	1.3	0.9	1.1	1.3	1.2	1.4	1.2	1.5
164.5°	1.0	1.5	1.3	1.1	0.9	1.0	1.3	1.0	1.3	1.1	1.5
165°	1.0	1.5	1.3	1.0	0.9	1.0	1.2	1.0	1.0	1.3	1.5
165.5°	1.1	1.5	1.5	1.3	0.9	0.8	1.2	1.1	1.4	1.1	1.5
166°	1.1	1.7	1.5	1.3	0.9	1.5	1.2	1.2	1.4	1.1	1.7
166.5°	1.1	1.5	1.5	1.1	0.9	1.4	1.2	1.3	1.4	1.2	1.3
167°	1.1	1.5	1.7	1.1	0.9	1.3	1.3	1.3	1.4	1.4	1.4
167.5°	1.1	1.7	1.6	1.1	0.9	1.3	1.3	1.2	1.5	1.5	1.2
168°	1.2	1.5	1.6	1.3	0.9	1.1	1.2	1.1	1.5	1.3	1.1
168.5°	1.2	1.5	1.6	1.3	0.9	1.0	1.3	1.1	1.5	1.3	1.1
169°	1.3	1.6	1.5	1.1	0.9	1.1	1.2	1.4	1.5	1.2	1.1
169.5°	1.3	1.7	1.5	1.2	0.9	1.2	1.3	1.6	1.5	1.3	1.3
170°	1.4	1.5	1.6	1.2	0.9	1.5	1.3	1.4	1.5	1.1	1.3
170.5°	1.5	1.4	1.4	1.5	0.9	1.4	1.3	1.5	1.6	1.2	1.3
171°	1.5	1.4	1.5	1.3	0.9	1.3	1.3	1.5	1.5	1.3	1.4
171.5°	1.4	1.5	1.5	1.3	0.9	1.3	1.3	1.6	1.5	1.2	1.5
172°	1.5	1.6	1.5	1.3	0.9	1.3	1.3	1.5	1.5	1.3	1.5
172.5°	1.4	1.5	1.4	1.3	0.9	1.4	1.3	1.6	1.5	1.1	1.5
173°	1.4	1.5	1.4	1.3	0.9	1.3	1.3	1.6	1.5	1.2	1.5
173.5°	1.3	1.5	1.3	1.4	0.9	1.5	1.3	1.5	1.4	1.3	1.4
174°	1.3	1.5	1.3	1.4	0.9	1.4	1.3	1.5	1.4	1.3	1.4
174.5°	1.3	1.5	1.3	1.1	0.9	1.5	1.3	1.4	1.4	1.3	1.3
175°	1.3	1.5	1.3	1.0	0.9	1.4	1.3	1.5	1.4	1.2	1.3
175.5°	1.4	1.4	1.3	1.1	0.9	1.4	1.3	1.4	1.3	1.0	1.5
176°	1.4	1.5	1.4	1.1	0.9	1.3	1.3	1.5	1.3	1.3	1.4
176.5°	1.2	1.5	1.3	1.2	0.9	1.4	1.3	1.5	1.4	1.2	1.4
177°	1.2	1.5	1.3	1.2	0.9	1.0	1.3	1.4	1.3	1.1	1.4
177.5°	1.2	1.3	1.3	1.3	0.9	1.4	1.3	1.5	1.2	1.1	1.3
178°	1.3	1.4	1.3	1.1	0.9	1.5	1.3	1.5	1.4	1.1	1.4
178.5°	1.2	1.4	1.2	1.2	0.9	1.5	1.3	1.5	1.4	1.1	1.4



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	316.5	316.5	316.5	316.5	316.5	316.5
0.5°	316.6	315.6	316.6	317.2	316.0	315.5
1°	316.9	315.7	316.3	316.3	316.6	316.1
1.5°	317.7	315.5	317.6	317.3	317.3	317.1
2°	318.5	315.2	315.7	317.1	315.4	315.9
2.5°	316.9	314.7	316.1	314.8	317.0	317.0
3°	314.0	314.6	316.0	315.5	316.5	311.6
3.5°	314.7	314.1	313.8	314.7	314.1	311.3
4°	316.2	313.8	313.9	312.5	314.1	312.7
4.5°	315.5	313.5	313.3	312.4	313.6	313.0
5°	315.1	313.0	313.1	312.5	310.7	311.8
5.5°	312.6	312.7	312.8	311.2	312.5	311.4
6°	313.7	311.9	311.3	312.2	311.3	312.0
6.5°	313.6	311.5	310.4	313.1	310.7	309.5
7°	312.9	310.4	309.7	310.3	309.8	312.3
7.5°	310.4	309.7	310.2	310.1	309.6	309.4
8°	311.0	308.8	308.0	308.5	309.1	307.7
8.5°	310.7	308.2	307.6	308.2	307.5	307.7
9°	309.3	307.2	307.0	307.8	304.7	308.0
9.5°	307.2	306.0	305.3	307.3	303.9	305.8
10°	309.0	305.4	304.4	305.6	306.1	306.1
10.5°	309.1	304.4	304.5	301.7	303.5	303.4
11°	308.4	303.1	304.0	302.6	303.8	301.7
11.5°	306.2	301.9	301.5	300.5	299.9	298.3
12°	303.4	300.7	300.6	299.5	300.6	300.7
12.5°	301.8	299.8	299.5	299.9	296.3	298.9
13°	302.5	298.1	298.3	297.2	295.8	294.8
13.5°	301.7	297.1	296.7	296.0	295.9	294.8
14°	300.0	296.2	297.2	295.6	292.7	294.2
14.5°	299.4	294.8	294.7	291.9	292.6	291.5
15°	298.3	293.2	292.0	289.0	291.5	290.7
15.5°	299.9	291.7	290.1	288.9	290.0	289.6
16°	297.1	290.3	289.6	288.4	289.5	288.2
16.5°	295.0	288.8	287.1	286.6	287.5	286.4
17°	294.1	287.2	286.8	283.3	285.1	284.4
17.5°	292.8	285.3	284.8	283.5	283.7	283.5
18°	290.5	284.0	282.4	282.0	282.5	282.2
18.5°	286.9	282.2	281.8	278.6	281.6	280.4
19°	287.8	280.8	279.5	278.6	278.7	279.4
19.5°	284.7	279.1	278.3	277.0	277.5	275.9
20°	283.6	277.2	275.5	274.3	271.8	275.8
20.5°	281.7	275.4	274.5	273.8	272.0	272.7
21°	280.6	273.5	272.4	271.0	269.0	273.2



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	272.9	267.6	265.8	263.0	263.9	265.5
23°	269.8	265.8	263.6	262.0	261.9	263.4
23.5°	270.4	263.4	261.7	261.3	260.2	258.9
24°	268.6	261.3	259.4	257.3	256.5	258.4
24.5°	266.5	259.2	257.5	256.2	254.3	255.6
25°	264.5	257.2	255.0	253.6	252.0	253.5
25.5°	261.8	255.1	252.7	250.8	250.7	251.0
26°	260.1	252.6	250.4	248.9	247.4	249.1
26.5°	257.0	250.4	247.9	247.2	245.7	247.3
27°	254.9	248.0	245.9	244.9	242.8	244.2
27.5°	253.4	245.7	243.7	241.8	241.0	243.0
28°	250.8	243.4	241.4	239.1	239.6	239.9
28.5°	248.5	240.7	238.7	237.4	236.3	237.4
29°	245.7	238.7	236.6	235.1	232.9	235.9
29.5°	244.1	236.0	233.9	232.6	231.6	232.6
30°	241.4	233.6	230.9	230.0	230.4	229.5
30.5°	238.8	231.0	228.4	227.3	226.0	227.6
31°	237.0	228.2	226.2	224.7	223.5	225.0
31.5°	234.8	225.7	224.1	222.5	221.1	221.6
32°	231.6	223.0	221.2	219.9	218.0	219.7
32.5°	229.3	220.7	218.6	217.3	214.2	217.6
33°	226.7	218.2	216.0	214.4	213.7	214.4
33.5°	223.8	215.4	213.5	212.3	211.0	211.4
34°	222.4	212.8	210.6	209.3	208.5	208.9
34.5°	219.0	210.3	208.0	206.6	205.7	206.2
35°	215.9	207.7	205.5	203.6	203.8	203.5
35.5°	213.4	205.1	202.8	200.8	199.4	200.6
36°	210.9	202.2	199.8	198.3	197.6	198.2
36.5°	207.1	199.1	197.5	195.2	195.1	195.5
37°	204.3	196.6	194.5	192.4	192.3	192.5
37.5°	201.3	193.7	191.6	189.8	189.8	190.0
38°	198.3	191.0	188.9	187.2	186.7	186.7
38.5°	195.4	188.4	185.8	184.6	183.2	183.6
39°	192.6	185.6	183.5	181.7	181.7	180.9
39.5°	189.9	182.7	180.3	178.7	178.5	178.5
40°	187.2	179.6	177.3	176.1	175.4	175.7
40.5°	183.6	177.0	174.6	173.1	172.7	172.7
41°	181.0	174.0	171.7	170.4	169.7	169.5
41.5°	177.8	171.0	168.9	167.5	166.7	166.5
42°	175.5	168.3	166.1	164.6	163.4	164.0
42.5°	172.9	165.3	163.3	161.6	160.6	161.2
43°	169.6	162.4	160.5	158.5	157.7	158.1
43.5°	167.1	159.2	157.3	155.4	155.0	155.3



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	158.3	150.3	148.4	146.8	146.1	147.1
45.5°	155.6	147.4	145.4	143.3	143.3	144.1
46°	152.3	144.4	142.5	140.5	140.2	141.2
46.5°	149.1	141.3	139.3	137.5	137.2	138.4
47°	145.2	138.2	136.3	134.5	134.0	135.0
47.5°	143.0	135.1	133.1	131.6	130.7	131.8
48°	140.0	132.1	130.1	128.5	127.8	128.8
48.5°	136.6	129.3	127.0	125.4	124.5	125.7
49°	132.9	125.8	123.9	122.1	121.4	122.4
49.5°	129.5	122.7	120.8	119.1	118.2	118.7
50°	126.0	119.6	117.7	115.8	115.0	115.4
50.5°	122.8	116.3	114.4	112.6	111.8	112.0
51°	119.2	112.8	111.2	109.6	108.6	108.7
51.5°	115.9	110.1	108.1	106.4	105.6	105.5
52°	112.6	106.7	104.8	103.3	102.6	102.3
52.5°	109.2	103.4	101.7	100.2	99.3	99.3
53°	105.8	100.5	98.5	97.1	96.3	96.2
53.5°	102.5	97.2	95.4	94.0	93.2	93.0
54°	99.1	94.0	92.2	90.9	90.1	90.0
54.5°	95.9	91.1	89.2	88.0	87.2	87.3
55°	92.7	87.9	86.2	85.0	84.2	84.7
55.5°	89.4	85.0	83.2	82.0	81.3	81.7
56°	86.2	82.1	80.3	79.3	78.4	78.6
56.5°	83.5	79.1	77.5	76.2	75.5	75.7
57°	80.6	76.1	74.6	73.4	72.8	72.7
57.5°	77.2	73.5	72.0	70.7	70.0	70.0
58°	74.3	70.8	69.2	67.9	67.3	67.5
58.5°	71.8	67.8	66.4	65.0	64.6	64.9
59°	68.8	65.0	63.8	62.5	61.9	62.3
59.5°	65.9	62.3	61.0	60.0	59.5	59.7
60°	63.2	59.5	58.4	57.4	56.9	57.1
60.5°	60.4	57.1	55.8	54.8	54.4	55.0
61°	57.7	54.6	53.3	52.5	52.1	52.7
61.5°	55.3	52.2	50.9	50.1	49.8	50.3
62°	53.0	49.7	48.5	47.9	47.4	48.0
62.5°	50.4	47.3	46.2	45.4	45.2	45.6
63°	47.8	44.9	44.0	43.2	43.0	43.4
63.5°	45.3	42.7	41.8	41.2	41.0	41.3
64°	43.0	40.7	39.7	39.1	38.8	39.2
64.5°	40.8	38.4	37.7	37.0	36.8	37.1
65°	38.8	36.7	35.7	35.1	34.9	35.2
65.5°	36.8	34.6	33.8	33.3	33.0	33.2
66°	34.7	32.6	32.0	31.6	31.3	31.1



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	29.2	27.6	27.0	26.8	26.4	25.6
68°	27.5	25.8	25.6	25.3	24.9	23.9
68.5°	26.1	24.7	24.2	23.8	23.7	22.5
69°	24.4	23.3	22.9	22.7	22.3	21.2
69.5°	23.0	22.0	21.8	21.5	21.0	19.8
70°	21.5	20.7	20.7	20.4	19.8	18.7
70.5°	20.2	19.5	19.5	19.3	18.6	17.4
71°	19.1	18.6	18.5	18.3	17.5	16.5
71.5°	18.1	17.6	17.4	17.3	16.6	15.5
72°	16.9	16.7	16.7	16.5	15.6	14.6
72.5°	16.0	15.6	15.6	15.6	14.6	13.7
73°	15.1	14.6	14.7	14.7	13.7	13.0
73.5°	14.0	13.8	13.9	13.8	13.1	12.3
74°	13.2	13.0	13.1	13.1	12.6	11.5
74.5°	12.5	12.4	12.5	12.5	11.6	10.9
75°	12.0	11.8	11.8	11.8	10.8	10.3
75.5°	11.1	10.9	11.2	11.1	10.4	9.6
76°	10.3	10.5	10.7	10.5	9.7	9.0
76.5°	10.1	9.8	10.1	10.0	9.0	8.5
77°	9.2	9.5	9.6	9.4	8.6	8.0
77.5°	8.8	9.0	9.1	8.9	8.2	7.6
78°	8.3	8.5	8.6	8.5	7.5	7.1
78.5°	8.1	8.0	8.2	8.0	7.1	6.8
79°	7.3	7.4	7.7	7.5	6.4	6.4
79.5°	7.1	7.1	7.4	7.0	6.3	5.9
80°	7.1	6.6	6.9	6.6	5.7	5.5
80.5°	6.2	6.4	6.5	6.1	5.4	5.1
81°	6.2	6.0	6.3	5.5	4.9	4.7
81.5°	6.1	5.6	5.8	5.3	4.6	4.3
82°	5.1	5.4	5.5	5.1	4.4	3.9
82.5°	4.8	5.1	5.2	4.4	3.7	3.5
83°	4.5	4.6	4.8	4.4	3.4	3.1
83.5°	4.1	4.4	4.5	4.1	3.3	2.8
84°	4.1	4.0	4.2	3.6	2.6	2.4
84.5°	4.1	3.5	3.7	3.4	2.3	2.2
85°	3.1	3.2	3.4	2.9	2.2	1.8
85.5°	3.0	3.0	3.2	2.7	1.8	1.4
86°	3.0	2.6	2.7	2.4	1.4	1.2
86.5°	2.0	2.3	2.4	2.1	1.1	1.1
87°	2.0	1.9	2.3	1.8	0.9	0.9
87.5°	2.0	1.8	1.8	1.5	0.9	0.9
88°	1.3	1.4	1.5	1.3	0.8	0.8
88.5°	0.8	1.0	1.2	0.9	0.6	0.6



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.3	0.3	0.4	0.3	0.3	0.4
90.5°	0.4	0.3	0.4	0.3	0.3	0.4
91°	0.3	0.3	0.4	0.3	0.3	0.4
91.5°	0.3	0.3	0.4	0.3	0.3	0.4
92°	0.3	0.3	0.3	0.3	0.3	0.4
92.5°	0.3	0.4	0.3	0.3	0.3	0.4
93°	0.3	0.1	0.3	0.3	0.3	0.4
93.5°	0.3	0.0	0.3	0.3	0.3	0.4
94°	0.3	0.0	0.3	0.3	0.3	0.4
94.5°	0.3	0.2	0.3	0.1	0.3	0.4
95°	0.3	0.3	0.3	0.1	0.3	0.4
95.5°	0.4	0.1	0.3	0.1	0.3	0.4
96°	0.4	0.2	0.3	0.1	0.3	0.4
96.5°	0.4	0.1	0.3	0.1	0.3	0.4
97°	0.4	0.1	0.3	0.1	0.3	0.4
97.5°	0.4	0.2	0.3	0.1	0.3	0.4
98°	0.4	0.0	0.3	0.1	0.3	0.4
98.5°	0.4	0.0	0.3	0.1	0.3	0.4
99°	0.4	0.0	0.3	0.1	0.2	0.4
99.5°	0.4	0.0	0.3	0.1	0.2	0.4
100°	0.4	0.1	0.3	0.1	0.2	0.4
100.5°	0.4	0.2	0.3	0.1	0.2	0.4
101°	0.4	0.1	0.3	0.1	0.2	0.4
101.5°	0.4	0.1	0.3	0.1	0.2	0.4
102°	0.4	0.3	0.3	0.1	0.2	0.4
102.5°	0.4	0.4	0.3	0.1	0.2	0.4
103°	0.4	0.3	0.3	0.1	0.2	0.4
103.5°	0.4	0.4	0.3	0.1	0.3	0.4
104°	0.4	0.3	0.3	0.1	0.3	0.4
104.5°	0.4	0.2	0.3	0.1	0.2	0.4
105°	0.4	0.2	0.3	0.1	0.3	0.4
105.5°	0.4	0.2	0.3	0.1	0.3	0.4
106°	0.4	0.2	0.3	0.1	0.2	0.4
106.5°	0.4	0.2	0.3	0.1	0.2	0.4
107°	0.4	0.2	0.3	0.1	0.2	0.4
107.5°	0.4	0.2	0.3	0.1	0.2	0.4
108°	0.4	0.2	0.3	0.1	0.2	0.4
108.5°	0.4	0.2	0.3	0.1	0.2	0.4
109°	0.4	0.2	0.3	0.1	0.2	0.4
109.5°	0.4	0.2	0.3	0.1	0.2	0.4
110°	0.4	0.2	0.3	0.1	0.3	0.4
110.5°	0.4	0.2	0.3	0.1	0.3	0.4
111°	0.4	0.2	0.3	0.1	0.3	0.4



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.4	0.3	0.3	0.1	0.4	0.4
113°	0.4	0.3	0.3	0.1	0.3	0.4
113.5°	0.4	0.3	0.3	0.2	0.3	0.4
114°	0.4	0.3	0.3	0.2	0.3	0.4
114.5°	0.4	0.3	0.3	0.2	0.4	0.4
115°	0.4	0.3	0.3	0.2	0.5	0.4
115.5°	0.4	0.3	0.3	0.2	0.4	0.4
116°	0.4	0.7	0.3	0.2	0.3	0.4
116.5°	0.4	0.6	0.3	0.2	0.4	0.4
117°	0.4	0.5	0.3	0.2	0.3	0.4
117.5°	0.4	0.5	0.3	0.2	0.3	0.4
118°	0.3	0.5	0.3	0.2	0.5	0.4
118.5°	0.0	0.5	0.3	0.2	0.4	0.4
119°	0.2	0.5	0.3	0.2	0.4	0.4
119.5°	0.3	0.5	0.3	0.2	0.4	0.4
120°	0.3	0.5	0.3	0.2	0.4	0.4
120.5°	0.5	0.5	0.3	0.2	0.4	0.4
121°	0.5	0.5	0.3	0.2	0.4	0.4
121.5°	0.3	0.5	0.3	0.2	0.5	0.4
122°	0.3	0.5	0.3	0.3	0.3	0.4
122.5°	0.3	0.5	0.3	0.3	0.3	0.4
123°	0.3	0.5	0.3	0.3	0.4	0.4
123.5°	0.3	0.5	0.3	0.4	0.5	0.4
124°	0.3	0.5	0.3	0.6	0.6	0.4
124.5°	0.3	0.5	0.3	0.6	0.4	0.4
125°	0.3	0.5	0.3	0.4	0.5	0.4
125.5°	0.6	0.5	0.3	0.6	0.4	0.4
126°	0.6	0.6	0.3	0.5	0.5	0.4
126.5°	0.5	0.6	0.3	0.6	0.6	0.4
127°	0.4	0.5	0.3	0.5	0.5	0.4
127.5°	0.6	0.6	0.3	0.7	0.5	0.4
128°	0.6	0.5	0.3	0.4	0.8	0.4
128.5°	0.6	0.6	0.4	0.4	0.5	0.4
129°	0.6	0.6	0.4	0.6	0.5	0.4
129.5°	0.6	0.6	0.4	0.6	0.4	0.4
130°	0.7	0.7	0.6	0.6	0.5	0.4
130.5°	0.6	0.6	0.6	0.6	0.8	0.4
131°	0.5	0.7	0.5	0.7	0.8	0.4
131.5°	0.5	0.6	0.7	0.6	0.8	0.4
132°	0.4	0.6	0.6	0.6	0.6	0.4
132.5°	0.4	0.6	0.7	0.6	0.6	0.4
133°	0.5	0.7	0.7	0.7	0.8	0.4
133.5°	0.6	0.8	0.8	0.7	0.8	0.4



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.7	0.8	0.8	0.7	0.8	0.6
135.5°	0.7	0.7	0.7	0.8	0.8	0.6
136°	0.7	0.8	0.6	0.9	0.8	0.6
136.5°	0.7	0.8	0.8	0.8	0.7	0.6
137°	0.8	0.7	0.8	0.6	0.8	0.7
137.5°	0.8	0.8	0.8	0.8	0.8	0.7
138°	0.6	1.5	0.7	0.8	0.9	0.8
138.5°	0.6	1.2	0.8	0.8	0.8	0.8
139°	0.7	1.1	0.8	0.7	0.7	0.8
139.5°	0.8	1.1	0.6	0.8	0.8	0.9
140°	0.7	1.1	0.8	0.8	0.8	0.8
140.5°	0.7	1.1	0.8	0.8	1.0	0.8
141°	0.7	1.1	0.8	0.9	0.8	0.9
141.5°	0.7	1.1	1.0	0.9	1.0	0.8
142°	0.5	1.1	0.7	0.8	1.0	0.8
142.5°	0.5	1.1	0.8	0.9	1.0	1.0
143°	0.6	1.1	0.8	0.9	0.9	1.0
143.5°	0.6	1.1	0.9	0.9	1.0	0.9
144°	0.6	1.1	0.8	1.0	0.9	0.9
144.5°	0.8	1.0	0.9	1.0	1.2	0.9
145°	0.9	1.1	1.0	1.0	1.0	0.9
145.5°	0.8	0.9	0.9	1.0	1.0	0.9
146°	0.8	0.9	0.8	1.1	1.0	0.9
146.5°	0.9	0.9	0.9	1.1	1.0	0.9
147°	0.9	0.9	0.9	1.1	1.3	0.9
147.5°	0.9	0.9	0.9	1.4	1.3	0.9
148°	0.9	1.0	1.0	1.3	1.3	0.9
148.5°	0.8	1.0	1.0	1.3	1.3	0.9
149°	0.8	0.9	1.1	1.3	1.3	0.9
149.5°	0.9	0.9	1.1	1.3	1.1	0.9
150°	1.0	0.9	1.1	1.4	1.1	0.9
150.5°	1.0	1.0	1.1	1.2	1.1	0.9
151°	1.0	1.1	1.3	1.3	1.1	0.9
151.5°	0.9	1.1	1.1	1.3	1.0	0.9
152°	1.0	1.0	1.2	1.3	1.3	0.9
152.5°	0.9	1.0	1.2	1.3	1.1	0.9
153°	0.9	1.1	1.1	1.4	1.2	0.9
153.5°	0.8	1.4	1.1	1.4	1.1	0.9
154°	0.9	1.4	1.3	1.2	1.0	0.9
154.5°	0.8	1.3	1.2	1.5	1.5	1.0
155°	1.0	1.2	1.3	1.5	1.3	1.0
155.5°	1.1	1.0	1.3	1.5	1.1	1.0
156°	1.0	1.3	0.9	1.5	1.2	1.0



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.0	1.3	1.0	1.2	1.3	1.0
158°	1.0	1.1	1.2	1.4	1.3	1.0
158.5°	0.9	1.4	1.2	1.6	1.3	1.0
159°	1.1	1.4	1.3	1.4	1.3	1.0
159.5°	1.0	1.4	1.2	1.5	1.3	1.0
160°	1.1	1.4	1.1	1.6	1.4	1.0
160.5°	1.0	1.3	1.1	1.5	1.4	1.0
161°	1.1	1.3	1.0	1.5	1.5	1.0
161.5°	1.4	1.3	1.3	1.4	1.3	1.0
162°	1.1	1.4	1.3	1.6	1.4	1.0
162.5°	1.1	1.4	1.1	1.6	1.6	1.0
163°	1.2	1.4	1.3	1.6	1.6	1.0
163.5°	1.2	1.4	1.3	1.6	1.5	1.0
164°	1.1	1.4	1.5	1.6	1.5	1.0
164.5°	1.1	1.4	1.5	1.6	1.3	1.0
165°	1.1	1.4	1.4	1.5	1.5	1.0
165.5°	1.3	1.3	1.4	1.6	1.6	1.1
166°	1.1	1.3	1.4	1.3	1.6	1.1
166.5°	1.3	1.4	1.3	1.3	1.5	1.1
167°	1.2	1.4	1.3	1.4	1.5	1.1
167.5°	1.3	1.5	1.4	1.5	1.5	1.1
168°	1.4	1.3	1.3	1.5	1.5	1.2
168.5°	1.3	1.4	1.3	1.6	1.3	1.2
169°	1.4	1.5	1.3	1.6	1.3	1.3
169.5°	1.3	1.5	1.3	1.6	1.4	1.3
170°	1.3	1.5	1.4	1.5	1.4	1.4
170.5°	1.5	1.5	1.3	1.4	1.5	1.5
171°	1.4	1.5	1.5	1.6	1.5	1.5
171.5°	1.3	1.5	1.3	1.6	1.4	1.4
172°	1.5	1.5	1.6	1.5	1.6	1.5
172.5°	1.4	1.5	1.4	1.6	1.6	1.4
173°	1.5	1.4	1.4	1.6	1.7	1.4
173.5°	1.4	1.3	1.4	1.6	1.5	1.3
174°	1.3	1.3	1.5	1.6	1.4	1.3
174.5°	1.5	1.4	1.1	1.6	1.4	1.3
175°	1.5	1.4	1.2	1.6	1.4	1.3
175.5°	1.3	1.4	1.1	1.6	1.4	1.4
176°	1.2	1.4	1.1	1.5	1.4	1.4
176.5°	1.1	1.3	1.5	1.5	1.4	1.2
177°	1.2	1.3	1.4	1.5	1.4	1.2
177.5°	1.2	1.4	1.5	1.5	1.4	1.2
178°	1.2	1.3	1.5	1.6	1.4	1.3
178.5°	1.2	1.3	1.3	1.5	1.4	1.2



TEST NUMBER: A2016275B001

CATALOG NUMBER: LT4069FS231EWHR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.3	1.3	1.3	1.3	1.3	1.3



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°







21.5°	269.7	270.2	270.0	273.4	276.6	279.5	282.0	282.5	281.4	283.1	280.5
22°	267.9	267.9	268.1	273.2	274.7	277.6	279.2	280.1	280.8	282.0	278.6



44°	152.7	154.4	156.0	158.8	163.1	165.9	168.4	169.4	169.3	169.0	166.7
44.5°	149.9	151.3	152.8	155.1	159.9	162.8	165.5	166.8	166.3	165.8	163.9



66.5°	29.2	30.2	30.6	30.8	31.6	32.6	33.3	33.6	33.1	33.3	32.9
67°	27.2	28.3	28.8	29.0	29.8	30.8	31.2	31.6	30.9	31.2	31.0



89°	0.5	0.6	0.6	0.7	0.4	0.6	0.6	0.4	0.4	0.3	0.3
89.5°	0.4	0.5	0.5	0.5	0.3	0.2	0.3	0.4	0.4	0.3	0.3



111.5°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.1	0.4	0.3	0.3
112°	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.3



134°	0.4	0.7	0.8	0.8	0.8	0.6	0.7	0.5	0.7	0.7	0.6
134.5°	0.4	0.8	0.8	0.7	0.8	0.6	0.7	0.5	0.6	0.8	0.7



156.5°	1.0	1.4	1.2	1.0	0.9	1.0	1.0	0.9	1.1	1.2	1.3
157°	1.0	1.4	1.1	1.0	0.9	1.0	1.0	0.9	1.1	1.2	1.1



179°	1.2	1.3	1.2	1.3	0.9	1.5	1.3	1.5	1.3	1.2	1.5
179.5°	1.3	1.3	1.2	1.2	0.9	1.3	1.3	1.5	1.3	1.1	1.5





21.5°	279.5	271.3	270.0	267.8	266.7	269.7
22°	276.4	269.6	268.0	267.0	265.9	267.9



44°	164.4	156.1	154.4	152.6	152.0	152.7
44.5°	161.2	153.1	151.3	150.1	148.8	149.9



66.5°	32.7	31.0	30.4	29.8	29.7	29.2
67°	31.0	29.2	28.7	28.3	28.0	27.2



89°	0.6	0.8	0.9	0.7	0.4	0.5
89.5°	0.3	0.4	0.6	0.4	0.4	0.4



111.5°	0.5	0.2	0.3	0.1	0.3	0.4
112°	0.5	0.3	0.3	0.1	0.3	0.4



134°	0.6	0.8	0.8	0.5	0.8	0.4
134.5°	0.5	0.7	0.8	0.6	0.9	0.4



156.5°	1.1	1.3	0.9	1.4	1.2	1.0
157°	1.3	1.3	0.9	1.4	1.2	1.0



179°	1.2	1.4	1.3	1.5	1.4	1.2
179.5°	1.2	1.4	1.4	1.5	1.4	1.3



(END OF REPORT)