

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: A2016275A001

Luminaire Tested: **LTSS4069FS231EWHWR**

Test Date: 2020-09-10



Test Information

Test Method: LM-41-14
Report Number: A2016275A001
Test Lab: EVERFINE
Test Date: 2020-09-10
Issue Date: 2020-09-10 09:27:38
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: LTSS4069FS231EWHWR
Description: LTSS4069FS231EWHWR
Light Source: -
Ballast/Driver: -

Summary

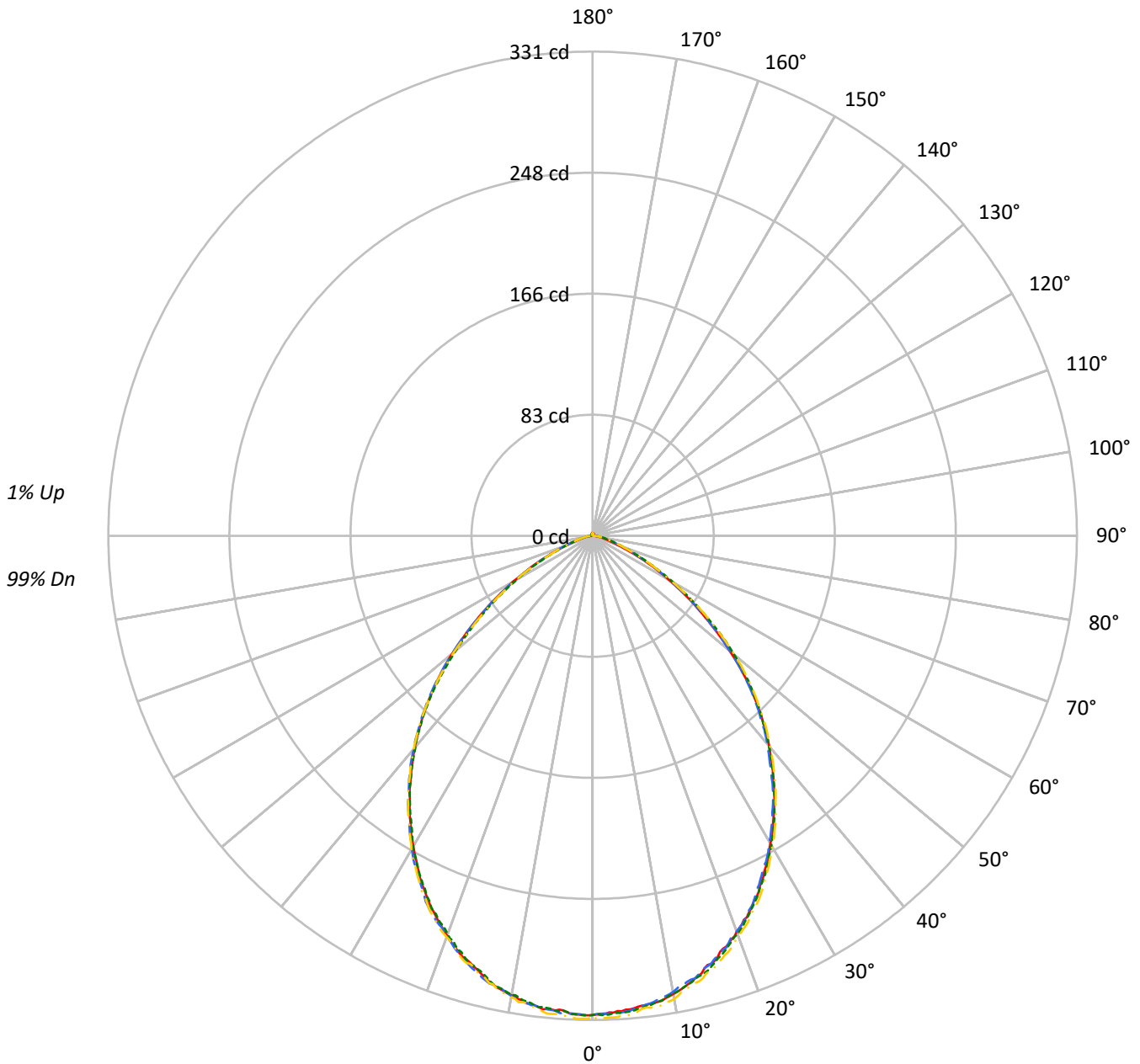
Lumens per Lamp: N/A
Luminaire Lumens: 634.5 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.21
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 6.89725
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

TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

Luminous Intensity Polar Plot





TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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															
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90					88															
2	103	96	90	86	100	94	89	85	91	86	83	87	84	81	84	81	79					77															
3	95	86	79	74	93	85	78	73	82	76	72	79	74	70	76	73	69					67															
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	69	65	61					59															
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	58	54					53															
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49					47															
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44					42															
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	49	44	40					38															
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36					35															
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	37	33					32															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	41242	41242	41242	41242
5°	40969	41153	41064	41017
10°	40652	40635	40772	40691
15°	39566	40031	39945	39901
20°	38583	38837	38967	38792
25°	37284	37338	37500	37405
30°	35326	35510	35621	35653
35°	33277	33279	33477	33488
40°	30840	30787	31063	30964
45°	27855	28017	28135	27964
50°	23959	24673	24491	23878
55°	19579	20452	20262	19567
60°	15084	15975	15731	15007
65°	10741	11710	11322	10600
70°	6554	8200	6936	6943
75°	4597	5883	4588	4957
80°	3704	5118	3748	4387
85°	2203	4668	2369	3788



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	4.9
10°-20°	86.2	13.6
20°-30°	123.6	19.5
30°-40°	135.5	21.4
40°-50°	120.7	19.0
50°-60°	81.5	12.8
60°-70°	37.9	6.0
70°-80°	12.1	1.9
80°-90°	3.0	0.5
90°-100°	0.2	0.0
100°-110°	0.2	0.0
110°-120°	0.3	0.0
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°	240.6	37.9
0°-40°	376.1	59.3
0°-60°	578.3	91.1
0°-90°	631.2	99.5
90°-120°	0.8	0.1
90°-150°	2.3	0.4
90°-180°	3.0	0.5
0°-180°	634.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	328	328	328	328	328	
5°	324	326	325	325	324	31
15°	304	307	307	306	304	86
25°	268	269	270	269	268	123
35°	217	217	218	218	217	135
45°	157	157	158	157	157	120
55°	89	93	92	89	89	80
65°	36	39	38	36	36	36
75°	9	12	9	10	9	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	0	0	0	0	0
125°	0	0	1	0	0	0
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	1
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	327.7	327.7	327.7	327.7	327.7	327.7	327.7	327.7	327.7	327.7	327.7
0.5°	327.4	326.6	327.0	328.0	326.7	326.9	330.6	328.1	327.8	326.7	327.7
1°	327.3	325.7	326.7	327.8	327.7	326.8	329.9	327.4	327.9	327.3	327.9
1.5°	327.1	326.3	326.6	327.4	327.8	325.7	329.9	327.3	327.7	325.8	327.3
2°	326.0	326.6	326.7	327.0	327.5	326.1	329.6	327.2	327.3	326.6	327.1
2.5°	326.4	325.8	326.6	326.9	326.8	325.9	329.7	327.0	327.3	326.9	326.9
3°	325.4	324.5	326.4	326.1	326.6	325.6	329.5	326.4	326.4	325.3	327.1
3.5°	325.6	324.0	326.4	325.4	326.9	325.5	328.7	326.5	325.2	324.5	327.3
4°	324.8	323.2	326.1	325.1	326.5	325.5	328.6	326.3	324.9	324.0	327.1
4.5°	324.8	322.8	325.7	325.2	326.2	325.5	328.4	326.1	325.6	323.9	325.8
5°	324.3	321.9	324.9	324.5	325.8	324.8	328.2	325.5	325.1	323.2	325.4
5.5°	323.4	321.6	324.5	323.7	324.9	325.3	326.4	324.8	325.0	322.8	325.3
6°	323.0	321.7	323.4	323.7	324.6	323.1	325.1	324.4	325.5	320.7	324.6
6.5°	322.9	321.7	322.5	322.1	323.7	322.8	324.6	323.9	324.3	321.4	324.2
7°	322.4	320.5	322.2	321.5	323.5	321.9	325.1	323.2	323.5	322.6	323.6
7.5°	322.2	319.3	321.4	320.4	322.4	321.4	324.6	322.7	322.9	320.2	323.6
8°	321.8	318.3	320.3	320.4	321.7	320.7	324.6	322.3	322.8	320.2	322.6
8.5°	321.4	318.2	319.2	319.8	321.0	320.0	324.6	321.3	321.3	318.9	322.2
9°	320.0	317.7	318.7	318.5	319.9	319.7	322.7	320.8	320.9	318.0	321.3
9.5°	319.1	316.8	317.8	317.2	318.7	319.4	322.4	320.3	320.0	318.0	320.4
10°	318.1	315.8	316.7	315.6	318.0	317.5	321.5	319.6	319.1	317.6	319.6
10.5°	317.1	314.0	315.1	315.4	316.9	316.6	319.9	318.3	318.3	317.1	318.0
11°	316.0	313.4	313.1	314.9	315.9	315.1	317.8	317.1	317.3	315.5	317.0
11.5°	314.8	313.8	312.9	314.5	314.7	313.3	317.3	316.0	316.4	314.5	315.6
12°	313.5	311.1	311.6	311.9	313.7	312.2	315.7	314.8	315.5	313.3	315.2
12.5°	312.4	310.3	310.8	311.2	312.6	311.6	314.5	313.2	314.1	312.8	314.3
13°	310.8	309.3	310.5	309.9	311.2	310.7	313.6	312.3	313.0	310.8	314.1
13.5°	309.4	307.3	308.8	308.6	309.8	309.5	313.1	310.4	311.6	309.9	312.8
14°	308.3	306.2	307.3	306.6	309.5	308.0	311.7	309.7	309.9	308.5	311.5
14.5°	305.4	305.6	305.3	304.5	308.2	306.3	309.4	308.7	308.2	307.4	309.6
15°	303.7	304.2	304.4	304.0	307.3	304.5	308.2	307.2	306.6	305.4	308.3
15.5°	303.7	302.0	303.4	303.5	305.0	303.1	307.7	305.6	305.5	304.1	307.2
16°	302.4	300.4	301.3	302.0	303.5	301.3	305.8	304.0	303.8	303.4	305.6
16.5°	300.7	299.5	299.8	300.2	301.5	300.4	303.9	302.6	302.4	301.5	303.9
17°	297.7	297.7	298.4	298.4	300.0	299.3	302.4	301.3	301.7	300.0	302.7
17.5°	296.0	296.2	296.6	296.4	298.4	297.9	300.6	299.5	300.1	298.6	300.7
18°	295.3	293.9	295.9	294.6	296.7	295.5	299.5	298.0	298.4	298.0	299.0
18.5°	293.6	292.2	293.3	293.0	294.7	294.1	297.7	295.8	296.6	296.9	297.4
19°	291.7	290.3	290.6	290.2	292.9	292.2	295.7	294.1	294.9	294.3	295.1
19.5°	290.6	288.9	289.3	288.0	290.8	290.7	293.1	292.2	293.2	292.0	293.0
20°	288.1	286.8	287.7	287.1	290.0	288.8	291.3	290.1	291.0	289.9	291.5
20.5°	286.3	284.4	286.2	284.3	287.8	286.4	289.6	288.2	289.0	287.6	288.9
21°	284.6	282.1	284.8	282.2	286.3	284.5	287.8	286.2	287.0	286.1	287.1



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	278.8	276.8	277.9	276.7	279.7	278.4	281.4	280.8	280.9	280.0	282.7
23°	277.1	274.8	276.4	274.5	277.6	276.3	279.4	278.8	278.7	278.4	281.3
23.5°	274.4	273.7	274.7	272.2	275.3	274.1	278.5	276.2	277.2	276.4	279.0
24°	272.0	271.4	271.9	269.9	273.4	272.0	275.6	274.3	274.7	273.6	277.0
24.5°	270.9	268.1	268.9	267.1	271.4	269.7	273.7	272.2	272.5	271.0	274.9
25°	268.5	266.2	266.2	264.8	268.9	267.2	271.2	269.6	270.1	268.6	271.9
25.5°	265.5	263.6	264.4	263.0	266.1	264.6	268.9	267.7	267.7	266.4	268.9
26°	263.1	262.1	261.5	259.7	264.0	262.3	266.6	265.4	265.5	264.2	266.8
26.5°	261.2	259.8	259.1	257.9	261.8	259.8	263.5	263.0	263.2	262.3	264.4
27°	258.0	258.0	256.1	256.1	259.7	257.8	261.4	260.5	260.9	260.1	262.1
27.5°	255.8	255.5	254.0	253.6	257.0	255.6	258.6	257.8	258.0	257.9	260.0
28°	253.5	252.7	252.5	251.5	254.6	253.1	256.2	255.4	255.6	255.8	257.3
28.5°	251.2	249.9	249.9	248.7	251.6	250.8	253.5	252.9	252.6	253.4	255.1
29°	248.6	246.9	247.4	247.0	249.2	248.3	251.1	250.4	250.5	250.6	252.8
29.5°	245.4	244.1	244.3	244.3	247.2	245.3	248.3	248.0	247.7	248.0	249.8
30°	243.1	241.4	241.6	241.0	244.4	242.6	245.7	244.9	245.1	245.6	247.1
30.5°	240.7	239.3	239.4	238.5	241.7	240.1	243.0	242.2	242.5	242.9	244.5
31°	238.5	236.8	236.5	235.5	239.0	237.6	240.7	239.5	240.3	240.3	241.6
31.5°	235.7	234.1	234.1	232.8	236.6	234.8	237.9	236.7	237.7	237.1	239.0
32°	232.8	231.3	231.4	230.4	233.8	232.2	235.2	233.9	234.8	234.4	236.2
32.5°	230.0	228.7	228.9	227.4	231.0	229.3	232.5	231.2	232.0	231.9	233.3
33°	227.4	225.8	225.5	224.5	228.3	226.8	229.6	228.7	229.4	229.2	230.4
33.5°	224.8	222.7	223.1	221.7	225.2	223.8	226.8	226.0	226.4	226.1	227.8
34°	222.0	219.9	220.4	219.0	222.5	221.2	223.7	223.5	223.7	223.1	225.5
34.5°	219.4	217.2	217.6	216.3	219.8	218.3	220.7	220.9	220.5	219.9	222.7
35°	216.6	214.4	215.2	213.3	216.6	215.5	218.2	218.1	217.9	217.0	219.9
35.5°	213.7	211.5	212.1	209.8	213.5	212.7	215.5	215.1	215.6	214.7	216.6
36°	210.9	208.5	209.0	207.2	211.0	210.2	212.7	211.9	212.5	211.9	213.7
36.5°	208.0	205.6	205.9	204.5	208.0	207.2	209.7	208.6	209.4	209.1	211.0
37°	205.0	203.3	202.9	202.1	204.9	204.6	206.5	206.0	206.4	206.4	208.7
37.5°	202.3	200.9	199.8	199.1	202.4	201.5	203.8	202.8	203.6	203.4	205.3
38°	199.3	198.0	196.8	195.9	198.7	198.6	201.0	199.7	200.7	200.6	202.6
38.5°	196.3	194.9	194.0	193.2	196.2	196.1	198.0	196.6	197.7	197.7	199.7
39°	193.2	191.9	191.3	190.3	193.3	193.2	195.1	194.1	194.9	194.8	196.8
39.5°	190.5	189.0	188.5	187.3	190.4	190.0	192.1	191.5	191.9	191.8	193.6
40°	187.7	185.8	185.9	184.3	187.4	186.8	189.1	188.8	189.1	188.7	190.4
40.5°	184.8	182.8	183.1	181.3	184.8	183.8	186.0	185.6	186.1	185.7	187.4
41°	181.6	179.6	179.7	178.3	181.8	180.9	183.1	182.5	183.1	182.5	184.5
41.5°	178.4	176.5	177.1	175.7	178.7	178.2	180.3	179.6	179.9	179.5	181.1
42°	175.2	173.5	173.3	172.6	175.3	175.2	177.3	176.8	176.7	176.4	177.9
42.5°	172.2	170.6	170.3	169.7	172.2	172.3	174.2	173.9	173.8	173.4	174.9
43°	169.4	167.7	167.5	166.5	169.2	169.3	170.9	170.9	170.7	170.4	171.7
43.5°	166.1	164.7	164.6	163.5	166.5	166.1	167.8	167.5	167.6	167.3	168.9



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	156.5	155.0	155.5	154.0	157.4	157.0	158.7	158.2	158.1	158.2	159.4
45.5°	153.1	151.9	152.5	151.1	154.2	154.2	155.8	155.0	154.8	155.0	156.2
46°	150.1	148.7	149.2	148.0	151.5	151.0	152.7	151.9	151.7	151.7	152.7
46.5°	146.8	145.5	145.8	144.9	148.4	147.7	149.5	148.7	148.5	148.5	149.4
47°	143.4	142.0	142.6	141.6	145.6	144.6	146.2	145.6	145.2	145.3	145.9
47.5°	139.8	138.9	139.3	138.6	142.1	141.6	143.1	142.1	142.1	141.6	142.5
48°	136.5	135.7	136.1	135.2	139.0	138.4	139.9	138.9	138.7	138.4	138.8
48.5°	132.9	132.2	132.9	131.8	135.7	135.3	136.8	135.5	135.2	135.0	135.5
49°	129.4	128.5	129.2	128.8	132.6	132.1	133.5	132.2	131.9	131.7	132.1
49.5°	125.9	125.1	125.9	125.5	129.4	129.0	129.8	128.8	128.6	128.0	128.7
50°	122.4	121.9	121.9	121.9	126.0	125.7	126.5	125.4	125.1	124.7	125.4
50.5°	119.0	118.3	118.8	118.8	122.8	122.3	123.0	121.8	121.7	121.3	122.0
51°	115.4	114.8	115.6	115.6	119.7	118.9	119.7	118.5	118.4	117.9	118.5
51.5°	111.9	111.5	112.2	112.5	116.5	115.3	116.4	115.1	114.8	114.5	115.1
52°	108.5	108.4	108.8	109.3	113.0	112.0	112.9	111.7	111.4	111.3	111.8
52.5°	105.2	105.0	105.7	106.0	109.6	108.8	109.6	108.5	108.2	108.0	108.4
53°	101.8	101.7	102.5	103.0	106.4	105.5	106.2	105.4	105.0	104.6	105.0
53.5°	98.7	98.5	99.4	99.7	102.8	102.2	103.0	102.1	101.7	101.4	101.5
54°	95.4	95.4	96.5	96.3	99.6	99.0	99.6	98.7	98.5	98.2	98.2
54.5°	92.4	92.2	93.4	93.2	96.4	95.8	96.4	95.6	95.3	94.9	94.8
55°	89.2	89.1	90.2	90.3	93.2	92.7	93.3	92.4	92.3	91.8	91.9
55.5°	86.2	85.9	87.2	87.3	90.0	89.6	90.1	89.3	89.1	88.7	88.6
56°	83.2	83.0	84.0	84.2	87.0	86.4	87.1	86.3	86.2	85.4	85.6
56.5°	80.3	79.9	81.2	81.2	83.9	83.3	83.9	83.1	82.9	82.6	82.8
57°	77.1	77.1	78.2	78.2	80.8	80.4	80.6	80.0	79.8	79.4	79.6
57.5°	74.1	74.1	74.9	75.0	77.9	77.4	77.5	77.0	76.8	76.3	76.6
58°	71.1	71.2	72.3	72.4	74.8	74.4	74.6	73.9	73.8	73.3	73.6
58.5°	68.2	68.6	69.8	69.6	71.9	71.6	71.6	70.9	70.8	70.4	70.5
59°	65.5	65.6	66.8	66.8	68.9	68.6	68.6	67.9	68.0	67.5	67.7
59.5°	62.8	63.1	63.9	64.2	66.0	65.8	66.0	65.0	65.1	64.8	64.8
60°	59.9	60.2	61.3	61.3	63.5	63.0	63.3	62.3	62.5	62.0	61.9
60.5°	57.5	57.6	58.6	58.9	61.0	60.3	60.4	59.7	59.6	59.3	58.8
61°	54.8	55.2	56.0	56.5	57.9	57.6	57.7	57.1	57.0	56.5	56.2
61.5°	52.5	52.5	53.6	54.2	55.4	55.1	55.1	54.5	54.5	54.1	53.7
62°	50.0	50.2	51.1	51.6	53.0	52.7	52.7	52.2	52.1	51.4	51.0
62.5°	47.7	47.8	48.7	49.3	50.4	50.1	50.2	49.9	49.5	49.0	48.5
63°	45.2	45.5	46.4	46.8	47.9	47.6	47.9	47.5	47.2	46.3	46.0
63.5°	42.9	43.1	44.5	44.5	45.9	45.3	45.5	45.1	44.8	44.1	43.7
64°	40.6	41.1	41.9	42.2	43.6	43.3	43.3	42.8	42.5	41.8	41.7
64.5°	38.3	38.9	39.8	40.2	41.5	41.0	41.0	40.6	40.3	39.6	39.3
65°	36.1	36.7	37.9	38.3	39.3	38.9	39.0	38.5	38.0	37.4	37.1
65.5°	33.7	34.8	35.7	36.2	37.3	36.9	36.8	36.4	35.6	35.6	34.9
66°	31.5	32.8	33.7	34.0	35.3	34.9	34.9	34.4	33.4	33.5	32.8



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	25.3	26.9	28.3	28.7	29.7	29.4	29.4	28.8	26.9	27.8	27.3
68°	23.6	25.1	26.7	27.0	28.0	27.8	27.6	27.0	25.0	25.7	25.8
68.5°	22.1	23.6	25.1	25.6	26.4	26.1	26.2	25.3	23.2	24.2	24.2
69°	20.6	22.1	23.7	24.2	24.8	24.6	24.5	23.7	21.8	22.4	22.5
69.5°	19.0	20.8	22.3	22.8	23.5	23.2	23.2	22.2	20.1	20.9	21.3
70°	17.8	19.4	21.1	21.6	22.3	22.1	21.8	20.8	18.9	19.7	20.1
70.5°	16.7	18.2	19.9	20.3	21.1	20.8	20.6	19.4	17.3	18.3	18.8
71°	15.5	16.9	18.8	19.2	19.6	19.5	19.4	18.2	16.2	17.0	17.5
71.5°	14.7	15.9	17.6	18.1	18.4	18.3	18.3	17.0	15.1	15.9	16.4
72°	13.6	14.9	16.4	16.9	17.6	17.1	17.3	16.0	14.2	14.8	15.3
72.5°	12.8	13.9	15.6	16.0	16.4	16.2	16.2	14.9	13.1	14.0	14.3
73°	12.0	13.1	14.7	15.1	15.4	15.2	15.1	13.9	12.2	12.9	13.4
73.5°	11.4	12.5	13.8	14.3	14.5	14.3	14.3	12.9	11.4	12.2	12.6
74°	10.6	11.5	13.0	13.3	13.7	13.5	13.6	12.1	10.8	11.2	11.9
74.5°	10.0	10.8	12.4	12.7	12.9	12.8	12.7	11.2	10.2	10.5	11.0
75°	9.5	10.3	11.6	11.9	12.1	12.1	11.9	10.6	9.4	10.0	10.3
75.5°	8.9	9.7	10.9	11.1	11.0	11.2	11.2	10.0	8.5	9.6	10.0
76°	8.5	9.0	10.3	10.7	10.7	10.7	10.5	9.3	8.2	8.8	9.1
76.5°	7.8	8.6	9.7	10.1	10.0	10.2	10.1	8.7	8.2	8.2	8.6
77°	7.5	8.1	9.1	9.4	9.4	9.5	9.2	8.1	7.3	8.0	8.0
77.5°	7.1	7.6	8.6	8.9	8.8	8.9	8.7	8.0	7.0	7.0	7.8
78°	6.7	7.2	8.0	8.5	8.4	8.3	8.2	7.2	6.6	7.0	7.0
78.5°	6.4	6.7	7.6	7.9	8.3	8.1	8.1	6.8	6.2	6.1	6.9
79°	5.9	6.4	7.2	7.6	8.4	7.8	7.3	6.3	6.0	6.0	6.2
79.5°	5.5	5.8	6.5	7.2	7.0	7.1	7.0	6.1	5.7	5.9	6.2
80°	5.1	5.4	6.2	6.8	7.1	6.7	6.4	5.8	5.2	5.2	5.9
80.5°	4.7	5.0	6.1	6.6	6.6	6.5	6.2	5.1	4.8	5.0	5.2
81°	4.4	4.7	5.7	6.1	6.2	6.0	5.8	4.9	4.3	4.7	4.9
81.5°	4.0	4.4	5.3	5.7	5.9	6.0	5.3	4.4	4.0	4.4	4.7
82°	3.6	3.9	5.0	5.4	5.6	5.6	5.0	4.0	3.7	4.2	4.1
82.5°	3.2	3.6	4.5	5.1	5.3	4.8	4.9	3.9	3.1	3.3	4.1
83°	2.8	3.2	4.3	4.8	4.9	4.8	4.4	3.4	2.7	2.9	4.0
83.5°	2.6	2.7	3.9	4.4	4.8	4.3	4.0	3.4	2.4	2.8	3.4
84°	2.4	2.4	3.4	4.1	3.9	4.3	3.7	3.6	2.2	2.5	3.1
84.5°	1.8	2.2	3.3	3.6	3.7	4.3	3.3	2.3	2.0	2.2	3.0
85°	1.5	1.9	2.9	3.5	3.2	3.6	3.1	2.0	1.6	2.1	2.3
85.5°	1.3	1.7	2.6	3.2	3.0	3.0	2.9	1.9	1.2	1.6	2.0
86°	1.2	1.4	2.4	2.8	2.8	2.9	2.1	1.6	0.7	1.2	2.0
86.5°	1.0	1.3	2.0	2.5	2.3	2.3	2.0	1.1	0.7	1.1	1.8
87°	0.9	1.2	1.9	2.2	2.2	2.0	1.9	1.0	0.7	1.1	1.1
87.5°	0.8	1.0	1.4	1.9	1.9	1.9	1.7	1.0	0.6	1.0	0.8
88°	0.7	0.9	1.3	1.5	1.4	1.8	1.0	0.9	0.4	0.4	0.8
88.5°	0.6	0.7	1.0	1.1	1.1	1.1	0.8	0.5	0.3	0.3	0.3



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.3	0.3	0.2	0.1	0.3	0.4	0.4	0.3	0.3	0.1	0.4
113°	0.3	0.4	0.2	0.1	0.3	0.4	0.4	0.3	0.4	0.3	0.4
113.5°	0.3	0.7	0.2	0.1	0.2	0.4	0.4	0.3	0.4	0.1	0.4
114°	0.3	0.6	0.2	0.1	0.3	0.4	0.4	0.4	0.4	0.3	0.4
114.5°	0.3	0.6	0.2	0.1	0.3	0.4	0.4	0.4	0.4	0.2	0.5
115°	0.3	0.6	0.2	0.1	0.3	0.4	0.4	0.4	0.4	0.2	0.5
115.5°	0.3	0.6	0.2	0.1	0.3	0.4	0.4	0.4	0.4	0.3	0.4
116°	0.3	0.6	0.2	0.1	0.3	0.4	0.4	0.4	0.4	0.4	0.4
116.5°	0.3	0.6	0.2	0.1	0.3	0.4	0.4	0.4	0.4	0.3	0.4
117°	0.3	0.6	0.2	0.1	0.4	0.4	0.4	0.4	0.4	0.3	0.4
117.5°	0.3	0.6	0.2	0.1	0.4	0.4	0.4	0.4	0.4	0.3	0.5
118°	0.3	0.6	0.2	0.1	0.3	0.5	0.4	0.4	0.4	0.3	0.5
118.5°	0.3	0.6	0.2	0.1	0.3	0.5	0.5	0.4	0.4	0.3	0.5
119°	0.3	0.6	0.2	0.1	0.3	0.5	0.4	0.4	0.4	0.4	0.5
119.5°	0.3	0.6	0.2	0.1	0.3	0.6	0.4	0.4	0.4	0.4	0.5
120°	0.3	0.6	0.2	0.1	0.3	0.5	0.6	0.4	0.4	0.3	0.5
120.5°	0.4	0.6	0.2	0.1	0.3	0.5	0.5	0.4	0.4	0.3	0.5
121°	0.3	0.6	0.2	0.1	0.4	0.5	0.5	0.5	0.4	0.4	0.5
121.5°	0.3	0.6	0.2	0.1	0.4	0.5	0.5	0.4	0.5	0.4	0.5
122°	0.4	0.6	0.2	0.1	0.4	0.5	0.5	0.4	0.5	0.4	0.6
122.5°	0.4	0.6	0.2	0.1	0.4	0.5	0.5	0.4	0.5	0.4	0.6
123°	0.4	0.6	0.2	0.1	0.4	0.5	0.6	0.5	0.5	0.5	0.6
123.5°	0.4	0.6	0.2	0.1	0.4	0.5	0.6	0.4	0.6	0.5	0.6
124°	0.4	0.6	0.2	0.1	0.4	0.5	0.6	0.4	0.5	0.4	0.6
124.5°	0.4	0.6	0.2	0.1	0.4	0.6	0.6	0.6	0.6	0.4	0.6
125°	0.4	0.6	0.2	0.1	0.4	0.6	0.6	0.6	0.6	0.4	0.7
125.5°	0.4	0.6	0.2	0.1	0.4	0.6	0.6	0.5	0.6	0.4	0.7
126°	0.4	0.6	0.2	0.1	0.4	0.6	0.6	0.6	0.6	0.4	0.6
126.5°	0.4	0.6	0.2	0.1	0.4	0.6	0.6	0.6	0.6	0.4	0.6
127°	0.4	0.6	0.2	0.1	0.4	0.6	0.6	0.6	0.7	0.4	0.6
127.5°	0.4	0.6	0.2	0.1	0.4	0.6	0.6	0.6	0.7	0.5	0.7
128°	0.5	0.6	0.2	0.1	0.4	0.6	0.6	0.6	0.6	0.6	0.7
128.5°	0.5	0.6	0.2	0.1	0.4	0.6	0.6	0.6	0.6	0.4	0.7
129°	0.4	0.6	0.2	0.1	0.4	0.6	0.6	0.6	0.6	0.4	0.7
129.5°	0.6	0.6	0.2	0.1	0.4	0.6	0.6	0.6	0.6	0.4	0.7
130°	0.5	0.7	0.2	0.1	0.4	0.6	0.6	0.6	0.6	0.4	0.7
130.5°	0.6	0.8	0.2	0.3	0.5	0.6	0.6	0.6	0.6	0.7	0.7
131°	0.6	0.8	0.2	0.3	0.5	0.7	0.7	0.6	0.7	0.4	0.7
131.5°	0.6	0.8	0.2	0.2	0.6	0.7	0.7	0.6	0.7	0.4	0.8
132°	0.6	0.8	0.3	0.2	0.5	0.7	0.6	0.6	0.8	0.5	0.7
132.5°	0.7	0.8	0.2	0.2	0.5	0.8	0.6	0.6	0.8	0.5	0.8
133°	0.7	0.8	0.2	0.2	0.5	0.7	0.8	0.6	0.8	0.5	0.8
133.5°	0.8	0.8	0.3	0.2	0.4	0.7	0.8	0.7	0.8	0.5	0.8



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.7	0.9	0.4	0.3	0.5	0.8	0.7	0.8	0.8	0.6	0.8
135.5°	0.7	1.0	0.4	0.3	0.6	0.8	0.8	0.7	0.8	0.6	0.8
136°	0.7	0.8	0.4	0.3	0.6	0.8	0.8	0.7	0.8	0.6	0.8
136.5°	0.7	0.9	0.4	0.3	0.6	0.8	0.8	0.7	0.8	0.6	0.9
137°	0.7	1.0	0.5	0.3	0.6	0.8	0.8	0.8	0.8	0.5	0.9
137.5°	0.7	0.9	0.5	0.3	0.5	0.8	0.8	0.8	0.8	0.5	0.8
138°	0.8	1.0	0.6	0.5	0.5	0.8	0.8	0.8	0.8	0.9	0.8
138.5°	0.8	1.0	0.6	0.6	0.5	0.8	0.8	0.8	0.8	0.8	0.8
139°	0.8	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.8
139.5°	0.8	0.8	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.9	0.8
140°	0.9	0.8	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.9	0.9
140.5°	0.9	0.8	0.6	0.7	0.7	0.8	0.8	0.8	0.8	1.0	0.9
141°	0.9	1.0	0.8	0.7	0.8	0.8	0.8	0.8	0.8	1.0	0.9
141.5°	1.0	0.8	0.8	0.7	0.8	0.8	0.8	0.9	0.8	1.0	1.0
142°	1.0	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.9
142.5°	0.9	0.9	0.8	0.9	0.6	0.8	0.8	0.8	0.9	0.9	0.9
143°	1.0	0.8	0.8	0.9	0.8	0.9	0.9	0.8	0.9	0.6	0.9
143.5°	1.0	0.8	0.8	0.8	0.6	0.9	0.9	0.8	0.9	0.7	0.9
144°	0.8	1.0	0.8	0.8	0.6	1.0	0.8	0.8	0.9	0.7	0.9
144.5°	0.8	1.0	0.8	0.8	0.7	1.0	0.8	0.9	1.0	0.8	0.9
145°	0.8	1.0	0.8	0.8	0.7	0.9	0.9	0.9	1.0	0.7	0.9
145.5°	0.9	1.1	0.9	0.9	0.6	0.9	0.9	0.9	1.0	1.0	1.0
146°	1.0	0.8	0.9	0.9	0.6	1.0	1.0	1.0	1.0	1.0	1.0
146.5°	0.9	1.0	0.9	1.0	0.6	0.9	1.0	0.9	1.0	0.9	1.0
147°	1.1	0.9	0.9	1.1	0.6	1.0	0.9	0.9	1.0	0.9	1.1
147.5°	1.1	1.0	0.9	1.1	0.6	1.0	0.9	0.9	1.0	0.9	1.0
148°	1.1	1.0	0.9	1.0	0.7	1.0	0.9	0.9	1.0	0.9	1.0
148.5°	1.1	1.1	0.9	1.0	0.7	1.0	0.9	0.9	1.0	0.9	1.1
149°	1.1	1.0	0.9	1.0	0.8	1.0	1.0	0.9	1.0	0.8	1.1
149.5°	1.0	1.3	0.9	1.0	0.8	1.0	1.0	1.0	1.1	1.0	1.1
150°	1.1	1.1	0.9	1.0	0.7	1.1	1.0	1.0	1.1	1.0	1.1
150.5°	1.0	1.2	0.9	1.0	0.7	1.0	1.0	1.0	1.1	1.1	1.1
151°	1.1	1.3	0.9	1.0	0.7	1.1	1.0	1.0	1.1	1.1	1.1
151.5°	1.5	1.3	0.9	1.0	0.8	1.1	1.0	1.0	1.1	1.3	1.2
152°	1.3	1.1	0.9	1.0	0.8	1.1	1.0	1.0	1.2	1.2	1.2
152.5°	1.1	1.1	0.9	1.0	0.9	1.1	1.0	1.0	1.1	1.2	1.1
153°	1.2	1.2	0.9	1.0	0.8	1.1	1.0	1.0	1.1	1.1	1.2
153.5°	1.2	1.2	0.9	1.0	0.8	1.1	1.0	1.0	1.1	1.1	1.3
154°	1.1	1.1	0.9	1.0	0.8	1.1	1.0	1.0	1.1	0.9	1.3
154.5°	1.1	1.2	0.9	1.0	0.9	1.1	1.0	1.0	1.1	0.8	1.2
155°	1.1	1.2	0.9	1.0	1.0	1.1	1.0	1.0	1.1	0.9	1.3
155.5°	1.2	1.2	0.9	1.0	0.9	1.2	1.2	0.9	1.3	0.9	1.3
156°	1.3	1.3	0.9	1.0	0.9	1.1	1.1	0.9	1.3	0.8	1.3



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	1.3	1.3	0.9	1.0	1.0	1.3	1.2	0.9	1.3	1.3	1.4
158°	1.3	1.4	0.9	1.0	0.9	1.3	1.2	0.9	1.3	1.4	1.4
158.5°	1.3	1.4	0.9	1.0	1.1	1.3	1.2	0.9	1.3	1.4	1.4
159°	1.3	1.4	0.9	1.0	1.1	1.3	1.2	0.9	1.3	1.4	1.4
159.5°	1.4	1.5	0.9	1.0	1.1	1.3	1.2	0.9	1.3	1.5	1.5
160°	1.3	1.3	0.9	1.0	1.1	1.3	1.2	0.7	1.3	1.0	1.4
160.5°	1.3	1.3	0.9	1.0	1.2	1.3	1.2	1.0	1.3	1.2	1.4
161°	1.4	1.4	0.9	1.0	1.1	1.3	1.2	1.4	1.3	1.1	1.4
161.5°	1.5	1.3	0.9	1.0	1.1	1.3	1.2	1.4	1.3	1.0	1.4
162°	1.5	1.4	0.9	1.0	1.1	1.3	1.2	1.4	1.3	1.6	1.4
162.5°	1.4	1.5	0.9	1.0	1.1	1.3	1.2	1.4	1.3	1.3	1.4
163°	1.4	1.5	0.9	1.0	1.1	1.3	1.3	1.4	1.3	1.1	1.4
163.5°	1.4	1.6	0.9	1.0	1.2	1.3	1.2	1.1	1.3	1.2	1.4
164°	1.5	1.5	0.9	1.0	1.1	1.3	1.3	1.1	1.3	1.4	1.4
164.5°	1.5	1.5	0.9	1.0	1.2	1.5	1.2	1.3	1.3	1.1	1.4
165°	1.3	1.4	1.0	1.0	1.2	1.0	1.2	1.4	1.3	1.5	1.4
165.5°	1.4	1.5	1.0	1.0	1.0	1.1	1.0	1.5	1.3	1.4	1.4
166°	1.4	1.5	1.0	1.0	1.0	1.1	1.2	1.2	1.2	1.3	1.4
166.5°	1.3	1.4	1.0	1.0	1.0	1.1	1.1	1.3	1.1	1.3	1.4
167°	1.4	1.7	1.0	1.0	1.3	1.1	1.1	1.0	1.1	1.4	1.4
167.5°	1.3	1.3	1.0	1.0	1.0	1.2	1.2	1.1	1.7	1.3	1.4
168°	1.5	1.5	1.0	1.0	1.4	1.2	1.1	1.1	2.1	1.6	1.4
168.5°	1.5	1.2	1.0	1.0	1.3	1.0	1.1	1.0	1.4	1.3	1.4
169°	1.4	1.2	1.0	1.0	1.3	1.2	1.2	1.4	1.3	1.5	1.4
169.5°	1.3	1.3	1.0	1.0	1.3	1.4	1.2	1.3	1.3	1.5	1.4
170°	1.5	1.4	1.0	1.0	1.3	1.3	1.2	1.3	1.4	1.3	1.4
170.5°	1.5	1.4	1.0	1.0	1.3	1.3	1.2	1.2	1.5	1.4	1.4
171°	1.5	1.5	1.0	1.0	1.3	1.3	1.2	1.3	1.3	1.4	1.4
171.5°	1.4	1.5	1.0	1.0	1.4	1.3	1.2	1.4	1.3	1.5	1.4
172°	1.4	1.6	1.0	1.0	1.2	1.1	1.3	1.4	1.3	1.5	1.4
172.5°	1.5	1.3	1.0	1.0	1.1	1.1	1.3	1.5	1.3	1.4	1.4
173°	1.4	1.7	1.0	1.0	1.2	1.1	1.3	1.5	1.3	1.4	1.4
173.5°	1.5	1.6	1.0	1.0	1.2	1.1	1.3	1.5	1.2	1.4	1.4
174°	1.3	1.6	1.0	1.0	1.3	1.1	1.2	1.5	1.3	1.4	1.4
174.5°	1.3	1.6	1.0	1.0	1.3	1.2	1.2	1.5	1.3	1.4	1.4
175°	1.2	1.6	1.0	1.0	1.3	1.3	1.2	1.5	1.3	1.3	1.4
175.5°	1.2	1.5	1.0	1.0	1.3	1.3	1.2	1.6	1.3	1.2	1.4
176°	1.1	1.5	1.0	1.0	1.3	1.3	1.4	1.5	1.3	1.5	1.4
176.5°	1.1	1.5	1.0	1.0	1.3	1.3	1.4	1.5	1.3	1.4	1.4
177°	1.1	1.4	1.0	1.0	1.3	1.3	1.4	1.6	1.3	1.1	1.4
177.5°	1.1	1.4	1.0	1.0	1.3	1.1	1.4	1.5	1.3	1.3	1.4
178°	1.3	1.4	1.0	1.0	1.3	1.2	1.4	1.5	1.3	1.4	1.4
178.5°	1.5	1.4	1.0	1.0	1.1	1.1	1.4	1.2	1.3	1.5	1.4



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	327.7	327.7	327.7	327.7	327.7	327.7
0.5°	327.8	328.0	326.9	330.3	328.9	327.4
1°	327.2	327.8	326.6	330.1	328.3	327.3
1.5°	327.1	327.8	326.9	330.4	326.7	327.1
2°	327.6	327.5	326.3	330.3	325.9	326.0
2.5°	327.0	327.0	325.9	329.5	325.8	326.4
3°	327.7	326.1	324.5	328.7	325.2	325.4
3.5°	326.3	325.6	324.9	328.9	324.9	325.6
4°	326.3	325.8	324.2	328.1	325.4	324.8
4.5°	326.4	325.7	324.2	328.0	325.3	324.8
5°	326.5	324.7	323.5	328.3	324.0	324.3
5.5°	325.0	324.3	323.5	328.0	323.2	323.4
6°	324.5	324.0	322.7	327.0	323.1	323.0
6.5°	324.3	324.5	322.2	325.7	322.4	322.9
7°	324.9	323.6	321.9	324.6	322.4	322.4
7.5°	324.4	322.3	320.4	324.5	321.3	322.2
8°	323.4	321.4	320.6	322.9	321.0	321.8
8.5°	322.2	321.2	318.5	322.4	319.0	321.4
9°	321.8	319.8	318.7	322.9	318.6	320.0
9.5°	320.3	318.7	317.5	320.9	317.3	319.1
10°	320.1	318.4	316.9	320.2	316.2	318.1
10.5°	319.1	317.7	315.8	319.7	316.0	317.1
11°	317.6	316.5	315.1	318.4	315.3	316.0
11.5°	317.2	315.7	314.3	317.6	314.3	314.8
12°	316.6	315.1	312.4	316.2	313.7	313.5
12.5°	314.1	314.0	311.4	314.1	312.2	312.4
13°	314.0	312.5	310.3	314.0	311.1	310.8
13.5°	312.5	310.4	309.3	311.7	309.9	309.4
14°	311.3	308.7	308.4	309.8	308.6	308.3
14.5°	310.5	307.3	306.7	309.0	306.7	305.4
15°	308.9	306.3	304.9	308.4	306.4	303.7
15.5°	307.2	304.9	303.9	305.5	304.8	303.7
16°	306.3	304.5	301.6	304.4	302.3	302.4
16.5°	305.2	302.7	300.1	304.5	301.1	300.7
17°	303.0	300.5	299.0	303.1	299.0	297.7
17.5°	302.2	298.4	296.4	301.3	298.3	296.0
18°	300.2	297.5	295.6	300.1	296.1	295.3
18.5°	298.9	295.5	294.5	296.7	294.1	293.6
19°	297.1	292.9	293.0	295.9	292.1	291.7
19.5°	295.0	292.2	290.7	293.1	290.6	290.6
20°	292.3	289.7	288.9	291.8	289.6	288.1
20.5°	290.5	287.4	287.2	290.4	287.6	286.3
21°	288.6	285.5	285.6	289.0	285.9	284.6



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	282.8	280.0	279.2	283.6	280.0	278.8
23°	280.8	278.6	277.8	281.3	278.3	277.1
23.5°	278.5	276.8	275.3	279.2	275.9	274.4
24°	276.0	273.7	273.1	276.8	272.9	272.0
24.5°	274.6	271.8	270.8	274.2	270.7	270.9
25°	272.4	269.4	268.8	271.6	268.6	268.5
25.5°	270.2	266.7	266.1	270.4	266.5	265.5
26°	267.5	264.9	264.2	267.7	263.8	263.1
26.5°	265.3	262.4	262.2	265.2	261.9	261.2
27°	262.3	260.2	259.1	262.5	259.7	258.0
27.5°	260.5	257.8	256.2	260.3	257.3	255.8
28°	257.7	255.2	254.3	257.3	255.0	253.5
28.5°	255.3	252.6	252.2	255.1	251.9	251.2
29°	252.5	250.3	249.7	253.0	249.9	248.6
29.5°	250.4	248.0	247.2	250.6	247.2	245.4
30°	247.4	245.3	244.5	247.6	244.6	243.1
30.5°	245.4	242.4	241.6	244.5	242.0	240.7
31°	242.4	239.2	239.1	241.9	239.3	238.5
31.5°	239.8	236.2	236.4	238.9	236.3	235.7
32°	236.9	233.6	233.8	236.3	234.2	232.8
32.5°	234.4	231.0	230.4	233.4	231.8	230.0
33°	230.6	228.8	227.6	230.9	229.0	227.4
33.5°	228.1	226.2	224.6	228.5	226.4	224.8
34°	225.6	223.2	222.5	225.6	223.2	222.0
34.5°	222.9	220.6	220.2	222.6	220.0	219.4
35°	220.4	218.0	217.4	220.2	217.3	216.6
35.5°	217.8	215.1	214.6	217.4	214.7	213.7
36°	215.2	212.5	211.9	214.5	211.8	210.9
36.5°	212.5	209.0	209.5	211.2	208.9	208.0
37°	209.9	206.4	206.1	208.0	206.1	205.0
37.5°	206.9	203.5	202.7	204.9	203.1	202.3
38°	203.7	200.5	199.7	202.2	200.2	199.3
38.5°	200.8	197.6	196.6	199.2	197.3	196.3
39°	198.0	194.4	194.1	196.2	194.3	193.2
39.5°	194.9	191.1	190.9	193.2	191.2	190.5
40°	191.9	188.5	187.6	190.0	188.1	187.7
40.5°	188.5	185.8	184.7	187.1	185.4	184.8
41°	185.2	182.8	181.7	184.0	182.9	181.6
41.5°	182.2	179.6	178.5	180.9	179.7	178.4
42°	178.9	176.3	175.5	177.7	176.5	175.2
42.5°	176.0	173.2	172.4	174.8	173.4	172.2
43°	173.0	170.2	169.7	171.5	170.1	169.4
43.5°	169.5	166.9	166.8	168.4	167.0	166.1



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	159.7	157.1	155.8	158.6	157.2	156.5
45.5°	156.5	153.6	152.2	155.1	154.0	153.1
46°	153.2	150.4	149.1	151.7	150.7	150.1
46.5°	150.0	146.8	146.2	148.0	147.2	146.8
47°	146.3	143.1	142.9	144.5	143.8	143.4
47.5°	142.9	139.4	139.3	141.1	140.3	139.8
48°	139.6	135.9	135.6	137.7	136.8	136.5
48.5°	135.7	132.4	132.1	134.1	133.1	132.9
49°	132.2	129.0	128.6	130.7	129.5	129.4
49.5°	128.6	125.4	125.0	127.2	125.8	125.9
50°	125.4	122.0	121.7	123.7	122.4	122.4
50.5°	121.9	118.7	118.5	120.0	118.8	119.0
51°	118.4	115.2	114.9	116.2	115.3	115.4
51.5°	115.0	112.0	111.4	112.7	111.8	111.9
52°	111.7	108.6	107.8	109.2	108.6	108.5
52.5°	108.5	105.2	104.5	105.8	105.3	105.2
53°	105.1	102.0	101.3	102.5	101.9	101.8
53.5°	101.7	98.7	98.2	99.3	98.7	98.7
54°	98.5	95.5	94.9	96.0	95.3	95.4
54.5°	95.2	92.3	91.8	92.8	92.2	92.4
55°	91.9	89.2	88.6	89.6	89.1	89.2
55.5°	88.5	86.0	85.6	86.8	85.9	86.2
56°	85.6	82.9	82.7	83.7	82.8	83.2
56.5°	82.4	79.8	79.5	80.7	79.7	80.3
57°	79.4	76.6	76.4	77.6	76.7	77.1
57.5°	76.4	73.7	73.5	74.6	73.8	74.1
58°	73.4	71.0	70.7	71.6	70.9	71.1
58.5°	70.5	68.0	68.1	68.9	68.3	68.2
59°	67.5	65.1	65.0	66.0	65.4	65.5
59.5°	64.7	62.3	62.4	63.3	62.6	62.8
60°	61.8	59.6	59.7	60.6	59.9	59.9
60.5°	59.1	57.0	57.0	58.0	57.3	57.5
61°	56.1	54.5	54.4	55.4	54.7	54.8
61.5°	53.8	52.0	52.0	52.8	52.3	52.5
62°	51.0	49.4	49.4	50.3	49.8	50.0
62.5°	48.5	46.8	46.9	47.9	47.4	47.7
63°	45.9	44.5	44.5	45.5	44.9	45.2
63.5°	43.6	42.1	42.1	43.2	42.7	42.9
64°	41.1	39.8	39.9	40.8	40.4	40.6
64.5°	39.1	37.7	37.7	38.6	38.2	38.3
65°	36.8	35.6	35.6	36.4	36.1	36.1
65.5°	34.8	33.4	33.4	34.3	34.1	33.7
66°	32.7	31.4	31.5	32.3	32.2	31.5



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	27.1	26.0	26.0	27.0	26.7	25.3
68°	25.3	24.4	24.5	25.2	24.9	23.6
68.5°	23.6	22.8	22.9	23.6	23.3	22.1
69°	22.1	21.6	21.7	22.2	21.9	20.6
69.5°	20.9	20.2	20.2	20.9	20.4	19.0
70°	19.8	18.9	18.9	19.5	19.1	17.8
70.5°	18.4	17.7	17.7	18.3	17.9	16.7
71°	17.0	16.6	16.7	17.2	16.7	15.5
71.5°	15.9	15.6	15.6	16.0	15.6	14.7
72°	15.0	14.6	14.7	15.0	14.7	13.6
72.5°	14.1	13.7	13.7	14.1	13.7	12.8
73°	13.4	12.8	12.9	13.3	12.8	12.0
73.5°	12.2	12.2	12.2	12.5	12.1	11.4
74°	11.4	11.5	11.5	11.7	11.3	10.6
74.5°	11.0	10.8	10.8	11.0	10.6	10.0
75°	10.2	10.2	10.1	10.5	10.0	9.5
75.5°	9.8	9.6	9.6	9.8	9.4	8.9
76°	8.9	9.1	9.1	9.3	8.8	8.5
76.5°	8.4	8.6	8.6	8.7	8.4	7.8
77°	8.1	8.2	8.2	8.4	7.8	7.5
77.5°	7.7	7.8	7.7	7.8	7.4	7.1
78°	7.0	7.3	7.4	7.4	7.0	6.7
78.5°	7.0	7.0	6.9	7.0	6.6	6.4
79°	6.2	6.6	6.6	6.6	6.2	5.9
79.5°	6.2	6.3	6.3	6.4	5.7	5.5
80°	6.2	6.1	6.0	5.9	5.2	5.1
80.5°	5.3	5.7	5.6	5.6	4.8	4.7
81°	5.0	5.4	5.3	5.4	4.6	4.4
81.5°	4.7	5.1	5.0	4.5	4.1	4.0
82°	4.3	4.7	4.7	4.6	3.9	3.6
82.5°	4.1	4.4	4.4	4.3	3.6	3.2
83°	4.0	4.0	4.1	4.0	3.2	2.8
83.5°	3.7	3.6	3.7	3.6	2.8	2.6
84°	3.0	2.9	3.3	3.4	2.6	2.4
84.5°	2.8	2.9	3.0	3.0	2.3	1.8
85°	2.7	2.6	2.8	2.7	1.9	1.5
85.5°	2.1	2.5	2.4	2.4	1.6	1.3
86°	2.0	2.0	2.2	2.2	1.5	1.2
86.5°	2.0	1.8	1.8	1.8	1.3	1.0
87°	1.1	1.5	1.5	1.5	1.2	0.9
87.5°	0.8	1.2	1.3	1.2	1.0	0.8
88°	0.6	0.9	0.9	1.0	0.9	0.7
88.5°	0.3	0.7	0.7	0.6	0.7	0.6



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

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



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.8	0.6	0.8	0.8	0.7	0.7
135.5°	0.8	0.6	0.8	0.8	0.8	0.7
136°	0.8	0.6	0.7	0.8	0.8	0.7
136.5°	0.8	0.7	0.8	0.8	0.6	0.7
137°	0.8	0.8	0.9	0.8	0.7	0.7
137.5°	0.8	0.6	0.8	0.8	0.8	0.7
138°	0.8	0.7	0.8	0.8	0.8	0.8
138.5°	0.9	0.8	0.8	0.9	0.8	0.8
139°	0.8	0.9	0.8	0.6	0.8	0.8
139.5°	0.8	0.7	0.8	0.9	0.8	0.8
140°	0.8	0.8	0.8	0.9	0.8	0.9
140.5°	0.8	0.8	0.9	1.0	0.9	0.9
141°	0.8	1.0	0.8	1.0	1.1	0.9
141.5°	0.8	0.8	0.8	1.0	0.8	1.0
142°	0.8	0.8	0.8	1.0	0.8	1.0
142.5°	0.8	0.9	0.9	0.6	0.8	0.9
143°	1.0	0.9	1.0	0.7	0.8	1.0
143.5°	0.9	0.8	1.2	0.8	0.8	1.0
144°	0.9	0.8	1.2	0.7	0.9	0.8
144.5°	0.9	0.9	1.2	0.8	1.1	0.8
145°	0.9	1.0	1.1	0.8	1.1	0.8
145.5°	0.9	0.8	1.1	1.3	1.1	0.9
146°	0.9	0.8	1.1	1.0	1.1	1.0
146.5°	0.9	0.8	1.1	1.1	1.0	0.9
147°	0.9	0.9	1.1	0.8	1.6	1.1
147.5°	1.0	1.0	1.1	1.0	1.4	1.1
148°	1.0	1.0	1.1	0.9	1.0	1.1
148.5°	1.0	1.0	1.2	1.0	0.8	1.1
149°	1.0	1.0	1.2	1.0	0.9	1.1
149.5°	1.0	1.0	0.8	1.0	0.9	1.0
150°	1.0	1.0	0.9	1.0	0.9	1.1
150.5°	1.1	1.0	0.9	1.0	0.9	1.0
151°	1.0	1.0	0.8	1.0	1.1	1.1
151.5°	1.0	1.0	0.9	1.0	1.2	1.5
152°	1.0	1.0	0.9	1.0	1.3	1.3
152.5°	1.0	1.0	1.0	1.0	1.3	1.1
153°	1.0	0.9	1.0	1.1	1.3	1.2
153.5°	1.0	0.9	1.4	1.0	1.3	1.2
154°	1.0	1.1	1.3	1.1	1.4	1.1
154.5°	1.0	1.3	1.4	1.0	1.2	1.1
155°	1.0	1.3	1.3	1.2	1.2	1.1
155.5°	1.0	1.4	1.4	1.2	1.1	1.2
156°	1.0	1.3	1.4	1.1	1.1	1.3



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: A2016275A001

CATALOG NUMBER: LTSS4069FS231EWHWR

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.5	1.5	1.5	1.5	1.5	1.5



Report Generated By E9808895 / USPTCWHP6082093





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







21.5°	282.1	281.0	282.8	281.2	283.6	282.4	286.2	284.4	284.7	284.0	285.9
22°	281.3	278.6	280.8	278.6	281.9	280.8	284.3	282.9	283.1	282.1	284.4



44°	163.0	161.5	161.7	160.3	163.7	162.9	164.6	164.4	164.5	164.1	165.4
44.5°	159.6	158.3	158.5	157.4	160.6	160.0	161.8	161.2	161.3	161.0	162.5



66.5°	29.2	30.7	31.9	32.3	33.4	32.9	33.0	32.5	31.1	31.4	31.0
67°	27.3	28.9	30.1	30.3	31.5	31.2	31.0	30.6	28.9	29.6	29.1



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



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



134°	0.8	0.8	0.3	0.3	0.4	0.7	0.7	0.7	0.8	0.4	0.8
134.5°	0.7	0.9	0.3	0.3	0.5	0.8	0.7	0.8	0.8	0.6	0.8



156.5°	1.5	1.3	0.9	1.0	0.9	1.1	1.2	0.9	1.3	1.3	1.3
157°	1.3	1.3	0.9	1.0	0.9	1.3	1.2	0.9	1.3	1.4	1.3



179°	1.5	1.4	1.0	1.0	1.2	1.2	1.4	1.2	1.5	1.3	1.4
179.5°	1.5	1.4	1.0	1.0	1.3	1.2	1.4	1.2	1.5	1.3	1.4





21.5°	286.3	284.2	283.1	286.9	284.2	282.1
22°	284.4	282.2	280.9	284.7	282.1	281.3



44°	166.4	163.8	163.2	165.0	163.8	163.0
44.5°	162.9	160.4	159.9	161.8	160.5	159.6



66.5°	30.8	29.6	29.6	30.4	30.3	29.2
67°	28.9	27.8	27.8	28.6	28.4	27.3



89°	0.3	0.4	0.5	0.4	0.4	0.5
89.5°	0.3	0.3	0.4	0.3	0.3	0.4



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



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



156.5°	1.0	1.2	0.8	1.2	1.1	1.5
157°	1.0	1.4	1.1	1.2	1.2	1.3



179°	1.0	1.3	1.0	1.0	1.5	1.5
179.5°	1.0	1.3	1.1	0.9	1.5	1.5



(END OF REPORT)