

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P565402

Luminaire Tested: **HLBQL6069FS1E-3000K-UNIT**

Issue Date: 8/31/2021

Test Information

Test Method: LM-79-08
Report Number: P565402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2109887F005)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/31/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HLBQL6069FS1E-3000K-UNIT
Description: 6in Surface Mount Downlight Fixture with Color Selectable Switch
Light Source: (72) 3000K CCT, 94 CRI LEDS
Ballast/Driver: -

Summary

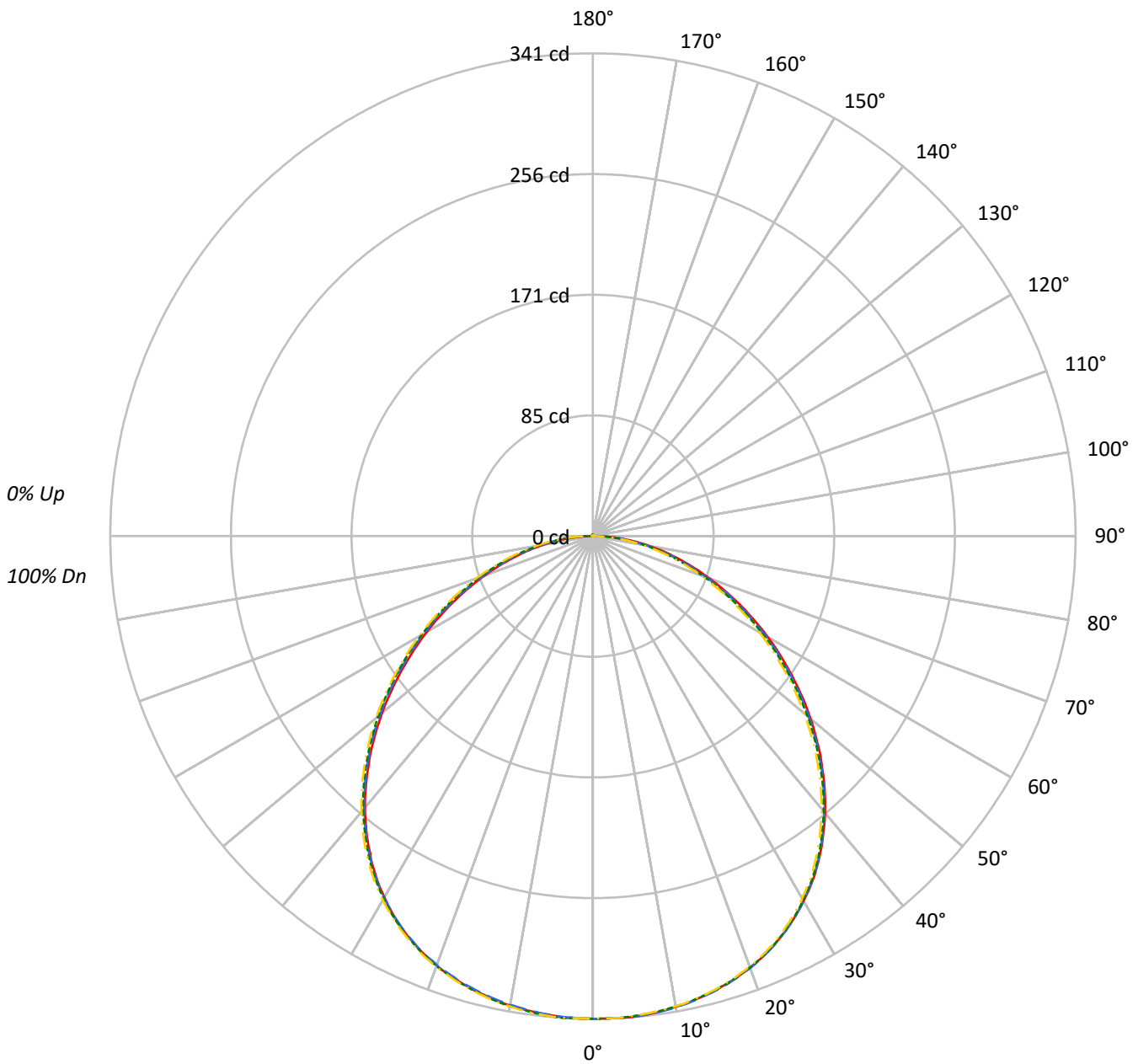
Lumens per Lamp: N/A
Luminaire Lumens: 975.1 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Circular (Dia: 0.5m x H: 0m)
CIE Type: Direct

Input Watts (W): 12
Input Voltage (V): 120
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: P565402
CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

Luminous Intensity Polar Plot



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



TEST NUMBER: P565402
 CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

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	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	78	75	72	72	72	72	69
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	40	40	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	36	36	36	34
8	61	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	32	32	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	1737	1737	1737	1737
5°	1742	1740	1738	1741
10°	1746	1745	1741	1744
15°	1753	1753	1746	1748
20°	1759	1758	1750	1752
25°	1759	1758	1748	1749
30°	1751	1747	1733	1740
35°	1731	1725	1704	1716
40°	1697	1687	1665	1679
45°	1648	1632	1608	1628
50°	1592	1568	1540	1569
55°	1525	1493	1462	1500
60°	1453	1415	1381	1424
65°	1379	1328	1295	1346
70°	1309	1242	1209	1275
75°	1246	1159	1126	1204
80°	1205	1085	1044	1153
85°	1227	1017	952	1157



TEST NUMBER: P565402
 CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	3.3
10°-20°	93.7	9.6
20°-30°	143.7	14.7
30°-40°	172.8	17.7
40°-50°	174.7	17.9
50°-60°	151.8	15.6
60°-70°	112.3	11.5
70°-80°	66.8	6.9
80°-90°	23.5	2.4
90°-100°	1.3	0.1
100°-110°	0.1	0.0
110°-120°	0.2	0.0
120°-130°	0.2	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	269.8	27.7
0°-40°	442.6	45.4
0°-60°	769.1	78.9
0°-90°	971.7	99.7
90°-120°	1.6	0.2
90°-150°	2.6	0.3
90°-180°	3.0	0.3
0°-180°	975.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	341	341	341	341	341	
5°	341	340	340	340	341	32
15°	332	332	331	332	332	94
25°	313	313	311	311	313	144
35°	278	277	274	276	278	174
45°	229	227	223	226	229	176
55°	172	168	165	169	172	154
65°	114	110	108	112	114	113
75°	63	59	57	61	63	67
85°	21	17	16	20	21	21
90°	3	0	0	2	3	2
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	1	1	0	0	1	0
145°	1	1	0	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	



TEST NUMBER: P565402
 CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0
0.5°	341.0	340.9	341.0	341.0	341.0	341.0	340.9	341.0	340.9	341.0	340.9
1°	340.9	340.9	340.9	341.0	341.0	340.9	340.9	341.0	340.9	340.9	340.9
1.5°	340.9	340.9	340.9	341.0	341.0	340.9	340.9	341.0	340.9	340.8	340.8
2°	340.9	340.9	340.9	341.0	341.0	340.9	340.9	340.9	340.8	340.7	340.6
2.5°	340.9	340.9	340.9	341.0	340.9	340.8	340.9	340.8	340.7	340.6	340.5
3°	340.9	340.9	340.9	341.0	340.9	340.8	340.9	340.7	340.7	340.6	340.5
3.5°	340.9	340.9	340.9	341.0	340.9	340.8	340.8	340.7	340.7	340.6	340.4
4°	341.0	340.9	340.9	341.0	340.6	340.6	340.6	340.4	340.4	340.3	340.1
4.5°	341.0	340.9	340.9	341.0	340.5	340.3	340.2	340.1	340.0	339.9	339.7
5°	340.7	340.8	340.9	341.1	340.3	340.1	340.1	340.0	339.9	339.7	339.5
5.5°	340.5	340.6	340.7	340.9	340.0	339.9	339.9	339.7	339.6	339.7	339.3
6°	340.3	340.5	340.5	340.7	339.8	339.7	339.7	339.6	339.4	339.2	339.1
6.5°	340.1	340.2	340.2	340.3	339.7	339.4	339.4	339.3	339.1	338.9	338.8
7°	339.8	340.0	340.0	340.2	339.3	339.1	339.2	338.9	338.8	338.8	338.4
7.5°	339.5	339.7	339.7	339.9	339.1	338.9	338.9	338.6	338.5	338.3	338.2
8°	339.2	339.4	339.4	339.6	338.8	338.6	338.6	338.4	338.2	337.8	337.8
8.5°	338.9	339.1	339.1	339.3	338.5	338.2	338.3	338.0	337.8	337.5	337.4
9°	338.5	338.8	338.8	338.9	338.2	337.9	337.9	337.6	337.5	337.2	337.0
9.5°	338.1	338.3	338.4	338.6	337.7	337.6	337.6	337.4	337.1	336.7	336.5
10°	337.7	337.9	338.0	338.1	337.4	337.1	337.2	337.0	336.7	336.4	336.3
10.5°	337.4	337.6	337.5	337.7	337.0	336.9	336.8	336.5	336.5	335.9	335.7
11°	336.9	337.1	337.1	337.3	336.7	336.4	336.6	336.2	335.8	335.4	335.3
11.5°	336.5	336.6	336.7	336.9	336.2	335.9	335.9	335.6	335.3	334.9	334.8
12°	335.9	336.1	336.2	336.4	335.6	335.4	335.4	335.1	334.8	334.5	334.2
12.5°	335.3	335.7	335.7	335.9	335.1	334.9	334.8	334.5	334.2	333.8	333.7
13°	334.8	335.1	335.1	335.3	334.6	334.4	334.3	334.0	333.6	333.3	333.0
13.5°	334.3	334.5	334.5	334.8	334.0	333.8	333.7	333.4	333.0	332.6	332.4
14°	333.7	334.0	333.9	334.2	333.5	333.2	333.2	332.9	332.4	332.1	331.9
14.5°	333.0	333.4	333.4	333.5	332.8	332.6	332.5	332.3	331.8	331.4	331.2
15°	332.4	332.7	332.8	332.9	332.4	332.0	331.9	331.5	331.2	330.9	330.5
15.5°	331.8	332.1	332.1	332.2	331.6	331.3	331.2	330.9	330.4	329.9	329.9
16°	331.0	331.4	331.4	331.5	330.9	330.7	330.4	330.2	329.7	329.4	329.2
16.5°	330.3	330.5	330.7	330.8	330.2	329.9	329.7	329.4	328.9	328.6	328.4
17°	329.6	329.8	329.9	330.0	329.5	329.2	329.0	328.6	328.2	328.0	327.7
17.5°	328.8	329.1	329.1	329.2	328.7	328.4	328.2	327.9	327.3	327.1	326.7
18°	327.9	328.2	328.3	328.4	328.0	327.5	327.3	327.0	326.6	326.3	325.9
18.5°	327.1	327.4	327.4	327.5	327.0	326.7	326.4	326.1	325.7	325.3	325.0
19°	326.2	326.5	326.5	326.6	326.1	325.8	325.5	325.2	324.8	324.6	324.2
19.5°	325.4	325.6	325.6	325.6	325.2	324.9	324.6	324.3	323.9	323.5	323.5
20°	324.6	324.7	324.8	324.8	324.4	324.0	323.8	323.3	322.8	322.8	322.4
20.5°	323.5	323.7	323.8	323.9	323.4	323.0	322.8	322.4	321.8	321.6	321.3
21°	322.5	322.7	322.7	322.7	322.5	321.9	321.6	321.2	320.8	320.5	320.3
21.5°	321.5	321.7	321.7	321.7	321.3	320.8	320.6	320.2	319.6	319.5	319.4
22°	320.4	320.6	320.7	320.6	320.3	319.8	319.4	319.0	318.5	318.3	318.2



TEST NUMBER: P565402

CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	319.2	319.4	319.5	319.4	319.1	318.6	318.3	317.8	317.4	317.1	317.0
23°	318.2	318.4	318.3	318.3	318.0	317.4	317.0	316.6	316.2	315.8	315.8
23.5°	317.0	317.2	317.1	317.1	316.7	316.3	315.8	315.4	314.9	314.6	314.5
24°	315.8	315.9	315.8	315.8	315.5	314.9	314.5	314.1	313.6	313.4	313.2
24.5°	314.4	314.6	314.6	314.4	314.2	313.5	313.1	312.7	312.3	312.0	311.9
25°	313.1	313.3	313.2	313.0	312.8	312.2	311.7	311.4	311.0	310.6	310.5
25.5°	311.7	311.9	311.9	311.7	311.5	310.9	310.3	309.9	309.5	309.2	309.2
26°	310.3	310.6	310.5	310.2	310.0	309.4	308.9	308.5	308.1	307.9	307.8
26.5°	308.8	309.1	309.0	308.8	308.6	308.0	307.3	307.2	306.6	306.4	306.3
27°	307.5	307.6	307.6	307.3	307.2	306.3	305.9	305.4	305.1	304.9	304.8
27.5°	305.9	306.1	306.0	305.7	305.5	304.8	304.2	303.7	303.4	303.4	303.3
28°	304.4	304.5	304.4	304.1	303.9	303.2	302.6	302.2	301.8	301.7	301.6
28.5°	302.8	303.0	302.8	302.7	302.2	301.5	300.8	300.2	300.0	300.0	300.0
29°	301.2	301.3	301.1	300.7	300.7	299.8	299.2	298.7	298.4	298.4	298.3
29.5°	299.6	299.7	299.4	299.0	298.9	298.1	297.5	297.0	296.5	296.5	296.6
30°	297.8	297.9	297.5	297.2	297.1	296.2	295.6	295.2	294.7	294.8	294.8
30.5°	296.0	296.2	295.8	295.4	295.3	294.5	293.8	293.3	292.9	292.9	293.1
31°	294.3	294.2	294.0	293.4	293.5	292.5	291.9	291.4	291.0	291.0	291.2
31.5°	292.5	292.4	292.1	291.6	291.6	290.7	290.1	289.6	289.2	289.2	289.6
32°	290.7	290.8	290.3	289.8	289.8	288.8	288.2	287.7	287.2	287.1	287.6
32.5°	288.8	288.8	288.5	287.9	287.9	286.9	286.2	285.7	285.2	285.0	285.7
33°	286.9	286.8	286.5	285.9	285.9	284.9	284.1	283.6	283.1	283.2	283.7
33.5°	284.8	284.7	284.4	283.8	283.8	282.6	282.0	281.5	281.1	280.8	281.5
34°	282.7	282.7	282.4	281.6	281.8	280.6	279.8	279.3	278.9	278.9	279.4
34.5°	280.7	280.5	280.2	279.4	279.6	278.5	277.7	277.2	276.8	276.8	277.3
35°	278.4	278.4	278.0	277.3	277.4	276.2	275.4	274.9	274.1	274.6	275.1
35.5°	276.3	276.2	275.7	275.1	275.2	274.0	273.1	272.7	272.0	272.4	272.9
36°	274.1	274.0	273.6	272.9	272.9	271.7	270.9	270.4	270.0	270.1	270.6
36.5°	271.9	271.7	271.3	270.8	270.5	269.4	268.5	268.0	267.6	267.8	268.4
37°	269.5	269.4	268.9	268.6	268.2	267.0	266.2	265.6	265.3	265.4	266.0
37.5°	267.2	267.0	266.6	266.4	265.9	264.7	263.7	263.2	262.8	263.1	263.6
38°	264.8	264.6	264.2	264.3	263.4	262.3	261.3	260.8	260.4	260.7	261.3
38.5°	262.4	262.2	261.8	262.1	261.2	259.8	258.8	258.3	257.9	258.1	258.8
39°	260.0	259.8	259.3	259.9	258.6	257.3	256.5	255.9	255.5	255.8	256.5
39.5°	257.6	257.5	257.0	257.8	256.3	255.1	254.0	253.3	253.0	253.2	254.0
40°	255.2	255.0	254.3	255.6	253.7	252.4	251.3	250.8	250.4	250.7	251.4
40.5°	252.7	252.4	251.8	253.4	251.0	249.8	248.7	248.1	247.9	248.0	248.8
41°	250.1	249.9	249.1	251.3	248.3	247.2	246.0	245.5	245.3	245.5	246.3
41.5°	247.6	247.3	246.6	249.1	245.9	244.5	243.4	242.9	242.6	242.8	243.5
42°	244.9	244.6	244.0	246.9	243.2	241.8	240.6	240.1	239.9	240.1	241.0
42.5°	242.3	242.0	241.3	244.8	240.5	239.1	237.9	237.4	237.2	237.4	238.4
43°	239.8	239.4	238.7	242.6	237.8	236.3	235.2	234.7	234.4	234.7	235.7
43.5°	236.9	236.7	235.9	240.4	235.1	233.6	232.4	231.9	231.6	231.9	232.9
44°	234.2	234.0	233.1	238.3	232.2	230.8	229.5	229.1	228.8	229.1	229.9
44.5°	231.5	231.2	230.5	236.1	229.5	228.0	226.8	226.3	226.0	226.3	227.5



TEST NUMBER: P565402
 CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	228.8	228.5	227.8	234.0	226.6	225.2	224.0	223.6	223.3	223.6	224.6
45.5°	226.1	225.7	224.8	231.8	223.9	222.4	221.2	220.7	220.6	220.9	222.1
46°	223.5	223.1	222.3	229.6	221.1	219.6	218.3	217.9	217.7	218.1	219.2
46.5°	220.7	220.4	219.4	227.4	218.3	216.7	215.5	215.0	214.8	215.3	216.4
47°	217.9	217.4	216.5	225.3	215.4	213.8	212.5	212.1	211.9	212.4	213.6
47.5°	214.9	214.4	213.7	223.1	212.6	210.9	209.5	209.2	209.0	209.5	210.8
48°	212.1	211.7	210.8	221.0	209.6	208.0	206.7	206.3	206.2	206.5	207.9
48.5°	209.3	209.0	208.0	218.8	206.7	205.1	203.6	203.3	203.2	203.7	205.0
49°	206.6	206.1	205.3	216.6	203.8	202.1	200.7	200.4	200.3	200.7	202.1
49.5°	203.7	203.0	202.2	214.5	200.9	199.2	197.7	197.5	197.3	197.8	199.2
50°	200.9	200.2	199.3	212.3	197.9	196.2	194.7	194.6	194.4	194.9	196.3
50.5°	197.9	197.4	196.3	210.1	194.8	193.2	191.8	191.5	191.4	191.9	193.4
51°	195.0	194.4	193.4	208.0	191.9	190.2	188.8	188.6	188.5	189.0	190.5
51.5°	192.1	191.4	190.5	205.8	189.1	187.4	185.9	185.7	185.5	186.2	187.7
52°	189.4	188.8	187.7	203.6	186.1	184.4	182.9	182.7	182.6	183.1	184.8
52.5°	186.4	185.7	184.9	201.5	183.0	181.3	179.9	179.7	179.5	180.2	181.9
53°	183.4	182.8	181.9	199.3	180.0	178.3	176.8	176.7	176.6	177.2	178.9
53.5°	180.5	179.8	178.9	197.1	177.1	175.3	173.8	173.7	173.5	174.3	176.0
54°	177.5	176.7	176.0	195.0	174.1	172.4	170.8	170.8	170.6	171.2	172.9
54.5°	174.5	173.9	173.1	192.8	171.2	169.4	167.8	167.8	167.6	168.3	170.0
55°	171.7	171.0	170.0	190.6	168.2	166.4	164.9	164.8	164.7	165.3	167.1
55.5°	168.7	168.0	167.1	188.5	165.1	163.4	161.9	161.8	161.7	162.4	164.1
56°	165.8	165.0	164.2	186.3	162.2	160.5	158.9	158.9	158.7	159.5	161.2
56.5°	162.8	162.1	161.2	184.1	159.3	157.5	156.1	156.0	155.9	156.6	158.2
57°	160.0	159.1	158.2	182.0	156.4	154.8	153.2	153.1	153.0	153.8	155.5
57.5°	157.1	156.3	155.4	179.8	153.6	151.8	150.3	150.2	150.0	150.9	152.5
58°	154.2	153.4	152.6	177.6	150.6	148.8	147.3	147.3	147.2	148.0	149.6
58.5°	151.3	150.6	149.6	175.5	147.7	145.9	144.5	144.4	144.2	145.0	146.6
59°	148.5	147.6	146.6	173.3	144.6	143.0	141.5	141.4	141.3	142.2	143.8
59.5°	145.5	144.6	143.8	171.1	141.8	140.0	138.7	138.5	138.4	139.3	140.8
60°	142.6	141.7	140.8	169.0	138.9	137.2	135.8	135.6	135.6	136.5	138.1
60.5°	139.7	138.9	137.8	166.8	136.0	134.2	133.0	132.8	132.7	133.6	135.1
61°	136.8	136.1	134.9	164.6	133.0	131.3	130.1	129.8	129.9	130.8	132.3
61.5°	134.0	133.1	132.2	162.5	130.2	128.4	127.3	127.0	127.0	127.9	129.4
62°	131.1	130.2	129.2	160.3	127.2	125.6	124.5	123.9	124.2	125.1	126.6
62.5°	128.3	127.5	126.4	158.2	124.4	122.7	121.7	121.3	121.4	122.4	123.7
63°	125.4	124.6	123.5	156.0	121.7	119.9	118.9	118.4	118.6	119.6	120.9
63.5°	122.7	122.0	120.9	153.8	118.7	117.1	116.1	115.7	115.8	116.7	118.2
64°	120.0	119.2	118.0	151.7	115.9	114.3	113.3	112.8	113.0	114.0	115.4
64.5°	117.2	116.4	115.1	149.5	113.1	111.4	110.5	110.0	110.2	111.2	112.6
65°	114.4	113.7	112.4	147.3	110.2	108.6	107.8	107.1	107.5	108.4	109.8
65.5°	111.6	111.0	109.6	145.2	107.4	105.9	105.1	104.4	104.7	105.7	107.1
66°	108.9	108.2	106.8	143.0	104.6	103.1	102.3	101.6	102.0	103.0	104.3
66.5°	106.2	105.7	104.1	140.8	101.9	100.3	99.6	98.9	99.3	100.3	101.5
67°	103.6	102.8	101.5	138.7	99.1	97.6	96.9	96.2	96.6	97.6	98.8



TEST NUMBER: P565402

CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	100.9	100.2	98.6	136.5	96.4	94.8	94.2	93.5	93.9	95.0	96.2
68°	98.2	97.5	96.1	134.3	93.6	92.3	91.6	90.8	91.4	92.3	93.5
68.5°	95.6	95.0	93.3	132.2	91.0	89.5	89.0	88.4	88.9	89.7	90.9
69°	93.0	92.4	90.7	130.0	88.6	87.1	86.4	85.8	86.4	87.3	88.4
69.5°	90.3	89.8	88.2	127.8	85.9	84.5	83.9	83.1	83.9	84.7	85.8
70°	87.9	87.3	85.7	125.7	83.4	81.8	81.2	80.6	81.2	82.1	83.2
70.5°	85.4	84.8	83.1	123.5	80.8	79.3	78.7	78.0	78.7	79.6	80.6
71°	82.8	82.3	80.5	121.3	78.3	76.7	76.2	75.6	76.2	77.1	78.2
71.5°	80.3	79.8	77.9	119.2	75.7	74.3	73.7	73.0	73.8	74.6	75.7
72°	77.8	77.3	75.4	117.0	73.3	71.8	71.2	70.5	71.3	72.2	73.2
72.5°	75.3	74.7	73.0	114.8	70.9	69.4	68.8	68.1	68.9	69.7	70.8
73°	72.8	72.1	70.5	112.7	68.3	66.9	66.4	65.8	66.5	67.3	68.3
73.5°	70.4	69.7	68.1	110.5	65.9	64.5	63.9	63.3	64.1	64.9	65.9
74°	68.0	67.3	65.7	108.3	63.6	62.3	61.6	60.9	61.8	62.6	63.6
74.5°	65.6	64.9	63.4	106.2	61.3	60.0	59.3	58.6	59.4	60.3	61.3
75°	63.3	62.6	61.0	104.0	58.9	57.6	56.9	56.5	57.2	58.1	59.0
75.5°	61.0	60.2	58.7	101.8	56.6	55.3	54.8	54.3	55.1	55.8	56.7
76°	58.6	58.0	56.4	99.7	54.4	53.1	52.5	52.0	52.7	53.6	54.7
76.5°	56.4	55.9	54.2	97.5	52.1	50.9	50.3	49.8	50.5	51.3	52.4
77°	54.2	53.5	52.0	95.3	49.9	48.7	48.1	47.6	48.3	49.2	50.2
77.5°	52.0	51.3	49.8	93.2	47.7	46.5	45.8	45.5	46.2	47.0	48.1
78°	49.7	49.0	47.6	91.0	45.6	44.3	43.7	43.4	44.0	44.8	46.0
78.5°	47.5	46.9	45.5	88.9	43.4	42.3	41.5	41.3	41.9	42.7	43.9
79°	45.4	44.7	43.4	86.7	41.2	40.1	39.4	39.2	39.7	40.6	41.7
79.5°	43.3	42.5	41.1	84.5	39.2	38.0	37.4	37.1	37.7	38.5	39.7
80°	41.1	40.3	39.0	82.4	37.0	35.9	35.2	35.1	35.6	36.4	37.7
80.5°	39.0	38.3	36.9	80.2	34.9	33.8	33.1	33.0	33.6	34.4	35.6
81°	36.8	36.2	34.9	78.0	32.9	31.7	31.1	31.1	31.5	32.4	33.7
81.5°	34.8	34.1	32.8	75.9	30.8	29.7	29.0	29.0	29.5	30.3	31.6
82°	32.7	32.0	30.8	73.7	28.8	27.7	27.0	27.0	27.5	28.3	29.6
82.5°	30.7	30.0	28.8	71.5	26.7	25.7	25.0	25.1	25.6	26.4	27.6
83°	28.6	27.9	26.8	69.4	24.8	23.8	23.1	23.2	23.6	24.5	25.7
83.5°	26.7	26.0	24.7	67.2	22.8	21.8	21.4	21.5	21.8	22.5	23.8
84°	24.7	23.9	22.9	65.0	21.1	20.1	19.4	19.5	20.0	20.8	21.8
84.5°	22.8	22.2	21.1	62.9	19.2	18.2	17.5	17.7	18.1	18.9	20.2
85°	21.0	20.2	19.0	60.7	17.4	16.4	15.7	15.9	16.3	17.1	18.3
85.5°	19.1	18.3	17.2	58.5	15.5	14.6	13.9	14.1	14.5	15.2	16.5
86°	17.2	16.4	15.3	56.4	13.7	12.7	12.0	12.3	12.7	13.5	14.7
86.5°	15.4	14.7	13.5	54.2	11.9	10.9	10.2	10.5	11.0	11.7	12.9
87°	13.6	12.8	11.7	52.0	10.0	9.0	8.4	8.8	9.2	9.9	11.1
87.5°	11.7	11.0	10.0	49.9	8.2	7.3	6.6	7.0	7.4	8.2	9.4
88°	10.0	9.2	8.2	47.7	6.4	5.4	4.9	5.3	5.7	6.6	7.7
88.5°	8.2	7.5	6.5	45.5	4.7	3.7	3.3	3.6	4.0	4.8	6.0
89°	6.4	5.7	4.7	43.4	2.9	2.1	1.6	1.8	2.4	3.1	4.4
89.5°	4.6	4.0	3.0	41.2	1.4	0.7	0.4	0.4	0.7	1.5	2.7



TEST NUMBER: P565402
 CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	3.0	2.3	1.4	39.0	0.2	0.0	0.0	0.0	0.0	0.2	1.1
90.5°	1.5	0.9	0.3	36.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.5	0.2	0.1	34.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.1	0.1	0.1	32.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.1	0.1	0.1	30.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.1	0.1	0.1	28.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0
93°	0.1	0.1	0.1	26.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
93.5°	0.1	0.1	0.1	23.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.1	0.1	21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.1	0.1	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.1	0.1	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.1	0.1	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.1	0.1	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.1	0.1	10.9	0.0	0.0	0.1	0.1	0.0	0.0	0.0
97°	0.0	0.1	0.1	8.7	0.0	0.0	0.1	0.0	0.0	0.0	0.1
97.5°	0.0	0.1	0.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1
98°	0.0	0.1	0.1	4.4	0.0	0.0	0.0	0.1	0.0	0.1	0.0
98.5°	0.0	0.1	0.1	2.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0
99°	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1
99.5°	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1
100°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1
100.5°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
101°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
101.5°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
102°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
102.5°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
103.5°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1
104°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.2	0.1
104.5°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1
105°	0.0	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.2	0.1	0.1
105.5°	0.0	0.1	0.1	0.0	0.2	0.2	0.2	0.1	0.1	0.1	0.2
106°	0.0	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.2
106.5°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
107°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
107.5°	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
108°	0.0	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.1
108.5°	0.0	0.1	0.1	0.0	0.1	0.2	0.3	0.1	0.1	0.1	0.1
109°	0.0	0.1	0.1	0.0	0.1	0.1	0.3	0.1	0.1	0.2	0.1
109.5°	0.0	0.1	0.1	0.0	0.1	0.3	0.2	0.1	0.1	0.2	0.2
110°	0.0	0.0	0.1	0.0	0.2	0.3	0.2	0.2	0.2	0.2	0.2
110.5°	0.0	0.0	0.1	0.0	0.2	0.2	0.2	0.2	0.3	0.2	0.3
111°	0.0	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.3	0.2	0.3
111.5°	0.0	0.1	0.1	0.0	0.3	0.2	0.2	0.2	0.2	0.2	0.2
112°	0.0	0.0	0.1	0.0	0.3	0.2	0.2	0.2	0.2	0.2	0.3



TEST NUMBER: P565402
 CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.0	0.0	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.3
113°	0.0	0.0	0.1	0.0	0.3	0.2	0.2	0.3	0.3	0.2	0.3
113.5°	0.0	0.0	0.1	0.0	0.3	0.3	0.2	0.3	0.3	0.3	0.3
114°	0.0	0.0	0.1	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
114.5°	0.0	0.0	0.1	0.0	0.3	0.3	0.2	0.3	0.3	0.3	0.3
115°	0.0	0.0	0.1	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
115.5°	0.0	0.0	0.1	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
116°	0.0	0.0	0.1	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
116.5°	0.0	0.0	0.1	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
117°	0.0	0.0	0.1	0.0	0.3	0.3	0.3	0.3	0.3	0.4	0.4
117.5°	0.0	0.0	0.1	0.0	0.3	0.3	0.3	0.3	0.4	0.3	0.4
118°	0.0	0.0	0.1	0.0	0.3	0.3	0.3	0.3	0.4	0.3	0.3
118.5°	0.0	0.0	0.1	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
119°	0.0	0.0	0.1	0.0	0.3	0.3	0.3	0.4	0.3	0.3	0.3
119.5°	0.0	0.0	0.1	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
120°	0.0	0.0	0.1	0.0	0.4	0.3	0.3	0.3	0.3	0.3	0.3
120.5°	0.0	0.0	0.1	0.0	0.4	0.3	0.3	0.3	0.3	0.3	0.4
121°	0.0	0.0	0.3	0.0	0.3	0.3	0.4	0.3	0.3	0.4	0.4
121.5°	0.0	0.0	0.3	0.0	0.4	0.3	0.4	0.3	0.3	0.4	0.4
122°	0.0	0.0	0.2	0.0	0.4	0.5	0.4	0.4	0.3	0.4	0.5
122.5°	0.0	0.0	0.2	0.0	0.4	0.4	0.4	0.4	0.3	0.4	0.5
123°	0.0	0.0	0.2	0.0	0.4	0.4	0.4	0.4	0.3	0.4	0.4
123.5°	0.0	0.0	0.2	0.0	0.4	0.4	0.4	0.4	0.5	0.4	0.4
124°	0.0	0.0	0.2	0.0	0.4	0.4	0.4	0.4	0.5	0.4	0.5
124.5°	0.0	0.0	0.3	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.5
125°	0.0	0.0	0.3	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.5
125.5°	0.0	0.0	0.3	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.5
126°	0.0	0.0	0.3	0.0	0.4	0.5	0.4	0.5	0.4	0.5	0.5
126.5°	0.0	0.0	0.3	0.0	0.4	0.5	0.4	0.5	0.4	0.5	0.5
127°	0.1	0.1	0.3	0.0	0.4	0.5	0.5	0.5	0.4	0.5	0.5
127.5°	0.1	0.1	0.4	0.0	0.4	0.5	0.4	0.5	0.4	0.5	0.5
128°	0.1	0.2	0.4	0.0	0.4	0.5	0.4	0.5	0.4	0.5	0.5
128.5°	0.1	0.3	0.3	0.0	0.4	0.5	0.5	0.5	0.4	0.5	0.5
129°	0.1	0.3	0.3	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
129.5°	0.1	0.3	0.3	0.0	0.5	0.5	0.5	0.5	0.4	0.5	0.5
130°	0.1	0.3	0.3	0.0	0.5	0.5	0.6	0.5	0.4	0.5	0.6
130.5°	0.1	0.4	0.4	0.0	0.5	0.5	0.6	0.6	0.5	0.5	0.5
131°	0.2	0.4	0.3	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
131.5°	0.2	0.4	0.5	0.0	0.5	0.6	0.5	0.5	0.5	0.5	0.5
132°	0.2	0.5	0.5	0.0	0.5	0.6	0.5	0.5	0.5	0.5	0.5
132.5°	0.2	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
133°	0.3	0.5	0.5	0.0	0.5	0.7	0.6	0.5	0.5	0.5	0.5
133.5°	0.3	0.5	0.5	0.0	0.6	0.7	0.6	0.5	0.5	0.5	0.5
134°	0.3	0.5	0.5	0.0	0.6	0.6	0.6	0.5	0.5	0.5	0.5
134.5°	0.4	0.5	0.6	0.0	0.7	0.6	0.7	0.5	0.5	0.5	0.5



TEST NUMBER: P565402

CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.8	0.6	0.6	0.0	0.7	0.6	0.7	0.6	0.5	0.5	0.6
135.5°	0.8	0.6	0.5	0.0	0.6	0.6	0.6	0.6	0.5	0.5	0.6
136°	0.8	0.8	0.5	0.0	0.6	0.6	0.6	0.6	0.5	0.6	0.6
136.5°	0.8	0.8	0.6	0.0	0.6	0.6	0.6	0.7	0.5	0.6	0.6
137°	0.8	0.7	0.9	0.0	0.6	0.6	0.6	0.7	0.5	0.6	0.7
137.5°	0.8	0.7	0.9	0.0	0.6	0.6	0.6	0.6	0.5	0.6	0.6
138°	0.8	0.7	0.9	0.0	0.6	0.6	0.6	0.6	0.5	0.6	0.6
138.5°	0.8	0.8	0.9	0.0	0.6	0.6	0.6	0.6	0.5	0.6	0.6
139°	0.8	0.8	0.9	0.0	0.6	0.6	0.6	0.6	0.5	0.6	0.7
139.5°	0.8	0.8	0.9	0.0	0.6	0.6	0.6	0.6	0.5	0.6	0.7
140°	0.8	0.8	0.9	0.0	0.7	0.6	0.6	0.6	0.5	0.6	0.7
140.5°	0.8	0.8	0.9	0.0	0.7	0.6	0.7	0.6	0.5	0.6	0.7
141°	0.8	0.8	0.9	0.0	0.7	0.6	0.7	0.6	0.5	0.6	0.7
141.5°	0.8	0.9	0.9	0.0	0.7	0.6	0.7	0.6	0.5	0.6	0.7
142°	0.8	0.9	0.9	0.0	0.7	0.6	0.7	0.6	0.5	0.7	0.7
142.5°	0.8	0.9	0.9	0.0	0.7	0.7	0.7	0.7	0.5	0.6	0.7
143°	0.8	0.9	0.9	0.0	0.7	0.7	0.7	0.7	0.5	0.6	0.7
143.5°	0.8	0.9	0.9	0.0	0.7	0.7	0.7	0.7	0.5	0.7	0.7
144°	0.8	0.9	0.9	0.0	0.7	0.7	0.7	0.7	0.5	0.7	0.8
144.5°	0.8	0.9	0.9	0.0	0.7	0.7	0.7	0.7	0.5	0.7	0.8
145°	0.8	0.9	0.9	0.0	0.7	0.7	0.7	0.7	0.5	0.7	0.7
145.5°	0.8	0.9	0.9	0.0	0.7	0.7	0.7	0.7	0.5	0.7	0.7
146°	0.8	0.9	0.9	0.0	0.8	0.7	0.7	0.7	0.5	0.7	0.7
146.5°	0.8	0.9	0.9	0.0	0.8	0.7	0.7	0.7	0.5	0.7	0.7
147°	0.8	0.9	0.9	0.0	0.7	0.7	0.7	0.7	0.6	0.7	0.9
147.5°	0.8	0.9	0.9	0.0	0.7	0.7	0.7	0.7	0.5	0.7	0.9
148°	0.8	0.9	0.9	0.0	0.7	0.7	0.7	0.7	0.5	0.8	0.8
148.5°	0.8	0.9	0.9	0.0	0.7	0.9	0.7	0.8	0.7	0.8	0.9
149°	0.8	0.9	0.9	0.0	0.7	0.9	0.7	0.8	0.7	0.8	0.9
149.5°	0.8	0.9	0.9	0.0	0.7	0.8	0.7	0.8	0.7	0.8	0.9
150°	0.8	0.9	0.9	0.0	0.7	0.8	0.7	0.8	0.7	0.8	0.9
150.5°	0.8	0.9	0.9	0.0	0.7	0.9	0.7	0.9	0.7	0.8	0.9
151°	0.8	0.9	0.9	0.0	0.7	0.8	0.7	0.8	0.7	0.8	0.9
151.5°	0.8	0.9	0.9	0.0	0.7	0.8	0.7	0.8	0.7	0.8	0.9
152°	0.8	0.9	0.9	0.0	0.7	0.9	0.7	0.8	0.8	0.8	0.9
152.5°	0.8	0.9	0.9	0.0	0.7	0.9	0.7	0.8	0.9	0.8	0.9
153°	0.8	0.9	0.9	0.0	0.7	0.9	0.7	0.8	0.8	0.8	0.9
153.5°	0.8	0.9	0.9	0.0	0.7	0.9	0.7	0.8	0.8	0.8	0.9
154°	0.8	0.9	0.9	0.0	0.7	0.9	0.7	0.8	0.9	0.8	0.9
154.5°	0.8	0.9	0.9	0.0	0.7	0.9	0.7	0.8	0.9	0.8	0.9
155°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
155.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
156°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
156.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
157°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9



TEST NUMBER: P565402
 CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
158°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
158.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
159°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
159.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
160°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
160.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
161°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
161.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
162°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
162.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
163°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
163.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
164°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
164.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
165°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
165.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
166°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
166.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
167°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
167.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
168°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
168.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
169°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
169.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
170°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
170.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
171°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
171.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
172°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
172.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
173°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
173.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
174°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
174.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
175°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
175.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
176°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
176.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
177°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
177.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
178°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
178.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
179°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9
179.5°	0.8	0.9	0.9	0.0	0.7	1.0	0.7	0.8	0.9	0.8	0.9



TEST NUMBER: P565402
CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P565402

CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	341.0	341.0	341.0	341.0	341.0	341.0
0.5°	341.0	341.0	340.9	341.0	341.1	341.0
1°	341.0	341.0	340.9	340.9	341.1	340.9
1.5°	340.8	341.0	340.9	340.9	341.1	340.9
2°	340.7	341.0	340.9	340.9	341.1	340.9
2.5°	340.7	341.0	340.9	340.9	341.1	340.9
3°	340.7	341.0	340.9	340.9	341.1	340.9
3.5°	340.6	341.1	340.9	341.0	341.1	340.9
4°	340.4	340.9	340.9	341.0	341.1	341.0
4.5°	340.0	340.7	340.6	340.8	340.9	341.0
5°	339.8	340.5	340.4	340.6	340.8	340.7
5.5°	339.5	340.3	340.1	340.4	340.5	340.5
6°	339.3	340.0	339.9	340.1	340.3	340.3
6.5°	338.9	339.7	339.6	339.8	340.0	340.1
7°	338.6	339.4	339.3	339.6	339.7	339.8
7.5°	338.3	339.1	339.0	339.3	339.4	339.5
8°	338.1	338.7	338.6	339.0	339.1	339.2
8.5°	337.7	338.4	338.3	338.6	338.8	338.9
9°	337.2	338.0	337.8	338.3	338.4	338.5
9.5°	336.8	337.6	337.4	337.8	338.0	338.1
10°	336.5	337.2	337.1	337.4	337.6	337.7
10.5°	336.0	336.7	336.6	337.0	337.2	337.4
11°	335.5	336.3	336.2	336.5	336.8	336.9
11.5°	334.9	335.8	335.7	336.1	336.2	336.5
12°	334.4	335.2	335.1	335.6	335.8	335.9
12.5°	333.9	334.7	334.6	335.0	335.2	335.3
13°	333.2	334.1	334.1	334.4	334.6	334.8
13.5°	332.6	333.5	333.4	333.8	334.1	334.3
14°	332.0	332.9	332.8	333.2	333.5	333.7
14.5°	331.4	332.3	332.2	332.5	332.8	333.0
15°	330.7	331.6	331.6	331.8	332.2	332.4
15.5°	330.0	330.8	330.9	331.1	331.5	331.8
16°	329.3	330.0	330.1	330.4	330.9	331.0
16.5°	328.5	329.3	329.3	329.7	330.1	330.3
17°	327.8	328.6	328.6	328.9	329.3	329.6
17.5°	327.0	327.7	327.8	328.1	328.6	328.8
18°	326.2	326.8	326.9	327.2	327.7	327.9
18.5°	325.3	326.0	326.1	326.4	326.9	327.1
19°	324.4	325.1	325.1	325.5	325.9	326.2
19.5°	323.8	324.2	324.2	324.7	325.1	325.4
20°	322.6	323.2	323.3	323.8	324.2	324.6
20.5°	321.6	322.2	322.3	322.8	323.3	323.5
21°	320.6	321.1	321.1	321.7	322.2	322.5
21.5°	319.5	320.0	320.1	320.8	321.1	321.5
22°	318.5	319.0	319.1	319.7	320.0	320.4



TEST NUMBER: P565402
 CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	317.3	317.8	317.9	318.5	318.9	319.2
23°	316.1	316.6	316.7	317.3	317.7	318.2
23.5°	314.9	315.3	315.4	316.1	316.5	317.0
24°	313.6	314.0	314.2	314.8	315.3	315.8
24.5°	312.3	312.7	312.9	313.5	314.0	314.4
25°	311.0	311.3	311.6	312.2	312.7	313.1
25.5°	309.7	310.1	310.2	310.8	311.3	311.7
26°	308.3	308.7	308.8	309.5	309.9	310.3
26.5°	306.9	307.1	307.4	308.1	308.6	308.8
27°	305.3	305.7	305.9	306.7	307.1	307.5
27.5°	303.7	304.1	304.4	305.0	305.5	305.9
28°	302.2	302.5	302.8	303.5	304.1	304.4
28.5°	300.6	300.9	301.2	301.9	302.5	302.8
29°	298.9	299.2	299.5	300.3	300.8	301.2
29.5°	297.3	297.5	297.8	298.6	299.2	299.6
30°	295.5	295.8	296.2	296.9	297.5	297.8
30.5°	293.8	293.9	294.4	295.1	295.7	296.0
31°	291.9	292.1	292.5	293.3	294.0	294.3
31.5°	290.3	290.4	290.9	291.6	292.1	292.5
32°	288.3	288.4	288.9	289.8	290.4	290.7
32.5°	286.3	286.5	287.1	287.9	288.5	288.8
33°	284.4	284.5	285.1	285.8	286.6	286.9
33.5°	282.5	282.5	283.0	283.8	284.5	284.8
34°	280.3	280.4	280.9	281.8	282.5	282.7
34.5°	278.2	278.2	278.8	279.6	280.4	280.7
35°	275.7	276.0	276.6	277.5	278.2	278.4
35.5°	273.7	273.8	274.5	275.3	276.1	276.3
36°	271.6	271.5	272.2	273.2	273.9	274.1
36.5°	268.8	269.2	270.0	270.9	271.5	271.9
37°	267.0	266.9	267.6	268.7	269.3	269.5
37.5°	264.6	264.5	265.4	266.3	267.1	267.2
38°	262.2	262.2	262.9	263.9	264.7	264.8
38.5°	259.9	259.8	260.5	261.5	262.3	262.4
39°	257.4	257.5	258.1	259.2	259.9	260.0
39.5°	255.2	255.0	255.9	256.8	257.6	257.6
40°	252.7	252.6	253.4	254.3	255.1	255.2
40.5°	250.1	249.9	250.8	251.8	252.6	252.7
41°	247.5	247.3	248.3	249.3	250.1	250.1
41.5°	244.9	244.9	245.8	246.6	247.4	247.6
42°	242.3	242.1	243.2	244.2	244.8	244.9
42.5°	239.7	239.6	240.7	241.5	242.2	242.3
43°	237.0	236.9	237.8	238.8	239.6	239.8
43.5°	234.4	234.1	235.3	236.3	237.0	236.9
44°	231.6	231.4	232.5	233.5	234.3	234.2
44.5°	228.8	228.8	229.8	230.8	231.6	231.5



TEST NUMBER: P565402
 CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	226.1	226.0	227.1	228.1	228.9	228.8
45.5°	223.4	223.4	224.3	225.3	226.2	226.1
46°	220.8	220.6	221.7	222.7	223.6	223.5
46.5°	218.0	217.8	218.9	219.9	220.7	220.7
47°	215.1	215.1	216.1	217.1	217.8	217.9
47.5°	212.3	212.2	213.4	214.3	215.1	214.9
48°	209.4	209.3	210.5	211.4	212.2	212.1
48.5°	206.5	206.7	207.7	208.8	209.4	209.3
49°	203.7	203.7	204.9	205.8	206.7	206.6
49.5°	200.8	201.0	202.1	203.0	203.8	203.7
50°	197.8	198.0	199.1	200.1	201.0	200.9
50.5°	194.9	195.1	196.3	197.2	198.0	197.9
51°	192.0	192.2	193.5	194.4	195.1	195.0
51.5°	189.2	189.5	190.5	191.3	192.2	192.1
52°	186.2	186.4	187.7	188.5	189.6	189.4
52.5°	183.2	183.6	184.9	185.5	186.6	186.4
53°	180.2	180.5	181.9	182.7	183.7	183.4
53.5°	177.2	177.7	178.9	179.7	180.8	180.5
54°	174.3	174.7	176.1	176.6	177.7	177.5
54.5°	171.3	171.8	173.3	173.8	174.9	174.5
55°	168.4	168.9	170.3	170.8	172.0	171.7
55.5°	165.4	165.9	167.3	167.9	169.1	168.7
56°	162.5	163.0	164.5	165.0	166.2	165.8
56.5°	159.6	160.1	161.4	162.1	163.2	162.8
57°	156.6	157.2	158.6	159.1	160.4	160.0
57.5°	153.8	154.4	155.8	156.3	157.4	157.1
58°	150.9	151.6	153.0	153.4	154.7	154.2
58.5°	148.0	148.7	150.0	150.6	151.7	151.3
59°	145.1	145.6	147.1	147.6	148.7	148.5
59.5°	142.3	142.7	144.3	144.9	145.8	145.5
60°	139.5	139.8	141.3	141.9	143.0	142.6
60.5°	136.6	136.9	138.4	139.1	140.0	139.7
61°	133.8	134.2	135.5	136.1	137.2	136.8
61.5°	131.0	131.2	132.5	133.5	134.2	134.0
62°	128.2	128.3	129.7	130.6	131.4	131.1
62.5°	125.4	125.5	127.0	127.8	128.5	128.3
63°	122.6	122.9	124.1	125.0	125.6	125.4
63.5°	120.0	120.0	121.5	122.4	123.0	122.7
64°	117.3	117.4	118.7	119.8	120.1	120.0
64.5°	114.5	114.5	115.9	116.9	117.5	117.2
65°	111.8	111.7	113.2	114.2	114.5	114.4
65.5°	109.0	108.9	110.5	111.6	111.8	111.6
66°	106.4	106.3	107.5	109.0	109.1	108.9
66.5°	103.7	103.6	104.9	106.4	106.4	106.2
67°	101.0	101.0	102.3	103.6	103.6	103.6



TEST NUMBER: P565402

CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	98.3	98.3	99.6	100.9	101.0	100.9
68°	95.7	95.7	97.0	98.3	98.3	98.2
68.5°	93.1	93.1	94.4	95.7	95.6	95.6
69°	90.5	90.6	91.7	93.0	93.0	93.0
69.5°	88.1	88.1	89.4	90.5	90.3	90.3
70°	85.4	85.6	86.8	88.1	88.0	87.9
70.5°	82.9	83.0	84.3	85.5	85.4	85.4
71°	80.4	80.5	81.7	82.9	82.8	82.8
71.5°	77.8	78.0	79.1	80.5	80.3	80.3
72°	75.3	75.5	76.6	78.0	77.8	77.8
72.5°	72.9	73.1	74.3	75.5	75.4	75.3
73°	70.4	70.7	71.8	73.0	72.9	72.8
73.5°	68.0	68.4	69.3	70.6	70.4	70.4
74°	65.6	65.9	67.0	68.3	68.0	68.0
74.5°	63.3	63.5	64.6	65.8	65.6	65.6
75°	60.9	61.2	62.3	63.4	63.4	63.3
75.5°	58.7	58.9	60.0	61.0	60.9	61.0
76°	56.4	56.7	57.7	58.7	58.7	58.6
76.5°	54.2	54.6	55.6	56.4	56.5	56.4
77°	52.0	52.3	53.3	54.3	54.3	54.2
77.5°	49.8	50.1	51.4	52.0	52.1	52.0
78°	47.6	47.9	48.9	49.8	49.9	49.7
78.5°	45.4	45.8	46.8	47.6	47.7	47.5
79°	43.3	43.6	44.7	45.4	45.6	45.4
79.5°	41.2	41.5	42.6	43.2	43.5	43.3
80°	39.1	39.3	40.4	41.2	41.3	41.1
80.5°	37.1	37.3	38.5	39.1	39.3	39.0
81°	35.0	35.3	36.4	37.1	37.2	36.8
81.5°	33.0	33.2	34.3	35.0	35.1	34.8
82°	31.0	31.2	32.3	33.0	33.1	32.7
82.5°	29.0	29.3	30.3	31.0	31.1	30.7
83°	27.0	27.2	28.3	29.0	29.1	28.6
83.5°	25.1	25.3	26.4	27.0	27.1	26.7
84°	23.2	23.3	24.5	25.0	25.3	24.7
84.5°	21.5	21.7	22.7	23.1	23.3	22.8
85°	19.6	19.8	20.9	21.3	21.5	21.0
85.5°	17.8	18.1	18.9	19.4	19.6	19.1
86°	16.0	16.1	17.1	17.6	17.7	17.2
86.5°	14.2	14.3	15.3	15.8	15.8	15.4
87°	12.4	12.6	13.5	14.0	14.0	13.6
87.5°	10.7	10.8	11.8	12.2	12.3	11.7
88°	9.0	9.1	10.0	10.4	10.5	10.0
88.5°	7.2	7.4	8.3	8.6	8.7	8.2
89°	5.6	5.7	6.5	6.9	6.9	6.4
89.5°	3.9	4.0	4.8	5.2	5.3	4.6



TEST NUMBER: P565402
 CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	2.2	2.4	3.0	3.5	3.5	3.0
90.5°	0.8	1.1	1.6	1.9	1.9	1.5
91°	0.0	0.4	0.6	0.7	0.7	0.5
91.5°	0.0	0.2	0.3	0.3	0.3	0.1
92°	0.0	0.1	0.1	0.2	0.2	0.1
92.5°	0.0	0.1	0.1	0.1	0.1	0.1
93°	0.0	0.1	0.1	0.1	0.1	0.1
93.5°	0.0	0.1	0.1	0.1	0.1	0.1
94°	0.0	0.1	0.1	0.1	0.1	0.0
94.5°	0.1	0.1	0.1	0.0	0.1	0.0
95°	0.0	0.1	0.1	0.0	0.1	0.0
95.5°	0.0	0.1	0.1	0.0	0.1	0.0
96°	0.0	0.1	0.0	0.0	0.1	0.0
96.5°	0.0	0.1	0.0	0.0	0.1	0.0
97°	0.0	0.1	0.0	0.0	0.1	0.0
97.5°	0.0	0.1	0.0	0.0	0.1	0.0
98°	0.0	0.1	0.0	0.0	0.1	0.0
98.5°	0.0	0.1	0.0	0.0	0.1	0.0
99°	0.0	0.1	0.0	0.0	0.1	0.0
99.5°	0.0	0.1	0.0	0.0	0.1	0.0
100°	0.0	0.1	0.0	0.0	0.1	0.0
100.5°	0.0	0.1	0.0	0.0	0.1	0.0
101°	0.0	0.1	0.0	0.0	0.1	0.0
101.5°	0.0	0.1	0.0	0.0	0.1	0.0
102°	0.0	0.1	0.0	0.0	0.1	0.0
102.5°	0.1	0.1	0.0	0.0	0.1	0.0
103°	0.1	0.1	0.0	0.0	0.1	0.0
103.5°	0.1	0.1	0.0	0.0	0.1	0.0
104°	0.1	0.1	0.0	0.0	0.1	0.0
104.5°	0.1	0.1	0.0	0.0	0.1	0.0
105°	0.1	0.1	0.0	0.0	0.1	0.0
105.5°	0.1	0.1	0.0	0.0	0.1	0.0
106°	0.2	0.1	0.0	0.0	0.1	0.0
106.5°	0.1	0.1	0.0	0.0	0.1	0.0
107°	0.1	0.1	0.0	0.0	0.1	0.0
107.5°	0.1	0.1	0.0	0.0	0.1	0.0
108°	0.2	0.1	0.0	0.0	0.1	0.0
108.5°	0.2	0.1	0.0	0.0	0.1	0.0
109°	0.1	0.1	0.0	0.0	0.1	0.0
109.5°	0.3	0.1	0.0	0.0	0.1	0.0
110°	0.3	0.1	0.0	0.0	0.1	0.0
110.5°	0.2	0.1	0.0	0.0	0.1	0.0
111°	0.2	0.1	0.0	0.0	0.1	0.0
111.5°	0.2	0.1	0.0	0.0	0.1	0.0
112°	0.2	0.1	0.0	0.0	0.1	0.0



TEST NUMBER: P565402
 CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.3	0.1	0.0	0.0	0.1	0.0
113°	0.3	0.1	0.0	0.0	0.1	0.0
113.5°	0.3	0.1	0.0	0.0	0.1	0.0
114°	0.3	0.1	0.0	0.0	0.1	0.0
114.5°	0.3	0.1	0.0	0.0	0.1	0.0
115°	0.3	0.1	0.0	0.0	0.1	0.0
115.5°	0.3	0.2	0.0	0.0	0.1	0.0
116°	0.3	0.2	0.0	0.0	0.1	0.0
116.5°	0.3	0.1	0.0	0.0	0.1	0.0
117°	0.3	0.1	0.0	0.0	0.1	0.0
117.5°	0.3	0.1	0.0	0.0	0.1	0.0
118°	0.3	0.1	0.0	0.0	0.1	0.0
118.5°	0.3	0.1	0.0	0.0	0.1	0.0
119°	0.3	0.1	0.0	0.0	0.1	0.0
119.5°	0.3	0.1	0.0	0.0	0.1	0.0
120°	0.3	0.1	0.0	0.0	0.1	0.0
120.5°	0.3	0.1	0.0	0.0	0.1	0.0
121°	0.3	0.1	0.0	0.0	0.1	0.0
121.5°	0.4	0.1	0.1	0.0	0.1	0.0
122°	0.4	0.1	0.0	0.0	0.1	0.0
122.5°	0.4	0.1	0.0	0.0	0.1	0.0
123°	0.4	0.1	0.1	0.0	0.1	0.0
123.5°	0.4	0.1	0.1	0.0	0.1	0.0
124°	0.4	0.1	0.1	0.0	0.1	0.0
124.5°	0.4	0.1	0.1	0.0	0.1	0.0
125°	0.4	0.1	0.1	0.0	0.1	0.0
125.5°	0.5	0.1	0.1	0.0	0.1	0.0
126°	0.5	0.1	0.1	0.0	0.1	0.0
126.5°	0.5	0.1	0.1	0.0	0.1	0.0
127°	0.5	0.2	0.1	0.0	0.1	0.1
127.5°	0.5	0.1	0.1	0.0	0.1	0.1
128°	0.5	0.1	0.1	0.0	0.1	0.1
128.5°	0.5	0.2	0.1	0.0	0.1	0.1
129°	0.5	0.3	0.1	0.0	0.1	0.1
129.5°	0.5	0.3	0.1	0.1	0.1	0.1
130°	0.5	0.3	0.1	0.1	0.1	0.1
130.5°	0.5	0.3	0.2	0.1	0.1	0.1
131°	0.5	0.3	0.3	0.1	0.1	0.2
131.5°	0.5	0.3	0.3	0.1	0.1	0.2
132°	0.5	0.3	0.3	0.1	0.2	0.2
132.5°	0.5	0.3	0.3	0.1	0.1	0.2
133°	0.5	0.3	0.3	0.2	0.3	0.3
133.5°	0.5	0.3	0.4	0.2	0.4	0.3
134°	0.6	0.5	0.4	0.3	0.3	0.3
134.5°	0.6	0.5	0.4	0.4	0.3	0.4



TEST NUMBER: P565402
 CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.6	0.5	0.4	0.5	0.5	0.8
135.5°	0.7	0.5	0.4	0.5	0.5	0.8
136°	0.6	0.5	0.5	0.5	1.0	0.8
136.5°	0.6	0.5	0.5	0.5	1.0	0.8
137°	0.6	0.5	0.6	0.5	0.9	0.8
137.5°	0.6	0.5	0.7	0.5	0.9	0.8
138°	0.6	0.5	0.6	0.5	0.9	0.8
138.5°	0.6	0.5	0.6	0.7	0.9	0.8
139°	0.7	0.5	0.6	0.7	0.9	0.8
139.5°	0.7	0.5	0.6	0.7	0.9	0.8
140°	0.7	0.5	0.6	0.7	0.9	0.8
140.5°	0.7	0.6	0.7	0.7	0.9	0.8
141°	0.7	0.6	0.7	0.7	0.9	0.8
141.5°	0.7	0.6	0.7	0.7	0.9	0.8
142°	0.7	0.6	0.7	0.8	0.9	0.8
142.5°	0.7	0.7	0.7	0.7	0.9	0.8
143°	0.7	0.7	0.7	0.7	0.9	0.8
143.5°	0.7	0.7	0.7	0.8	0.9	0.8
144°	0.8	0.8	0.7	0.9	0.9	0.8
144.5°	0.8	1.1	0.7	0.8	0.9	0.8
145°	0.7	1.1	0.7	0.8	0.9	0.8
145.5°	0.8	1.1	0.7	0.8	0.9	0.8
146°	0.8	1.0	0.7	0.8	0.9	0.8
146.5°	0.8	1.0	0.7	0.8	0.9	0.8
147°	0.8	1.0	0.7	0.8	0.9	0.8
147.5°	0.8	1.0	0.7	0.8	0.9	0.8
148°	0.8	1.0	0.7	0.8	0.9	0.8
148.5°	0.8	1.0	0.7	0.8	0.9	0.8
149°	0.9	1.0	0.7	0.8	0.9	0.8
149.5°	0.9	1.0	0.7	0.8	0.9	0.8
150°	0.9	1.0	0.7	0.8	0.9	0.8
150.5°	0.9	1.0	0.7	0.8	0.9	0.8
151°	0.9	1.0	0.7	0.8	0.9	0.8
151.5°	0.9	1.0	0.7	0.8	0.9	0.8
152°	0.9	1.0	0.7	0.8	0.9	0.8
152.5°	0.9	1.0	0.7	0.8	0.9	0.8
153°	0.9	1.0	0.7	0.8	0.9	0.8
153.5°	0.9	1.0	0.7	0.8	0.9	0.8
154°	0.9	1.0	0.7	0.8	0.9	0.8
154.5°	0.9	1.0	0.7	0.8	0.9	0.8
155°	0.9	1.0	0.7	0.8	0.9	0.8
155.5°	0.9	1.0	0.7	0.8	0.9	0.8
156°	0.9	1.0	0.7	0.8	0.9	0.8
156.5°	0.9	1.0	0.7	0.8	0.9	0.8
157°	0.9	1.0	0.7	0.8	0.9	0.8



TEST NUMBER: P565402
 CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.9	1.0	0.7	0.8	0.9	0.8
158°	0.9	1.0	0.7	0.8	0.9	0.8
158.5°	0.9	1.0	0.7	0.8	0.9	0.8
159°	0.9	1.0	0.7	0.8	0.9	0.8
159.5°	0.9	1.0	0.7	0.8	0.9	0.8
160°	0.9	1.0	0.7	0.8	0.9	0.8
160.5°	0.9	1.0	0.7	0.8	0.9	0.8
161°	0.9	1.0	0.7	0.8	0.9	0.8
161.5°	0.9	1.0	0.7	0.8	0.9	0.8
162°	0.9	1.0	0.7	0.8	0.9	0.8
162.5°	0.9	1.0	0.7	0.8	0.9	0.8
163°	0.9	1.0	0.7	0.8	0.9	0.8
163.5°	0.9	1.0	0.7	0.8	0.9	0.8
164°	0.9	1.0	0.7	0.8	0.9	0.8
164.5°	0.9	1.0	0.7	0.8	0.9	0.8
165°	0.9	1.0	0.7	0.8	0.9	0.8
165.5°	0.9	1.0	0.7	0.8	0.9	0.8
166°	0.9	1.0	0.7	0.8	0.9	0.8
166.5°	0.9	1.0	0.7	0.8	0.9	0.8
167°	0.9	1.0	0.7	0.8	0.9	0.8
167.5°	0.9	1.0	0.7	0.8	0.9	0.8
168°	0.9	1.0	0.7	0.8	0.9	0.8
168.5°	0.9	1.0	0.7	0.8	0.9	0.8
169°	0.9	1.0	0.7	0.8	0.9	0.8
169.5°	0.9	1.0	0.7	0.8	0.9	0.8
170°	0.9	1.0	0.7	0.8	0.9	0.8
170.5°	0.9	1.0	0.7	0.8	0.9	0.8
171°	0.9	1.0	0.7	0.8	0.9	0.8
171.5°	0.9	1.0	0.7	0.8	0.9	0.8
172°	0.9	1.0	0.7	0.8	0.9	0.8
172.5°	0.9	1.0	0.7	0.8	0.9	0.8
173°	0.9	1.0	0.7	0.8	0.9	0.8
173.5°	0.9	1.0	0.7	0.8	0.9	0.8
174°	0.9	1.0	0.7	0.8	0.9	0.8
174.5°	0.9	1.0	0.7	0.8	0.9	0.8
175°	0.9	1.0	0.7	0.8	0.9	0.8
175.5°	0.9	1.0	0.7	0.8	0.9	0.8
176°	0.9	1.0	0.7	0.8	0.9	0.8
176.5°	0.9	1.0	0.7	0.8	0.9	0.8
177°	0.9	1.0	0.7	0.8	0.9	0.8
177.5°	0.9	1.0	0.7	0.8	0.9	0.8
178°	0.9	1.0	0.7	0.8	0.9	0.8
178.5°	0.9	1.0	0.7	0.8	0.9	0.8
179°	0.9	1.0	0.7	0.8	0.9	0.8
179.5°	0.9	1.0	0.7	0.8	0.9	0.8



TEST NUMBER: P565402
CATALOG NUMBER: HLBQL6069FS1E-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.8	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)