

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: P565404

Luminaire Tested: **HLBQL6069FS1E-4000K-UNIT**

Issue Date: 8/31/2021

Test Information

Test Method: LM-79-08
Report Number: P565404
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-4000K-UNIT
Description: 6in Surface Mount Downlight Fixture with Color Selectable Switch
Light Source: (72) 4000K CCT, 94 CRI LEDS
Ballast/Driver: -

Summary

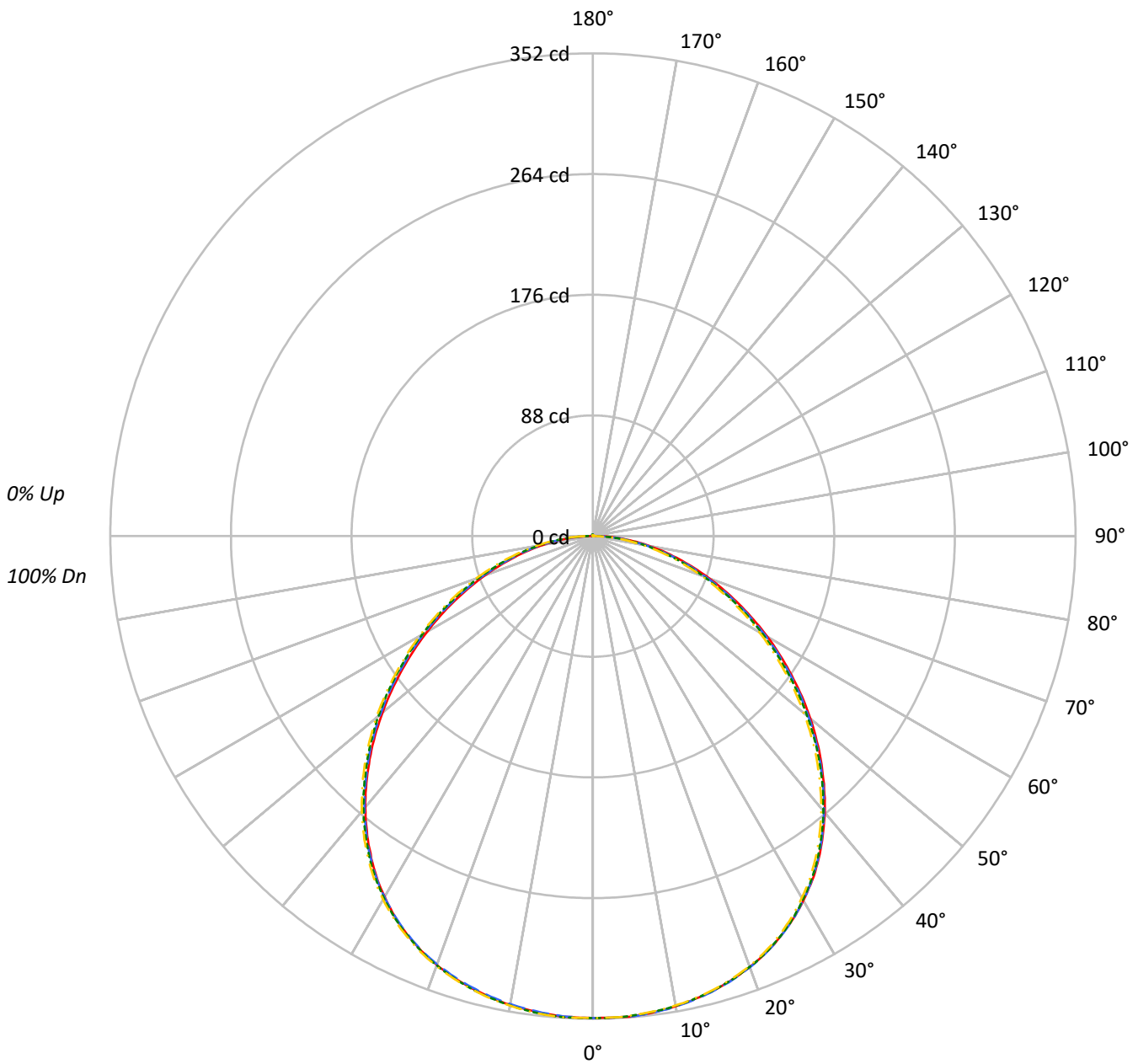
Lumens per Lamp: N/A
Luminaire Lumens: 1005.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Circular (Dia: 0.5m x H: 0m)
CIE Type: Direct

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: P565404
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Luminous Intensity Polar Plot



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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	1790	1790	1790	1790
5°	1795	1793	1791	1794
10°	1800	1799	1795	1798
15°	1807	1806	1800	1802
20°	1813	1812	1804	1805
25°	1813	1812	1801	1803
30°	1805	1801	1787	1793
35°	1784	1778	1757	1769
40°	1749	1739	1717	1731
45°	1698	1683	1658	1678
50°	1641	1616	1588	1617
55°	1572	1540	1507	1546
60°	1497	1459	1424	1468
65°	1421	1369	1335	1388
70°	1349	1279	1246	1315
75°	1285	1194	1159	1242
80°	1241	1117	1076	1191
85°	1262	1046	982	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	3.3
10°-20°	96.6	9.6
20°-30°	148.1	14.7
30°-40°	178.1	17.7
40°-50°	180.1	17.9
50°-60°	156.5	15.6
60°-70°	115.8	11.5
70°-80°	68.9	6.9
80°-90°	24.3	2.4
90°-100°	1.4	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°	278.1	27.7
0°-40°	456.2	45.4
0°-60°	792.7	78.9
0°-90°	1001.6	99.7
90°-120°	1.6	0.2
90°-150°	2.7	0.3
90°-180°	3.0	0.3
0°-180°	1005.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	352	352	352	352	352	
5°	351	351	350	351	351	33
15°	343	343	341	342	343	97
25°	323	322	320	321	323	149
35°	287	286	283	284	287	179
45°	236	234	230	233	236	182
55°	177	173	170	174	177	158
65°	118	114	111	115	118	117
75°	65	61	59	63	65	69
85°	22	18	17	20	22	22
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	351.5	351.5	351.5	351.5	351.5	351.5	351.5	351.5	351.5	351.5	351.5
0.5°	351.5	351.4	351.5	351.5	351.5	351.5	351.4	351.5	351.3	351.5	351.4
1°	351.4	351.4	351.4	351.5	351.5	351.4	351.4	351.5	351.3	351.3	351.3
1.5°	351.4	351.4	351.4	351.5	351.5	351.4	351.3	351.5	351.3	351.3	351.3
2°	351.4	351.4	351.4	351.5	351.5	351.3	351.3	351.3	351.3	351.2	351.1
2.5°	351.4	351.4	351.4	351.5	351.4	351.3	351.3	351.3	351.1	351.1	351.0
3°	351.4	351.4	351.4	351.5	351.4	351.3	351.3	351.2	351.2	351.1	350.9
3.5°	351.4	351.4	351.4	351.5	351.4	351.3	351.3	351.2	351.2	351.1	350.9
4°	351.5	351.4	351.4	351.5	351.1	351.1	351.1	350.9	350.9	350.8	350.6
4.5°	351.5	351.4	351.4	351.5	350.9	350.7	350.7	350.6	350.5	350.4	350.2
5°	351.2	351.3	351.4	351.5	350.7	350.5	350.5	350.5	350.3	350.2	350.0
5.5°	350.9	351.1	351.1	351.4	350.5	350.3	350.4	350.2	350.1	350.1	349.8
6°	350.8	350.9	350.9	351.1	350.3	350.1	350.1	350.1	349.9	349.7	349.6
6.5°	350.5	350.7	350.7	350.8	350.1	349.8	349.8	349.7	349.5	349.3	349.2
7°	350.3	350.5	350.5	350.7	349.8	349.6	349.6	349.3	349.2	349.2	348.8
7.5°	350.0	350.2	350.1	350.4	349.5	349.3	349.3	349.0	348.9	348.7	348.6
8°	349.6	349.9	349.8	350.1	349.2	349.0	349.0	348.8	348.6	348.2	348.2
8.5°	349.3	349.6	349.5	349.7	349.0	348.6	348.7	348.4	348.2	347.9	347.8
9°	349.0	349.2	349.2	349.3	348.6	348.3	348.3	348.0	347.8	347.6	347.4
9.5°	348.5	348.7	348.8	349.0	348.1	348.0	348.0	347.8	347.5	347.1	346.9
10°	348.1	348.3	348.4	348.5	347.8	347.5	347.6	347.3	347.0	346.8	346.6
10.5°	347.7	347.9	347.9	348.1	347.4	347.3	347.1	346.9	346.8	346.3	346.0
11°	347.3	347.5	347.5	347.7	347.0	346.8	346.9	346.5	346.2	345.7	345.6
11.5°	346.8	346.9	347.0	347.3	346.5	346.2	346.2	345.9	345.6	345.2	345.1
12°	346.3	346.5	346.5	346.8	346.0	345.7	345.7	345.4	345.1	344.8	344.5
12.5°	345.6	346.0	346.0	346.2	345.4	345.2	345.1	344.8	344.5	344.1	344.0
13°	345.2	345.5	345.4	345.6	344.9	344.7	344.6	344.2	343.9	343.5	343.3
13.5°	344.6	344.8	344.8	345.1	344.3	344.0	344.0	343.7	343.3	342.9	342.7
14°	344.0	344.2	344.2	344.4	343.7	343.5	343.4	343.1	342.6	342.3	342.1
14.5°	343.3	343.6	343.7	343.8	343.1	342.8	342.7	342.5	342.0	341.6	341.4
15°	342.7	343.0	343.0	343.2	342.6	342.2	342.1	341.7	341.4	341.1	340.7
15.5°	342.0	342.3	342.3	342.4	341.8	341.5	341.4	341.0	340.6	340.1	340.1
16°	341.2	341.6	341.6	341.7	341.0	340.8	340.6	340.4	339.8	339.5	339.3
16.5°	340.4	340.7	340.8	340.9	340.4	340.1	339.8	339.6	339.1	338.7	338.5
17°	339.7	340.0	340.1	340.2	339.6	339.3	339.1	338.7	338.3	338.0	337.8
17.5°	338.9	339.2	339.2	339.3	338.8	338.5	338.3	338.0	337.4	337.2	336.8
18°	338.0	338.3	338.4	338.5	338.1	337.5	337.4	337.1	336.6	336.3	336.0
18.5°	337.2	337.5	337.5	337.6	337.0	336.7	336.5	336.1	335.7	335.3	335.0
19°	336.2	336.6	336.5	336.6	336.2	335.8	335.5	335.2	334.8	334.6	334.1
19.5°	335.4	335.6	335.6	335.7	335.2	334.9	334.6	334.3	333.9	333.5	333.5
20°	334.6	334.7	334.7	334.8	334.3	333.9	333.8	333.2	332.8	332.7	332.4
20.5°	333.5	333.7	333.7	333.8	333.4	332.9	332.7	332.3	331.7	331.5	331.2
21°	332.4	332.6	332.6	332.7	332.4	331.8	331.5	331.1	330.6	330.4	330.2
21.5°	331.4	331.6	331.6	331.6	331.2	330.7	330.4	330.0	329.5	329.3	329.2
22°	330.3	330.5	330.5	330.4	330.1	329.6	329.2	328.8	328.3	328.1	328.0



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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°	329.0	329.3	329.3	329.3	328.9	328.4	328.1	327.6	327.2	326.9	326.7
23°	327.9	328.2	328.1	328.1	327.8	327.2	326.8	326.4	325.9	325.5	325.5
23.5°	326.7	326.9	326.8	326.8	326.5	326.0	325.5	325.1	324.6	324.3	324.2
24°	325.5	325.6	325.5	325.5	325.2	324.6	324.2	323.8	323.3	323.1	322.9
24.5°	324.0	324.3	324.2	324.1	323.9	323.2	322.7	322.3	321.9	321.6	321.5
25°	322.7	323.0	322.8	322.6	322.5	321.8	321.3	321.0	320.5	320.2	320.0
25.5°	321.3	321.5	321.5	321.3	321.1	320.4	319.9	319.4	319.1	318.7	318.7
26°	319.8	320.1	320.0	319.8	319.5	318.9	318.4	318.0	317.6	317.4	317.3
26.5°	318.3	318.6	318.5	318.3	318.1	317.4	316.8	316.7	316.0	315.8	315.8
27°	317.0	317.1	317.1	316.8	316.7	315.7	315.3	314.8	314.4	314.2	314.2
27.5°	315.4	315.5	315.4	315.1	314.9	314.2	313.6	313.0	312.7	312.7	312.6
28°	313.8	313.9	313.8	313.4	313.3	312.5	311.9	311.5	311.1	311.0	310.9
28.5°	312.1	312.4	312.1	312.0	311.5	310.8	310.1	309.5	309.2	309.2	309.2
29°	310.5	310.5	310.4	310.0	309.9	309.0	308.4	307.9	307.5	307.6	307.5
29.5°	308.8	308.9	308.6	308.2	308.1	307.2	306.6	306.2	305.7	305.6	305.8
30°	306.9	307.1	306.7	306.4	306.3	305.3	304.7	304.3	303.8	303.8	303.9
30.5°	305.2	305.3	304.9	304.4	304.4	303.6	302.9	302.4	301.9	302.0	302.1
31°	303.3	303.3	303.1	302.5	302.6	301.5	300.9	300.4	300.0	300.0	300.2
31.5°	301.4	301.4	301.1	300.6	300.6	299.6	299.1	298.6	298.1	298.1	298.5
32°	299.6	299.7	299.3	298.7	298.7	297.7	297.1	296.5	296.1	295.9	296.5
32.5°	297.7	297.7	297.4	296.7	296.7	295.8	295.0	294.5	294.0	293.7	294.5
33°	295.7	295.7	295.3	294.7	294.7	293.7	292.8	292.3	291.9	291.9	292.4
33.5°	293.6	293.4	293.1	292.5	292.5	291.3	290.6	290.2	289.7	289.4	290.2
34°	291.4	291.4	291.0	290.3	290.5	289.3	288.4	287.8	287.5	287.5	288.0
34.5°	289.3	289.2	288.8	288.0	288.2	287.0	286.2	285.7	285.3	285.3	285.8
35°	287.0	287.0	286.6	285.8	286.0	284.7	283.9	283.4	282.6	283.1	283.6
35.5°	284.8	284.7	284.2	283.6	283.6	282.4	281.5	281.0	280.3	280.8	281.3
36°	282.5	282.4	282.0	281.3	281.3	280.1	279.2	278.7	278.3	278.4	279.0
36.5°	280.2	280.1	279.6	279.1	278.8	277.7	276.8	276.2	275.9	276.0	276.6
37°	277.8	277.7	277.2	276.9	276.4	275.3	274.4	273.8	273.5	273.6	274.2
37.5°	275.4	275.3	274.8	274.6	274.1	272.9	271.8	271.3	270.9	271.1	271.7
38°	273.0	272.8	272.3	272.4	271.5	270.4	269.4	268.8	268.5	268.7	269.3
38.5°	270.5	270.3	269.8	270.2	269.2	267.8	266.8	266.2	265.9	266.1	266.8
39°	268.0	267.8	267.3	267.9	266.6	265.3	264.4	263.8	263.4	263.7	264.4
39.5°	265.6	265.4	264.9	265.7	264.1	262.9	261.8	261.1	260.8	261.0	261.8
40°	263.1	262.8	262.2	263.5	261.5	260.1	259.1	258.5	258.2	258.4	259.2
40.5°	260.4	260.1	259.5	261.2	258.8	257.5	256.3	255.8	255.6	255.7	256.5
41°	257.8	257.5	256.8	259.0	255.9	254.8	253.6	253.0	252.8	253.1	253.8
41.5°	255.2	254.9	254.1	256.8	253.4	252.0	250.9	250.4	250.1	250.3	251.0
42°	252.4	252.1	251.5	254.5	250.7	249.3	248.0	247.5	247.3	247.5	248.4
42.5°	249.7	249.4	248.8	252.3	247.9	246.5	245.2	244.7	244.5	244.7	245.7
43°	247.2	246.8	246.0	250.1	245.1	243.6	242.4	241.9	241.6	242.0	242.9
43.5°	244.2	244.0	243.2	247.8	242.3	240.8	239.6	239.0	238.8	239.1	240.1
44°	241.4	241.2	240.3	245.6	239.4	237.9	236.6	236.1	235.9	236.2	237.0
44.5°	238.7	238.3	237.6	243.4	236.6	235.0	233.8	233.2	233.0	233.3	234.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	235.8	235.5	234.8	241.1	233.6	232.1	230.8	230.5	230.2	230.5	231.6
45.5°	233.0	232.6	231.8	238.9	230.8	229.3	228.1	227.5	227.3	227.7	228.9
46°	230.4	230.0	229.1	236.7	227.9	226.4	225.1	224.6	224.4	224.8	226.0
46.5°	227.5	227.1	226.2	234.4	225.0	223.4	222.1	221.6	221.4	221.9	223.1
47°	224.6	224.1	223.1	232.2	222.1	220.4	219.1	218.7	218.4	218.9	220.2
47.5°	221.6	221.0	220.2	230.0	219.1	217.4	216.0	215.6	215.5	215.9	217.2
48°	218.6	218.2	217.2	227.8	216.0	214.4	213.0	212.6	212.5	212.9	214.3
48.5°	215.8	215.4	214.4	225.5	213.1	211.4	209.9	209.6	209.4	210.0	211.3
49°	213.0	212.5	211.6	223.3	210.0	208.3	206.9	206.6	206.5	206.9	208.3
49.5°	210.0	209.3	208.5	221.1	207.1	205.3	203.8	203.6	203.4	203.9	205.3
50°	207.1	206.4	205.4	218.8	204.0	202.2	200.7	200.5	200.4	200.9	202.3
50.5°	204.0	203.4	202.4	216.6	200.8	199.2	197.7	197.4	197.3	197.9	199.3
51°	201.0	200.4	199.4	214.4	197.9	196.1	194.6	194.4	194.4	194.9	196.3
51.5°	198.0	197.3	196.4	212.1	194.9	193.1	191.6	191.4	191.2	192.0	193.5
52°	195.2	194.6	193.5	209.9	191.8	190.0	188.5	188.3	188.3	188.7	190.4
52.5°	192.1	191.5	190.6	207.7	188.7	186.9	185.4	185.2	185.0	185.8	187.5
53°	189.0	188.4	187.5	205.4	185.6	183.8	182.2	182.1	182.0	182.7	184.4
53.5°	186.0	185.3	184.4	203.2	182.6	180.7	179.2	179.1	178.9	179.7	181.4
54°	183.0	182.2	181.4	201.0	179.5	177.7	176.1	176.0	175.8	176.5	178.3
54.5°	179.9	179.2	178.4	198.7	176.5	174.6	173.0	172.9	172.7	173.5	175.3
55°	177.0	176.3	175.2	196.5	173.4	171.5	169.9	169.9	169.7	170.4	172.2
55.5°	173.9	173.1	172.2	194.3	170.2	168.5	166.8	166.8	166.6	167.4	169.1
56°	170.9	170.1	169.2	192.0	167.2	165.4	163.8	163.8	163.6	164.4	166.2
56.5°	167.8	167.0	166.2	189.8	164.2	162.4	160.9	160.8	160.7	161.4	163.1
57°	164.9	164.0	163.1	187.6	161.2	159.5	157.9	157.8	157.7	158.5	160.3
57.5°	161.9	161.1	160.2	185.3	158.4	156.5	154.9	154.8	154.7	155.6	157.2
58°	158.9	158.1	157.3	183.1	155.3	153.4	151.9	151.9	151.7	152.5	154.2
58.5°	156.0	155.2	154.2	180.9	152.3	150.4	148.9	148.8	148.6	149.5	151.2
59°	153.1	152.2	151.2	178.6	149.1	147.4	145.9	145.7	145.7	146.6	148.2
59.5°	150.0	149.0	148.2	176.4	146.2	144.4	143.0	142.7	142.7	143.6	145.2
60°	147.0	146.1	145.1	174.2	143.2	141.4	140.0	139.8	139.8	140.7	142.3
60.5°	144.0	143.2	142.1	171.9	140.1	138.3	137.1	136.8	136.8	137.7	139.3
61°	141.0	140.2	139.1	169.7	137.1	135.3	134.1	133.8	133.9	134.8	136.3
61.5°	138.1	137.2	136.2	167.5	134.2	132.4	131.2	130.9	130.9	131.8	133.4
62°	135.1	134.3	133.2	165.3	131.1	129.4	128.3	127.7	128.0	128.9	130.5
62.5°	132.2	131.4	130.3	163.0	128.2	126.5	125.5	125.0	125.1	126.2	127.5
63°	129.3	128.5	127.3	160.8	125.4	123.6	122.5	122.1	122.2	123.3	124.6
63.5°	126.5	125.8	124.6	158.5	122.3	120.7	119.7	119.2	119.3	120.3	121.8
64°	123.6	122.9	121.6	156.3	119.4	117.8	116.8	116.3	116.5	117.5	118.9
64.5°	120.8	120.0	118.7	154.1	116.6	114.8	113.9	113.4	113.6	114.6	116.0
65°	117.9	117.2	115.9	151.9	113.6	112.0	111.1	110.4	110.8	111.8	113.2
65.5°	115.1	114.4	113.0	149.6	110.7	109.2	108.3	107.6	107.9	109.0	110.4
66°	112.3	111.5	110.1	147.4	107.9	106.2	105.4	104.7	105.1	106.2	107.5
66.5°	109.5	109.0	107.3	145.2	105.0	103.4	102.7	101.9	102.4	103.4	104.7
67°	106.8	106.0	104.6	142.9	102.1	100.6	99.9	99.1	99.6	100.6	101.9



TEST NUMBER: P565404
 CATALOG NUMBER: HLBQL6069FS1E-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	104.0	103.3	101.7	140.7	99.4	97.8	97.1	96.3	96.8	97.9	99.1
68°	101.2	100.5	99.0	138.5	96.5	95.1	94.4	93.6	94.2	95.1	96.4
68.5°	98.5	97.9	96.2	136.2	93.8	92.2	91.7	91.1	91.6	92.5	93.7
69°	95.9	95.2	93.4	134.0	91.3	89.7	89.1	88.4	89.0	90.0	91.1
69.5°	93.1	92.6	90.9	131.8	88.5	87.1	86.5	85.7	86.4	87.3	88.4
70°	90.6	90.0	88.3	129.5	85.9	84.3	83.7	83.0	83.7	84.7	85.8
70.5°	88.1	87.4	85.6	127.3	83.3	81.7	81.1	80.4	81.2	82.1	83.1
71°	85.4	84.8	82.9	125.1	80.7	79.1	78.5	77.9	78.5	79.5	80.6
71.5°	82.7	82.2	80.3	122.8	78.1	76.5	75.9	75.2	76.1	76.9	78.0
72°	80.2	79.6	77.7	120.6	75.5	74.0	73.4	72.7	73.5	74.4	75.4
72.5°	77.6	77.0	75.2	118.4	73.0	71.6	70.9	70.2	71.0	71.8	73.0
73°	75.1	74.4	72.7	116.1	70.4	69.0	68.4	67.8	68.5	69.4	70.4
73.5°	72.6	71.9	70.2	113.9	68.0	66.5	65.9	65.2	66.1	66.9	68.0
74°	70.1	69.4	67.7	111.7	65.5	64.2	63.5	62.8	63.7	64.5	65.6
74.5°	67.7	66.9	65.3	109.4	63.1	61.8	61.1	60.5	61.3	62.1	63.2
75°	65.3	64.6	62.9	107.2	60.7	59.3	58.7	58.2	58.9	59.9	60.8
75.5°	62.9	62.1	60.5	105.0	58.4	57.0	56.4	55.9	56.7	57.5	58.5
76°	60.4	59.8	58.1	102.7	56.1	54.7	54.1	53.6	54.4	55.2	56.4
76.5°	58.1	57.6	55.9	100.5	53.8	52.5	51.9	51.4	52.1	52.9	54.0
77°	55.9	55.1	53.6	98.3	51.5	50.2	49.6	49.1	49.8	50.7	51.8
77.5°	53.6	52.9	51.3	96.0	49.2	48.0	47.2	46.9	47.7	48.4	49.6
78°	51.3	50.6	49.1	93.8	47.0	45.7	45.0	44.7	45.4	46.2	47.4
78.5°	48.9	48.3	46.9	91.6	44.7	43.6	42.8	42.6	43.2	44.0	45.2
79°	46.8	46.1	44.7	89.4	42.5	41.3	40.7	40.4	41.0	41.8	43.0
79.5°	44.6	43.8	42.4	87.1	40.4	39.2	38.5	38.2	38.9	39.7	40.9
80°	42.3	41.6	40.2	84.9	38.1	37.0	36.3	36.2	36.7	37.5	38.8
80.5°	40.2	39.4	38.1	82.7	36.0	34.8	34.1	34.1	34.7	35.4	36.7
81°	37.9	37.3	35.9	80.4	33.9	32.6	32.0	32.0	32.5	33.4	34.7
81.5°	35.9	35.2	33.8	78.2	31.8	30.6	29.9	29.9	30.4	31.2	32.6
82°	33.7	33.0	31.7	76.0	29.7	28.5	27.8	27.9	28.3	29.2	30.5
82.5°	31.6	30.9	29.6	73.7	27.5	26.5	25.8	25.9	26.4	27.2	28.5
83°	29.5	28.8	27.6	71.5	25.6	24.5	23.8	23.9	24.4	25.2	26.5
83.5°	27.5	26.8	25.4	69.3	23.5	22.5	22.0	22.2	22.5	23.2	24.5
84°	25.5	24.7	23.6	67.0	21.7	20.8	20.0	20.1	20.6	21.4	22.5
84.5°	23.5	22.9	21.7	64.8	19.8	18.7	18.1	18.2	18.7	19.5	20.8
85°	21.6	20.9	19.6	62.6	17.9	16.9	16.1	16.4	16.8	17.7	18.9
85.5°	19.7	18.9	17.7	60.3	16.0	15.0	14.3	14.5	14.9	15.7	17.0
86°	17.7	17.0	15.8	58.1	14.1	13.1	12.4	12.7	13.1	13.9	15.1
86.5°	15.9	15.1	13.9	55.9	12.2	11.2	10.5	10.8	11.3	12.1	13.3
87°	14.0	13.2	12.0	53.6	10.3	9.3	8.6	9.0	9.4	10.2	11.5
87.5°	12.1	11.3	10.3	51.4	8.5	7.5	6.8	7.2	7.6	8.5	9.7
88°	10.3	9.5	8.5	49.2	6.6	5.6	5.1	5.5	5.9	6.8	7.9
88.5°	8.4	7.7	6.7	46.9	4.8	3.8	3.4	3.7	4.1	4.9	6.2
89°	6.6	5.9	4.8	44.7	3.0	2.2	1.7	1.8	2.4	3.2	4.5
89.5°	4.8	4.1	3.1	42.5	1.4	0.7	0.5	0.4	0.7	1.5	2.8



TEST NUMBER: P565404
 CATALOG NUMBER: HLBQL6069FS1E-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	3.1	2.4	1.5	40.2	0.3	0.0	0.0	0.0	0.0	0.2	1.1
90.5°	1.6	0.9	0.3	38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.5	0.2	0.1	35.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.1	0.1	0.1	33.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.1	0.1	0.1	31.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.1	0.1	0.1	29.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
93°	0.1	0.1	0.1	26.8	0.0	0.0	0.0	0.1	0.0	0.0	0.0
93.5°	0.1	0.1	0.1	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.1	0.1	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.1	0.1	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.1	0.1	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.1	0.1	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.1	0.1	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.1	0.1	11.2	0.0	0.0	0.1	0.1	0.0	0.0	0.0
97°	0.0	0.1	0.1	9.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
97.5°	0.0	0.1	0.1	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1
98°	0.0	0.1	0.1	4.5	0.0	0.0	0.0	0.1	0.0	0.1	0.0
98.5°	0.0	0.1	0.1	2.3	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: P565404
 CATALOG NUMBER: HLBQL6069FS1E-4000K-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: P565404
 CATALOG NUMBER: HLBQL6069FS1E-4000K-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	0.7	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	0.9	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: P565404

CATALOG NUMBER: HLBQL6069FS1E-4000K-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: P565404
CATALOG NUMBER: HLBQL6069FS1E-4000K-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: P565404
 CATALOG NUMBER: HLBQL6069FS1E-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	351.5	351.5	351.5	351.5	351.5	351.5
0.5°	351.5	351.5	351.4	351.5	351.5	351.5
1°	351.5	351.5	351.4	351.4	351.5	351.4
1.5°	351.3	351.5	351.4	351.4	351.5	351.4
2°	351.1	351.5	351.4	351.4	351.5	351.4
2.5°	351.1	351.5	351.4	351.4	351.5	351.4
3°	351.1	351.5	351.4	351.4	351.5	351.4
3.5°	351.1	351.5	351.4	351.4	351.5	351.4
4°	350.9	351.4	351.3	351.5	351.6	351.5
4.5°	350.5	351.1	351.1	351.3	351.4	351.5
5°	350.3	350.9	350.9	351.1	351.3	351.2
5.5°	349.9	350.7	350.6	350.9	351.0	350.9
6°	349.7	350.5	350.3	350.6	350.7	350.8
6.5°	349.3	350.1	350.1	350.3	350.4	350.5
7°	349.0	349.9	349.7	350.1	350.1	350.3
7.5°	348.8	349.5	349.5	349.7	349.8	350.0
8°	348.5	349.1	349.1	349.4	349.5	349.6
8.5°	348.1	348.8	348.7	349.0	349.2	349.3
9°	347.6	348.4	348.2	348.7	348.8	349.0
9.5°	347.1	348.0	347.8	348.2	348.4	348.5
10°	346.9	347.6	347.4	347.8	348.0	348.1
10.5°	346.4	347.1	346.9	347.3	347.6	347.7
11°	345.8	346.6	346.5	346.9	347.1	347.3
11.5°	345.2	346.1	346.1	346.5	346.5	346.8
12°	344.6	345.5	345.4	345.9	346.1	346.3
12.5°	344.2	345.0	344.9	345.3	345.5	345.6
13°	343.5	344.4	344.4	344.7	344.9	345.2
13.5°	342.8	343.8	343.7	344.1	344.4	344.6
14°	342.3	343.1	343.1	343.4	343.8	344.0
14.5°	341.6	342.5	342.4	342.7	343.1	343.3
15°	340.9	341.8	341.8	342.0	342.5	342.7
15.5°	340.2	341.0	341.1	341.3	341.7	342.0
16°	339.4	340.2	340.3	340.6	341.1	341.2
16.5°	338.6	339.5	339.5	339.9	340.3	340.4
17°	337.9	338.7	338.7	339.0	339.5	339.7
17.5°	337.0	337.8	337.8	338.2	338.7	338.9
18°	336.2	336.9	337.0	337.3	337.8	338.0
18.5°	335.3	336.0	336.1	336.5	336.9	337.2
19°	334.4	335.1	335.1	335.5	335.9	336.2
19.5°	333.7	334.2	334.2	334.7	335.1	335.4
20°	332.6	333.1	333.3	333.8	334.1	334.6
20.5°	331.5	332.1	332.2	332.7	333.2	333.5
21°	330.4	331.0	331.0	331.6	332.2	332.4
21.5°	329.4	329.9	330.0	330.6	331.0	331.4
22°	328.3	328.8	328.9	329.5	329.9	330.3



TEST NUMBER: P565404

CATALOG NUMBER: HLBQL6069FS1E-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	327.0	327.5	327.7	328.3	328.7	329.0
23°	325.9	326.3	326.4	327.0	327.5	327.9
23.5°	324.6	325.0	325.1	325.8	326.2	326.7
24°	323.3	323.7	323.9	324.5	325.0	325.5
24.5°	321.9	322.3	322.5	323.2	323.6	324.0
25°	320.6	320.9	321.2	321.8	322.3	322.7
25.5°	319.2	319.6	319.8	320.4	320.8	321.3
26°	317.7	318.2	318.3	319.1	319.5	319.8
26.5°	316.3	316.6	316.8	317.6	318.1	318.3
27°	314.7	315.1	315.3	316.1	316.5	317.0
27.5°	313.1	313.5	313.7	314.4	314.9	315.4
28°	311.5	311.8	312.1	312.8	313.5	313.8
28.5°	309.8	310.1	310.5	311.2	311.8	312.1
29°	308.1	308.4	308.8	309.5	310.1	310.5
29.5°	306.4	306.7	307.0	307.8	308.4	308.8
30°	304.6	304.9	305.3	306.0	306.7	306.9
30.5°	302.8	302.9	303.4	304.2	304.8	305.2
31°	300.9	301.1	301.5	302.3	303.0	303.3
31.5°	299.2	299.3	299.9	300.6	301.1	301.4
32°	297.2	297.3	297.8	298.7	299.4	299.6
32.5°	295.1	295.3	295.9	296.7	297.4	297.7
33°	293.1	293.3	293.8	294.6	295.4	295.7
33.5°	291.2	291.2	291.7	292.5	293.3	293.6
34°	288.9	289.0	289.5	290.5	291.2	291.4
34.5°	286.8	286.8	287.4	288.2	289.0	289.3
35°	284.2	284.5	285.1	286.0	286.8	287.0
35.5°	282.1	282.2	282.9	283.8	284.6	284.8
36°	279.9	279.9	280.6	281.6	282.4	282.5
36.5°	277.1	277.5	278.3	279.2	279.9	280.2
37°	275.2	275.1	275.9	277.0	277.6	277.8
37.5°	272.8	272.6	273.5	274.4	275.3	275.4
38°	270.2	270.3	271.0	272.1	272.9	273.0
38.5°	267.9	267.8	268.6	269.6	270.3	270.5
39°	265.3	265.5	266.1	267.2	267.9	268.0
39.5°	263.0	262.8	263.8	264.7	265.5	265.6
40°	260.4	260.3	261.2	262.1	262.9	263.1
40.5°	257.8	257.6	258.5	259.6	260.4	260.4
41°	255.1	254.9	255.9	257.0	257.8	257.8
41.5°	252.4	252.5	253.3	254.2	255.0	255.2
42°	249.8	249.6	250.6	251.7	252.3	252.4
42.5°	247.0	247.0	248.1	249.0	249.6	249.7
43°	244.3	244.2	245.1	246.1	247.0	247.2
43.5°	241.6	241.3	242.5	243.6	244.3	244.2
44°	238.7	238.6	239.7	240.7	241.5	241.4
44.5°	235.9	235.8	236.9	237.9	238.7	238.7



TEST NUMBER: P565404

CATALOG NUMBER: HLBQL6069FS1E-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	233.0	233.0	234.1	235.2	236.0	235.8
45.5°	230.3	230.3	231.2	232.2	233.2	233.0
46°	227.6	227.4	228.5	229.5	230.5	230.4
46.5°	224.7	224.5	225.7	226.7	227.5	227.5
47°	221.7	221.7	222.8	223.7	224.5	224.6
47.5°	218.8	218.7	219.9	220.9	221.7	221.6
48°	215.8	215.7	217.0	217.9	218.8	218.6
48.5°	212.9	213.0	214.1	215.2	215.9	215.8
49°	210.0	210.0	211.2	212.1	213.0	213.0
49.5°	206.9	207.1	208.3	209.3	210.1	210.0
50°	203.9	204.1	205.2	206.2	207.1	207.1
50.5°	200.9	201.1	202.3	203.3	204.1	204.0
51°	197.9	198.1	199.5	200.3	201.1	201.0
51.5°	195.0	195.3	196.4	197.2	198.1	198.0
52°	191.9	192.1	193.5	194.3	195.4	195.2
52.5°	188.8	189.3	190.6	191.2	192.3	192.1
53°	185.8	186.1	187.5	188.3	189.4	189.0
53.5°	182.7	183.2	184.4	185.2	186.4	186.0
54°	179.6	180.1	181.5	182.1	183.2	183.0
54.5°	176.5	177.1	178.6	179.2	180.3	179.9
55°	173.6	174.1	175.6	176.1	177.3	177.0
55.5°	170.5	171.0	172.5	173.0	174.3	173.9
56°	167.5	168.0	169.5	170.1	171.3	170.9
56.5°	164.5	165.0	166.4	167.1	168.2	167.8
57°	161.4	162.1	163.5	164.0	165.3	164.9
57.5°	158.5	159.1	160.5	161.1	162.2	161.9
58°	155.5	156.3	157.7	158.1	159.4	158.9
58.5°	152.6	153.3	154.6	155.3	156.4	156.0
59°	149.6	150.1	151.6	152.2	153.3	153.1
59.5°	146.6	147.1	148.7	149.3	150.3	150.0
60°	143.7	144.1	145.7	146.3	147.4	147.0
60.5°	140.8	141.1	142.7	143.4	144.3	144.0
61°	137.9	138.3	139.6	140.3	141.4	141.0
61.5°	135.0	135.2	136.5	137.6	138.4	138.1
62°	132.1	132.2	133.7	134.6	135.4	135.1
62.5°	129.2	129.4	130.9	131.7	132.4	132.2
63°	126.4	126.7	127.9	128.8	129.5	129.3
63.5°	123.7	123.7	125.2	126.2	126.7	126.5
64°	120.9	121.0	122.4	123.4	123.8	123.6
64.5°	118.1	118.0	119.5	120.5	121.1	120.8
65°	115.2	115.2	116.7	117.7	118.1	117.9
65.5°	112.4	112.3	113.9	115.0	115.3	115.1
66°	109.6	109.6	110.9	112.4	112.5	112.3
66.5°	106.9	106.8	108.2	109.6	109.6	109.5
67°	104.2	104.1	105.5	106.8	106.8	106.8



TEST NUMBER: P565404

CATALOG NUMBER: HLBQL6069FS1E-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	101.3	101.3	102.7	104.0	104.1	104.0
68°	98.7	98.7	99.9	101.4	101.3	101.2
68.5°	96.0	96.0	97.3	98.7	98.6	98.5
69°	93.3	93.4	94.6	95.9	95.9	95.9
69.5°	90.8	90.8	92.2	93.2	93.1	93.1
70°	88.0	88.3	89.4	90.8	90.7	90.6
70.5°	85.5	85.6	86.9	88.2	88.0	88.1
71°	82.8	82.9	84.2	85.5	85.3	85.4
71.5°	80.2	80.4	81.6	82.9	82.7	82.7
72°	77.7	77.8	79.0	80.4	80.2	80.2
72.5°	75.1	75.4	76.5	77.8	77.7	77.6
73°	72.6	72.9	74.0	75.3	75.1	75.1
73.5°	70.0	70.5	71.5	72.8	72.6	72.6
74°	67.6	68.0	69.0	70.4	70.1	70.1
74.5°	65.3	65.5	66.6	67.8	67.6	67.7
75°	62.8	63.1	64.2	65.4	65.3	65.3
75.5°	60.5	60.7	61.8	62.8	62.8	62.9
76°	58.1	58.5	59.4	60.5	60.5	60.4
76.5°	55.9	56.3	57.3	58.1	58.2	58.1
77°	53.6	53.9	54.9	56.0	56.0	55.9
77.5°	51.3	51.6	52.9	53.6	53.7	53.6
78°	49.1	49.4	50.5	51.3	51.4	51.3
78.5°	46.8	47.2	48.2	49.0	49.2	48.9
79°	44.6	44.9	46.0	46.8	47.0	46.8
79.5°	42.5	42.7	43.9	44.5	44.8	44.6
80°	40.3	40.6	41.6	42.5	42.5	42.3
80.5°	38.2	38.4	39.6	40.3	40.5	40.2
81°	36.1	36.4	37.5	38.2	38.3	37.9
81.5°	34.0	34.2	35.4	36.1	36.2	35.9
82°	31.9	32.2	33.3	34.0	34.2	33.7
82.5°	29.9	30.2	31.2	31.9	32.1	31.6
83°	27.8	28.0	29.2	29.8	30.0	29.5
83.5°	25.8	26.1	27.3	27.8	28.0	27.5
84°	24.0	24.1	25.2	25.8	26.1	25.5
84.5°	22.1	22.4	23.4	23.8	24.0	23.5
85°	20.2	20.4	21.5	22.0	22.2	21.6
85.5°	18.4	18.6	19.5	20.0	20.2	19.7
86°	16.5	16.6	17.7	18.1	18.3	17.7
86.5°	14.6	14.7	15.7	16.3	16.3	15.9
87°	12.8	13.0	14.0	14.4	14.4	14.0
87.5°	11.0	11.1	12.1	12.5	12.7	12.1
88°	9.3	9.4	10.3	10.7	10.8	10.3
88.5°	7.5	7.6	8.5	8.9	9.0	8.4
89°	5.7	5.9	6.7	7.1	7.1	6.6
89.5°	4.1	4.1	4.9	5.4	5.5	4.8



TEST NUMBER: P565404
 CATALOG NUMBER: HLBQL6069FS1E-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	2.3	2.5	3.1	3.6	3.6	3.1
90.5°	0.8	1.1	1.6	2.0	2.0	1.6
91°	0.0	0.4	0.6	0.8	0.8	0.5
91.5°	0.0	0.2	0.4	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: P565404
 CATALOG NUMBER: HLBQL6069FS1E-4000K-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: P565404
 CATALOG NUMBER: HLBQL6069FS1E-4000K-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	0.7	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	0.9	0.9	0.8
144°	0.8	0.8	0.7	0.9	0.9	0.8
144.5°	0.8	1.2	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: P565404
CATALOG NUMBER: HLBQL6069FS1E-4000K-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: P565404
CATALOG NUMBER: HLBQL6069FS1E-4000K-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)