

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: P565403

Luminaire Tested: **HLBQL6069FS1E-3500K-UNIT**

Issue Date: 8/31/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P565403  
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-3500K-UNIT  
Description: 6in Surface Mount Downlight Fixture with Color Selectable Switch  
Light Source: (72) 3500K CCT, 94 CRI LEDS  
Ballast/Driver: -

**Summary**

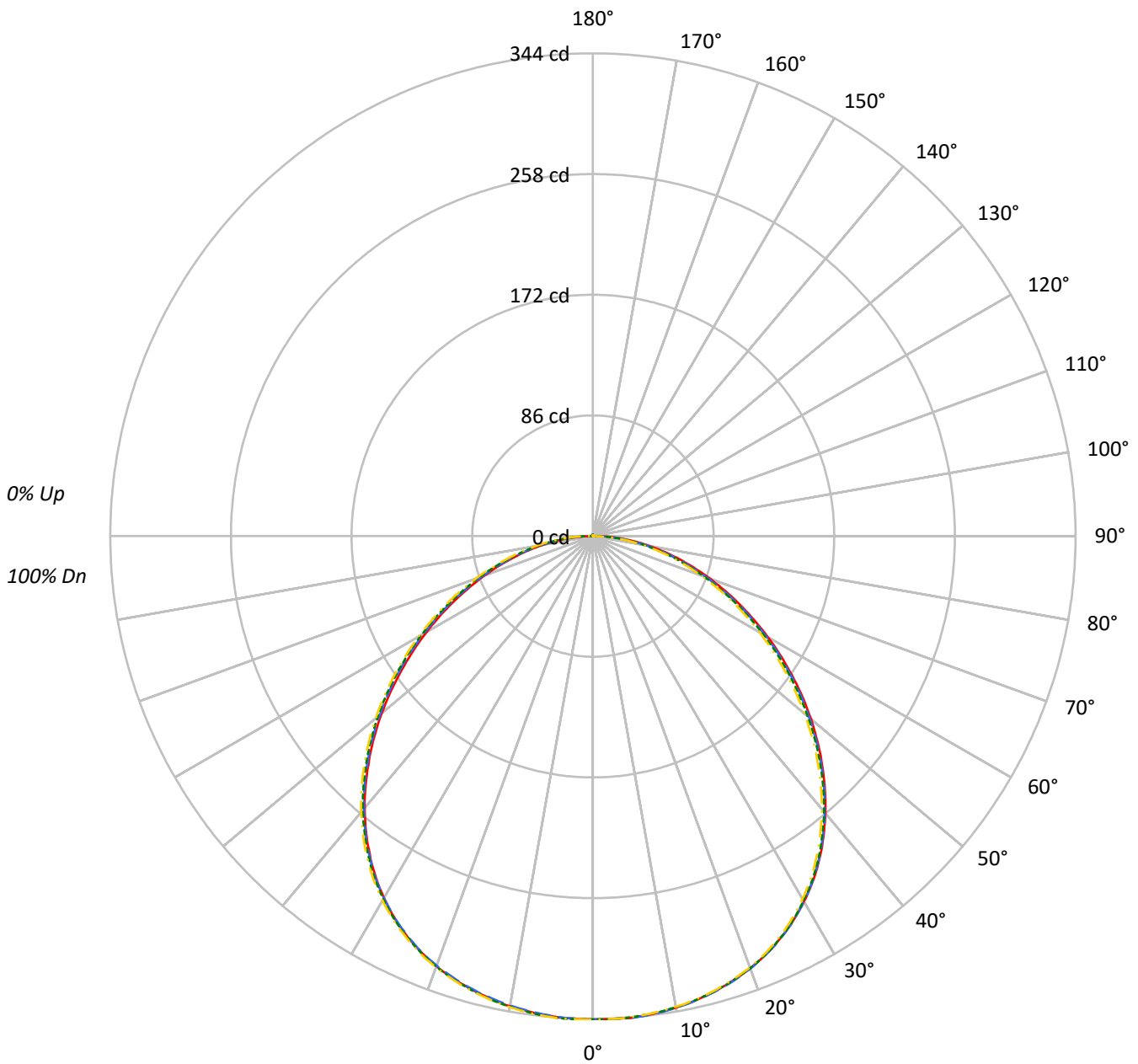
Lumens per Lamp: N/A  
Luminaire Lumens: 985.0 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37  
Luminous Opening: Circular (Dia: 0.5m x H: 0m)  
CIE Type: Direct

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



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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				
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	43	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°	1755	1755	1755	1755
5°	1760	1758	1756	1759
10°	1764	1763	1759	1761
15°	1771	1771	1764	1766
20°	1778	1776	1767	1770
25°	1777	1776	1766	1767
30°	1769	1765	1751	1757
35°	1749	1743	1722	1733
40°	1715	1704	1682	1697
45°	1665	1649	1625	1645
50°	1608	1584	1556	1585
55°	1540	1509	1478	1515
60°	1467	1429	1395	1438
65°	1392	1342	1309	1361
70°	1322	1254	1221	1288
75°	1259	1171	1135	1218
80°	1217	1094	1056	1164
85°	1239	1028	958	1169



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.7	3.3
10°-20°	94.7	9.6
20°-30°	145.2	14.7
30°-40°	174.5	17.7
40°-50°	176.5	17.9
50°-60°	153.3	15.6
60°-70°	113.5	11.5
70°-80°	67.5	6.9
80°-90°	23.8	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°	272.6	27.7
0°-40°	447.1	45.4
0°-60°	777.0	78.9
0°-90°	981.7	99.7
90°-120°	1.6	0.2
90°-150°	2.7	0.3
90°-180°	3.0	0.3
0°-180°	985.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	344	344	344	344	344	
5°	344	344	343	344	344	33
15°	336	336	335	335	336	95
25°	316	316	314	314	316	146
35°	281	280	277	279	281	176
45°	231	229	226	228	231	178
55°	173	170	166	171	173	155
65°	116	111	109	113	116	115
75°	64	60	58	62	64	68
85°	21	18	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	344.5	344.5	344.5	344.5	344.5	344.5	344.5	344.5	344.5	344.5	344.5
0.5°	344.5	344.4	344.5	344.5	344.5	344.5	344.4	344.5	344.3	344.5	344.4
1°	344.4	344.4	344.4	344.5	344.5	344.4	344.4	344.5	344.3	344.3	344.3
1.5°	344.4	344.4	344.4	344.5	344.5	344.4	344.3	344.5	344.3	344.3	344.3
2°	344.4	344.4	344.4	344.5	344.5	344.3	344.3	344.3	344.3	344.2	344.1
2.5°	344.4	344.4	344.4	344.5	344.4	344.3	344.3	344.3	344.2	344.1	344.0
3°	344.4	344.4	344.4	344.5	344.4	344.3	344.3	344.2	344.2	344.1	344.0
3.5°	344.4	344.4	344.4	344.5	344.4	344.3	344.3	344.2	344.2	344.1	344.0
4°	344.5	344.4	344.4	344.5	344.1	344.1	344.1	343.9	343.9	343.8	343.6
4.5°	344.5	344.4	344.4	344.5	343.9	343.8	343.7	343.6	343.5	343.4	343.2
5°	344.2	344.3	344.4	344.5	343.8	343.6	343.6	343.5	343.4	343.2	343.0
5.5°	344.0	344.1	344.2	344.4	343.5	343.3	343.4	343.2	343.1	343.2	342.8
6°	343.8	343.9	344.0	344.2	343.3	343.1	343.2	343.1	342.9	342.7	342.6
6.5°	343.5	343.7	343.7	343.8	343.1	342.9	342.9	342.8	342.6	342.4	342.2
7°	343.3	343.5	343.5	343.7	342.8	342.6	342.7	342.4	342.3	342.2	341.9
7.5°	343.0	343.2	343.2	343.4	342.6	342.4	342.4	342.1	342.0	341.8	341.7
8°	342.7	342.9	342.8	343.1	342.3	342.1	342.1	341.9	341.7	341.3	341.2
8.5°	342.4	342.6	342.6	342.8	342.0	341.7	341.8	341.5	341.3	341.0	340.8
9°	342.0	342.3	342.2	342.4	341.6	341.4	341.3	341.1	340.9	340.6	340.5
9.5°	341.6	341.8	341.8	342.1	341.2	341.0	341.0	340.8	340.6	340.2	340.0
10°	341.1	341.4	341.4	341.6	340.9	340.6	340.6	340.4	340.1	339.9	339.7
10.5°	340.8	341.0	341.0	341.2	340.5	340.4	340.2	340.0	339.9	339.4	339.1
11°	340.4	340.6	340.6	340.8	340.1	339.9	340.0	339.6	339.3	338.8	338.7
11.5°	339.9	340.0	340.1	340.4	339.6	339.3	339.3	339.0	338.7	338.3	338.2
12°	339.4	339.6	339.6	339.9	339.1	338.8	338.8	338.6	338.2	338.0	337.6
12.5°	338.8	339.1	339.1	339.3	338.6	338.3	338.2	338.0	337.6	337.2	337.1
13°	338.3	338.6	338.5	338.7	338.1	337.9	337.8	337.4	337.0	336.7	336.4
13.5°	337.7	337.9	337.9	338.2	337.4	337.2	337.1	336.8	336.4	336.1	335.9
14°	337.2	337.4	337.4	337.6	336.9	336.6	336.6	336.3	335.8	335.5	335.3
14.5°	336.5	336.8	336.8	336.9	336.3	336.0	335.9	335.7	335.2	334.8	334.6
15°	335.9	336.1	336.2	336.3	335.8	335.4	335.3	334.9	334.6	334.3	333.9
15.5°	335.2	335.5	335.5	335.6	335.0	334.7	334.6	334.3	333.8	333.3	333.3
16°	334.4	334.8	334.8	334.9	334.3	334.1	333.8	333.6	333.0	332.8	332.6
16.5°	333.7	333.9	334.0	334.1	333.6	333.3	333.1	332.8	332.3	332.0	331.8
17°	332.9	333.2	333.3	333.4	332.9	332.5	332.3	332.0	331.6	331.3	331.0
17.5°	332.1	332.5	332.5	332.5	332.0	331.8	331.5	331.2	330.7	330.5	330.1
18°	331.3	331.6	331.7	331.8	331.3	330.8	330.7	330.4	329.9	329.6	329.3
18.5°	330.5	330.8	330.8	330.9	330.3	330.0	329.8	329.4	329.0	328.6	328.3
19°	329.5	329.9	329.8	329.9	329.5	329.1	328.8	328.5	328.1	327.9	327.5
19.5°	328.7	328.9	328.9	329.0	328.5	328.2	328.0	327.6	327.2	326.8	326.9
20°	328.0	328.1	328.1	328.1	327.7	327.3	327.2	326.6	326.1	326.1	325.7
20.5°	326.8	327.0	327.1	327.2	326.7	326.3	326.1	325.7	325.1	324.9	324.6
21°	325.8	326.0	326.0	326.0	325.8	325.2	324.9	324.5	324.1	323.8	323.6
21.5°	324.8	325.0	325.0	325.0	324.6	324.1	323.9	323.5	322.9	322.8	322.7
22°	323.7	323.9	323.9	323.9	323.6	323.0	322.7	322.3	321.8	321.6	321.4



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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°	322.5	322.7	322.8	322.7	322.4	321.9	321.6	321.0	320.7	320.4	320.2
23°	321.4	321.6	321.5	321.6	321.2	320.6	320.3	319.9	319.5	319.0	319.1
23.5°	320.2	320.4	320.3	320.3	320.0	319.5	319.0	318.6	318.1	317.8	317.7
24°	319.0	319.1	319.1	319.0	318.7	318.2	317.7	317.3	316.9	316.6	316.4
24.5°	317.6	317.9	317.8	317.6	317.4	316.8	316.3	315.9	315.5	315.2	315.1
25°	316.3	316.5	316.4	316.2	316.0	315.4	314.9	314.6	314.2	313.8	313.7
25.5°	314.9	315.1	315.1	314.9	314.7	314.1	313.5	313.1	312.7	312.4	312.3
26°	313.5	313.7	313.7	313.4	313.2	312.6	312.1	311.6	311.2	311.1	311.0
26.5°	312.0	312.3	312.1	311.9	311.8	311.1	310.5	310.4	309.8	309.6	309.5
27°	310.7	310.8	310.8	310.5	310.4	309.4	309.0	308.5	308.2	308.0	307.9
27.5°	309.1	309.2	309.1	308.8	308.7	307.9	307.4	306.8	306.5	306.5	306.4
28°	307.5	307.7	307.5	307.2	307.1	306.3	305.7	305.3	304.9	304.8	304.7
28.5°	305.9	306.2	305.9	305.8	305.3	304.6	303.9	303.3	303.1	303.1	303.1
29°	304.3	304.4	304.2	303.8	303.7	302.9	302.3	301.8	301.4	301.5	301.4
29.5°	302.6	302.8	302.5	302.1	302.0	301.1	300.5	300.1	299.6	299.6	299.7
30°	300.8	301.0	300.6	300.3	300.2	299.2	298.6	298.2	297.8	297.8	297.9
30.5°	299.1	299.2	298.8	298.4	298.3	297.5	296.9	296.3	295.9	295.9	296.1
31°	297.3	297.2	297.1	296.4	296.5	295.5	294.9	294.4	294.0	294.0	294.2
31.5°	295.5	295.4	295.1	294.6	294.6	293.7	293.1	292.6	292.2	292.1	292.5
32°	293.7	293.7	293.3	292.8	292.7	291.8	291.2	290.6	290.2	290.1	290.6
32.5°	291.8	291.7	291.5	290.8	290.8	289.9	289.1	288.6	288.1	287.9	288.6
33°	289.8	289.8	289.5	288.9	288.8	287.8	287.0	286.5	286.0	286.1	286.6
33.5°	287.7	287.6	287.3	286.7	286.7	285.5	284.9	284.4	284.0	283.6	284.4
34°	285.6	285.6	285.2	284.5	284.7	283.5	282.7	282.1	281.8	281.8	282.2
34.5°	283.6	283.4	283.0	282.3	282.5	281.3	280.5	280.0	279.6	279.6	280.1
35°	281.3	281.3	280.9	280.1	280.3	279.1	278.2	277.7	277.0	277.4	277.9
35.5°	279.1	279.0	278.6	277.9	278.0	276.8	275.9	275.5	274.8	275.2	275.7
36°	276.9	276.8	276.4	275.7	275.7	274.5	273.6	273.2	272.7	272.9	273.4
36.5°	274.7	274.5	274.1	273.5	273.3	272.2	271.3	270.7	270.4	270.5	271.1
37°	272.3	272.2	271.7	271.4	270.9	269.8	268.9	268.3	268.1	268.1	268.8
37.5°	270.0	269.8	269.3	269.2	268.6	267.4	266.4	265.9	265.5	265.7	266.3
38°	267.6	267.3	266.9	267.0	266.1	265.0	264.0	263.5	263.1	263.3	263.9
38.5°	265.1	264.9	264.5	264.8	263.8	262.5	261.4	260.9	260.6	260.8	261.4
39°	262.7	262.5	262.0	262.6	261.3	260.0	259.1	258.5	258.1	258.4	259.1
39.5°	260.3	260.1	259.6	260.4	258.9	257.7	256.6	255.9	255.6	255.8	256.6
40°	257.9	257.6	256.9	258.2	256.3	254.9	253.9	253.4	253.0	253.3	254.0
40.5°	255.3	255.0	254.4	256.0	253.6	252.3	251.2	250.7	250.5	250.6	251.4
41°	252.6	252.4	251.7	253.9	250.8	249.7	248.6	248.0	247.8	248.0	248.8
41.5°	250.1	249.8	249.1	251.7	248.4	247.0	245.9	245.4	245.1	245.3	246.0
42°	247.4	247.1	246.5	249.5	245.7	244.3	243.1	242.6	242.4	242.6	243.5
42.5°	244.8	244.5	243.8	247.3	243.0	241.6	240.3	239.8	239.6	239.8	240.8
43°	242.3	241.9	241.1	245.1	240.2	238.8	237.6	237.1	236.8	237.1	238.1
43.5°	239.3	239.1	238.3	242.9	237.5	236.0	234.8	234.2	234.0	234.3	235.3
44°	236.6	236.4	235.5	240.7	234.6	233.1	231.9	231.4	231.2	231.5	232.3
44.5°	233.9	233.5	232.8	238.5	231.9	230.3	229.1	228.6	228.3	228.6	229.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	231.1	230.8	230.1	236.3	229.0	227.5	226.3	225.9	225.6	225.9	226.9
45.5°	228.4	228.0	227.2	234.2	226.2	224.7	223.5	223.0	222.8	223.2	224.3
46°	225.8	225.4	224.5	232.0	223.3	221.9	220.6	220.1	219.9	220.3	221.5
46.5°	222.9	222.6	221.7	229.8	220.5	218.9	217.7	217.2	217.0	217.5	218.6
47°	220.1	219.7	218.7	227.6	217.6	216.0	214.7	214.3	214.1	214.5	215.8
47.5°	217.2	216.6	215.9	225.4	214.7	213.0	211.7	211.3	211.2	211.6	212.9
48°	214.3	213.8	212.9	223.2	211.7	210.1	208.8	208.4	208.3	208.7	210.0
48.5°	211.5	211.1	210.1	221.0	208.9	207.2	205.7	205.4	205.2	205.8	207.1
49°	208.7	208.2	207.4	218.8	205.9	204.1	202.7	202.5	202.4	202.8	204.2
49.5°	205.8	205.1	204.3	216.7	202.9	201.2	199.8	199.5	199.4	199.8	201.2
50°	203.0	202.3	201.3	214.5	199.9	198.2	196.7	196.6	196.4	196.9	198.3
50.5°	199.9	199.4	198.4	212.3	196.8	195.2	193.7	193.5	193.4	193.9	195.4
51°	197.0	196.4	195.4	210.1	193.9	192.2	190.8	190.6	190.5	191.0	192.4
51.5°	194.1	193.4	192.5	207.9	191.0	189.3	187.8	187.6	187.4	188.2	189.6
52°	191.3	190.7	189.6	205.7	188.0	186.3	184.7	184.5	184.5	185.0	186.7
52.5°	188.3	187.6	186.8	203.5	184.9	183.1	181.7	181.5	181.4	182.1	183.7
53°	185.3	184.7	183.8	201.3	181.9	180.2	178.6	178.5	178.4	179.1	180.8
53.5°	182.3	181.6	180.7	199.2	178.9	177.1	175.6	175.5	175.3	176.1	177.8
54°	179.4	178.6	177.8	197.0	175.9	174.2	172.6	172.5	172.3	173.0	174.7
54.5°	176.3	175.7	174.9	194.8	172.9	171.1	169.5	169.5	169.3	170.0	171.8
55°	173.4	172.8	171.7	192.6	169.9	168.1	166.6	166.5	166.4	167.0	168.8
55.5°	170.4	169.7	168.8	190.4	166.8	165.1	163.5	163.5	163.3	164.1	165.8
56°	167.5	166.7	165.8	188.2	163.9	162.1	160.5	160.5	160.4	161.1	162.9
56.5°	164.5	163.7	162.9	186.0	160.9	159.2	157.7	157.6	157.5	158.2	159.8
57°	161.6	160.8	159.9	183.8	158.0	156.4	154.8	154.6	154.6	155.4	157.1
57.5°	158.7	157.9	157.0	181.7	155.2	153.4	151.8	151.7	151.6	152.5	154.1
58°	155.8	155.0	154.1	179.5	152.2	150.4	148.8	148.8	148.7	149.5	151.1
58.5°	152.9	152.1	151.1	177.3	149.3	147.4	145.9	145.9	145.7	146.5	148.2
59°	150.1	149.1	148.1	175.1	146.1	144.5	143.0	142.8	142.8	143.6	145.2
59.5°	147.0	146.1	145.2	172.9	143.3	141.5	140.2	139.9	139.8	140.8	142.3
60°	144.0	143.2	142.2	170.7	140.3	138.6	137.2	137.0	137.0	137.9	139.5
60.5°	141.2	140.3	139.2	168.5	137.4	135.6	134.3	134.1	134.1	135.0	136.5
61°	138.2	137.5	136.3	166.3	134.4	132.6	131.4	131.2	131.2	132.1	133.6
61.5°	135.3	134.5	133.5	164.2	131.5	129.7	128.6	128.3	128.3	129.2	130.7
62°	132.5	131.6	130.5	162.0	128.5	126.9	125.7	125.2	125.5	126.4	127.9
62.5°	129.6	128.8	127.7	159.8	125.7	123.9	123.0	122.5	122.6	123.7	124.9
63°	126.7	125.9	124.8	157.6	122.9	121.1	120.1	119.6	119.8	120.8	122.2
63.5°	124.0	123.3	122.1	155.4	119.9	118.3	117.3	116.8	116.9	117.9	119.4
64°	121.2	120.5	119.2	153.2	117.1	115.5	114.5	113.9	114.2	115.2	116.5
64.5°	118.4	117.6	116.3	151.0	114.2	112.5	111.7	111.1	111.4	112.4	113.7
65°	115.5	114.8	113.6	148.8	111.4	109.7	108.9	108.2	108.6	109.5	110.9
65.5°	112.8	112.1	110.7	146.6	108.5	107.0	106.1	105.5	105.8	106.8	108.2
66°	110.1	109.3	107.9	144.5	105.7	104.1	103.3	102.7	103.0	104.1	105.3
66.5°	107.3	106.8	105.1	142.3	102.9	101.4	100.6	99.9	100.3	101.3	102.6
67°	104.7	103.9	102.5	140.1	100.1	98.6	97.9	97.2	97.6	98.6	99.8





TEST NUMBER: P565403  
 CATALOG NUMBER: HLBQL6069FS1E-3500K-UNIT

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	102.0	101.2	99.6	137.9	97.4	95.8	95.2	94.4	94.9	95.9	97.2
68°	99.2	98.5	97.0	135.7	94.6	93.2	92.5	91.7	92.3	93.2	94.4
68.5°	96.6	95.9	94.3	133.5	92.0	90.4	89.9	89.3	89.8	90.6	91.8
69°	94.0	93.3	91.6	131.3	89.5	88.0	87.3	86.7	87.3	88.2	89.3
69.5°	91.3	90.7	89.1	129.1	86.7	85.4	84.7	84.0	84.7	85.6	86.7
70°	88.8	88.2	86.5	127.0	84.2	82.6	82.1	81.4	82.0	83.0	84.1
70.5°	86.3	85.7	83.9	124.8	81.6	80.1	79.5	78.8	79.6	80.4	81.5
71°	83.7	83.1	81.3	122.6	79.1	77.5	77.0	76.3	77.0	77.9	79.0
71.5°	81.1	80.6	78.7	120.4	76.5	75.0	74.4	73.7	74.6	75.4	76.5
72°	78.6	78.1	76.2	118.2	74.0	72.6	72.0	71.2	72.1	72.9	73.9
72.5°	76.1	75.4	73.7	116.0	71.6	70.1	69.5	68.8	69.6	70.4	71.5
73°	73.6	72.9	71.2	113.8	69.0	67.6	67.0	66.4	67.1	68.0	69.0
73.5°	71.1	70.4	68.8	111.6	66.6	65.2	64.6	63.9	64.8	65.6	66.6
74°	68.7	68.0	66.4	109.5	64.2	62.9	62.2	61.5	62.5	63.2	64.3
74.5°	66.3	65.6	64.0	107.3	61.9	60.6	59.9	59.2	60.1	60.9	61.9
75°	64.0	63.3	61.6	105.1	59.5	58.2	57.5	57.0	57.7	58.7	59.6
75.5°	61.6	60.8	59.3	102.9	57.2	55.8	55.3	54.8	55.6	56.3	57.3
76°	59.2	58.6	57.0	100.7	55.0	53.6	53.1	52.6	53.3	54.1	55.2
76.5°	56.9	56.4	54.8	98.5	52.7	51.5	50.8	50.3	51.0	51.8	52.9
77°	54.8	54.0	52.6	96.3	50.5	49.2	48.6	48.1	48.8	49.7	50.7
77.5°	52.5	51.8	50.3	94.1	48.2	47.0	46.3	46.0	46.7	47.5	48.6
78°	50.2	49.5	48.1	92.0	46.0	44.8	44.2	43.9	44.5	45.3	46.5
78.5°	48.0	47.3	45.9	89.8	43.8	42.7	41.9	41.7	42.4	43.1	44.3
79°	45.8	45.1	43.9	87.6	41.7	40.5	39.8	39.6	40.2	41.0	42.2
79.5°	43.7	42.9	41.6	85.4	39.6	38.4	37.8	37.5	38.1	38.9	40.1
80°	41.5	40.7	39.4	83.2	37.3	36.2	35.5	35.4	36.0	36.8	38.1
80.5°	39.4	38.7	37.3	81.0	35.2	34.1	33.5	33.4	34.0	34.7	36.0
81°	37.2	36.5	35.2	78.8	33.2	32.0	31.4	31.4	31.8	32.7	34.0
81.5°	35.2	34.5	33.1	76.6	31.2	30.0	29.3	29.3	29.8	30.6	31.9
82°	33.0	32.3	31.1	74.4	29.1	27.9	27.3	27.3	27.8	28.6	29.9
82.5°	31.0	30.3	29.1	72.3	27.0	26.0	25.3	25.3	25.8	26.6	27.9
83°	28.9	28.2	27.1	70.1	25.1	24.0	23.3	23.4	23.9	24.7	26.0
83.5°	27.0	26.3	24.9	67.9	23.1	22.1	21.6	21.7	22.0	22.8	24.0
84°	25.0	24.2	23.1	65.7	21.3	20.3	19.6	19.7	20.2	21.0	22.0
84.5°	23.0	22.5	21.3	63.5	19.4	18.3	17.7	17.9	18.3	19.1	20.4
85°	21.2	20.5	19.2	61.3	17.6	16.5	15.8	16.0	16.4	17.3	18.5
85.5°	19.3	18.5	17.4	59.1	15.7	14.7	14.0	14.2	14.6	15.4	16.7
86°	17.4	16.6	15.5	56.9	13.8	12.9	12.1	12.4	12.8	13.6	14.8
86.5°	15.6	14.8	13.6	54.8	12.0	11.0	10.3	10.6	11.1	11.8	13.1
87°	13.8	13.0	11.8	52.6	10.1	9.1	8.4	8.9	9.2	10.0	11.2
87.5°	11.8	11.1	10.1	50.4	8.3	7.3	6.7	7.0	7.4	8.3	9.5
88°	10.1	9.3	8.3	48.2	6.4	5.5	5.0	5.4	5.8	6.6	7.8
88.5°	8.2	7.5	6.5	46.0	4.7	3.7	3.3	3.6	4.0	4.8	6.0
89°	6.4	5.7	4.7	43.8	2.9	2.1	1.6	1.8	2.4	3.1	4.4
89.5°	4.7	4.0	3.0	41.6	1.4	0.7	0.5	0.4	0.7	1.5	2.7



TEST NUMBER: P565403  
 CATALOG NUMBER: HLBQL6069FS1E-3500K-UNIT

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	3.0	2.4	1.5	39.4	0.3	0.0	0.0	0.0	0.0	0.2	1.1
90.5°	1.5	0.9	0.3	37.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.5	0.2	0.1	35.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.1	0.1	0.1	32.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.1	0.1	0.1	30.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.1	0.1	0.1	28.5	0.0	0.0	0.0	0.1	0.0	0.0	0.0
93°	0.1	0.1	0.1	26.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0
93.5°	0.1	0.1	0.1	24.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.1	0.1	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.1	0.1	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.1	0.1	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.1	0.1	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.1	0.1	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.1	0.1	11.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
97°	0.0	0.1	0.1	8.8	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: P565403  
 CATALOG NUMBER: HLBQL6069FS1E-3500K-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: P565403

CATALOG NUMBER: HLBQL6069FS1E-3500K-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: P565403

CATALOG NUMBER: HLBQL6069FS1E-3500K-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: P565403  
CATALOG NUMBER: HLBQL6069FS1E-3500K-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: P565403

CATALOG NUMBER: HLBQL6069FS1E-3500K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	344.5	344.5	344.5	344.5	344.5	344.5
0.5°	344.5	344.5	344.4	344.5	344.5	344.5
1°	344.5	344.5	344.4	344.4	344.5	344.4
1.5°	344.3	344.5	344.4	344.4	344.5	344.4
2°	344.2	344.5	344.4	344.4	344.5	344.4
2.5°	344.2	344.5	344.4	344.4	344.5	344.4
3°	344.2	344.5	344.4	344.4	344.5	344.4
3.5°	344.1	344.5	344.4	344.5	344.6	344.4
4°	343.9	344.4	344.3	344.5	344.6	344.5
4.5°	343.5	344.2	344.1	344.3	344.4	344.5
5°	343.3	344.0	343.9	344.1	344.3	344.2
5.5°	342.9	343.8	343.6	343.9	344.0	344.0
6°	342.7	343.5	343.4	343.6	343.7	343.8
6.5°	342.4	343.2	343.1	343.3	343.5	343.5
7°	342.1	342.9	342.8	343.1	343.2	343.3
7.5°	341.8	342.6	342.5	342.8	342.9	343.0
8°	341.6	342.2	342.1	342.4	342.6	342.7
8.5°	341.1	341.8	341.8	342.1	342.2	342.4
9°	340.7	341.4	341.3	341.8	341.8	342.0
9.5°	340.2	341.1	340.9	341.3	341.4	341.6
10°	340.0	340.6	340.5	340.9	341.0	341.1
10.5°	339.5	340.2	340.0	340.4	340.7	340.8
11°	338.9	339.7	339.6	340.0	340.2	340.4
11.5°	338.3	339.2	339.2	339.6	339.6	339.9
12°	337.8	338.7	338.5	339.0	339.2	339.4
12.5°	337.3	338.1	338.1	338.4	338.6	338.8
13°	336.6	337.5	337.5	337.8	338.0	338.3
13.5°	336.0	336.9	336.9	337.2	337.5	337.7
14°	335.4	336.3	336.2	336.6	336.9	337.2
14.5°	334.8	335.7	335.6	335.9	336.3	336.5
15°	334.1	335.0	335.0	335.2	335.6	335.9
15.5°	333.4	334.2	334.3	334.5	334.9	335.2
16°	332.7	333.4	333.5	333.8	334.3	334.4
16.5°	331.9	332.7	332.7	333.1	333.5	333.7
17°	331.2	331.9	331.9	332.2	332.7	332.9
17.5°	330.3	331.1	331.1	331.5	331.9	332.1
18°	329.5	330.2	330.3	330.6	331.1	331.3
18.5°	328.6	329.3	329.4	329.8	330.2	330.5
19°	327.7	328.5	328.4	328.8	329.3	329.5
19.5°	327.1	327.5	327.6	328.1	328.4	328.7
20°	325.9	326.5	326.6	327.1	327.5	328.0
20.5°	324.9	325.5	325.6	326.1	326.6	326.8
21°	323.9	324.4	324.4	325.0	325.5	325.8
21.5°	322.8	323.3	323.4	324.1	324.4	324.8
22°	321.7	322.2	322.4	322.9	323.3	323.7



TEST NUMBER: P565403  
 CATALOG NUMBER: HLBQL6069FS1E-3500K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	320.5	321.0	321.1	321.8	322.2	322.5
23°	319.4	319.8	319.9	320.5	320.9	321.4
23.5°	318.2	318.6	318.7	319.3	319.7	320.2
24°	316.8	317.2	317.5	318.0	318.5	319.0
24.5°	315.5	315.9	316.1	316.8	317.2	317.6
25°	314.2	314.5	314.8	315.4	315.9	316.3
25.5°	312.8	313.3	313.4	314.0	314.4	314.9
26°	311.4	311.9	312.0	312.7	313.1	313.5
26.5°	310.0	310.3	310.5	311.2	311.7	312.0
27°	308.4	308.8	309.1	309.8	310.2	310.7
27.5°	306.8	307.3	307.5	308.1	308.7	309.1
28°	305.3	305.6	305.9	306.6	307.2	307.5
28.5°	303.7	304.0	304.3	305.0	305.6	305.9
29°	302.0	302.3	302.6	303.3	303.9	304.3
29.5°	300.3	300.6	300.9	301.7	302.3	302.6
30°	298.6	298.8	299.2	299.9	300.6	300.8
30.5°	296.8	296.9	297.4	298.1	298.8	299.1
31°	294.9	295.1	295.5	296.3	297.0	297.3
31.5°	293.2	293.3	293.9	294.6	295.1	295.5
32°	291.3	291.4	291.9	292.7	293.4	293.7
32.5°	289.2	289.5	290.0	290.8	291.5	291.8
33°	287.3	287.4	288.0	288.7	289.5	289.8
33.5°	285.4	285.4	285.9	286.7	287.5	287.7
34°	283.1	283.3	283.8	284.7	285.4	285.6
34.5°	281.1	281.1	281.7	282.5	283.3	283.6
35°	278.6	278.8	279.5	280.3	281.1	281.3
35.5°	276.5	276.6	277.3	278.2	278.9	279.1
36°	274.4	274.3	275.0	276.0	276.7	276.9
36.5°	271.6	272.0	272.8	273.7	274.3	274.7
37°	269.8	269.7	270.4	271.4	272.1	272.3
37.5°	267.3	267.2	268.1	269.0	269.8	270.0
38°	264.9	264.9	265.6	266.6	267.4	267.6
38.5°	262.6	262.4	263.2	264.2	264.9	265.1
39°	260.1	260.2	260.8	261.8	262.6	262.7
39.5°	257.8	257.6	258.5	259.4	260.2	260.3
40°	255.2	255.2	256.0	256.9	257.7	257.9
40.5°	252.7	252.5	253.3	254.4	255.2	255.3
41°	250.1	249.9	250.8	251.9	252.6	252.6
41.5°	247.4	247.4	248.3	249.2	250.0	250.1
42°	244.8	244.6	245.7	246.7	247.3	247.4
42.5°	242.1	242.1	243.1	244.0	244.6	244.8
43°	239.4	239.3	240.3	241.2	242.1	242.3
43.5°	236.8	236.5	237.7	238.7	239.4	239.3
44°	234.0	233.8	234.9	235.9	236.7	236.6
44.5°	231.2	231.1	232.2	233.2	233.9	233.9





TEST NUMBER: P565403

CATALOG NUMBER: HLBQL6069FS1E-3500K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	228.4	228.4	229.4	230.5	231.3	231.1
45.5°	225.7	225.7	226.6	227.6	228.5	228.4
46°	223.0	222.9	224.0	224.9	225.9	225.8
46.5°	220.2	220.0	221.2	222.2	222.9	222.9
47°	217.3	217.3	218.4	219.3	220.0	220.1
47.5°	214.5	214.4	215.5	216.5	217.3	217.2
48°	211.6	211.4	212.7	213.6	214.4	214.3
48.5°	208.6	208.8	209.8	210.9	211.6	211.5
49°	205.8	205.8	207.0	207.9	208.8	208.7
49.5°	202.8	203.0	204.1	205.1	205.9	205.8
50°	199.8	200.0	201.1	202.1	203.0	203.0
50.5°	196.9	197.1	198.3	199.3	200.1	199.9
51°	194.0	194.2	195.5	196.4	197.1	197.0
51.5°	191.2	191.4	192.5	193.3	194.2	194.1
52°	188.1	188.3	189.7	190.5	191.5	191.3
52.5°	185.0	185.5	186.8	187.4	188.5	188.3
53°	182.1	182.4	183.8	184.5	185.6	185.3
53.5°	179.0	179.5	180.8	181.6	182.7	182.3
54°	176.1	176.5	177.9	178.4	179.6	179.4
54.5°	173.0	173.6	175.1	175.6	176.7	176.3
55°	170.1	170.6	172.1	172.6	173.8	173.4
55.5°	167.1	167.6	169.0	169.6	170.8	170.4
56°	164.1	164.7	166.1	166.7	167.9	167.5
56.5°	161.2	161.7	163.1	163.7	164.9	164.5
57°	158.2	158.8	160.2	160.8	162.0	161.6
57.5°	155.4	155.9	157.4	157.9	159.0	158.7
58°	152.5	153.1	154.5	155.0	156.2	155.8
58.5°	149.5	150.2	151.6	152.2	153.2	152.9
59°	146.6	147.1	148.6	149.1	150.3	150.1
59.5°	143.7	144.1	145.7	146.4	147.3	147.0
60°	140.9	141.2	142.8	143.4	144.4	144.0
60.5°	138.0	138.3	139.9	140.5	141.5	141.2
61°	135.1	135.6	136.8	137.5	138.6	138.2
61.5°	132.3	132.5	133.8	134.9	135.6	135.3
62°	129.5	129.6	131.1	131.9	132.7	132.5
62.5°	126.7	126.8	128.3	129.1	129.8	129.6
63°	123.9	124.2	125.3	126.2	126.9	126.7
63.5°	121.2	121.3	122.7	123.7	124.2	124.0
64°	118.5	118.6	119.9	121.0	121.4	121.2
64.5°	115.7	115.6	117.1	118.1	118.7	118.4
65°	112.9	112.9	114.4	115.3	115.7	115.5
65.5°	110.2	110.1	111.6	112.7	113.0	112.8
66°	107.4	107.4	108.6	110.1	110.2	110.1
66.5°	104.7	104.7	106.0	107.5	107.4	107.3
67°	102.1	102.0	103.4	104.7	104.7	104.7



TEST NUMBER: P565403  
 CATALOG NUMBER: HLBQL6069FS1E-3500K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	99.3	99.3	100.6	102.0	102.1	102.0
68°	96.7	96.7	97.9	99.3	99.3	99.2
68.5°	94.1	94.0	95.3	96.7	96.6	96.6
69°	91.4	91.5	92.7	94.0	94.0	94.0
69.5°	89.0	89.0	90.3	91.4	91.2	91.3
70°	86.2	86.5	87.6	89.0	88.9	88.8
70.5°	83.8	83.9	85.2	86.4	86.3	86.3
71°	81.2	81.3	82.6	83.8	83.6	83.7
71.5°	78.6	78.8	79.9	81.3	81.1	81.1
72°	76.1	76.3	77.4	78.8	78.6	78.6
72.5°	73.6	73.9	75.0	76.2	76.1	76.1
73°	71.2	71.4	72.5	73.8	73.6	73.6
73.5°	68.7	69.1	70.1	71.3	71.1	71.1
74°	66.3	66.6	67.6	69.0	68.7	68.7
74.5°	64.0	64.2	65.3	66.5	66.3	66.3
75°	61.6	61.9	62.9	64.1	64.0	64.0
75.5°	59.3	59.5	60.6	61.6	61.5	61.6
76°	56.9	57.3	58.3	59.3	59.3	59.2
76.5°	54.8	55.1	56.2	57.0	57.1	56.9
77°	52.5	52.8	53.8	54.9	54.9	54.8
77.5°	50.3	50.6	51.9	52.5	52.6	52.5
78°	48.1	48.4	49.4	50.3	50.4	50.2
78.5°	45.9	46.3	47.3	48.1	48.2	48.0
79°	43.7	44.0	45.1	45.9	46.1	45.8
79.5°	41.7	41.9	43.0	43.6	43.9	43.7
80°	39.5	39.7	40.8	41.7	41.7	41.5
80.5°	37.5	37.7	38.9	39.5	39.7	39.4
81°	35.4	35.7	36.7	37.5	37.6	37.2
81.5°	33.4	33.5	34.7	35.4	35.5	35.2
82°	31.3	31.5	32.7	33.3	33.5	33.0
82.5°	29.3	29.6	30.6	31.3	31.5	31.0
83°	27.3	27.5	28.6	29.2	29.4	28.9
83.5°	25.3	25.6	26.7	27.3	27.4	27.0
84°	23.5	23.6	24.7	25.3	25.5	25.0
84.5°	21.7	21.9	22.9	23.3	23.5	23.0
85°	19.8	20.0	21.1	21.5	21.7	21.2
85.5°	18.0	18.3	19.1	19.6	19.8	19.3
86°	16.2	16.3	17.3	17.8	17.9	17.4
86.5°	14.3	14.4	15.4	16.0	16.0	15.6
87°	12.6	12.7	13.7	14.1	14.1	13.8
87.5°	10.8	10.9	11.9	12.3	12.4	11.8
88°	9.1	9.2	10.1	10.5	10.6	10.1
88.5°	7.3	7.5	8.4	8.7	8.8	8.2
89°	5.6	5.7	6.6	6.9	7.0	6.4
89.5°	4.0	4.0	4.8	5.3	5.4	4.7



TEST NUMBER: P565403  
 CATALOG NUMBER: HLBQL6069FS1E-3500K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	2.2	2.4	3.1	3.5	3.5	3.0
90.5°	0.8	1.1	1.6	2.0	1.9	1.5
91°	0.0	0.4	0.6	0.8	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: P565403  
 CATALOG NUMBER: HLBQL6069FS1E-3500K-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: P565403  
 CATALOG NUMBER: HLBQL6069FS1E-3500K-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	1.1	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: P565403  
CATALOG NUMBER: HLBQL6069FS1E-3500K-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: P565403  
CATALOG NUMBER: HLBQL6069FS1E-3500K-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)