

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: P522085

Luminaire Tested: **HLBQL6099BLE40AWH-3500K-UNIT**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1914661A001)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HLBQL6099BLE40AWH-3500K-UNIT
Description: Surface Mount Downlight Fixture, Single Unit
Light Source: (16) 3500K CCT, 95 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

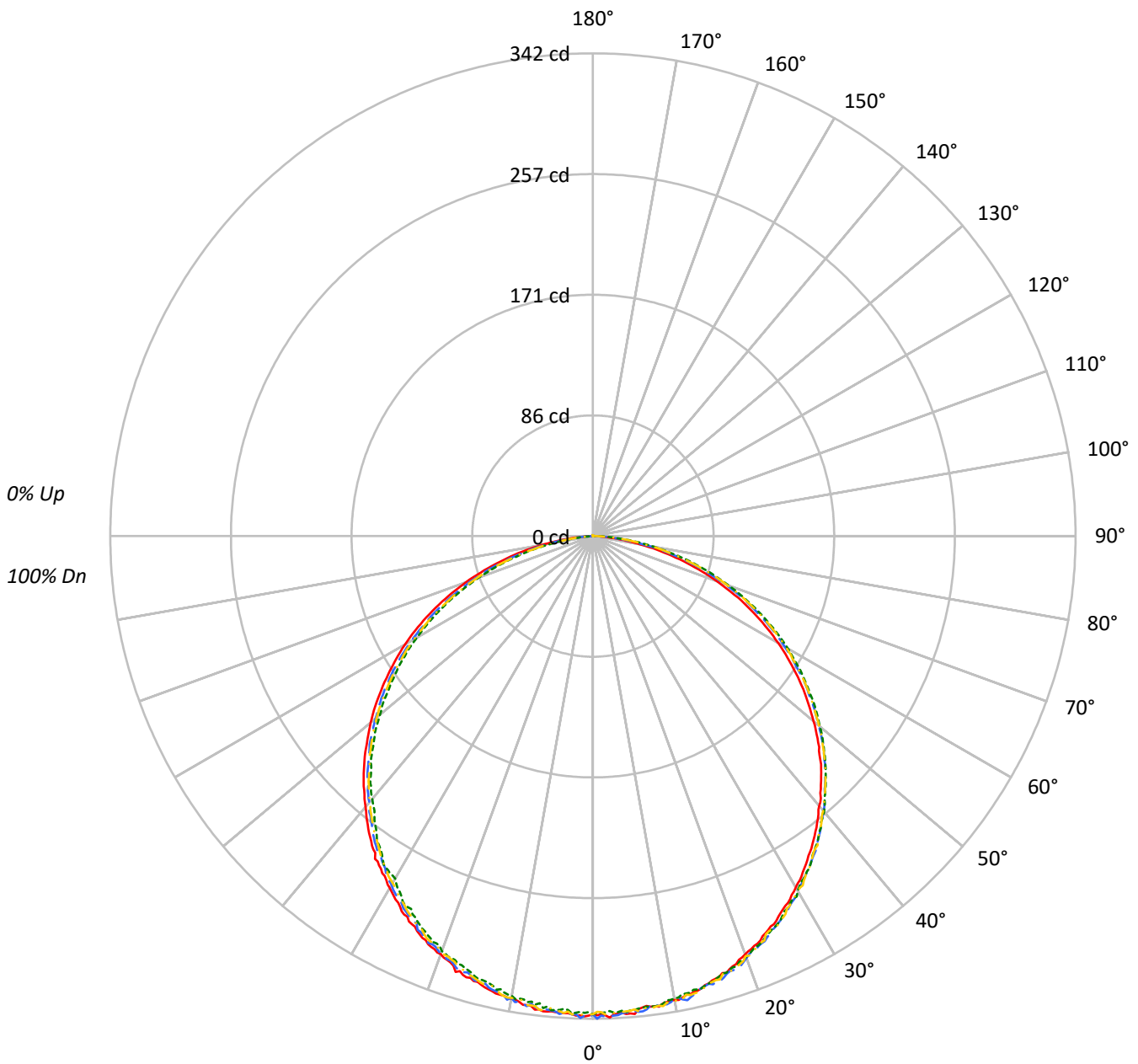
Lumens per Lamp: N/A
Luminaire Lumens: 975.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 0.5m x H: 0m)
CIE Type: Direct

Input Watts (W): 11.6
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			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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	1726	1726	1726	1726
5°	1738	1724	1727	1724
10°	1726	1720	1721	1711
15°	1719	1723	1721	1703
20°	1709	1720	1708	1696
25°	1705	1716	1705	1675
30°	1691	1706	1693	1648
35°	1679	1698	1686	1650
40°	1659	1695	1666	1618
45°	1647	1680	1651	1600
50°	1618	1665	1629	1562
55°	1587	1644	1601	1517
60°	1547	1627	1567	1469
65°	1485	1586	1511	1392
70°	1394	1528	1424	1282
75°	1250	1440	1299	1108
80°	1018	1296	1100	827
85°	643	1081	766	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	3.3
10°-20°	91.9	9.4
20°-30°	139.5	14.3
30°-40°	168.7	17.3
40°-50°	175.9	18.0
50°-60°	160.0	16.4
60°-70°	122.5	12.6
70°-80°	68.5	7.0
80°-90°	15.4	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.1	0.0
140°-150°	0.1	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	263.5	27.0
0°-40°	432.2	44.3
0°-60°	768.2	78.8
0°-90°	974.6	100.0
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	975.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	339	339	339	339	339	
5°	340	337	338	337	340	32
15°	326	327	326	323	326	92
25°	303	305	303	298	303	140
35°	270	273	271	265	270	169
45°	229	233	229	222	229	176
55°	179	185	180	171	179	160
65°	123	132	125	116	123	122
75°	64	73	66	56	64	67
85°	11	18	13	7	11	14
90°	0	1	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	338.9	338.9	338.9	338.9	338.9	338.9	338.9	338.9	338.9	338.9	338.9
0.5°	339.5	339.9	342.0	338.9	337.9	337.7	337.1	339.4	339.7	338.0	341.3
1°	338.9	339.5	339.8	337.7	337.9	338.8	337.4	338.1	340.3	340.4	340.0
1.5°	339.7	340.7	340.7	338.7	337.6	339.1	339.2	338.8	339.7	339.2	341.6
2°	341.4	342.9	340.5	340.8	336.7	339.3	339.1	338.8	339.9	338.8	339.1
2.5°	339.1	341.6	340.1	340.2	337.9	338.7	338.2	339.7	339.1	338.8	339.3
3°	338.8	339.4	339.9	339.9	337.7	339.3	337.8	339.4	338.5	339.2	338.3
3.5°	338.2	338.1	338.6	338.6	336.9	337.7	337.9	339.1	338.6	340.1	338.5
4°	339.4	339.1	338.3	339.1	338.1	338.9	337.5	338.0	338.5	339.8	339.4
4.5°	339.2	337.9	339.4	338.7	337.2	338.2	337.4	337.6	338.4	338.0	338.0
5°	340.0	337.6	337.8	338.7	337.2	337.8	336.6	337.3	337.9	337.2	337.4
5.5°	336.7	336.4	338.6	337.7	336.3	337.8	338.2	337.8	338.5	338.4	337.2
6°	335.9	337.4	338.6	337.6	336.0	337.2	338.8	338.1	338.6	337.7	337.1
6.5°	335.0	337.5	337.6	337.9	335.6	337.8	335.9	335.8	337.6	334.2	337.5
7°	335.9	337.4	335.1	337.8	335.8	337.7	337.4	335.9	338.0	335.9	336.2
7.5°	336.0	336.4	334.4	335.9	336.2	334.8	336.6	335.9	335.8	334.8	334.2
8°	336.7	335.9	336.1	337.0	335.5	334.5	335.9	335.5	335.5	333.8	336.3
8.5°	334.9	334.4	335.6	336.5	335.4	333.3	336.7	334.4	335.8	335.0	335.1
9°	334.3	333.2	335.9	335.5	333.0	335.1	334.7	334.7	334.2	333.7	334.0
9.5°	333.6	333.8	334.8	334.7	333.2	335.5	335.6	333.1	333.1	333.6	334.8
10°	333.8	334.8	332.7	334.9	332.6	333.2	334.9	333.6	332.8	333.0	332.3
10.5°	334.2	333.3	332.9	335.1	332.6	334.2	332.6	332.3	332.6	331.5	334.1
11°	333.0	331.5	334.4	332.9	330.8	333.1	333.8	333.0	331.7	331.1	331.4
11.5°	331.7	331.8	335.6	332.0	330.8	333.0	331.6	331.5	331.5	332.1	330.4
12°	331.8	330.9	333.8	333.2	330.7	331.5	332.6	330.3	331.3	328.1	329.7
12.5°	331.0	331.1	332.5	331.5	329.3	331.5	331.9	329.6	330.3	328.8	329.2
13°	330.5	331.0	330.9	330.8	329.6	329.2	331.7	328.6	329.4	328.5	328.4
13.5°	329.5	331.2	329.2	330.1	329.6	328.4	329.7	328.8	328.7	327.1	326.2
14°	327.9	329.9	328.6	328.7	328.4	328.5	329.7	327.3	327.6	326.6	326.6
14.5°	327.5	327.3	327.7	327.7	327.4	328.4	327.5	326.9	326.3	325.9	326.0
15°	326.1	325.6	328.9	326.2	326.8	327.1	327.1	325.9	326.4	324.6	325.6
15.5°	325.5	324.5	327.6	326.3	325.9	326.1	326.4	324.4	324.8	324.0	323.3
16°	324.8	324.5	327.8	326.0	324.7	325.4	326.8	324.4	325.2	323.0	321.7
16.5°	322.9	323.5	326.3	325.2	323.3	324.4	323.7	323.8	324.2	322.0	322.2
17°	323.8	323.5	324.4	324.3	323.5	324.2	323.4	323.5	322.4	321.6	320.4
17.5°	321.9	324.0	323.2	322.6	322.0	322.9	323.4	320.7	323.8	320.7	321.3
18°	320.5	321.9	323.3	322.3	321.2	321.5	322.8	321.3	320.0	319.8	318.9
18.5°	319.9	319.5	322.5	320.8	321.5	320.9	321.7	319.8	318.4	318.4	317.2
19°	317.5	318.2	321.9	319.7	319.0	319.7	320.6	318.2	317.6	317.7	317.2
19.5°	316.7	318.2	320.0	318.7	318.9	318.3	319.4	317.6	316.9	316.6	315.8
20°	315.4	317.1	318.2	317.7	317.3	317.4	316.7	316.7	315.2	315.0	315.2
20.5°	314.2	313.6	316.3	316.6	316.2	316.2	317.2	315.1	315.1	314.3	313.3
21°	313.3	313.6	315.1	315.4	314.6	314.6	316.0	313.9	313.4	311.9	311.5
21.5°	312.0	314.3	315.0	314.3	313.2	314.2	314.3	312.8	312.9	311.0	310.8
22°	311.5	312.2	313.3	314.1	312.8	312.4	313.5	311.4	311.9	310.6	311.1



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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°	310.1	310.8	312.4	312.3	311.7	311.0	311.7	310.6	309.9	309.2	308.7
23°	307.9	310.7	311.9	312.1	310.3	310.9	311.2	310.3	309.3	307.4	307.5
23.5°	306.8	308.9	309.9	310.1	308.5	308.7	307.5	308.8	307.8	306.6	306.0
24°	305.4	307.2	308.6	309.1	307.5	307.5	306.4	307.0	306.2	304.8	305.5
24.5°	304.0	306.2	306.8	307.6	306.2	306.9	306.3	305.9	304.2	303.2	301.4
25°	303.4	304.4	305.6	306.0	305.3	305.3	305.7	303.4	303.4	301.9	301.3
25.5°	301.9	302.9	304.3	305.3	304.4	303.6	305.2	302.8	302.6	300.8	299.9
26°	299.9	301.4	303.0	304.4	302.9	302.8	303.0	301.1	300.0	299.7	298.6
26.5°	298.4	300.6	301.4	302.4	300.9	301.9	301.9	300.4	299.7	298.9	297.1
27°	296.7	298.7	300.3	300.4	298.6	300.2	300.6	298.3	298.3	296.4	296.0
27.5°	295.3	296.6	298.8	299.2	297.8	298.8	297.8	296.5	296.1	294.6	293.4
28°	294.4	296.0	297.0	297.7	296.3	296.7	296.7	295.3	294.1	293.1	291.7
28.5°	292.8	293.5	295.3	296.0	294.4	295.5	295.2	293.5	293.0	292.0	290.9
29°	290.6	291.8	294.2	294.3	293.4	294.1	293.4	292.8	291.3	290.0	289.2
29.5°	289.4	291.1	292.6	292.2	293.3	292.3	291.8	289.6	289.7	287.2	287.7
30°	287.6	289.4	291.0	291.4	290.1	290.6	290.5	288.8	287.9	286.0	285.3
30.5°	285.8	287.1	289.0	289.7	288.3	289.2	289.1	287.8	286.6	284.8	283.9
31°	284.6	285.7	287.3	287.2	286.1	287.9	288.8	285.8	284.2	283.2	282.1
31.5°	282.8	284.2	285.4	285.4	285.2	286.1	286.2	282.7	282.5	281.3	280.6
32°	280.8	281.8	283.8	284.2	284.0	283.9	284.2	282.2	281.8	279.5	277.7
32.5°	279.0	280.4	282.4	282.6	282.0	282.8	281.5	280.5	279.4	278.1	276.0
33°	277.2	278.5	280.5	281.1	281.0	281.4	281.0	279.1	278.3	275.8	274.3
33.5°	275.3	277.4	279.0	279.2	279.3	279.3	279.2	276.7	276.4	274.2	272.3
34°	273.3	275.5	277.2	277.9	277.2	276.7	276.9	275.0	276.0	272.5	271.2
34.5°	271.7	273.7	275.5	275.3	274.7	275.1	274.9	273.9	272.3	270.8	269.9
35°	270.1	271.6	274.1	273.9	273.1	273.6	273.1	272.2	271.1	269.1	267.8
35.5°	267.8	269.6	272.5	272.2	271.3	271.9	271.7	270.1	269.5	266.5	266.2
36°	266.0	267.5	270.3	270.4	269.8	270.2	270.8	268.2	267.1	265.0	264.1
36.5°	264.2	265.7	268.0	268.4	268.1	268.0	267.7	266.2	265.3	263.5	262.0
37°	262.0	263.7	266.2	266.3	265.8	266.2	265.6	264.5	263.5	261.9	259.7
37.5°	260.3	261.6	264.3	264.0	263.9	264.1	264.7	262.5	261.4	259.6	257.4
38°	257.9	259.7	262.3	262.4	262.3	262.3	262.0	260.5	259.2	257.6	255.5
38.5°	256.2	257.9	260.5	260.4	259.4	260.5	260.1	258.4	257.1	255.7	253.3
39°	253.9	255.9	258.3	258.6	258.1	258.4	257.7	256.5	255.0	252.4	251.7
39.5°	251.3	254.1	256.1	256.2	256.7	256.4	255.3	254.5	252.6	251.4	249.5
40°	249.5	252.0	254.4	254.2	254.9	254.2	254.0	252.4	250.6	249.3	246.6
40.5°	248.1	249.8	252.5	252.0	252.8	252.3	251.9	250.4	248.6	246.5	244.7
41°	246.1	247.5	249.9	250.2	250.5	250.3	249.6	248.1	246.6	244.0	242.5
41.5°	243.1	245.4	247.9	248.2	247.6	248.2	247.7	245.9	244.4	242.2	240.8
42°	241.4	243.2	245.7	246.1	245.9	246.4	245.6	243.8	242.3	240.2	237.8
42.5°	239.2	240.8	242.9	244.1	244.0	244.1	243.6	241.4	240.4	237.9	236.5
43°	237.1	239.1	241.2	241.8	241.9	241.8	241.4	239.5	238.2	236.0	234.3
43.5°	234.9	237.2	239.1	239.7	239.7	239.7	239.3	237.4	236.0	233.8	232.0
44°	232.9	234.9	237.0	237.6	237.5	237.6	237.1	235.2	233.8	231.2	229.6
44.5°	230.8	232.5	234.7	235.5	235.3	235.6	235.1	233.1	231.6	229.0	227.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	228.7	230.2	232.6	233.1	233.2	233.3	232.8	230.8	229.2	226.9	224.8
45.5°	226.0	228.0	230.7	231.0	230.9	231.0	230.6	228.4	226.8	224.5	222.8
46°	223.3	225.8	228.1	228.8	228.7	228.8	228.2	226.0	224.8	222.3	220.1
46.5°	220.7	223.6	225.8	226.5	226.5	226.5	225.9	223.8	222.3	220.0	218.1
47°	219.3	220.9	223.6	224.2	224.1	224.3	223.6	221.6	219.7	217.6	216.3
47.5°	216.6	218.7	221.3	222.0	221.9	222.4	221.2	219.0	217.3	215.0	213.5
48°	214.2	216.5	219.3	219.9	219.5	219.9	218.8	216.7	215.1	212.5	211.0
48.5°	211.5	214.4	216.5	217.3	217.4	217.3	216.5	214.4	212.6	209.9	208.5
49°	209.1	211.5	214.2	215.2	215.1	214.8	214.2	212.1	210.2	207.8	206.1
49.5°	206.8	208.9	211.3	212.9	212.6	212.4	211.9	209.8	207.8	205.5	203.6
50°	204.2	206.7	209.1	210.2	210.2	210.0	209.3	207.5	205.6	203.1	201.1
50.5°	201.6	204.1	206.3	207.2	207.7	207.5	206.8	204.7	203.1	200.5	198.3
51°	199.1	201.6	204.0	205.2	205.4	205.5	204.1	202.6	200.6	197.9	196.2
51.5°	196.6	199.1	201.6	202.7	202.9	203.2	201.5	200.3	198.2	195.4	194.0
52°	194.0	196.3	199.2	200.3	200.6	200.5	199.1	197.7	195.7	192.8	191.2
52.5°	191.5	194.3	196.6	197.8	198.2	198.0	196.8	194.8	193.1	190.3	189.0
53°	189.1	191.8	194.1	195.2	195.7	195.4	194.4	192.5	190.4	187.8	186.1
53.5°	186.7	189.0	191.3	192.4	193.0	192.9	191.8	190.0	187.9	185.3	183.7
54°	184.4	186.4	188.9	189.6	190.1	190.5	189.3	187.9	185.3	182.9	180.9
54.5°	181.3	183.9	186.6	187.3	187.9	188.2	186.9	185.1	182.9	180.4	178.1
55°	178.7	181.5	184.1	184.8	185.2	185.7	184.4	182.3	180.3	177.7	175.8
55.5°	176.2	178.9	181.6	182.0	182.7	183.1	181.8	179.8	177.5	175.1	173.3
56°	173.4	176.2	179.1	179.5	180.2	180.4	179.2	177.0	175.0	172.5	170.7
56.5°	170.6	173.5	176.1	177.1	177.9	177.9	176.5	174.8	172.4	169.9	167.7
57°	167.9	170.7	172.9	174.3	175.4	175.3	173.7	171.9	169.6	167.2	165.2
57.5°	165.3	167.9	170.5	171.5	172.7	172.7	171.1	169.5	167.0	164.7	162.5
58°	162.6	165.2	167.9	168.9	169.9	169.8	168.4	166.6	164.5	161.8	159.7
58.5°	160.1	162.8	165.3	166.3	167.3	167.1	165.8	163.9	161.9	158.9	157.0
59°	157.3	159.9	162.5	164.0	164.7	164.5	163.6	160.9	159.3	156.1	154.0
59.5°	154.4	157.2	159.8	160.9	162.3	162.0	160.9	158.4	156.5	153.4	151.3
60°	151.9	154.3	157.2	158.4	159.7	159.3	158.2	155.4	153.8	150.8	148.3
60.5°	148.8	151.9	154.4	155.7	156.8	156.6	155.5	153.1	151.1	148.0	145.8
61°	146.2	149.0	151.7	153.0	154.0	153.8	152.7	150.2	148.3	145.2	142.8
61.5°	143.4	146.3	148.7	150.1	151.3	151.2	149.8	147.8	145.4	142.4	140.1
62°	140.6	143.3	146.1	147.3	148.7	148.5	147.2	144.8	142.6	139.6	136.9
62.5°	137.6	140.5	143.3	144.7	146.0	145.7	144.5	142.1	139.8	136.8	134.1
63°	134.7	137.6	140.4	142.0	143.1	143.0	141.7	138.9	136.9	134.0	131.2
63.5°	131.9	134.7	137.5	138.8	140.2	140.2	138.9	136.3	134.1	131.0	128.5
64°	129.0	131.7	134.6	135.8	137.5	137.3	136.1	133.2	131.1	128.0	125.8
64.5°	126.1	129.1	131.6	133.3	134.5	134.4	133.3	130.6	128.2	125.3	122.8
65°	123.2	126.3	128.7	130.6	131.6	131.4	130.4	127.7	125.4	122.6	119.7
65.5°	120.4	123.5	126.0	127.8	128.8	128.7	127.5	124.8	122.5	119.7	116.7
66°	117.5	120.6	123.2	124.7	125.9	125.5	124.6	121.7	119.5	116.5	113.9
66.5°	114.6	117.3	120.3	121.7	123.0	122.9	121.6	118.9	116.5	113.6	111.0
67°	111.9	114.7	117.3	118.7	120.1	120.0	118.7	115.9	113.6	110.7	107.9



TEST NUMBER: P522085

CATALOG NUMBER: HLBQL6099BLE40AWH-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	108.5	111.8	114.6	115.7	117.1	117.0	115.9	113.1	110.6	107.8	105.0
68°	105.4	108.7	111.9	113.2	114.4	114.2	112.7	110.0	107.6	104.8	102.1
68.5°	102.4	105.6	108.5	110.0	111.4	111.3	109.9	107.1	104.6	101.6	99.0
69°	99.4	102.6	105.5	106.8	108.3	108.3	106.9	104.1	101.6	98.7	96.1
69.5°	96.4	99.5	102.5	103.8	105.5	105.4	103.9	101.1	98.6	95.7	93.4
70°	93.6	96.5	99.5	101.0	102.6	102.4	101.0	98.3	95.6	92.9	90.2
70.5°	90.7	93.6	96.5	98.0	99.4	99.5	98.0	95.3	92.8	89.9	87.3
71°	87.7	90.5	93.6	94.9	96.4	96.4	95.0	92.5	89.8	86.9	84.2
71.5°	84.7	87.8	90.5	92.2	93.5	93.5	92.1	89.5	86.9	83.8	81.4
72°	81.5	84.7	87.5	89.3	90.7	90.6	89.2	86.5	83.7	80.9	78.5
72.5°	78.6	81.8	84.3	86.2	87.8	87.7	86.1	83.6	80.8	78.0	75.5
73°	75.5	78.7	81.3	83.2	85.0	84.7	83.0	80.6	77.6	75.1	72.4
73.5°	72.5	75.6	78.5	80.3	81.8	81.6	80.0	77.7	74.9	71.8	69.5
74°	69.7	72.5	75.6	77.1	79.0	78.8	77.1	74.6	71.9	69.0	66.4
74.5°	66.5	69.6	72.4	74.2	76.1	75.9	74.2	71.7	68.9	66.0	63.3
75°	63.5	66.6	69.5	71.2	73.2	72.9	71.2	68.8	66.0	63.0	60.4
75.5°	60.5	63.6	66.4	68.4	70.2	69.9	68.4	65.9	63.1	60.1	57.6
76°	57.7	60.6	63.4	65.3	67.3	66.8	65.5	62.9	60.1	57.3	54.7
76.5°	54.7	57.8	60.4	62.6	64.2	64.0	62.4	59.9	57.3	54.3	51.8
77°	51.5	54.8	57.6	59.5	61.3	61.0	59.5	57.2	54.5	51.5	48.8
77.5°	49.0	51.9	54.7	56.5	58.5	58.2	56.8	54.3	51.7	48.6	46.1
78°	46.0	49.0	51.8	53.6	55.5	55.2	53.9	51.3	48.7	45.8	43.3
78.5°	43.3	46.1	48.8	50.7	52.7	52.3	50.9	48.5	45.8	43.1	40.5
79°	40.4	43.4	45.9	47.8	49.8	49.5	48.1	45.7	43.0	40.1	37.7
79.5°	37.5	40.4	43.2	44.8	46.8	46.5	45.3	43.0	40.2	37.4	35.0
80°	34.7	37.7	40.5	42.0	44.2	43.9	42.5	40.1	37.5	34.8	32.3
80.5°	32.2	34.9	37.5	39.2	41.4	41.1	39.7	37.4	34.8	32.1	29.8
81°	29.3	32.2	34.7	36.5	38.7	38.5	37.0	34.8	32.2	29.4	27.1
81.5°	26.8	29.7	32.1	33.7	35.9	35.7	34.3	32.1	29.5	26.7	24.5
82°	24.3	27.0	29.4	31.0	33.3	32.9	31.6	29.5	26.9	24.3	22.2
82.5°	22.0	24.4	26.9	28.4	30.6	30.4	29.1	26.9	24.4	22.1	19.9
83°	19.6	22.2	24.3	25.9	28.0	27.9	26.5	24.5	22.2	19.7	17.7
83.5°	17.3	19.8	22.0	23.5	25.6	25.3	24.0	22.1	19.7	17.4	15.3
84°	15.1	17.4	19.6	21.2	23.1	22.8	21.8	19.9	17.5	15.2	13.2
84.5°	13.0	15.2	17.3	18.8	20.9	20.7	19.4	17.5	15.2	13.1	11.1
85°	11.0	13.2	15.1	16.4	18.5	18.4	17.1	15.3	13.1	11.0	9.2
85.5°	9.2	11.1	13.0	14.2	16.3	16.1	15.0	13.1	11.0	9.0	7.3
86°	7.3	9.2	10.9	12.3	14.1	13.9	12.8	11.1	9.1	7.2	5.7
86.5°	5.8	7.4	9.3	10.3	12.0	11.7	10.8	9.1	7.3	5.7	4.2
87°	4.3	5.8	7.3	8.5	10.1	9.8	8.8	7.3	5.7	4.1	2.8
87.5°	2.9	4.4	5.8	6.9	8.4	8.2	7.1	5.7	4.2	2.7	1.7
88°	1.9	3.1	4.3	5.2	6.5	6.4	5.4	4.2	2.8	1.7	0.7
88.5°	0.9	2.0	2.9	3.8	5.0	4.7	4.1	2.8	1.6	0.6	0.0
89°	0.3	1.0	1.9	2.7	3.5	3.2	2.5	1.8	0.6	0.0	0.0
89.5°	0.0	0.4	0.9	1.7	2.1	2.0	1.4	0.7	0.0	0.0	0.0



TEST NUMBER: P522085
 CATALOG NUMBER: HLBQL6099BLE40AWH-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.3	0.8	1.0	0.9	0.4	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P522085
 CATALOG NUMBER: HLBQL6099BLE40AWH-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.5°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.5°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126.5°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128.5°	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129.5°	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.5°	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131.5°	0.3	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.2	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.2	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P522085

CATALOG NUMBER: HLBQL6099BLE40AWH-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.1	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0
135.5°	0.1	0.3	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.1	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136.5°	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138.5°	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.1	0.2	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139.5°	0.1	0.2	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.5°	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0
141°	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.0
141.5°	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.0
143.5°	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0
144°	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1
144.5°	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.1
145°	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.2	0.1	0.1
145.5°	0.1	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.1
146°	0.1	0.2	0.1	0.2	0.0	0.0	0.1	0.0	0.1	0.1	0.1
146.5°	0.1	0.2	0.1	0.2	0.0	0.1	0.1	0.0	0.2	0.1	0.1
147°	0.1	0.2	0.1	0.2	0.0	0.1	0.1	0.0	0.2	0.1	0.1
147.5°	0.1	0.2	0.1	0.2	0.0	0.1	0.1	0.1	0.2	0.1	0.1
148°	0.1	0.2	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.2	0.1
148.5°	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1
149°	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1
149.5°	0.1	0.2	0.1	0.2	0.0	0.1	0.1	0.1	0.2	0.3	0.1
150°	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.0	0.1
150.5°	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1
151°	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1
151.5°	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.2
152°	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.2
152.5°	0.1	0.3	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.2
153°	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2
153.5°	0.1	0.3	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.2
154°	0.1	0.3	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.2
154.5°	0.1	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.3
155°	0.1	0.3	0.1	0.2	0.1	0.3	0.2	0.2	0.2	0.1	0.3
155.5°	0.1	0.3	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.3
156°	0.1	0.5	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.3
156.5°	0.1	0.5	0.1	0.2	0.1	0.2	0.3	0.2	0.2	0.1	0.4
157°	0.1	0.5	0.1	0.2	0.1	0.3	0.3	0.2	0.2	0.1	0.3



TEST NUMBER: P522085

CATALOG NUMBER: HLBQL6099BLE40AWH-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.1	0.5	0.1	0.2	0.0	0.2	0.3	0.2	0.2	0.1	0.3
158°	0.1	0.5	0.1	0.2	0.0	0.3	0.3	0.2	0.2	0.1	0.4
158.5°	0.1	0.5	0.1	0.2	0.0	0.3	0.3	0.2	0.2	0.1	0.4
159°	0.1	0.5	0.1	0.2	0.0	0.4	0.3	0.2	0.2	0.1	0.5
159.5°	0.1	0.5	0.1	0.2	0.0	0.3	0.3	0.2	0.2	0.1	0.5
160°	0.1	0.5	0.1	0.2	0.0	0.3	0.3	0.2	0.2	0.1	0.5
160.5°	0.1	0.5	0.1	0.2	0.0	0.3	0.3	0.2	0.2	0.1	0.5
161°	0.1	0.5	0.1	0.2	0.0	0.3	0.3	0.2	0.2	0.1	0.5
161.5°	0.1	0.5	0.1	0.2	0.0	0.3	0.3	0.2	0.2	0.1	0.5
162°	0.1	0.5	0.1	0.2	0.0	0.4	0.4	0.2	0.2	0.1	0.5
162.5°	0.1	0.5	0.1	0.2	0.0	0.3	0.4	0.2	0.2	0.1	0.5
163°	0.1	0.5	0.1	0.2	0.0	0.3	0.4	0.2	0.2	0.1	0.5
163.5°	0.1	0.6	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.1	0.5
164°	0.1	0.6	0.1	0.2	0.0	0.5	0.4	0.2	0.2	0.1	0.5
164.5°	0.1	0.4	0.1	0.2	0.0	0.4	0.4	0.2	0.2	0.1	0.7
165°	0.1	0.6	0.1	0.2	0.0	0.4	0.5	0.2	0.2	0.1	0.7
165.5°	0.1	0.7	0.1	0.2	0.0	0.4	0.5	0.2	0.2	0.1	0.6
166°	0.1	0.7	0.1	0.2	0.0	0.4	0.5	0.2	0.2	0.1	0.6
166.5°	0.1	0.7	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.1	0.6
167°	0.1	0.7	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.1	0.6
167.5°	0.1	0.7	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.1	0.6
168°	0.1	0.2	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.2	0.6
168.5°	0.1	0.2	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.1	0.6
169°	0.1	0.4	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.2	0.6
169.5°	0.1	0.4	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.6	0.6
170°	0.1	0.4	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.6	0.6
170.5°	0.1	1.0	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.7	0.6
171°	0.1	1.0	0.1	0.2	0.0	0.5	0.6	0.2	0.2	0.6	0.6
171.5°	0.1	0.9	0.2	0.2	0.0	0.5	0.5	0.2	0.2	0.3	0.6
172°	0.1	0.9	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.7	0.6
172.5°	0.1	0.9	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.3	0.6
173°	0.1	0.8	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.3	0.6
173.5°	0.1	0.8	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.2	0.6
174°	0.1	0.8	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.2	0.6
174.5°	0.1	0.8	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.1	0.6
175°	0.1	0.8	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.1	0.6
175.5°	0.1	0.8	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.1	0.6
176°	0.1	0.8	0.1	0.2	0.0	0.5	0.5	0.2	0.2	0.1	0.6
176.5°	0.1	0.7	0.1	0.2	0.0	0.5	0.6	0.2	0.2	0.1	0.6
177°	0.1	0.7	0.1	0.2	0.0	0.5	0.6	0.2	0.2	0.1	0.6
177.5°	0.1	0.7	0.1	0.2	0.0	0.5	0.6	0.2	0.2	0.1	0.6
178°	0.1	0.7	0.1	0.2	0.0	0.5	0.6	0.2	0.2	0.1	0.6
178.5°	0.1	0.7	0.1	0.2	0.0	0.5	0.7	0.2	0.2	0.1	0.6
179°	0.1	0.6	0.1	0.2	0.0	0.5	0.7	0.2	0.2	0.1	0.6
179.5°	0.1	0.6	0.1	0.2	0.0	0.5	0.7	0.2	0.2	0.1	0.6



TEST NUMBER: P522085

CATALOG NUMBER: HLBQL6099BLE40AWH-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P522085

CATALOG NUMBER: HLBQL6099BLE40AWH-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	338.9	338.9	338.9	338.9	338.9	338.9
0.5°	338.5	337.2	337.2	339.1	337.6	339.5
1°	338.4	338.0	337.4	338.7	338.4	338.9
1.5°	337.4	337.2	338.4	339.3	339.3	339.7
2°	338.3	337.8	337.3	338.4	339.8	341.4
2.5°	337.2	338.5	336.4	339.3	339.2	339.1
3°	337.9	336.2	337.0	337.4	338.7	338.8
3.5°	337.8	335.7	337.5	338.4	337.6	338.2
4°	337.2	336.5	335.7	337.6	336.3	339.4
4.5°	336.7	336.7	336.7	336.9	336.9	339.2
5°	337.3	337.3	337.8	335.7	337.0	340.0
5.5°	336.7	334.9	336.1	336.5	335.0	336.7
6°	334.2	336.3	336.3	338.0	335.1	335.9
6.5°	335.7	333.2	335.1	337.5	335.1	335.0
7°	336.1	334.5	334.2	335.6	336.5	335.9
7.5°	334.9	332.6	334.8	335.4	337.3	336.0
8°	335.0	333.4	334.2	335.5	334.9	336.7
8.5°	334.0	331.9	333.1	332.2	333.9	334.9
9°	332.9	331.9	333.3	332.9	331.0	334.3
9.5°	330.5	332.6	330.4	332.9	332.9	333.6
10°	332.2	330.9	329.8	332.3	331.8	333.8
10.5°	330.3	330.4	331.8	332.6	331.7	334.2
11°	330.4	329.3	329.9	331.9	331.7	333.0
11.5°	329.3	327.7	329.6	330.7	329.8	331.7
12°	328.2	328.6	329.4	328.2	328.2	331.8
12.5°	327.7	326.5	328.2	326.6	326.7	331.0
13°	327.5	325.4	327.1	326.6	326.6	330.5
13.5°	325.3	324.6	325.2	327.1	326.5	329.5
14°	325.5	324.1	324.5	326.3	325.9	327.9
14.5°	323.8	324.2	324.2	325.2	325.7	327.5
15°	323.4	323.0	322.6	324.2	325.2	326.1
15.5°	322.4	321.3	322.1	323.3	324.4	325.5
16°	322.3	320.1	320.6	322.4	321.7	324.8
16.5°	321.3	319.3	319.3	321.1	321.2	322.9
17°	319.4	317.9	318.8	320.3	320.7	323.8
17.5°	319.1	317.8	318.3	319.3	318.8	321.9
18°	317.7	315.8	317.3	317.1	318.1	320.5
18.5°	316.2	315.3	315.8	316.4	317.1	319.9
19°	316.8	315.0	315.0	315.2	316.2	317.5
19.5°	314.6	313.6	313.3	314.9	314.5	316.7
20°	313.3	312.9	312.9	313.6	314.4	315.4
20.5°	311.6	310.1	312.4	311.6	312.9	314.2
21°	310.0	309.2	310.1	311.3	312.0	313.3
21.5°	308.5	309.1	309.5	310.0	310.6	312.0
22°	308.6	307.4	307.0	309.1	308.7	311.5



TEST NUMBER: P522085

CATALOG NUMBER: HLBQL6099BLE40AWH-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	307.2	306.0	305.5	308.2	307.2	310.1
23°	305.7	304.4	305.0	306.3	306.7	307.9
23.5°	304.2	303.3	304.1	304.0	305.3	306.8
24°	301.2	301.5	302.9	303.6	304.5	305.4
24.5°	299.6	299.9	301.3	302.0	302.0	304.0
25°	298.8	298.0	299.1	300.4	300.5	303.4
25.5°	299.4	296.9	297.5	298.6	299.2	301.9
26°	297.2	293.9	296.2	297.4	297.9	299.9
26.5°	295.8	293.9	294.3	295.8	297.1	298.4
27°	293.7	293.5	292.8	293.7	296.0	296.7
27.5°	292.1	291.9	291.2	292.3	293.9	295.3
28°	290.2	289.0	290.0	290.6	291.9	294.4
28.5°	288.9	286.8	288.3	289.1	290.5	292.8
29°	287.1	285.4	285.9	286.9	288.6	290.6
29.5°	285.4	283.0	284.5	285.3	286.4	289.4
30°	283.6	280.3	283.3	283.8	284.9	287.6
30.5°	282.1	279.3	281.0	282.5	283.0	285.8
31°	280.1	279.1	279.5	281.1	281.7	284.6
31.5°	277.9	277.7	277.4	279.0	279.4	282.8
32°	276.2	276.9	274.9	277.2	278.0	280.8
32.5°	274.3	275.9	273.3	275.5	276.2	279.0
33°	272.7	273.3	271.6	273.5	274.4	277.2
33.5°	271.2	270.8	269.9	272.1	272.6	275.3
34°	269.5	268.6	268.1	270.0	270.5	273.3
34.5°	267.8	267.0	266.3	267.8	268.7	271.7
35°	265.7	265.4	264.3	265.9	266.9	270.1
35.5°	263.9	263.6	262.5	264.0	264.7	267.8
36°	261.8	260.7	260.6	262.1	262.7	266.0
36.5°	259.9	258.3	258.8	260.5	260.6	264.2
37°	257.9	256.4	256.9	258.3	258.8	262.0
37.5°	256.0	254.2	255.1	256.4	256.7	260.3
38°	254.0	251.5	253.1	254.4	254.7	257.9
38.5°	251.8	248.7	251.0	252.3	252.9	256.2
39°	249.4	247.0	248.8	250.4	250.7	253.9
39.5°	247.5	245.1	246.9	248.0	249.1	251.3
40°	245.1	243.3	244.4	246.2	247.0	249.5
40.5°	242.9	241.5	242.0	243.8	244.9	248.1
41°	240.9	239.6	239.9	241.6	243.0	246.1
41.5°	239.0	237.1	237.5	239.7	240.7	243.1
42°	236.6	235.7	235.4	237.2	238.6	241.4
42.5°	234.6	233.4	233.1	235.4	236.5	239.2
43°	232.4	230.6	230.7	232.6	234.1	237.1
43.5°	230.3	228.2	228.5	230.8	232.0	234.9
44°	228.1	226.2	226.7	228.1	229.9	232.9
44.5°	225.8	224.6	223.9	225.8	227.5	230.8



TEST NUMBER: P522085

CATALOG NUMBER: HLBQL6099BLE40AWH-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	223.5	222.1	221.6	224.0	225.4	228.7
45.5°	220.9	219.5	219.3	221.8	222.8	226.0
46°	218.7	217.1	217.2	219.1	220.7	223.3
46.5°	216.4	214.3	215.1	216.7	218.2	220.7
47°	213.6	212.1	212.6	214.4	215.8	219.3
47.5°	211.4	209.8	210.4	212.0	213.3	216.6
48°	208.9	207.7	207.8	209.6	211.0	214.2
48.5°	206.5	205.2	205.0	207.4	208.4	211.5
49°	204.0	202.4	202.6	204.9	206.0	209.1
49.5°	201.8	199.6	200.5	202.4	204.0	206.8
50°	199.2	197.1	197.8	200.1	201.4	204.2
50.5°	196.7	194.5	195.4	197.4	198.9	201.6
51°	193.9	192.5	193.2	194.9	196.3	199.1
51.5°	191.3	190.0	190.4	192.2	193.8	196.6
52°	188.8	187.2	187.7	189.5	191.3	194.0
52.5°	186.4	184.3	185.0	187.1	188.7	191.5
53°	183.9	181.5	182.7	184.5	186.1	189.1
53.5°	181.3	179.1	180.2	181.7	183.3	186.7
54°	178.7	176.7	177.3	179.0	180.2	184.4
54.5°	176.2	173.8	174.7	176.2	178.2	181.3
55°	173.5	170.9	171.8	173.7	175.3	178.7
55.5°	170.7	168.7	169.3	171.1	172.5	176.2
56°	168.2	166.1	166.7	168.4	169.9	173.4
56.5°	165.5	163.7	164.5	165.8	167.3	170.6
57°	162.9	160.8	161.4	163.0	165.1	167.9
57.5°	160.3	158.0	158.7	160.3	162.6	165.3
58°	157.6	155.4	155.9	157.6	159.8	162.6
58.5°	154.9	152.8	153.2	155.0	157.0	160.1
59°	152.1	149.9	150.1	152.1	154.0	157.3
59.5°	149.4	147.1	147.5	149.3	151.4	154.4
60°	146.6	144.2	144.6	146.6	148.5	151.9
60.5°	143.8	141.2	142.0	143.9	145.6	148.8
61°	140.9	138.4	139.0	140.7	143.0	146.2
61.5°	138.0	135.8	136.2	137.9	140.0	143.4
62°	135.3	132.9	133.6	135.1	137.0	140.6
62.5°	132.5	129.9	130.7	132.2	134.1	137.6
63°	129.5	127.2	127.7	129.5	131.4	134.7
63.5°	126.7	124.5	124.8	126.6	128.6	131.9
64°	123.7	121.4	121.7	123.6	125.6	129.0
64.5°	120.7	118.3	119.0	120.7	122.9	126.1
65°	117.9	115.5	116.1	117.9	120.0	123.2
65.5°	114.6	112.5	113.1	115.0	117.1	120.4
66°	111.8	109.8	110.2	111.9	114.1	117.5
66.5°	108.8	106.8	107.3	108.8	111.4	114.6
67°	105.8	103.7	104.4	106.1	108.2	111.9



TEST NUMBER: P522085

CATALOG NUMBER: HLBQL6099BLE40AWH-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	102.8	100.8	101.3	102.9	105.2	108.5
68°	99.9	98.0	98.1	100.0	102.3	105.4
68.5°	96.8	94.7	95.3	96.9	99.1	102.4
69°	93.9	91.9	92.3	94.2	96.1	99.4
69.5°	90.9	89.1	89.3	91.3	93.3	96.4
70°	88.0	86.1	86.5	88.0	90.3	93.6
70.5°	85.1	83.0	83.3	85.1	87.2	90.7
71°	82.0	80.0	80.5	82.2	84.2	87.7
71.5°	79.2	77.0	77.2	79.0	81.1	84.7
72°	76.1	73.9	74.2	76.1	78.5	81.5
72.5°	73.1	71.1	71.4	72.9	75.3	78.6
73°	70.1	67.9	68.3	69.9	72.3	75.5
73.5°	67.1	65.0	65.3	67.0	69.6	72.5
74°	64.1	62.2	62.4	64.0	66.4	69.7
74.5°	61.2	59.2	59.2	61.0	63.3	66.5
75°	58.4	56.3	56.5	58.3	60.4	63.5
75.5°	55.4	53.4	53.6	55.1	57.4	60.5
76°	52.6	50.4	50.6	52.2	54.4	57.7
76.5°	49.7	47.6	47.7	49.3	51.4	54.7
77°	46.9	44.7	44.8	46.5	48.6	51.5
77.5°	44.1	41.7	42.1	43.6	45.8	49.0
78°	41.3	39.0	39.2	40.9	43.0	46.0
78.5°	38.5	36.3	36.5	38.0	40.2	43.3
79°	35.8	33.5	33.8	35.3	37.4	40.4
79.5°	33.1	30.8	31.1	32.6	34.7	37.5
80°	30.4	28.2	28.3	29.9	31.9	34.7
80.5°	27.9	25.5	25.8	27.3	29.2	32.2
81°	25.4	23.2	23.5	24.7	26.8	29.3
81.5°	22.9	20.9	21.1	22.4	24.2	26.8
82°	20.6	18.4	18.7	20.0	22.0	24.3
82.5°	18.3	16.1	16.4	17.7	19.6	22.0
83°	16.1	14.1	14.2	15.5	17.2	19.6
83.5°	13.8	12.0	12.3	13.3	15.0	17.3
84°	11.7	10.1	10.3	11.3	12.9	15.1
84.5°	9.8	8.3	8.4	9.4	10.9	13.0
85°	8.0	6.6	6.6	7.5	9.2	11.0
85.5°	6.3	5.1	5.1	5.9	7.2	9.2
86°	4.7	3.7	3.9	4.5	5.7	7.3
86.5°	3.2	2.4	2.6	3.2	4.2	5.8
87°	1.9	1.5	1.6	2.0	2.9	4.3
87.5°	0.8	0.6	0.6	1.0	1.9	2.9
88°	0.0	0.3	0.2	0.4	0.9	1.9
88.5°	0.0	0.0	0.0	0.0	0.4	0.9
89°	0.0	0.0	0.0	0.0	0.0	0.3
89.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P522085
 CATALOG NUMBER: HLBQL6099BLE40AWH-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0
98.5°	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0
99.5°	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0
100.5°	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0
101.5°	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0
105.5°	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0
106.5°	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0
110.5°	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0
111.5°	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P522085
 CATALOG NUMBER: HLBQL6099BLE40AWH-3500K-UNIT

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P522085

CATALOG NUMBER: HLBQL6099BLE40AWH-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.0	0.1	0.2	0.3	0.2	0.1
135.5°	0.0	0.1	0.2	0.3	0.2	0.1
136°	0.0	0.1	0.2	0.2	0.2	0.1
136.5°	0.0	0.1	0.2	0.2	0.2	0.1
137°	0.0	0.1	0.2	0.2	0.2	0.1
137.5°	0.0	0.1	0.2	0.2	0.2	0.1
138°	0.0	0.1	0.2	0.2	0.2	0.1
138.5°	0.0	0.1	0.2	0.2	0.2	0.1
139°	0.0	0.1	0.2	0.2	0.2	0.1
139.5°	0.0	0.1	0.2	0.2	0.2	0.1
140°	0.0	0.1	0.2	0.2	0.2	0.1
140.5°	0.0	0.1	0.2	0.2	0.2	0.1
141°	0.0	0.1	0.2	0.2	0.2	0.1
141.5°	0.0	0.1	0.2	0.2	0.2	0.1
142°	0.0	0.1	0.2	0.2	0.2	0.0
142.5°	0.0	0.1	0.2	0.2	0.2	0.0
143°	0.0	0.1	0.2	0.2	0.2	0.1
143.5°	0.0	0.1	0.2	0.2	0.2	0.1
144°	0.0	0.1	0.2	0.2	0.2	0.1
144.5°	0.0	0.1	0.2	0.2	0.2	0.1
145°	0.0	0.1	0.2	0.2	0.2	0.1
145.5°	0.0	0.1	0.2	0.2	0.2	0.1
146°	0.0	0.1	0.2	0.2	0.2	0.1
146.5°	0.0	0.1	0.2	0.2	0.2	0.1
147°	0.1	0.1	0.2	0.2	0.2	0.1
147.5°	0.0	0.1	0.2	0.2	0.2	0.1
148°	0.0	0.1	0.2	0.2	0.2	0.1
148.5°	0.1	0.1	0.2	0.2	0.2	0.1
149°	0.1	0.1	0.2	0.2	0.2	0.1
149.5°	0.1	0.1	0.2	0.2	0.2	0.1
150°	0.1	0.1	0.2	0.2	0.2	0.1
150.5°	0.1	0.1	0.2	0.2	0.2	0.1
151°	0.1	0.1	0.2	0.2	0.2	0.1
151.5°	0.2	0.1	0.2	0.2	0.2	0.1
152°	0.2	0.1	0.2	0.2	0.2	0.1
152.5°	0.2	0.1	0.2	0.2	0.2	0.1
153°	0.2	0.1	0.2	0.2	0.2	0.1
153.5°	0.3	0.1	0.2	0.2	0.2	0.1
154°	0.3	0.1	0.2	0.2	0.2	0.1
154.5°	0.1	0.1	0.2	0.2	0.2	0.1
155°	0.2	0.1	0.2	0.2	0.2	0.1
155.5°	0.2	0.1	0.2	0.2	0.2	0.1
156°	0.1	0.1	0.2	0.2	0.2	0.1
156.5°	0.1	0.1	0.2	0.2	0.2	0.1
157°	0.1	0.1	0.2	0.2	0.2	0.1



TEST NUMBER: P522085
 CATALOG NUMBER: HLBQL6099BLE40AWH-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.1	0.1	0.2	0.2	0.2	0.1
158°	0.1	0.1	0.2	0.2	0.2	0.1
158.5°	0.1	0.1	0.2	0.2	0.2	0.1
159°	0.1	0.1	0.2	0.2	0.2	0.1
159.5°	0.1	0.1	0.2	0.2	0.2	0.1
160°	0.1	0.1	0.2	0.2	0.2	0.1
160.5°	0.1	0.1	0.2	0.2	0.2	0.1
161°	0.1	0.1	0.2	0.2	0.2	0.1
161.5°	0.1	0.1	0.2	0.2	0.2	0.1
162°	0.1	0.1	0.2	0.2	0.2	0.1
162.5°	0.1	0.1	0.2	0.2	0.2	0.1
163°	0.1	0.1	0.2	0.2	0.2	0.1
163.5°	0.1	0.1	0.2	0.2	0.2	0.1
164°	0.1	0.1	0.2	0.2	0.2	0.1
164.5°	0.1	0.1	0.2	0.2	0.2	0.1
165°	0.1	0.1	0.2	0.2	0.2	0.1
165.5°	0.1	0.1	0.2	0.2	0.2	0.1
166°	0.1	0.1	0.2	0.2	0.2	0.1
166.5°	0.1	0.1	0.2	0.2	0.2	0.1
167°	0.1	0.1	0.2	0.2	0.2	0.1
167.5°	0.1	0.1	0.2	0.2	0.2	0.1
168°	0.1	0.1	0.2	0.2	0.2	0.1
168.5°	0.1	0.1	0.2	0.2	0.2	0.1
169°	0.1	0.1	0.2	0.2	0.2	0.1
169.5°	0.1	0.1	0.2	0.2	0.2	0.1
170°	0.1	0.1	0.2	0.2	0.2	0.1
170.5°	0.1	0.1	0.2	0.2	0.2	0.1
171°	0.1	0.1	0.2	0.2	0.2	0.1
171.5°	0.1	0.1	0.2	0.2	0.2	0.1
172°	0.1	0.2	0.2	0.2	0.2	0.1
172.5°	0.1	0.2	0.2	0.2	0.2	0.1
173°	0.1	0.2	0.2	0.2	0.2	0.1
173.5°	0.1	0.2	0.2	0.2	0.2	0.1
174°	0.1	0.2	0.3	0.2	0.2	0.1
174.5°	0.1	0.3	0.3	0.2	0.2	0.1
175°	0.1	0.3	0.3	0.2	0.2	0.1
175.5°	0.1	0.3	0.3	0.2	0.2	0.1
176°	0.1	0.4	0.3	0.2	0.2	0.1
176.5°	0.1	0.5	0.5	0.2	0.2	0.1
177°	0.1	0.6	0.6	0.2	0.2	0.1
177.5°	0.1	0.6	0.7	0.2	0.2	0.1
178°	0.1	0.5	0.7	0.2	0.2	0.1
178.5°	0.1	0.5	0.7	0.2	0.2	0.1
179°	0.1	0.5	0.7	0.2	0.2	0.1
179.5°	0.1	0.5	0.7	0.2	0.2	0.1



TEST NUMBER: P522085
CATALOG NUMBER: HLBQL6099BLE40AWH-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.1	0.1	0.1	0.1	0.1	0.1

(END OF REPORT)