

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: P522083

Luminaire Tested: **HLBQL6099BLE40AWH-2700K-UNIT**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522083
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-2700K-UNIT
Description: Surface Mount Downlight Fixture, Single Unit
Light Source: (16) 2700K CCT, 93 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

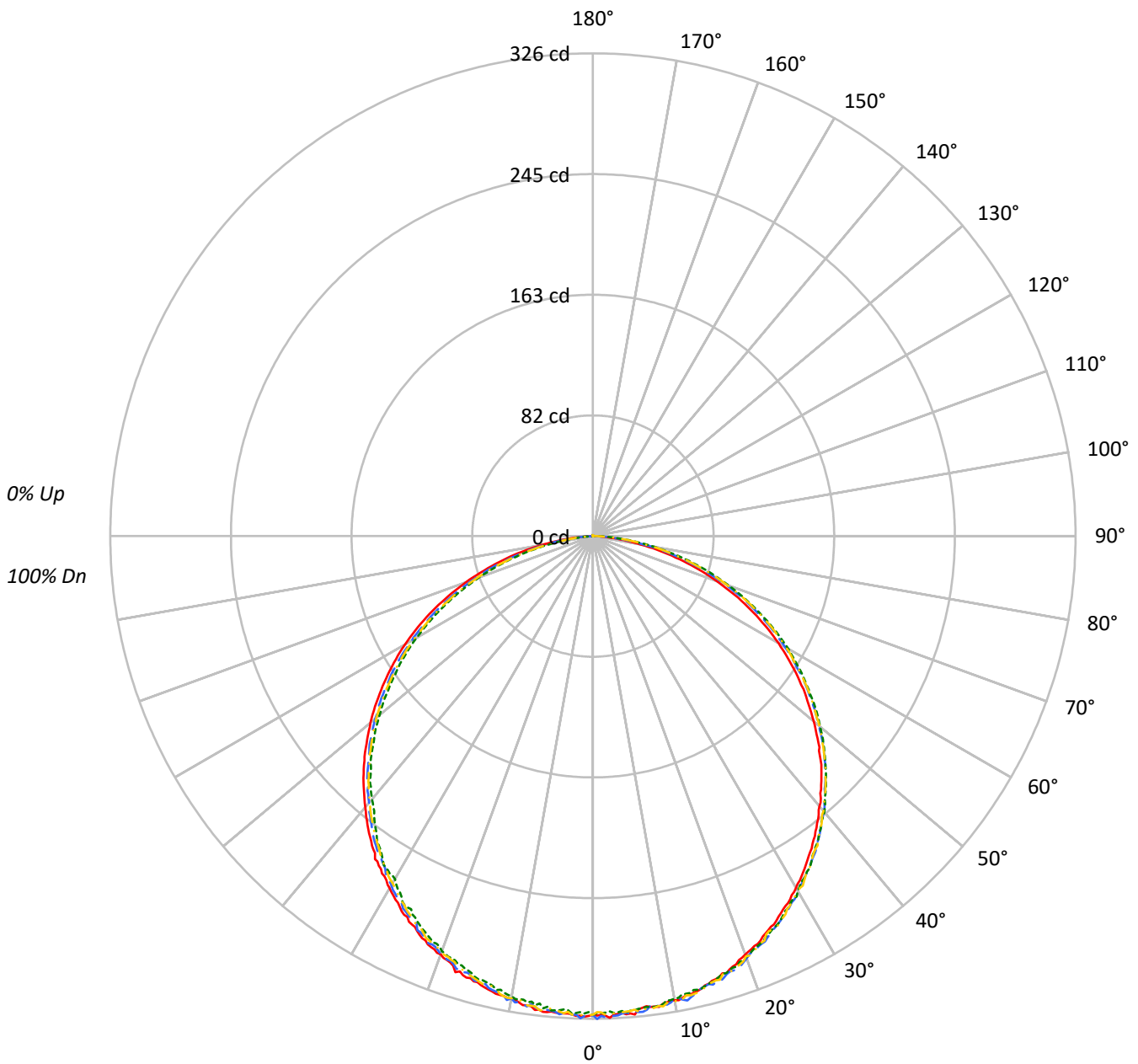
Lumens per Lamp: N/A
Luminaire Lumens: 930.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 0.5m x H: 0m)
CIE Type: Direct

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	37
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°	1647	1647	1647	1647
5°	1658	1644	1648	1645
10°	1647	1640	1641	1632
15°	1640	1643	1641	1624
20°	1630	1640	1629	1617
25°	1626	1636	1626	1597
30°	1613	1627	1615	1572
35°	1602	1620	1607	1574
40°	1582	1617	1590	1543
45°	1572	1603	1575	1526
50°	1543	1589	1554	1490
55°	1514	1569	1527	1447
60°	1476	1551	1494	1401
65°	1416	1512	1441	1327
70°	1328	1456	1357	1224
75°	1192	1375	1240	1057
80°	971	1238	1050	789
85°	614	1034	730	368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.6	3.3
10°-20°	87.7	9.4
20°-30°	133.1	14.3
30°-40°	160.9	17.3
40°-50°	167.9	18.0
50°-60°	152.6	16.4
60°-70°	116.8	12.6
70°-80°	65.3	7.0
80°-90°	14.7	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°	251.3	27.0
0°-40°	412.3	44.3
0°-60°	732.8	78.8
0°-90°	929.7	100.0
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	930.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	323	323	323	323	323	
5°	324	322	322	322	324	31
15°	311	312	311	308	311	88
25°	289	291	289	284	289	133
35°	258	260	258	253	258	161
45°	218	222	219	212	218	168
55°	170	177	172	163	170	152
65°	118	126	120	110	118	116
75°	61	70	63	54	61	64
85°	10	18	12	6	10	13
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°	323.3	323.3	323.3	323.3	323.3	323.3	323.3	323.3	323.3	323.3	323.3
0.5°	323.8	324.2	326.2	323.3	322.3	322.1	321.5	323.7	324.0	322.4	325.5
1°	323.3	323.8	324.1	322.1	322.3	323.2	321.8	322.5	324.6	324.7	324.3
1.5°	324.0	325.0	325.0	323.1	322.0	323.4	323.5	323.2	324.0	323.5	325.8
2°	325.6	327.1	324.8	325.1	321.2	323.6	323.4	323.2	324.2	323.2	323.4
2.5°	323.4	325.8	324.4	324.5	322.3	323.1	322.6	324.0	323.4	323.2	323.6
3°	323.2	323.7	324.2	324.2	322.1	323.6	322.2	323.7	322.9	323.5	322.7
3.5°	322.6	322.5	323.0	323.0	321.3	322.1	322.3	323.4	323.0	324.4	322.9
4°	323.7	323.4	322.7	323.4	322.5	323.3	321.9	322.4	322.9	324.1	323.7
4.5°	323.5	322.3	323.7	323.1	321.6	322.6	321.8	322.0	322.8	322.4	322.4
5°	324.3	322.0	322.2	323.1	321.6	322.2	321.1	321.7	322.3	321.6	321.8
5.5°	321.2	320.9	323.0	322.1	320.8	322.2	322.6	322.2	322.9	322.8	321.6
6°	320.4	321.8	323.0	322.0	320.5	321.6	323.2	322.5	323.0	322.1	321.5
6.5°	319.5	321.9	322.0	322.3	320.1	322.2	320.4	320.3	322.0	318.8	321.9
7°	320.4	321.8	319.6	322.2	320.3	322.1	321.8	320.4	322.4	320.4	320.7
7.5°	320.5	320.9	319.0	320.4	320.7	319.3	321.1	320.4	320.3	319.3	318.8
8°	321.2	320.4	320.6	321.4	320.0	319.1	320.4	320.0	320.0	318.4	320.8
8.5°	319.4	319.0	320.1	321.0	319.9	317.9	321.2	319.0	320.3	319.5	319.6
9°	318.9	317.8	320.4	320.0	317.6	319.6	319.2	319.2	318.8	318.3	318.6
9.5°	318.2	318.4	319.3	319.2	317.8	320.0	320.1	317.7	317.7	318.2	319.3
10°	318.4	319.3	317.3	319.4	317.2	317.8	319.4	318.2	317.4	317.6	317.0
10.5°	318.8	317.9	317.5	319.6	317.2	318.8	317.2	317.0	317.2	316.2	318.7
11°	317.6	316.2	319.0	317.5	315.5	317.7	318.4	317.6	316.4	315.8	316.1
11.5°	316.4	316.5	320.1	316.7	315.5	317.6	316.3	316.2	316.2	316.8	315.1
12°	316.5	315.6	318.4	317.8	315.4	316.2	317.2	315.0	316.0	312.9	314.5
12.5°	315.7	315.8	317.1	316.2	314.1	316.2	316.6	314.4	315.0	313.6	314.0
13°	315.2	315.7	315.6	315.5	314.4	314.0	316.4	313.4	314.2	313.3	313.2
13.5°	314.3	315.9	314.0	314.9	314.4	313.2	314.5	313.6	313.5	312.0	311.1
14°	312.8	314.7	313.4	313.5	313.2	313.3	314.5	312.2	312.5	311.5	311.5
14.5°	312.4	312.2	312.6	312.6	312.3	313.2	312.4	311.8	311.2	310.8	310.9
15°	311.0	310.6	313.7	311.1	311.7	312.0	312.0	310.8	311.3	309.6	310.6
15.5°	310.5	309.5	312.5	311.2	310.8	311.0	311.3	309.4	309.8	309.0	308.4
16°	309.8	309.5	312.7	310.9	309.7	310.4	311.7	309.4	310.2	308.1	306.8
16.5°	308.0	308.6	311.2	310.2	308.4	309.4	308.7	308.8	309.2	307.1	307.3
17°	308.8	308.6	309.4	309.3	308.6	309.2	308.5	308.6	307.5	306.7	305.6
17.5°	307.0	309.0	308.3	307.7	307.1	308.0	308.5	305.9	308.8	305.9	306.5
18°	305.7	307.0	308.4	307.4	306.4	306.6	307.9	306.5	305.2	305.0	304.2
18.5°	305.1	304.7	307.6	306.0	306.6	306.1	306.8	305.0	303.7	303.7	302.5
19°	302.8	303.5	307.0	304.9	304.3	304.9	305.8	303.5	302.9	303.0	302.5
19.5°	302.1	303.5	305.2	304.0	304.2	303.6	304.6	302.9	302.3	302.0	301.2
20°	300.8	302.4	303.5	303.0	302.6	302.7	302.1	302.1	300.6	300.4	300.6
20.5°	299.7	299.1	301.7	302.0	301.6	301.6	302.5	300.5	300.5	299.8	298.8
21°	298.8	299.1	300.5	300.8	300.1	300.1	301.4	299.4	298.9	297.5	297.1
21.5°	297.6	299.8	300.4	299.8	298.7	299.7	299.8	298.3	298.4	296.6	296.4
22°	297.1	297.8	298.8	299.6	298.3	298.0	299.0	297.0	297.5	296.2	296.7



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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°	295.8	296.4	298.0	297.9	297.3	296.6	297.3	296.2	295.6	294.9	294.4
23°	293.7	296.3	297.5	297.7	296.0	296.5	296.8	296.0	295.0	293.2	293.3
23.5°	292.6	294.6	295.6	295.8	294.2	294.4	293.3	294.5	293.6	292.4	291.9
24°	291.3	293.0	294.3	294.8	293.3	293.3	292.2	292.8	292.0	290.7	291.4
24.5°	289.9	292.0	292.6	293.4	292.0	292.7	292.1	291.8	290.1	289.2	287.5
25°	289.4	290.3	291.5	291.9	291.2	291.2	291.6	289.4	289.4	287.9	287.4
25.5°	287.9	288.9	290.2	291.2	290.3	289.6	291.1	288.8	288.6	286.9	286.0
26°	286.0	287.5	289.0	290.3	288.9	288.8	289.0	287.2	286.1	285.8	284.8
26.5°	284.6	286.7	287.5	288.4	287.0	287.9	287.9	286.5	285.8	285.1	283.4
27°	283.0	284.9	286.4	286.5	284.8	286.3	286.7	284.5	284.5	282.7	282.3
27.5°	281.6	282.9	285.0	285.4	284.0	285.0	284.0	282.8	282.4	281.0	279.8
28°	280.8	282.3	283.3	283.9	282.6	283.0	283.0	281.6	280.5	279.5	278.2
28.5°	279.3	279.9	281.6	282.3	280.8	281.8	281.5	279.9	279.4	278.5	277.4
29°	277.2	278.3	280.6	280.7	279.8	280.5	279.8	279.3	277.8	276.6	275.8
29.5°	276.0	277.6	279.1	278.7	279.7	278.8	278.3	276.2	276.3	273.9	274.4
30°	274.3	276.0	277.5	277.9	276.7	277.2	277.1	275.4	274.6	272.8	272.1
30.5°	272.6	273.8	275.6	276.3	275.0	275.8	275.7	274.5	273.3	271.6	270.8
31°	271.4	272.5	274.0	273.9	272.9	274.6	275.4	272.6	271.0	270.1	269.0
31.5°	269.7	271.0	272.2	272.2	272.0	272.9	273.0	269.6	269.4	268.3	267.6
32°	267.8	268.8	270.7	271.0	270.9	270.8	271.0	269.1	268.8	266.6	264.8
32.5°	266.1	267.4	269.3	269.5	268.9	269.7	268.5	267.5	266.5	265.2	263.2
33°	264.4	265.6	267.5	268.1	268.0	268.4	268.0	266.2	265.4	263.0	261.6
33.5°	262.6	264.6	266.1	266.3	266.4	266.4	266.3	263.9	263.6	261.5	259.7
34°	260.6	262.7	264.4	265.0	264.4	263.9	264.1	262.3	263.2	259.9	258.6
34.5°	259.1	261.0	262.7	262.6	262.0	262.4	262.2	261.2	259.7	258.3	257.4
35°	257.6	259.0	261.4	261.2	260.5	260.9	260.5	259.6	258.5	256.6	255.4
35.5°	255.4	257.1	259.9	259.6	258.7	259.3	259.1	257.6	257.0	254.2	253.9
36°	253.7	255.1	257.8	257.9	257.3	257.7	258.3	255.8	254.7	252.7	251.9
36.5°	252.0	253.4	255.6	256.0	255.7	255.6	255.3	253.9	253.0	251.3	249.9
37°	249.9	251.5	253.9	254.0	253.5	253.9	253.3	252.2	251.3	249.8	247.8
37.5°	248.2	249.5	252.1	251.8	251.7	251.9	252.4	250.3	249.3	247.7	245.6
38°	246.0	247.8	250.1	250.2	250.1	250.1	249.9	248.4	247.3	245.8	243.8
38.5°	244.4	246.0	248.4	248.3	247.5	248.4	248.1	246.5	245.3	243.9	241.7
39°	242.2	244.1	246.4	246.7	246.2	246.5	245.9	244.7	243.3	240.8	240.1
39.5°	239.7	242.4	244.3	244.4	244.9	244.6	243.6	242.8	241.0	239.8	238.0
40°	238.0	240.4	242.7	242.5	243.2	242.5	242.3	240.8	239.1	237.8	235.3
40.5°	236.7	238.3	240.9	240.4	241.2	240.7	240.3	238.9	237.2	235.2	233.4
41°	234.8	236.1	238.4	238.7	239.0	238.8	238.1	236.7	235.3	232.8	231.3
41.5°	231.9	234.1	236.5	236.8	236.2	236.8	236.3	234.6	233.2	231.1	229.7
42°	230.3	232.0	234.4	234.8	234.6	235.1	234.3	232.6	231.2	229.2	226.9
42.5°	228.2	229.7	231.7	232.9	232.8	232.9	232.4	230.3	229.3	227.0	225.6
43°	226.2	228.1	230.1	230.7	230.8	230.7	230.3	228.5	227.2	225.1	223.5
43.5°	224.1	226.3	228.1	228.7	228.7	228.7	228.3	226.5	225.1	223.0	221.3
44°	222.2	224.1	226.1	226.7	226.6	226.7	226.2	224.4	223.0	220.6	219.0
44.5°	220.2	221.8	223.9	224.7	224.5	224.8	224.3	222.4	220.9	218.5	216.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	218.2	219.6	221.9	222.4	222.5	222.6	222.1	220.2	218.7	216.5	214.5
45.5°	215.6	217.5	220.1	220.4	220.3	220.4	220.0	217.9	216.4	214.2	212.5
46°	213.0	215.4	217.6	218.3	218.2	218.3	217.7	215.6	214.5	212.1	210.0
46.5°	210.5	213.3	215.4	216.1	216.1	216.1	215.5	213.5	212.1	209.9	208.1
47°	209.2	210.7	213.3	213.9	213.8	214.0	213.3	211.4	209.6	207.6	206.3
47.5°	206.6	208.6	211.1	211.8	211.7	212.2	211.0	208.9	207.3	205.1	203.7
48°	204.3	206.5	209.2	209.8	209.4	209.8	208.7	206.7	205.2	202.7	201.3
48.5°	201.8	204.5	206.5	207.3	207.4	207.3	206.5	204.5	202.8	200.2	198.9
49°	199.5	201.8	204.3	205.3	205.2	204.9	204.3	202.3	200.5	198.2	196.6
49.5°	197.3	199.3	201.6	203.1	202.8	202.6	202.1	200.1	198.2	196.0	194.2
50°	194.8	197.2	199.5	200.5	200.5	200.3	199.7	197.9	196.1	193.7	191.8
50.5°	192.3	194.7	196.8	197.7	198.1	197.9	197.3	195.3	193.7	191.3	189.2
51°	189.9	192.3	194.6	195.7	195.9	196.0	194.7	193.3	191.4	188.8	187.2
51.5°	187.5	189.9	192.3	193.4	193.6	193.8	192.2	191.1	189.1	186.4	185.1
52°	185.1	187.3	190.0	191.1	191.4	191.3	189.9	188.6	186.7	183.9	182.4
52.5°	182.7	185.3	187.5	188.7	189.1	188.9	187.7	185.8	184.2	181.5	180.3
53°	180.4	183.0	185.2	186.2	186.7	186.4	185.4	183.6	181.6	179.1	177.5
53.5°	178.1	180.3	182.5	183.5	184.1	184.0	183.0	181.2	179.2	176.8	175.2
54°	175.9	177.8	180.2	180.9	181.3	181.7	180.6	179.2	176.8	174.5	172.6
54.5°	172.9	175.4	178.0	178.7	179.2	179.5	178.3	176.6	174.5	172.1	169.9
55°	170.5	173.1	175.6	176.3	176.7	177.1	175.9	173.9	172.0	169.5	167.7
55.5°	168.1	170.6	173.2	173.6	174.3	174.7	173.4	171.5	169.3	167.0	165.3
56°	165.4	168.1	170.8	171.2	171.9	172.1	170.9	168.8	166.9	164.5	162.8
56.5°	162.7	165.5	168.0	168.9	169.7	169.7	168.4	166.7	164.4	162.1	160.0
57°	160.1	162.8	164.9	166.3	167.3	167.2	165.7	164.0	161.8	159.5	157.6
57.5°	157.7	160.1	162.6	163.6	164.7	164.7	163.2	161.7	159.3	157.1	155.0
58°	155.1	157.6	160.1	161.1	162.1	162.0	160.6	158.9	156.9	154.3	152.3
58.5°	152.7	155.3	157.7	158.6	159.6	159.4	158.1	156.3	154.4	151.6	149.7
59°	150.0	152.5	155.0	156.4	157.1	156.9	156.0	153.5	151.9	148.9	146.9
59.5°	147.3	149.9	152.4	153.5	154.8	154.5	153.5	151.1	149.3	146.3	144.3
60°	144.9	147.2	149.9	151.1	152.3	151.9	150.9	148.2	146.7	143.8	141.4
60.5°	141.9	144.9	147.3	148.5	149.6	149.4	148.3	146.0	144.1	141.2	139.1
61°	139.4	142.1	144.7	145.9	146.9	146.7	145.6	143.3	141.4	138.5	136.2
61.5°	136.8	139.5	141.8	143.2	144.3	144.2	142.9	141.0	138.7	135.8	133.6
62°	134.1	136.7	139.3	140.5	141.8	141.6	140.4	138.1	136.0	133.1	130.6
62.5°	131.2	134.0	136.7	138.0	139.2	139.0	137.8	135.5	133.3	130.5	127.9
63°	128.5	131.2	133.9	135.4	136.5	136.4	135.1	132.5	130.6	127.8	125.1
63.5°	125.8	128.5	131.1	132.4	133.7	133.7	132.5	130.0	127.9	124.9	122.5
64°	123.0	125.6	128.4	129.5	131.1	130.9	129.8	127.0	125.0	122.1	120.0
64.5°	120.3	123.1	125.5	127.1	128.3	128.2	127.1	124.5	122.3	119.5	117.1
65°	117.5	120.4	122.7	124.5	125.5	125.3	124.4	121.8	119.6	116.9	114.1
65.5°	114.8	117.8	120.2	121.9	122.8	122.7	121.6	119.0	116.8	114.1	111.3
66°	112.0	115.0	117.5	118.9	120.1	119.7	118.8	116.1	114.0	111.1	108.6
66.5°	109.3	111.9	114.7	116.1	117.3	117.2	116.0	113.4	111.1	108.3	105.8
67°	106.7	109.4	111.9	113.2	114.5	114.4	113.2	110.5	108.3	105.6	102.9



TEST NUMBER: P522083
 CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	103.5	106.6	109.3	110.3	111.7	111.6	110.5	107.8	105.5	102.8	100.1
68°	100.5	103.6	106.7	107.9	109.1	108.9	107.5	104.9	102.6	99.9	97.3
68.5°	97.6	100.7	103.5	104.9	106.2	106.1	104.8	102.1	99.7	96.9	94.4
69°	94.8	97.8	100.6	101.8	103.3	103.3	101.9	99.3	96.9	94.1	91.6
69.5°	91.9	94.9	97.7	99.0	100.6	100.5	99.1	96.4	94.0	91.2	89.0
70°	89.2	92.0	94.9	96.3	97.8	97.6	96.3	93.7	91.1	88.6	86.0
70.5°	86.5	89.2	92.0	93.4	94.8	94.9	93.4	90.9	88.5	85.7	83.2
71°	83.6	86.3	89.2	90.5	91.9	91.9	90.6	88.2	85.6	82.8	80.4
71.5°	80.8	83.7	86.3	87.9	89.1	89.1	87.8	85.3	82.8	80.0	77.7
72°	77.8	80.8	83.4	85.1	86.5	86.4	85.0	82.6	79.9	77.2	74.9
72.5°	75.0	78.1	80.5	82.3	83.7	83.6	82.2	79.8	77.1	74.4	72.1
73°	72.1	75.1	77.6	79.4	81.1	80.8	79.2	76.9	74.1	71.7	69.1
73.5°	69.2	72.2	74.9	76.6	78.1	77.9	76.4	74.2	71.5	68.5	66.3
74°	66.5	69.2	72.2	73.6	75.4	75.2	73.6	71.2	68.6	65.9	63.4
74.5°	63.5	66.4	69.1	70.8	72.6	72.4	70.8	68.4	65.8	63.0	60.4
75°	60.6	63.6	66.3	68.0	69.9	69.6	68.0	65.7	63.0	60.1	57.6
75.5°	57.7	60.7	63.4	65.3	67.0	66.7	65.3	62.9	60.2	57.4	55.0
76°	55.1	57.8	60.5	62.3	64.2	63.8	62.5	60.0	57.4	54.7	52.2
76.5°	52.2	55.2	57.6	59.7	61.3	61.1	59.6	57.2	54.7	51.8	49.4
77°	49.2	52.3	55.0	56.8	58.5	58.2	56.8	54.6	52.0	49.2	46.6
77.5°	46.8	49.5	52.2	53.9	55.8	55.5	54.2	51.8	49.3	46.4	44.0
78°	43.9	46.8	49.4	51.2	53.0	52.7	51.4	49.0	46.5	43.7	41.3
78.5°	41.3	44.0	46.6	48.4	50.3	49.9	48.6	46.3	43.7	41.1	38.7
79°	38.6	41.4	43.8	45.6	47.5	47.2	45.9	43.6	41.0	38.3	36.0
79.5°	35.8	38.6	41.2	42.8	44.7	44.4	43.2	41.0	38.4	35.7	33.4
80°	33.1	36.0	38.7	40.1	42.2	41.9	40.6	38.3	35.8	33.2	30.8
80.5°	30.7	33.3	35.8	37.4	39.5	39.2	37.9	35.7	33.2	30.6	28.4
81°	28.0	30.7	33.1	34.8	36.9	36.7	35.3	33.2	30.7	28.1	25.9
81.5°	25.6	28.3	30.6	32.2	34.3	34.1	32.7	30.6	28.2	25.5	23.4
82°	23.2	25.8	28.1	29.6	31.8	31.4	30.2	28.2	25.7	23.2	21.2
82.5°	21.0	23.3	25.7	27.1	29.2	29.0	27.8	25.7	23.3	21.1	19.0
83°	18.7	21.2	23.2	24.7	26.7	26.6	25.3	23.4	21.2	18.8	16.9
83.5°	16.5	18.9	21.0	22.4	24.4	24.1	22.9	21.1	18.8	16.6	14.6
84°	14.4	16.6	18.7	20.2	22.0	21.8	20.8	19.0	16.7	14.5	12.6
84.5°	12.4	14.5	16.5	17.9	19.9	19.8	18.5	16.7	14.5	12.5	10.6
85°	10.5	12.6	14.4	15.7	17.7	17.6	16.3	14.6	12.5	10.5	8.8
85.5°	8.8	10.6	12.4	13.6	15.6	15.4	14.3	12.5	10.5	8.6	7.0
86°	7.0	8.8	10.4	11.7	13.5	13.3	12.2	10.6	8.7	6.9	5.4
86.5°	5.5	7.1	8.9	9.8	11.5	11.2	10.3	8.7	7.0	5.4	4.0
87°	4.1	5.5	7.0	8.1	9.6	9.4	8.4	7.0	5.4	3.9	2.7
87.5°	2.8	4.2	5.5	6.6	8.0	7.8	6.8	5.4	4.0	2.6	1.6
88°	1.8	3.0	4.1	5.0	6.2	6.1	5.2	4.0	2.7	1.6	0.7
88.5°	0.9	1.9	2.8	3.6	4.8	4.5	3.9	2.7	1.5	0.6	0.0
89°	0.3	1.0	1.8	2.6	3.3	3.1	2.4	1.7	0.6	0.0	0.0
89.5°	0.0	0.4	0.9	1.6	2.0	1.9	1.3	0.7	0.0	0.0	0.0



TEST NUMBER: P522083
 CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-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: P522083

CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-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: P522083

CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-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: P522083

CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-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: P522083

CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-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: P522083

CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	323.3	323.3	323.3	323.3	323.3	323.3
0.5°	322.9	321.6	321.6	323.4	322.0	323.8
1°	322.8	322.4	321.8	323.1	322.8	323.3
1.5°	321.8	321.6	322.8	323.6	323.6	324.0
2°	322.7	322.2	321.7	322.8	324.1	325.6
2.5°	321.6	322.9	320.9	323.6	323.5	323.4
3°	322.3	320.7	321.4	321.8	323.1	323.2
3.5°	322.2	320.2	321.9	322.8	322.0	322.6
4°	321.6	321.0	320.2	322.0	320.8	323.7
4.5°	321.2	321.2	321.2	321.3	321.3	323.5
5°	321.7	321.7	322.2	320.2	321.4	324.3
5.5°	321.2	319.4	320.6	321.0	319.5	321.2
6°	318.8	320.8	320.8	322.4	319.6	320.4
6.5°	320.2	317.8	319.6	321.9	319.6	319.5
7°	320.6	319.1	318.8	320.1	321.0	320.4
7.5°	319.4	317.2	319.3	319.9	321.7	320.5
8°	319.5	318.0	318.8	320.0	319.4	321.2
8.5°	318.6	316.6	317.7	316.9	318.5	319.4
9°	317.5	316.6	317.9	317.5	315.7	318.9
9.5°	315.2	317.2	315.1	317.5	317.5	318.2
10°	316.9	315.6	314.6	317.0	316.5	318.4
10.5°	315.0	315.1	316.5	317.2	316.4	318.8
11°	315.1	314.1	314.7	316.6	316.4	317.6
11.5°	314.1	312.6	314.4	315.4	314.6	316.4
12°	313.0	313.4	314.2	313.0	313.0	316.5
12.5°	312.6	311.4	313.0	311.5	311.6	315.7
13°	312.4	310.4	312.0	311.5	311.5	315.2
13.5°	310.3	309.6	310.2	312.0	311.4	314.3
14°	310.5	309.1	309.5	311.2	310.8	312.8
14.5°	308.8	309.2	309.2	310.2	310.7	312.4
15°	308.5	308.1	307.7	309.2	310.2	311.0
15.5°	307.5	306.5	307.2	308.4	309.4	310.5
16°	307.4	305.3	305.8	307.5	306.8	309.8
16.5°	306.5	304.5	304.5	306.3	306.4	308.0
17°	304.6	303.2	304.1	305.5	305.9	308.8
17.5°	304.4	303.1	303.6	304.5	304.1	307.0
18°	303.0	301.2	302.6	302.4	303.4	305.7
18.5°	301.6	300.7	301.2	301.8	302.4	305.1
19°	302.2	300.4	300.4	300.6	301.6	302.8
19.5°	300.1	299.1	298.8	300.3	300.0	302.1
20°	298.8	298.4	298.4	299.1	299.9	300.8
20.5°	297.2	295.8	298.0	297.2	298.4	299.7
21°	295.7	294.9	295.8	296.9	297.6	298.8
21.5°	294.2	294.8	295.2	295.7	296.2	297.6
22°	294.3	293.2	292.8	294.8	294.4	297.1



TEST NUMBER: P522083

CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	293.0	291.9	291.4	294.0	293.0	295.8
23°	291.6	290.3	290.9	292.1	292.5	293.7
23.5°	290.1	289.3	290.0	289.9	291.2	292.6
24°	287.3	287.6	288.9	289.6	290.4	291.3
24.5°	285.7	286.0	287.4	288.0	288.0	289.9
25°	285.0	284.2	285.3	286.5	286.6	289.4
25.5°	285.6	283.2	283.7	284.8	285.4	287.9
26°	283.5	280.3	282.5	283.6	284.1	286.0
26.5°	282.1	280.3	280.7	282.1	283.4	284.6
27°	280.1	279.9	279.3	280.1	282.3	283.0
27.5°	278.6	278.4	277.7	278.8	280.3	281.6
28°	276.8	275.6	276.6	277.2	278.4	280.8
28.5°	275.5	273.5	275.0	275.7	277.1	279.3
29°	273.8	272.2	272.7	273.6	275.2	277.2
29.5°	272.2	269.9	271.3	272.1	273.1	276.0
30°	270.5	267.3	270.2	270.7	271.7	274.3
30.5°	269.0	266.4	268.0	269.4	269.9	272.6
31°	267.1	266.2	266.6	268.1	268.7	271.4
31.5°	265.0	264.8	264.6	266.1	266.5	269.7
32°	263.4	264.1	262.2	264.4	265.1	267.8
32.5°	261.6	263.1	260.6	262.7	263.4	266.1
33°	260.1	260.6	259.0	260.8	261.7	264.4
33.5°	258.6	258.3	257.4	259.5	260.0	262.6
34°	257.0	256.2	255.7	257.5	258.0	260.6
34.5°	255.4	254.6	254.0	255.4	256.3	259.1
35°	253.4	253.1	252.1	253.6	254.5	257.6
35.5°	251.7	251.4	250.3	251.8	252.4	255.4
36°	249.7	248.6	248.5	250.0	250.5	253.7
36.5°	248.0	246.4	246.9	248.4	248.5	252.0
37°	246.0	244.6	245.1	246.4	246.9	249.9
37.5°	244.2	242.5	243.4	244.6	244.9	248.2
38°	242.3	239.9	241.5	242.7	243.0	246.0
38.5°	240.2	237.3	239.5	240.7	241.3	244.4
39°	237.9	235.6	237.4	238.9	239.2	242.2
39.5°	236.1	233.8	235.5	236.6	237.6	239.7
40°	233.8	232.1	233.2	234.9	235.6	238.0
40.5°	231.7	230.4	230.9	232.6	233.6	236.7
41°	229.8	228.6	228.9	230.5	231.8	234.8
41.5°	228.0	226.2	226.6	228.7	229.6	231.9
42°	225.7	224.9	224.6	226.3	227.6	230.3
42.5°	223.8	222.7	222.4	224.6	225.6	228.2
43°	221.7	220.0	220.1	221.9	223.3	226.2
43.5°	219.7	217.7	218.0	220.2	221.3	224.1
44°	217.6	215.8	216.3	217.6	219.3	222.2
44.5°	215.4	214.3	213.6	215.4	217.0	220.2



TEST NUMBER: P522083

CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	213.2	211.9	211.4	213.7	215.0	218.2
45.5°	210.7	209.4	209.2	211.6	212.5	215.6
46°	208.6	207.1	207.2	209.0	210.5	213.0
46.5°	206.4	204.4	205.2	206.7	208.2	210.5
47°	203.8	202.3	202.8	204.5	205.9	209.2
47.5°	201.7	200.1	200.7	202.2	203.5	206.6
48°	199.3	198.1	198.2	199.9	201.3	204.3
48.5°	197.0	195.7	195.6	197.8	198.8	201.8
49°	194.6	193.1	193.3	195.5	196.5	199.5
49.5°	192.5	190.4	191.3	193.1	194.6	197.3
50°	190.0	188.0	188.7	190.9	192.1	194.8
50.5°	187.6	185.5	186.4	188.3	189.7	192.3
51°	185.0	183.6	184.3	185.9	187.3	189.9
51.5°	182.5	181.2	181.6	183.3	184.9	187.5
52°	180.1	178.6	179.0	180.8	182.5	185.1
52.5°	177.8	175.8	176.5	178.5	180.0	182.7
53°	175.4	173.1	174.3	176.0	177.5	180.4
53.5°	172.9	170.8	171.9	173.3	174.8	178.1
54°	170.5	168.5	169.1	170.7	171.9	175.9
54.5°	168.1	165.8	166.6	168.1	170.0	172.9
55°	165.5	163.0	163.9	165.7	167.2	170.5
55.5°	162.8	160.9	161.5	163.2	164.5	168.1
56°	160.4	158.4	159.0	160.6	162.1	165.4
56.5°	157.9	156.1	156.9	158.1	159.6	162.7
57°	155.4	153.4	153.9	155.5	157.5	160.1
57.5°	152.9	150.7	151.4	152.9	155.1	157.7
58°	150.3	148.2	148.7	150.3	152.4	155.1
58.5°	147.7	145.7	146.1	147.8	149.7	152.7
59°	145.1	143.0	143.2	145.1	146.9	150.0
59.5°	142.5	140.3	140.7	142.4	144.4	147.3
60°	139.8	137.5	137.9	139.8	141.6	144.9
60.5°	137.1	134.7	135.4	137.2	138.9	141.9
61°	134.4	132.0	132.6	134.2	136.4	139.4
61.5°	131.6	129.5	129.9	131.5	133.5	136.8
62°	129.0	126.7	127.4	128.8	130.7	134.1
62.5°	126.4	123.9	124.6	126.1	127.9	131.2
63°	123.5	121.3	121.8	123.5	125.3	128.5
63.5°	120.8	118.7	119.0	120.7	122.6	125.8
64°	118.0	115.8	116.1	117.9	119.8	123.0
64.5°	115.1	112.8	113.5	115.1	117.2	120.3
65°	112.4	110.1	110.7	112.4	114.4	117.5
65.5°	109.3	107.3	107.8	109.7	111.7	114.8
66°	106.6	104.7	105.1	106.7	108.8	112.0
66.5°	103.7	101.8	102.3	103.7	106.2	109.3
67°	100.9	98.9	99.5	101.2	103.2	106.7



TEST NUMBER: P522083

CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	98.0	96.1	96.6	98.1	100.3	103.5
68°	95.2	93.4	93.5	95.3	97.5	100.5
68.5°	92.3	90.3	90.9	92.4	94.5	97.6
69°	89.5	87.6	88.0	89.8	91.6	94.8
69.5°	86.7	84.9	85.1	87.0	88.9	91.9
70°	83.9	82.2	82.6	83.9	86.1	89.2
70.5°	81.2	79.2	79.5	81.2	83.1	86.5
71°	78.3	76.4	76.8	78.5	80.4	83.6
71.5°	75.6	73.5	73.7	75.4	77.4	80.8
72°	72.6	70.5	70.8	72.6	74.9	77.8
72.5°	69.8	67.9	68.1	69.6	71.9	75.0
73°	66.9	64.8	65.2	66.7	69.0	72.1
73.5°	64.0	62.0	62.3	63.9	66.4	69.2
74°	61.2	59.4	59.6	61.1	63.4	66.5
74.5°	58.4	56.5	56.5	58.2	60.4	63.5
75°	55.7	53.7	53.9	55.6	57.6	60.6
75.5°	52.9	51.0	51.2	52.6	54.8	57.7
76°	50.2	48.1	48.3	49.8	51.9	55.1
76.5°	47.4	45.4	45.5	47.1	49.1	52.2
77°	44.8	42.7	42.8	44.4	46.4	49.2
77.5°	42.1	39.8	40.2	41.6	43.7	46.8
78°	39.4	37.2	37.4	39.0	41.0	43.9
78.5°	36.7	34.6	34.8	36.3	38.4	41.3
79°	34.2	32.0	32.3	33.7	35.7	38.6
79.5°	31.6	29.4	29.7	31.1	33.1	35.8
80°	29.0	26.9	27.0	28.5	30.4	33.1
80.5°	26.6	24.3	24.6	26.1	27.9	30.7
81°	24.2	22.1	22.4	23.6	25.6	28.0
81.5°	21.9	19.9	20.1	21.4	23.1	25.6
82°	19.7	17.6	17.8	19.1	21.0	23.2
82.5°	17.5	15.4	15.7	16.9	18.7	21.0
83°	15.4	13.5	13.6	14.8	16.4	18.7
83.5°	13.2	11.5	11.7	12.7	14.3	16.5
84°	11.2	9.6	9.8	10.8	12.3	14.4
84.5°	9.4	7.9	8.0	9.0	10.4	12.4
85°	7.6	6.3	6.3	7.2	8.8	10.5
85.5°	6.0	4.9	4.9	5.6	6.9	8.8
86°	4.5	3.5	3.7	4.3	5.4	7.0
86.5°	3.1	2.3	2.5	3.1	4.0	5.5
87°	1.8	1.4	1.5	1.9	2.8	4.1
87.5°	0.8	0.6	0.6	1.0	1.8	2.8
88°	0.0	0.3	0.2	0.4	0.9	1.8
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: P522083
 CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-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: P522083

CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-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: P522083

CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-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: P522083

CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-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: P522083

CATALOG NUMBER: HLBQL6099BLE40AWH-2700K-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)