

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: HALO

Report Number: P1504210

Luminaire Tested: JBD4FS5-3500K

Issue Date: 7/31/2026

Test Information

Test Method: LM-79-2019
Report Number: P1504210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2603499A001)
Test Lab: INNOVATION CENTER
Issue Date: 7/31/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: JBD4FS5-3500K
Description: Slim 4" Surface Mount downlight 700 Lumens at 3500K

Light Source:
Ballast/Driver: -

Summary

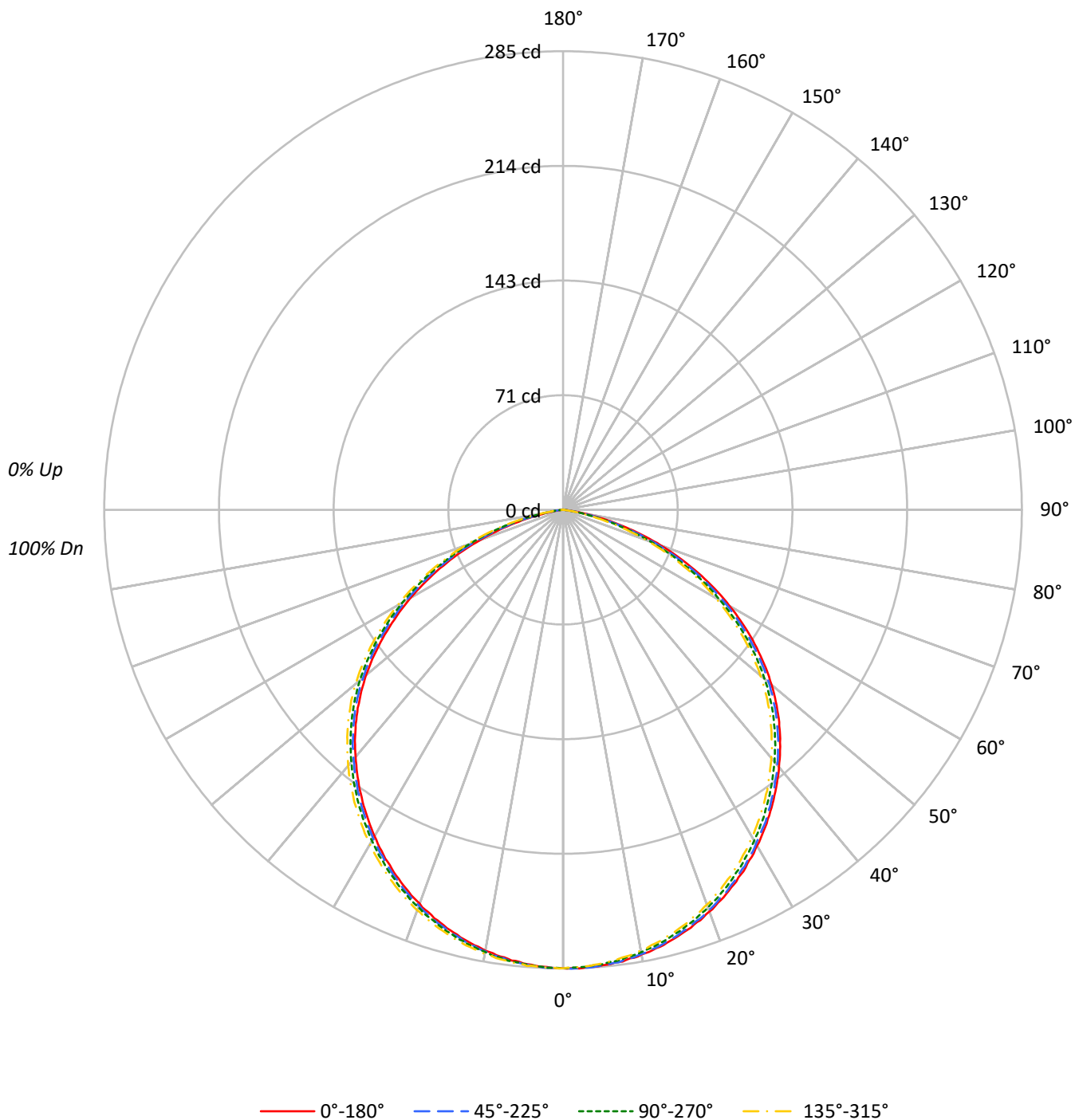
Lumens per Lamp: N/A
Luminaire Lumens: 752.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8.6
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.9
Total Harmonic Distortion (THDi): ≈20%
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86			86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72			72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61			61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53			53
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46			46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40			40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35			35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32			32
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28			28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26			26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	35141	35141	35141	35141
5°	35176	35102	35040	35077
10°	35145	34957	34832	34944
15°	35066	34772	34542	34746
20°	34889	34535	34181	34509
25°	34677	34188	33834	34174
30°	34339	33812	33356	33812
35°	34015	33383	32841	33398
40°	33604	32928	32300	32944
45°	33143	32306	31625	32428
50°	32449	31355	30645	31624
55°	31225	29956	29074	30300
60°	29455	27876	26939	28394
65°	26997	25071	23962	25800
70°	23333	20917	19727	22107
75°	18014	15012	13630	16775
80°	10016	7316	6251	9021
85°	3680	2547	2406	3255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 33143 cd/sqm

TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.9	3.6
10°-20°	76.9	10.2
20°-30°	115.8	15.4
30°-40°	138.8	18.5
40°-50°	143.0	19.0
50°-60°	125.0	16.6
60°-70°	86.2	11.5
70°-80°	35.7	4.8
80°-90°	3.4	0.5
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°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	219.6	29.2
0°-40°	358.5	47.7
0°-60°	626.4	83.3
0°-90°	751.7	100.0
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	752.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	285	285	285	285	285	
5°	284	284	283	283	284	27
15°	275	272	270	272	275	77
25°	255	251	249	251	255	117
35°	226	222	218	222	226	141
45°	190	185	181	186	190	146
55°	145	139	135	141	145	130
65°	92	86	82	88	92	91
75°	38	32	29	35	38	40
85°	3	2	2	2	3	4
90°	0	0	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	

TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9
0.5°	285.1	285.1	284.8	284.9	284.7	284.6	284.5	284.7	284.7	285.0	285.2
1°	285.0	285.0	285.2	285.2	284.5	284.5	284.7	284.4	284.8	284.9	285.0
1.5°	285.0	285.1	285.1	284.9	284.5	284.7	284.6	284.1	284.7	284.6	284.7
2°	285.2	285.4	285.1	284.8	284.5	284.5	284.2	284.3	284.2	284.7	284.8
2.5°	285.0	284.9	284.9	284.6	284.4	284.0	284.0	284.1	284.2	284.3	284.7
3°	284.7	284.9	284.9	284.6	284.3	283.9	284.0	283.9	284.1	284.2	284.3
3.5°	284.6	284.8	284.9	284.4	283.8	284.1	283.8	283.5	283.9	283.8	283.9
4°	284.7	284.7	284.7	284.1	283.7	283.6	283.3	283.5	283.3	283.6	283.9
4.5°	284.5	284.5	284.3	284.1	283.5	283.4	283.3	283.1	283.3	283.4	283.6
5°	284.1	284.2	284.2	283.8	283.5	283.0	282.8	282.7	283.0	282.9	283.5
5.5°	284.0	283.9	284.0	283.4	282.8	283.1	282.4	282.2	282.3	282.6	282.8
6°	283.9	283.9	283.6	283.1	282.4	282.3	282.1	282.0	281.9	282.4	282.6
6.5°	283.2	283.6	283.2	282.7	282.4	282.2	281.9	281.5	281.9	282.0	282.1
7°	283.1	283.1	283.3	282.4	282.0	282.0	281.3	281.3	281.1	281.5	281.9
7.5°	283.2	282.6	282.6	282.1	281.7	281.3	280.6	280.5	280.5	281.0	281.1
8°	282.4	282.7	282.1	281.6	281.0	280.8	280.3	280.0	280.4	280.5	280.9
8.5°	281.8	282.1	281.8	281.2	280.7	280.4	280.0	279.7	279.9	280.1	280.4
9°	281.8	281.6	281.5	280.8	280.2	279.8	279.4	279.2	278.9	279.6	280.2
9.5°	281.4	281.1	280.8	280.1	279.9	279.3	278.6	278.3	278.6	278.9	279.2
10°	280.6	281.0	280.2	279.7	279.1	278.7	278.1	277.9	278.1	278.1	278.6
10.5°	280.2	280.2	279.9	279.0	278.6	278.1	277.9	277.5	277.4	277.7	278.1
11°	279.9	279.5	279.6	278.6	278.0	277.6	277.0	276.7	276.5	277.2	277.7
11.5°	279.2	279.1	278.6	278.0	277.6	276.8	276.0	275.8	276.1	276.3	276.7
12°	278.4	278.5	278.1	277.2	276.8	276.1	275.6	275.3	275.4	275.4	276.1
12.5°	278.1	277.8	277.5	276.5	276.0	275.6	274.9	274.7	274.6	275.1	275.4
13°	277.5	277.3	276.8	276.0	275.4	274.9	274.3	273.8	273.9	274.3	275.0
13.5°	276.6	276.5	276.1	275.3	274.8	274.0	273.1	272.9	273.2	273.2	273.8
14°	275.9	275.9	275.3	274.6	273.8	273.2	272.5	272.2	272.1	272.5	272.9
14.5°	275.3	275.1	274.6	273.6	273.0	272.6	272.0	271.5	271.4	271.8	272.4
15°	274.6	274.2	274.0	272.9	272.3	271.7	270.9	270.7	270.5	271.2	271.7
15.5°	273.8	273.5	272.9	272.2	271.6	270.5	269.9	269.6	269.8	270.0	270.7
16°	272.9	273.0	272.0	271.4	270.7	269.9	269.2	268.7	268.7	269.0	269.6
16.5°	272.2	272.1	271.6	270.2	269.7	269.3	268.4	268.1	267.7	268.3	268.9
17°	271.6	270.9	270.7	269.7	268.9	268.1	267.4	266.9	266.8	267.4	268.1
17.5°	270.3	270.2	269.5	268.8	268.1	267.2	266.2	265.6	266.2	266.3	267.0
18°	269.4	269.5	268.5	267.8	267.1	266.2	265.2	264.8	264.7	265.2	265.7
18.5°	268.9	268.5	268.0	266.6	266.0	265.2	264.5	264.0	263.7	264.3	265.1
19°	267.7	267.4	267.1	265.8	264.9	264.2	263.4	262.8	262.9	263.3	264.1
19.5°	266.6	266.5	265.8	264.8	264.2	263.1	262.0	261.7	262.0	262.2	263.0
20°	265.8	265.6	264.8	263.8	263.1	262.0	261.1	260.6	260.4	260.9	261.7
20.5°	265.0	264.6	263.9	262.6	261.9	261.1	260.3	259.5	259.4	260.0	260.8
21°	263.8	263.4	262.8	261.6	260.9	259.9	258.7	258.4	258.4	258.9	259.9
21.5°	262.4	262.2	261.8	260.4	259.8	258.6	257.6	257.2	257.4	257.7	258.4
22°	261.6	261.5	260.3	259.4	258.8	257.5	256.5	255.9	256.0	256.4	257.3

TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	260.7	260.3	259.3	258.1	257.4	256.6	255.5	254.7	254.8	255.3	256.3
23°	259.3	258.9	258.6	257.0	256.3	255.1	254.1	253.7	253.7	254.2	255.0
23.5°	258.2	257.8	257.2	255.9	255.1	253.9	252.8	252.4	252.4	252.8	253.6
24°	256.9	256.8	255.8	254.6	253.9	252.6	251.5	250.9	250.9	251.3	252.4
24.5°	255.9	255.6	254.7	253.3	252.7	251.7	250.5	249.9	249.9	250.4	251.2
25°	254.8	254.1	253.6	252.0	251.2	250.0	249.1	248.5	248.6	249.1	249.9
25.5°	253.1	253.1	252.3	251.0	249.7	248.7	247.6	247.2	247.2	247.6	248.5
26°	252.0	251.9	250.8	249.5	248.7	247.6	246.3	245.7	245.5	246.2	247.2
26.5°	251.1	250.5	249.5	248.1	247.5	246.2	245.2	244.4	244.3	244.9	246.1
27°	249.6	249.2	248.6	246.8	246.1	244.7	243.6	243.1	243.2	243.7	244.4
27.5°	247.9	247.8	247.0	245.7	244.5	243.4	242.0	241.6	241.6	242.1	242.8
28°	246.6	246.5	245.5	244.0	243.1	242.0	240.7	240.1	240.0	240.5	241.8
28.5°	245.5	245.0	244.0	242.6	241.9	240.8	239.5	238.7	238.8	239.3	240.2
29°	244.2	243.7	242.9	241.2	240.4	239.1	237.6	237.2	237.2	237.9	238.6
29.5°	242.5	242.2	241.4	239.7	238.9	237.4	236.2	236.0	235.6	236.2	237.2
30°	241.1	240.9	239.7	238.4	237.4	236.1	234.9	234.0	234.2	234.7	235.9
30.5°	239.8	239.5	238.2	236.8	235.8	234.9	233.5	232.6	232.7	233.2	234.3
31°	238.3	237.8	237.1	235.3	234.7	233.0	231.7	231.2	231.0	231.9	232.7
31.5°	236.7	236.2	235.3	233.9	232.9	231.4	230.2	229.7	229.5	230.1	231.3
32°	235.1	235.0	233.7	232.1	231.2	230.2	228.7	227.8	227.9	228.5	229.9
32.5°	233.8	233.4	232.4	230.5	229.8	228.5	227.1	226.6	226.4	226.9	228.1
33°	232.4	231.6	231.0	229.2	228.4	226.7	225.3	224.9	224.7	225.4	226.4
33.5°	230.5	230.2	229.2	227.5	226.8	225.1	223.7	223.2	223.0	223.7	224.8
34°	229.0	228.6	227.5	225.9	224.9	223.6	222.2	221.5	221.6	222.1	223.4
34.5°	227.4	227.0	225.9	224.2	223.3	221.8	220.7	219.9	219.9	220.3	221.7
35°	225.9	225.5	224.5	222.7	221.7	220.3	218.9	218.2	218.1	218.8	219.8
35.5°	224.1	223.6	222.6	221.0	220.1	218.5	217.1	216.6	216.4	217.0	218.2
36°	222.6	222.1	220.9	219.1	218.5	216.9	215.7	214.7	214.8	215.4	216.8
36.5°	220.8	220.5	219.5	217.5	216.5	215.3	213.8	213.1	213.2	213.6	214.9
37°	219.2	218.8	217.8	215.9	215.0	213.4	211.8	211.3	211.1	212.0	212.9
37.5°	217.5	216.9	216.0	214.2	213.3	211.6	210.2	209.5	209.5	210.1	211.5
38°	215.7	215.3	213.9	212.3	211.5	210.0	208.6	207.5	207.8	208.5	209.8
38.5°	213.9	213.7	212.4	210.5	209.6	208.0	206.6	205.9	206.1	206.6	207.9
39°	212.4	211.7	210.9	208.9	207.9	206.3	204.8	204.4	204.0	205.0	206.0
39.5°	210.7	210.0	208.9	207.1	206.1	204.4	203.2	202.4	202.4	203.1	204.2
40°	208.7	208.3	207.0	205.1	204.5	202.8	201.2	200.3	200.6	201.3	202.5
40.5°	206.9	206.5	205.4	203.3	202.4	200.9	199.3	198.7	198.7	199.2	200.7
41°	205.2	204.6	203.4	201.8	200.5	198.8	197.6	196.8	196.8	197.7	198.7
41.5°	203.5	202.7	201.4	199.6	198.7	197.1	195.9	194.9	195.0	195.8	197.1
42°	201.5	201.0	199.6	197.7	197.1	195.3	193.7	193.0	193.3	193.8	195.3
42.5°	199.6	199.0	197.9	196.0	195.0	193.2	191.7	191.2	191.1	191.8	193.2
43°	197.7	197.3	195.9	194.1	193.0	191.3	190.0	189.3	189.2	190.1	191.3
43.5°	196.0	195.2	193.9	192.0	191.1	189.5	188.0	187.2	187.3	188.0	189.4
44°	194.0	193.3	192.0	189.9	189.3	187.5	185.8	185.2	185.4	186.1	187.6
44.5°	192.0	191.6	190.1	188.1	187.1	185.4	183.8	183.3	183.2	184.0	185.4

TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	190.0	189.4	188.0	186.1	185.2	183.4	182.0	181.3	181.3	182.1	183.5
45.5°	188.2	187.3	186.0	184.0	183.1	181.4	180.0	179.1	179.2	180.0	181.6
46°	186.2	185.6	184.0	182.0	181.1	179.3	177.8	177.1	177.3	178.0	179.5
46.5°	184.0	183.5	182.0	180.0	179.0	177.2	175.5	175.0	174.9	175.9	177.2
47°	181.9	181.3	179.9	177.8	177.0	175.1	173.7	172.8	172.8	173.9	175.4
47.5°	180.0	179.1	177.6	175.6	174.6	173.0	171.4	170.6	170.7	171.7	173.2
48°	177.8	177.1	175.6	173.4	172.4	170.7	169.0	168.6	168.7	169.6	171.0
48.5°	175.7	175.0	173.5	171.3	170.3	168.5	166.9	166.4	166.4	167.2	168.8
49°	173.5	172.6	171.1	169.1	168.2	166.3	164.8	163.9	164.1	165.1	166.8
49.5°	171.4	170.5	169.0	166.7	165.7	164.1	162.3	161.6	161.9	162.8	164.5
50°	169.1	168.3	166.8	164.4	163.4	161.6	160.0	159.4	159.7	160.5	162.1
50.5°	166.7	165.9	164.3	162.3	161.1	159.4	157.8	157.0	157.1	158.1	159.7
51°	164.6	163.6	162.0	159.7	158.9	157.0	155.4	154.6	154.9	155.8	157.6
51.5°	162.2	161.3	159.8	157.2	156.5	154.6	152.8	152.3	152.5	153.4	155.2
52°	159.9	159.0	157.4	155.1	154.0	152.2	150.5	149.9	150.2	151.2	152.7
52.5°	157.5	156.7	154.8	152.6	151.6	149.9	148.1	147.5	147.6	148.6	150.2
53°	155.1	154.1	152.4	150.2	149.3	147.3	145.7	145.0	145.1	146.2	148.0
53.5°	152.7	151.6	150.0	147.6	146.6	144.9	143.2	142.5	142.6	143.7	145.5
54°	150.2	149.3	147.5	145.3	144.0	142.3	140.7	140.1	140.3	141.3	143.0
54.5°	147.8	146.9	144.9	142.7	141.8	140.0	138.2	137.6	137.7	138.8	140.4
55°	145.2	144.3	142.5	140.1	139.3	137.2	135.7	135.1	135.2	136.2	138.2
55.5°	142.9	141.7	140.2	137.5	136.6	134.7	133.0	132.6	132.6	133.6	135.5
56°	140.3	139.3	137.5	135.2	134.1	132.2	130.5	130.0	130.1	131.3	132.9
56.5°	137.8	136.8	134.9	132.5	131.6	129.6	128.0	127.4	127.5	128.6	130.5
57°	135.2	134.1	132.3	129.9	129.0	127.0	125.4	124.8	124.8	125.9	128.0
57.5°	132.6	131.6	129.8	127.1	126.3	124.4	122.6	122.1	122.4	123.4	125.3
58°	130.0	128.9	127.2	124.7	123.6	121.8	120.1	119.6	119.8	120.8	122.6
58.5°	127.4	126.4	124.4	122.1	121.1	119.2	117.6	116.9	117.1	118.2	120.0
59°	124.8	123.7	121.9	119.3	118.4	116.5	114.9	114.4	114.4	115.5	117.6
59.5°	122.2	121.1	119.4	116.8	115.8	113.8	112.1	111.6	111.9	112.9	114.8
60°	119.4	118.3	116.6	114.3	113.0	111.2	109.5	109.0	109.2	110.2	112.1
60.5°	116.9	115.7	113.8	111.3	110.3	108.5	106.9	106.4	106.5	107.7	109.5
61°	114.2	113.0	111.2	108.6	107.8	105.8	104.2	103.7	103.8	104.9	107.0
61.5°	111.6	110.4	108.5	106.0	105.0	103.2	101.4	100.9	101.2	102.3	104.2
62°	108.8	107.7	105.7	103.4	102.3	100.5	98.9	98.3	98.6	99.6	101.5
62.5°	106.1	105.0	103.0	100.6	99.7	97.8	96.3	95.6	95.8	97.1	98.8
63°	103.4	102.3	100.4	97.8	96.9	95.0	93.6	92.9	93.1	94.3	96.3
63.5°	100.7	99.6	97.5	95.1	94.2	92.2	90.8	90.1	90.4	91.6	93.6
64°	97.9	96.7	94.8	92.2	91.4	89.4	88.0	87.4	87.7	88.8	90.9
64.5°	95.2	94.0	92.0	89.5	88.6	86.7	85.2	84.7	84.9	86.1	88.2
65°	92.5	91.5	89.4	86.8	85.9	83.9	82.4	81.9	82.1	83.4	85.5
65.5°	89.7	88.5	86.6	84.0	83.1	81.1	79.6	79.1	79.4	80.7	82.6
66°	86.8	85.6	83.7	81.2	80.3	78.3	76.9	76.3	76.6	77.8	79.9
66.5°	84.2	83.0	80.9	78.4	77.5	75.6	74.1	73.6	73.9	75.1	77.2
67°	81.4	80.3	78.2	75.7	74.7	72.8	71.4	70.9	71.2	72.4	74.5

TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	78.6	77.4	75.4	72.9	72.0	70.1	68.5	68.1	68.4	69.7	71.7
68°	75.8	74.6	72.5	70.1	69.1	67.3	65.8	65.3	65.6	66.9	69.0
68.5°	73.1	71.8	69.8	67.3	66.4	64.5	63.0	62.6	62.9	64.2	66.3
69°	70.3	69.1	67.1	64.5	63.6	61.7	60.3	59.8	60.2	61.4	63.5
69.5°	67.5	66.3	64.2	61.8	60.8	59.0	57.5	57.1	57.4	58.7	60.7
70°	64.7	63.4	61.4	58.9	58.0	56.2	54.8	54.3	54.7	56.0	58.0
70.5°	62.0	60.7	58.7	56.1	55.3	53.4	52.1	51.6	52.0	53.3	55.4
71°	59.2	58.0	56.0	53.5	52.6	50.8	49.4	49.0	49.3	50.6	52.7
71.5°	56.5	55.2	53.2	50.7	49.9	48.2	46.7	46.3	46.6	48.0	50.0
72°	53.8	52.5	50.4	48.0	47.1	45.4	44.1	43.6	44.0	45.3	47.3
72.5°	51.0	49.7	47.8	45.3	44.5	42.7	41.4	41.0	41.3	42.6	44.7
73°	48.3	47.0	45.0	42.7	41.8	40.1	38.7	38.3	38.7	40.0	42.0
73.5°	45.5	44.3	42.3	40.0	39.1	37.5	36.1	35.7	36.2	37.5	39.5
74°	42.9	41.6	39.4	37.4	36.6	34.9	33.6	33.3	33.6	34.9	37.0
74.5°	40.4	39.1	36.9	34.9	34.0	32.4	31.1	30.7	31.1	32.4	34.4
75°	37.8	36.5	34.4	32.4	31.5	29.9	28.6	28.2	28.6	29.9	31.9
75.5°	35.2	33.9	31.9	29.8	29.0	27.4	26.1	25.8	26.3	27.5	29.5
76°	32.7	31.4	29.4	27.3	26.5	25.0	23.8	23.5	23.9	25.2	27.1
76.5°	30.1	28.8	27.0	24.9	24.1	22.6	21.5	21.2	21.6	22.8	24.7
77°	27.5	26.3	24.6	22.5	21.8	20.4	19.3	19.0	19.4	20.6	22.5
77.5°	25.1	23.9	22.3	20.3	19.6	18.2	17.1	16.9	17.3	18.5	20.3
78°	22.8	21.6	20.0	18.1	17.4	16.1	15.0	14.8	15.3	16.4	18.1
78.5°	20.5	19.3	17.8	16.0	15.3	14.1	13.1	12.9	13.3	14.4	16.1
79°	18.3	17.2	15.7	14.0	13.4	12.5	11.6	11.4	11.8	12.6	14.1
79.5°	16.1	15.1	13.7	12.1	11.8	11.0	10.1	10.0	10.3	11.1	12.3
80°	14.1	13.1	11.8	10.3	10.3	9.5	8.6	8.5	8.8	9.7	10.9
80.5°	12.3	11.3	10.1	8.8	8.7	8.0	7.1	7.0	7.4	8.3	9.4
81°	10.5	9.6	8.5	7.2	7.2	6.5	5.6	5.6	5.9	6.8	8.0
81.5°	8.9	8.1	7.0	5.9	5.7	5.0	4.5	4.4	4.7	5.4	6.6
82°	7.4	6.7	5.8	4.7	4.5	3.9	3.6	3.6	3.8	4.3	5.2
82.5°	6.1	5.4	4.6	3.6	3.5	3.2	3.0	3.0	3.1	3.4	4.1
83°	4.9	4.3	4.1	3.2	2.9	2.7	2.6	2.6	2.7	2.9	3.3
83.5°	3.8	3.8	3.6	2.8	2.6	2.5	2.3	2.3	2.4	2.6	2.8
84°	3.4	3.3	3.1	2.5	2.3	2.2	2.0	2.0	2.1	2.3	2.5
84.5°	3.0	2.8	2.5	2.1	2.0	1.9	1.8	1.8	1.9	2.0	2.2
85°	2.6	2.3	2.0	1.8	1.8	1.7	1.6	1.6	1.7	1.8	1.9
85.5°	2.1	2.0	1.8	1.6	1.6	1.5	1.4	1.4	1.4	1.6	1.7
86°	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.1	1.1	1.3	1.5
86.5°	1.6	1.5	1.3	1.1	1.0	0.9	0.8	0.8	0.9	1.0	1.3
87°	1.4	1.3	1.0	0.8	0.8	0.7	0.7	0.7	0.7	0.8	1.0
87.5°	1.1	1.0	0.8	0.7	0.7	0.6	0.5	0.5	0.6	0.7	0.8
88°	0.9	0.8	0.7	0.5	0.4	0.2	0.2	0.2	0.3	0.5	0.6
88.5°	0.7	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.4
89°	0.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
89.5°	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	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	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: P1504210

CATALOG NUMBER: JBD4FS5-3500K

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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.5°	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124.5°	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.5°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126.5°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128.5°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
129.5°	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
130.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
131°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
131.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
132°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
132.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
133°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
133.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
134°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
134.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

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

TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P1504210
CATALOG NUMBER: JBD4FS5-3500K

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: P1504210

CATALOG NUMBER: JBD4FS5-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	284.9	284.9	284.9	284.9	284.9	284.9
0.5°	285.0	284.8	284.9	285.0	284.8	285.1
1°	285.1	284.6	284.7	284.7	284.6	285.0
1.5°	284.6	284.6	284.5	284.7	284.8	285.0
2°	284.6	284.7	284.6	284.6	284.7	285.2
2.5°	284.7	284.4	284.7	284.7	284.5	285.0
3°	284.5	284.1	284.3	284.5	284.4	284.7
3.5°	284.2	283.8	284.0	284.2	284.3	284.6
4°	283.8	283.9	284.1	284.0	284.3	284.7
4.5°	283.8	283.6	283.8	284.3	284.1	284.5
5°	283.5	283.3	283.6	283.6	283.9	284.1
5.5°	283.1	282.7	283.2	283.4	283.8	284.0
6°	282.7	282.7	283.2	283.3	283.4	283.9
6.5°	282.3	282.4	282.7	283.0	283.4	283.2
7°	282.3	282.2	282.3	282.4	283.0	283.1
7.5°	281.5	281.5	281.8	282.2	282.5	283.2
8°	281.1	281.1	281.7	282.0	282.0	282.4
8.5°	280.7	280.5	281.2	281.6	282.0	281.8
9°	280.3	280.5	280.6	280.9	281.4	281.8
9.5°	279.7	279.6	280.1	280.6	280.9	281.4
10°	279.1	279.0	279.7	280.2	280.2	280.6
10.5°	278.5	278.5	279.1	279.5	280.3	280.2
11°	278.0	278.0	278.4	278.9	279.3	279.9
11.5°	277.2	277.3	277.7	278.4	279.0	279.2
12°	276.6	276.7	277.4	277.8	278.3	278.4
12.5°	275.9	276.0	276.6	277.4	277.7	278.1
13°	275.4	275.1	276.0	276.6	277.1	277.5
13.5°	274.5	274.7	275.1	275.7	276.6	276.6
14°	273.7	274.0	274.6	275.3	275.6	275.9
14.5°	273.0	272.9	273.9	274.4	274.8	275.3
15°	272.4	272.1	273.0	273.7	274.3	274.6
15.5°	271.2	271.6	272.0	272.8	273.6	273.8
16°	270.4	270.7	271.5	272.0	272.6	272.9
16.5°	269.8	269.8	270.7	271.4	271.7	272.2
17°	268.8	268.7	269.8	270.4	270.9	271.6
17.5°	267.6	267.7	268.7	269.4	270.3	270.3
18°	266.8	266.8	267.8	268.6	269.1	269.4
18.5°	265.8	266.1	267.1	267.8	268.1	268.9
19°	265.1	265.2	266.0	266.9	267.3	267.7
19.5°	263.7	263.8	264.9	265.5	266.5	266.6
20°	262.7	262.9	263.9	264.8	265.3	265.8
20.5°	261.7	261.9	262.9	263.8	264.2	265.0
21°	260.7	260.9	261.7	262.7	263.2	263.8
21.5°	259.4	259.8	260.5	261.4	262.2	262.4
22°	258.3	258.5	259.6	260.5	261.1	261.6

TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	257.1	257.2	258.6	259.4	260.2	260.7
23°	256.2	256.2	257.2	258.3	258.9	259.3
23.5°	254.6	255.2	255.9	257.0	257.7	258.2
24°	253.5	253.8	254.8	255.9	256.7	256.9
24.5°	252.4	252.3	253.8	254.7	255.5	255.9
25°	251.1	251.1	252.3	253.5	254.2	254.8
25.5°	249.6	250.1	251.0	252.2	252.8	253.1
26°	248.6	248.7	249.9	251.0	251.8	252.0
26.5°	247.0	247.3	248.9	249.5	250.4	251.1
27°	245.8	245.7	247.3	248.4	248.9	249.6
27.5°	244.3	244.5	245.8	246.9	247.6	247.9
28°	242.9	243.4	244.4	245.6	246.5	246.6
28.5°	241.6	241.7	243.3	244.3	245.0	245.5
29°	240.2	240.3	241.9	242.9	243.5	244.2
29.5°	238.5	238.9	240.2	241.5	242.2	242.5
30°	237.2	237.4	238.8	240.0	240.8	241.1
30.5°	235.8	236.0	237.3	238.5	239.4	239.8
31°	234.2	234.4	235.9	237.1	237.9	238.3
31.5°	232.6	232.8	234.4	235.7	236.3	236.7
32°	231.3	231.3	232.9	234.0	235.0	235.1
32.5°	229.6	229.9	231.1	232.5	233.3	233.8
33°	227.8	228.4	229.8	231.0	231.7	232.4
33.5°	226.2	226.5	228.3	229.6	230.3	230.5
34°	225.1	225.0	226.5	227.7	228.8	229.0
34.5°	223.0	223.6	224.7	226.2	227.1	227.4
35°	221.3	221.8	223.4	224.6	225.3	225.9
35.5°	219.9	220.2	221.9	223.2	223.8	224.1
36°	218.3	218.4	220.0	221.4	222.3	222.6
36.5°	216.5	216.7	218.3	219.6	220.5	220.8
37°	214.7	215.1	216.6	218.0	218.7	219.2
37.5°	213.0	213.5	215.0	216.6	216.9	217.5
38°	211.5	211.7	213.4	214.5	215.5	215.7
38.5°	209.5	209.7	211.4	212.9	213.8	213.9
39°	207.7	208.2	209.8	211.2	211.9	212.4
39.5°	206.0	206.3	208.1	209.4	210.1	210.7
40°	204.3	204.6	206.1	207.7	208.4	208.7
40.5°	202.3	202.9	204.4	205.8	206.7	206.9
41°	200.5	200.9	202.6	203.9	204.8	205.2
41.5°	198.7	199.1	200.8	202.2	203.0	203.5
42°	196.9	197.4	198.8	200.4	201.1	201.5
42.5°	194.8	195.5	197.1	198.4	199.5	199.6
43°	192.9	193.6	195.2	196.5	197.5	197.7
43.5°	191.2	191.5	193.4	194.8	195.6	196.0
44°	189.1	189.7	191.5	192.9	193.6	194.0
44.5°	187.1	187.6	189.5	190.8	191.9	192.0

TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	185.4	185.9	187.4	188.9	189.8	190.0
45.5°	183.3	183.7	185.5	187.1	187.9	188.2
46°	181.3	181.7	183.6	185.0	185.7	186.2
46.5°	179.1	179.6	181.4	183.0	183.9	184.0
47°	177.0	177.7	179.3	180.8	181.8	181.9
47.5°	175.1	175.7	177.6	178.9	179.8	180.0
48°	173.0	173.6	175.3	177.0	177.4	177.8
48.5°	170.7	171.3	173.1	174.7	175.6	175.7
49°	168.5	169.2	170.9	172.5	173.5	173.5
49.5°	166.4	167.0	168.8	170.5	171.3	171.4
50°	164.1	164.8	166.5	168.2	168.9	169.1
50.5°	161.7	162.4	164.2	165.8	166.7	166.7
51°	159.4	160.0	161.9	163.6	164.4	164.6
51.5°	157.4	157.7	159.7	161.4	162.3	162.2
52°	154.8	155.5	157.3	159.0	159.8	159.9
52.5°	152.4	153.1	154.9	156.5	157.4	157.5
53°	150.1	150.7	152.4	154.2	155.0	155.1
53.5°	147.6	148.1	150.2	151.8	152.7	152.7
54°	145.2	145.6	147.7	149.3	150.2	150.2
54.5°	142.7	143.4	145.2	146.9	147.6	147.8
55°	140.2	140.9	142.7	144.4	145.3	145.2
55.5°	137.7	138.3	140.4	141.9	142.9	142.9
56°	135.2	135.7	137.8	139.5	140.3	140.3
56.5°	132.6	133.3	135.2	136.9	137.6	137.8
57°	130.1	130.6	132.7	134.4	135.2	135.2
57.5°	127.6	128.1	130.2	131.9	132.5	132.6
58°	125.0	125.7	127.6	129.3	130.1	130.0
58.5°	122.4	123.0	125.0	126.6	127.4	127.4
59°	119.8	120.3	122.4	124.1	124.9	124.8
59.5°	117.3	117.7	119.8	121.5	122.1	122.2
60°	114.6	115.1	117.2	118.8	119.7	119.4
60.5°	111.9	112.6	114.6	116.1	117.0	116.9
61°	109.3	110.0	111.7	113.6	114.3	114.2
61.5°	106.7	107.3	109.2	111.0	111.6	111.6
62°	104.0	104.5	106.6	108.2	109.0	108.8
62.5°	101.3	101.9	103.9	105.5	106.3	106.1
63°	98.5	99.3	101.1	102.9	103.6	103.4
63.5°	96.1	96.6	98.5	100.2	100.8	100.7
64°	93.4	93.8	95.7	97.5	98.1	97.9
64.5°	90.7	91.1	93.1	94.7	95.5	95.2
65°	88.0	88.4	90.4	92.0	92.7	92.5
65.5°	85.2	85.8	87.6	89.4	89.8	89.7
66°	82.4	83.0	84.9	86.5	87.2	86.8
66.5°	79.7	80.3	82.2	83.8	84.4	84.2
67°	76.9	77.5	79.5	81.0	81.7	81.4

TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	74.2	74.9	76.7	78.3	78.8	78.6
68°	71.5	72.2	74.0	75.6	76.2	75.8
68.5°	68.8	69.4	71.4	72.9	73.4	73.1
69°	66.0	66.6	68.5	70.1	70.6	70.3
69.5°	63.3	63.9	65.8	67.3	67.8	67.5
70°	60.6	61.3	63.1	64.6	65.1	64.7
70.5°	58.0	58.6	60.4	61.9	62.3	62.0
71°	55.3	55.9	57.6	59.1	59.6	59.2
71.5°	52.5	53.2	55.1	56.4	56.9	56.5
72°	49.8	50.6	52.3	53.7	54.1	53.8
72.5°	47.3	47.9	49.7	51.0	51.4	51.0
73°	44.6	45.2	47.0	48.3	48.7	48.3
73.5°	42.0	42.6	44.4	45.6	46.0	45.5
74°	39.4	40.1	41.8	43.0	43.4	42.9
74.5°	36.9	37.6	39.3	40.4	40.7	40.4
75°	34.4	35.2	36.8	37.9	38.2	37.8
75.5°	31.8	32.7	34.3	35.4	35.6	35.2
76°	29.4	30.2	31.8	32.9	33.1	32.7
76.5°	27.0	27.7	29.2	30.4	30.5	30.1
77°	24.7	25.4	26.8	27.9	28.0	27.5
77.5°	22.4	23.0	24.5	25.5	25.6	25.1
78°	20.2	20.9	22.3	23.2	23.3	22.8
78.5°	18.0	18.7	20.0	21.0	21.0	20.5
79°	16.0	16.6	17.9	18.7	18.8	18.3
79.5°	14.1	14.6	15.8	16.7	16.6	16.1
80°	12.2	12.7	13.9	14.6	14.6	14.1
80.5°	10.8	11.0	12.1	12.8	12.8	12.3
81°	9.4	9.4	10.4	11.0	11.0	10.5
81.5°	8.0	7.9	8.7	9.3	9.3	8.9
82°	6.6	6.6	7.3	7.8	7.8	7.4
82.5°	5.2	5.4	6.0	6.5	6.5	6.1
83°	4.1	4.3	4.9	5.2	5.2	4.9
83.5°	3.2	3.8	3.8	4.2	4.2	3.8
84°	2.7	3.3	3.4	3.7	3.7	3.4
84.5°	2.5	2.8	3.0	3.2	3.2	3.0
85°	2.2	2.3	2.5	2.7	2.7	2.6
85.5°	1.9	2.0	2.1	2.2	2.2	2.1
86°	1.7	1.7	1.8	1.9	1.9	1.8
86.5°	1.5	1.5	1.6	1.7	1.7	1.6
87°	1.2	1.3	1.4	1.5	1.5	1.4
87.5°	0.9	1.0	1.1	1.2	1.2	1.1
88°	0.8	0.8	0.9	0.9	0.9	0.9
88.5°	0.6	0.6	0.7	0.8	0.8	0.7
89°	0.3	0.4	0.5	0.6	0.6	0.5
89.5°	0.1	0.1	0.3	0.4	0.3	0.2



TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.1	0.1	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: P1504210

CATALOG NUMBER: JBD4FS5-3500K

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	0.0	0.0
115.5°	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
116.5°	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	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
118.5°	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0
123.5°	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0
124.5°	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0
125.5°	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0
126.5°	0.0	0.1	0.0	0.0	0.0	0.0
127°	0.0	0.1	0.0	0.0	0.0	0.0
127.5°	0.0	0.1	0.0	0.0	0.0	0.0
128°	0.0	0.1	0.1	0.0	0.0	0.0
128.5°	0.0	0.1	0.1	0.0	0.0	0.0
129°	0.0	0.1	0.1	0.0	0.0	0.0
129.5°	0.0	0.1	0.1	0.1	0.0	0.0
130°	0.0	0.1	0.1	0.1	0.0	0.0
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	0.1	0.1	0.1
132°	0.0	0.1	0.1	0.1	0.1	0.1
132.5°	0.1	0.1	0.1	0.1	0.1	0.1
133°	0.1	0.1	0.1	0.1	0.1	0.1
133.5°	0.1	0.1	0.1	0.1	0.1	0.1
134°	0.1	0.1	0.1	0.1	0.1	0.1
134.5°	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P1504210
CATALOG NUMBER: JBD4FS5-3500K

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

TEST NUMBER: P1504210

CATALOG NUMBER: JBD4FS5-3500K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	24.3	25.9	24.7	26.2	26.5	23.9	25.5	24.3	25.9	26.2
	3H	25.8	27.2	26.1	27.5	27.9	25.3	26.7	25.7	27.1	27.4
	4H	26.2	27.5	26.6	27.9	28.2	25.6	27.0	26.0	27.3	27.7
	6H	26.3	27.6	26.7	27.9	28.3	25.7	27.0	26.1	27.3	27.7
	8H	26.3	27.5	26.7	27.9	28.3	25.7	26.9	26.1	27.3	27.7
	12H	26.3	27.4	26.7	27.8	28.2	25.7	26.8	26.1	27.2	27.6
4H	2H	24.8	26.2	25.2	26.5	26.9	24.5	25.8	24.9	26.2	26.6
	3H	26.5	27.6	26.9	28.0	28.4	26.0	27.1	26.4	27.5	27.9
	4H	27.0	28.0	27.4	28.4	28.8	26.4	27.4	26.8	27.8	28.2
	6H	27.2	28.0	27.6	28.5	28.9	26.5	27.4	27.0	27.8	28.3
	8H	27.2	28.0	27.6	28.4	28.9	26.5	27.3	27.0	27.7	28.2
	12H	27.1	27.9	27.6	28.4	28.8	26.5	27.2	26.9	27.7	28.1
8H	4H	27.1	27.9	27.6	28.4	28.8	26.5	27.3	27.0	27.8	28.2
	6H	27.3	28.0	27.8	28.5	29.0	26.6	27.3	27.1	27.8	28.3
	8H	27.3	27.9	27.8	28.4	28.9	26.6	27.2	27.1	27.7	28.2
	12H	27.3	27.8	27.8	28.3	28.9	26.6	27.1	27.1	27.6	28.2
12H	4H	27.1	27.8	27.6	28.3	28.8	26.5	27.2	27.0	27.7	28.2
	6H	27.3	27.9	27.8	28.4	28.9	26.6	27.2	27.1	27.7	28.2
	8H	27.3	27.9	27.8	28.3	28.9	26.6	27.1	27.1	27.6	28.2































(END OF REPORT)