

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: P1504209

Luminaire Tested: JBD4FS5-3000K

Issue Date: 7/31/2026

Test Information

Test Method: LM-79-2019
Report Number: P1504209
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: JBD4FS5-3000K
Description: Slim 4" Surface Mount downlight 700 Lumens at 3000K

Light Source:
Ballast/Driver: -

Summary

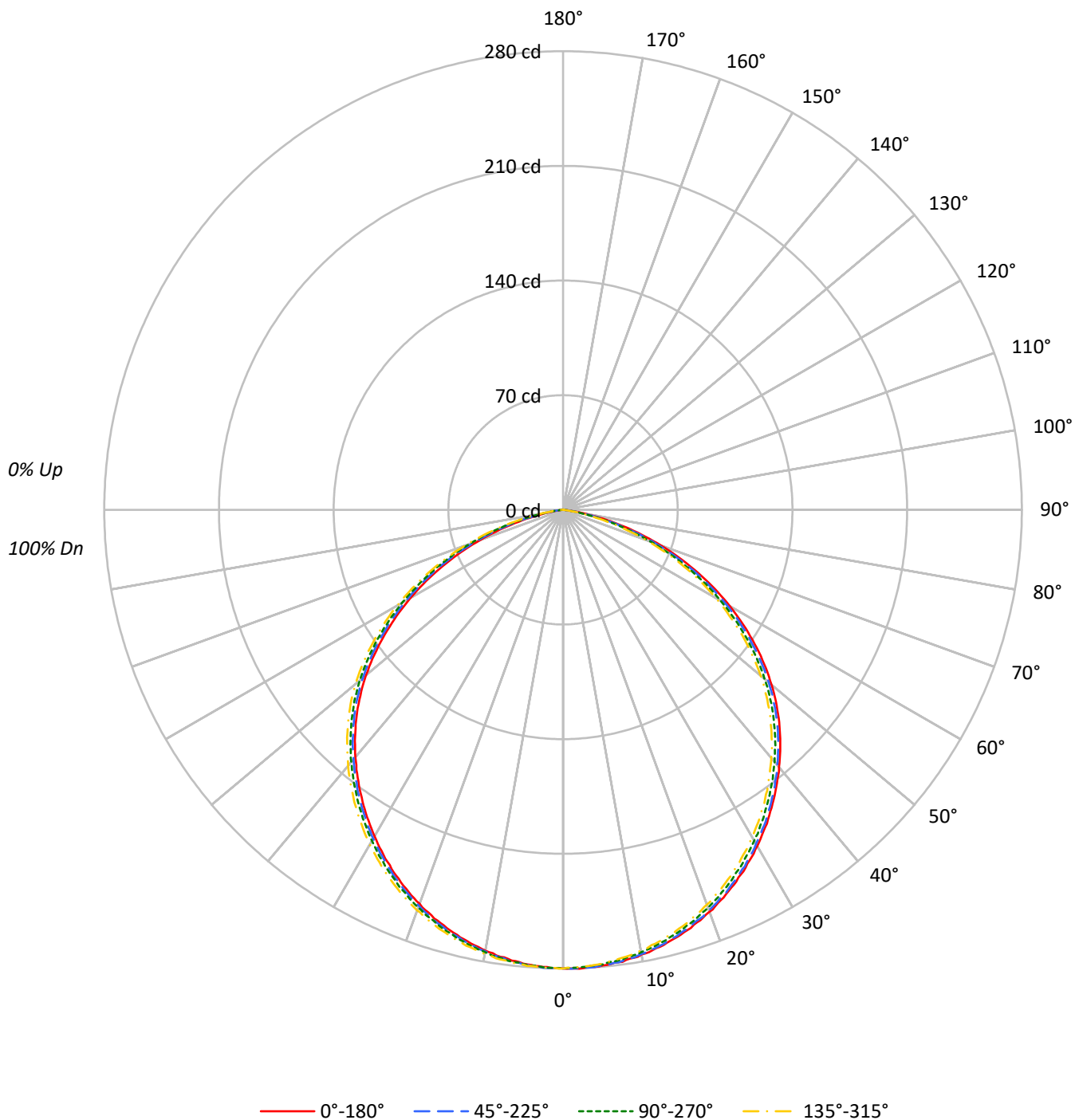
Lumens per Lamp: N/A
Luminaire Lumens: 739.0 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	34537	34537	34537	34537
5°	34570	34495	34433	34471
10°	34531	34356	34230	34343
15°	34465	34172	33955	34146
20°	34286	33931	33590	33918
25°	34079	33589	33248	33575
30°	33755	33214	32773	33228
35°	33428	32811	32269	32826
40°	33024	32364	31736	32380
45°	32567	31748	31085	31870
50°	31892	30799	30108	31086
55°	30687	29440	28558	29784
60°	28962	27407	26470	27925
65°	26530	24633	23553	25363
70°	22937	20556	19366	21710
75°	17681	14726	13392	16489
80°	9873	7174	6180	8879
85°	3538	2406	2264	3114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 32567 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	3.6
10°-20°	75.5	10.2
20°-30°	113.8	15.4
30°-40°	136.4	18.5
40°-50°	140.5	19.0
50°-60°	122.9	16.6
60°-70°	84.7	11.5
70°-80°	35.1	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°	215.8	29.2
0°-40°	352.3	47.7
0°-60°	615.6	83.3
0°-90°	738.8	100.0
90°-120°	0.0	0.0
90°-150°	0.1	0.0
90°-180°	0.0	0.0
0°-180°	739.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	280	280	280	280	280	
5°	279	279	278	278	279	27
15°	270	268	266	267	270	76
25°	250	247	244	247	250	115
35°	222	218	214	218	222	139
45°	187	182	178	183	187	144
55°	143	137	133	138	143	127
65°	91	84	81	87	91	90
75°	37	31	28	35	37	40
85°	2	2	2	2	2	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0
0.5°	280.2	280.2	279.9	280.0	279.8	279.7	279.6	279.8	279.8	280.1	280.3
1°	280.1	280.1	280.3	280.2	279.6	279.6	279.8	279.5	279.8	279.9	280.0
1.5°	280.1	280.2	280.2	280.0	279.6	279.8	279.7	279.2	279.8	279.7	279.8
2°	280.3	280.4	280.1	279.9	279.6	279.6	279.3	279.3	279.3	279.7	279.9
2.5°	280.1	280.0	279.9	279.6	279.4	279.1	279.1	279.2	279.3	279.4	279.8
3°	279.8	279.9	280.0	279.7	279.4	279.0	279.1	279.0	279.1	279.3	279.4
3.5°	279.7	279.9	279.9	279.4	278.9	279.2	278.9	278.6	279.0	278.9	278.9
4°	279.8	279.8	279.8	279.2	278.8	278.7	278.5	278.6	278.5	278.7	279.0
4.5°	279.6	279.5	279.4	279.2	278.6	278.5	278.4	278.2	278.4	278.5	278.7
5°	279.2	279.3	279.3	278.9	278.6	278.1	278.0	277.8	278.1	278.0	278.6
5.5°	279.1	279.0	279.1	278.5	277.9	278.2	277.5	277.3	277.4	277.7	277.9
6°	279.0	279.0	278.7	278.2	277.5	277.4	277.2	277.2	277.0	277.5	277.7
6.5°	278.3	278.7	278.3	277.9	277.5	277.3	277.0	276.6	277.0	277.1	277.2
7°	278.2	278.2	278.4	277.6	277.1	277.2	276.4	276.4	276.2	276.7	277.1
7.5°	278.3	277.7	277.7	277.2	276.9	276.4	275.8	275.7	275.6	276.1	276.2
8°	277.5	277.8	277.3	276.7	276.2	275.9	275.5	275.2	275.6	275.6	276.0
8.5°	277.0	277.2	276.9	276.3	275.8	275.6	275.1	274.9	275.1	275.3	275.5
9°	276.9	276.8	276.7	275.9	275.4	275.0	274.6	274.3	274.1	274.8	275.3
9.5°	276.6	276.3	276.0	275.3	275.1	274.5	273.8	273.5	273.8	274.1	274.4
10°	275.7	276.2	275.3	274.8	274.3	273.9	273.3	273.1	273.3	273.3	273.8
10.5°	275.4	275.3	275.0	274.1	273.8	273.3	273.1	272.7	272.6	272.9	273.3
11°	275.1	274.7	274.8	273.8	273.2	272.8	272.2	271.9	271.8	272.4	272.9
11.5°	274.3	274.2	273.8	273.2	272.8	272.0	271.2	271.0	271.3	271.6	272.0
12°	273.6	273.7	273.3	272.4	272.0	271.3	270.8	270.5	270.7	270.7	271.3
12.5°	273.3	273.0	272.7	271.7	271.2	270.9	270.1	269.9	269.8	270.4	270.6
13°	272.7	272.5	272.0	271.2	270.7	270.2	269.5	269.1	269.1	269.6	270.2
13.5°	271.8	271.7	271.3	270.5	270.1	269.2	268.4	268.2	268.5	268.5	269.1
14°	271.1	271.1	270.5	269.9	269.1	268.5	267.8	267.5	267.4	267.8	268.2
14.5°	270.5	270.4	269.8	268.9	268.3	267.9	267.3	266.8	266.7	267.1	267.7
15°	269.9	269.5	269.3	268.2	267.6	267.0	266.2	266.0	265.9	266.5	267.0
15.5°	269.1	268.8	268.2	267.5	266.9	265.8	265.2	265.0	265.1	265.4	266.0
16°	268.2	268.2	267.3	266.7	266.0	265.3	264.6	264.1	264.0	264.4	265.0
16.5°	267.5	267.4	266.9	265.6	265.0	264.6	263.7	263.5	263.1	263.6	264.2
17°	266.9	266.3	266.0	265.0	264.3	263.5	262.8	262.3	262.2	262.7	263.5
17.5°	265.6	265.5	264.8	264.1	263.5	262.5	261.6	261.0	261.6	261.7	262.4
18°	264.8	264.9	263.9	263.2	262.5	261.6	260.6	260.3	260.2	260.6	261.1
18.5°	264.2	263.8	263.3	262.0	261.4	260.6	259.9	259.4	259.2	259.7	260.5
19°	263.1	262.8	262.5	261.2	260.3	259.7	258.8	258.2	258.4	258.8	259.5
19.5°	262.0	261.9	261.2	260.3	259.6	258.5	257.5	257.1	257.4	257.6	258.4
20°	261.2	261.0	260.3	259.2	258.5	257.4	256.6	256.1	255.9	256.4	257.2
20.5°	260.5	260.1	259.3	258.1	257.4	256.6	255.8	255.0	255.0	255.5	256.3
21°	259.2	258.8	258.3	257.1	256.4	255.4	254.3	253.9	253.9	254.4	255.4
21.5°	257.9	257.7	257.3	255.9	255.3	254.1	253.1	252.8	253.0	253.2	254.0
22°	257.0	257.0	255.8	254.9	254.3	253.0	252.1	251.5	251.6	252.0	252.9

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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°	256.2	255.8	254.9	253.6	252.9	252.1	251.1	250.3	250.4	250.9	251.8
23°	254.9	254.4	254.2	252.5	251.8	250.7	249.7	249.4	249.3	249.8	250.6
23.5°	253.7	253.4	252.7	251.4	250.7	249.5	248.4	248.0	248.1	248.4	249.2
24°	252.5	252.3	251.4	250.2	249.5	248.2	247.2	246.6	246.6	247.0	248.0
24.5°	251.5	251.2	250.3	249.0	248.3	247.4	246.1	245.6	245.5	246.0	246.9
25°	250.4	249.7	249.2	247.7	246.8	245.7	244.8	244.2	244.3	244.8	245.6
25.5°	248.7	248.7	247.9	246.7	245.4	244.4	243.3	243.0	242.9	243.3	244.2
26°	247.7	247.5	246.5	245.2	244.4	243.3	242.0	241.5	241.3	241.9	243.0
26.5°	246.7	246.2	245.2	243.8	243.2	241.9	241.0	240.2	240.1	240.6	241.8
27°	245.3	244.9	244.3	242.5	241.8	240.5	239.3	238.9	239.0	239.5	240.1
27.5°	243.6	243.5	242.7	241.4	240.3	239.2	237.8	237.4	237.4	237.9	238.6
28°	242.4	242.2	241.3	239.8	238.9	237.8	236.5	235.9	235.8	236.4	237.6
28.5°	241.3	240.8	239.8	238.5	237.7	236.6	235.4	234.6	234.7	235.1	236.1
29°	240.0	239.5	238.7	237.0	236.2	235.0	233.5	233.1	233.1	233.8	234.5
29.5°	238.3	238.0	237.3	235.6	234.8	233.3	232.2	231.9	231.5	232.1	233.1
30°	237.0	236.7	235.5	234.2	233.2	232.1	230.8	230.0	230.1	230.6	231.8
30.5°	235.6	235.3	234.1	232.7	231.7	230.8	229.4	228.6	228.7	229.2	230.3
31°	234.2	233.7	233.0	231.2	230.7	229.0	227.7	227.2	227.0	227.8	228.7
31.5°	232.6	232.2	231.2	229.9	228.9	227.4	226.2	225.7	225.5	226.1	227.3
32°	231.1	231.0	229.7	228.1	227.2	226.2	224.8	223.9	223.9	224.6	225.9
32.5°	229.7	229.3	228.4	226.5	225.9	224.5	223.2	222.7	222.5	223.0	224.1
33°	228.4	227.6	227.0	225.3	224.4	222.8	221.4	221.0	220.9	221.5	222.5
33.5°	226.5	226.2	225.2	223.6	222.8	221.2	219.8	219.4	219.2	219.8	220.9
34°	225.0	224.7	223.6	222.0	221.0	219.8	218.3	217.7	217.7	218.2	219.5
34.5°	223.4	223.1	222.0	220.3	219.4	217.9	216.9	216.1	216.1	216.5	217.8
35°	222.0	221.6	220.6	218.8	217.9	216.4	215.1	214.5	214.3	215.0	216.0
35.5°	220.3	219.8	218.8	217.2	216.3	214.7	213.3	212.9	212.7	213.3	214.4
36°	218.7	218.3	217.1	215.3	214.7	213.2	212.0	211.0	211.1	211.7	213.0
36.5°	217.0	216.7	215.7	213.8	212.7	211.5	210.1	209.4	209.5	209.9	211.2
37°	215.4	215.0	214.0	212.2	211.3	209.7	208.1	207.7	207.5	208.3	209.2
37.5°	213.7	213.1	212.3	210.5	209.6	207.9	206.6	205.9	205.9	206.5	207.8
38°	211.9	211.6	210.2	208.7	207.9	206.4	205.0	204.0	204.2	204.9	206.2
38.5°	210.2	210.0	208.8	206.9	206.0	204.4	203.0	202.4	202.6	203.0	204.3
39°	208.7	208.1	207.2	205.3	204.3	202.7	201.3	200.8	200.5	201.5	202.5
39.5°	207.1	206.4	205.2	203.5	202.5	200.9	199.7	198.9	198.9	199.6	200.7
40°	205.1	204.7	203.4	201.5	201.0	199.3	197.7	196.9	197.1	197.8	199.0
40.5°	203.3	202.9	201.8	199.8	198.9	197.4	195.8	195.3	195.3	195.8	197.2
41°	201.6	201.1	199.9	198.3	197.0	195.3	194.2	193.4	193.4	194.3	195.3
41.5°	199.9	199.2	197.9	196.2	195.2	193.7	192.5	191.6	191.6	192.4	193.7
42°	198.0	197.6	196.2	194.3	193.7	191.9	190.4	189.7	189.9	190.5	191.9
42.5°	196.1	195.5	194.5	192.6	191.7	189.9	188.4	187.9	187.8	188.5	189.9
43°	194.3	193.9	192.5	190.7	189.7	188.0	186.7	186.1	185.9	186.8	188.0
43.5°	192.6	191.8	190.5	188.7	187.8	186.2	184.7	184.0	184.0	184.7	186.1
44°	190.6	190.0	188.7	186.7	186.0	184.2	182.6	182.0	182.2	182.9	184.4
44.5°	188.6	188.2	186.8	184.8	183.9	182.2	180.6	180.1	180.1	180.8	182.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	186.7	186.1	184.8	182.9	182.0	180.2	178.8	178.2	178.2	178.9	180.3
45.5°	184.9	184.1	182.7	180.8	179.9	178.3	176.9	176.0	176.1	176.9	178.5
46°	183.0	182.4	180.9	178.8	178.0	176.2	174.7	174.0	174.2	174.9	176.4
46.5°	180.8	180.3	178.9	176.9	175.9	174.1	172.4	172.0	171.9	172.8	174.2
47°	178.7	178.2	176.8	174.7	174.0	172.1	170.7	169.8	169.9	170.9	172.4
47.5°	176.9	176.0	174.5	172.6	171.6	170.0	168.4	167.6	167.8	168.7	170.2
48°	174.8	174.1	172.5	170.4	169.5	167.8	166.1	165.7	165.8	166.7	168.1
48.5°	172.6	172.0	170.5	168.3	167.4	165.6	164.0	163.5	163.6	164.3	165.9
49°	170.5	169.7	168.2	166.2	165.3	163.4	162.0	161.1	161.3	162.2	164.0
49.5°	168.4	167.6	166.0	163.8	162.8	161.2	159.5	158.8	159.1	160.0	161.7
50°	166.2	165.4	163.9	161.6	160.5	158.8	157.3	156.6	156.9	157.7	159.3
50.5°	163.8	163.1	161.4	159.5	158.4	156.6	155.1	154.3	154.4	155.3	157.0
51°	161.8	160.8	159.2	156.9	156.2	154.3	152.7	152.0	152.2	153.1	154.9
51.5°	159.4	158.5	157.0	154.5	153.8	151.9	150.2	149.6	149.9	150.8	152.6
52°	157.1	156.2	154.6	152.5	151.3	149.5	147.9	147.3	147.6	148.6	150.1
52.5°	154.8	154.0	152.2	150.0	149.0	147.3	145.5	144.9	145.1	146.0	147.6
53°	152.4	151.4	149.8	147.6	146.7	144.8	143.2	142.5	142.6	143.6	145.4
53.5°	150.1	149.0	147.4	145.0	144.1	142.3	140.7	140.1	140.2	141.2	143.0
54°	147.6	146.8	145.0	142.8	141.6	139.8	138.2	137.7	137.9	138.9	140.5
54.5°	145.2	144.3	142.4	140.2	139.3	137.6	135.8	135.2	135.3	136.4	138.0
55°	142.7	141.8	140.0	137.7	136.9	134.9	133.4	132.8	132.8	133.8	135.8
55.5°	140.4	139.3	137.8	135.2	134.2	132.4	130.7	130.3	130.3	131.3	133.1
56°	137.8	136.9	135.2	132.9	131.7	129.9	128.2	127.7	127.8	129.0	130.6
56.5°	135.4	134.4	132.6	130.2	129.3	127.4	125.8	125.2	125.3	126.3	128.2
57°	132.9	131.8	130.0	127.6	126.8	124.8	123.2	122.6	122.7	123.7	125.8
57.5°	130.3	129.3	127.6	124.9	124.1	122.2	120.5	120.0	120.3	121.3	123.1
58°	127.7	126.7	125.0	122.6	121.5	119.7	118.1	117.5	117.7	118.7	120.5
58.5°	125.2	124.2	122.2	120.0	119.0	117.1	115.6	114.9	115.1	116.2	118.0
59°	122.7	121.6	119.8	117.2	116.4	114.5	112.9	112.4	112.4	113.5	115.5
59.5°	120.1	119.0	117.3	114.8	113.8	111.8	110.2	109.6	109.9	110.9	112.8
60°	117.4	116.2	114.6	112.3	111.1	109.3	107.7	107.1	107.3	108.3	110.2
60.5°	114.9	113.7	111.8	109.4	108.4	106.6	105.1	104.6	104.6	105.8	107.6
61°	112.2	111.1	109.3	106.7	105.9	103.9	102.4	101.9	102.0	103.1	105.2
61.5°	109.6	108.5	106.6	104.2	103.2	101.4	99.7	99.1	99.4	100.5	102.4
62°	107.0	105.8	103.9	101.6	100.5	98.7	97.2	96.6	96.9	97.9	99.8
62.5°	104.3	103.2	101.2	98.8	98.0	96.1	94.7	94.0	94.2	95.4	97.1
63°	101.6	100.5	98.6	96.1	95.2	93.3	91.9	91.3	91.5	92.7	94.7
63.5°	99.0	97.8	95.8	93.5	92.5	90.6	89.2	88.6	88.8	90.0	92.0
64°	96.2	95.0	93.1	90.6	89.8	87.9	86.5	85.9	86.2	87.3	89.3
64.5°	93.6	92.4	90.4	87.9	87.1	85.2	83.8	83.2	83.5	84.6	86.7
65°	90.9	89.9	87.8	85.3	84.4	82.4	81.0	80.5	80.7	81.9	84.0
65.5°	88.2	87.0	85.1	82.6	81.7	79.7	78.2	77.7	78.0	79.3	81.2
66°	85.3	84.2	82.2	79.8	78.9	77.0	75.5	75.0	75.3	76.5	78.5
66.5°	82.7	81.5	79.5	77.0	76.2	74.3	72.8	72.3	72.6	73.8	75.9
67°	80.0	78.9	76.8	74.4	73.4	71.6	70.1	69.6	69.9	71.1	73.2

TEST NUMBER: P1504209

CATALOG NUMBER: JBD4FS5-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	77.2	76.0	74.1	71.6	70.7	68.9	67.3	66.9	67.2	68.5	70.5
68°	74.5	73.3	71.3	68.8	67.9	66.1	64.7	64.1	64.5	65.7	67.8
68.5°	71.8	70.6	68.6	66.1	65.2	63.4	61.9	61.5	61.8	63.1	65.1
69°	69.1	67.9	65.9	63.4	62.5	60.6	59.3	58.8	59.2	60.4	62.4
69.5°	66.3	65.1	63.1	60.7	59.8	58.0	56.5	56.1	56.4	57.7	59.7
70°	63.6	62.4	60.4	57.9	57.0	55.3	53.9	53.4	53.7	55.0	57.0
70.5°	60.9	59.6	57.6	55.2	54.4	52.5	51.2	50.7	51.1	52.4	54.4
71°	58.2	57.0	55.0	52.6	51.7	49.9	48.5	48.1	48.4	49.7	51.8
71.5°	55.5	54.3	52.3	49.9	49.0	47.3	45.9	45.5	45.8	47.2	49.1
72°	52.8	51.6	49.6	47.2	46.3	44.6	43.3	42.8	43.2	44.5	46.5
72.5°	50.1	48.8	47.0	44.6	43.7	42.0	40.7	40.2	40.6	41.9	43.9
73°	47.5	46.2	44.2	41.9	41.0	39.4	38.0	37.6	38.0	39.3	41.3
73.5°	44.8	43.5	41.6	39.3	38.5	36.8	35.4	35.1	35.6	36.8	38.8
74°	42.1	40.9	38.8	36.8	35.9	34.3	33.0	32.7	33.1	34.3	36.4
74.5°	39.7	38.4	36.3	34.3	33.4	31.8	30.6	30.2	30.6	31.8	33.8
75°	37.1	35.9	33.8	31.8	30.9	29.4	28.1	27.7	28.1	29.4	31.3
75.5°	34.6	33.3	31.4	29.3	28.5	26.9	25.7	25.4	25.8	27.1	29.0
76°	32.1	30.8	28.9	26.8	26.0	24.6	23.4	23.1	23.5	24.7	26.6
76.5°	29.6	28.3	26.5	24.5	23.7	22.2	21.1	20.8	21.2	22.5	24.3
77°	27.1	25.8	24.2	22.1	21.5	20.1	18.9	18.7	19.1	20.3	22.1
77.5°	24.7	23.5	21.9	19.9	19.3	17.9	16.8	16.6	17.0	18.2	19.9
78°	22.4	21.2	19.6	17.8	17.1	15.8	14.8	14.6	15.0	16.1	17.8
78.5°	20.2	19.0	17.5	15.7	15.0	13.8	12.9	12.7	13.1	14.1	15.8
79°	18.0	16.9	15.4	13.7	13.1	12.3	11.4	11.3	11.6	12.3	13.9
79.5°	15.9	14.8	13.4	11.9	11.6	10.8	10.0	9.8	10.2	10.9	12.1
80°	13.9	12.9	11.6	10.1	10.1	9.4	8.5	8.4	8.7	9.5	10.7
80.5°	12.1	11.1	9.9	8.6	8.6	7.9	7.0	6.9	7.2	8.1	9.3
81°	10.3	9.5	8.4	7.1	7.1	6.4	5.6	5.5	5.8	6.7	7.9
81.5°	8.7	7.9	6.9	5.8	5.6	4.9	4.5	4.4	4.6	5.3	6.5
82°	7.3	6.6	5.7	4.6	4.4	3.9	3.5	3.5	3.7	4.2	5.1
82.5°	6.0	5.4	4.5	3.5	3.5	3.1	2.9	2.9	3.0	3.4	4.0
83°	4.8	4.2	4.0	3.2	2.9	2.7	2.6	2.6	2.6	2.8	3.2
83.5°	3.8	3.7	3.5	2.8	2.6	2.4	2.3	2.3	2.4	2.5	2.7
84°	3.3	3.2	3.0	2.4	2.3	2.1	2.0	2.0	2.1	2.3	2.5
84.5°	2.9	2.7	2.5	2.0	2.0	1.8	1.8	1.8	1.8	2.0	2.2
85°	2.5	2.2	2.0	1.8	1.7	1.7	1.6	1.6	1.6	1.7	1.9
85.5°	2.1	1.9	1.8	1.6	1.6	1.4	1.3	1.3	1.4	1.6	1.7
86°	1.8	1.7	1.6	1.4	1.3	1.1	1.0	1.0	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	1.2
87°	1.4	1.2	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	0.6	0.5	0.5	0.5	0.5	0.7	0.8
88°	0.9	0.8	0.7	0.5	0.4	0.2	0.1	0.2	0.3	0.4	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: P1504209

CATALOG NUMBER: JBD4FS5-3000K

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: P1504209

CATALOG NUMBER: JBD4FS5-3000K

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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0
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	0.0	0.0	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: P1504209

CATALOG NUMBER: JBD4FS5-3000K

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	0.1	0.1	0.1	0.1	0.1
156.5°	0.1	0.1	0.1	0.1	0.1	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	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1504209

CATALOG NUMBER: JBD4FS5-3000K

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	0.1	0.2	0.1	0.1	0.1	0.1
158°	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1	0.1	0.1	0.1
159°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1
159.5°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1
160°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2
160.5°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	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	0.1	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	0.1
171.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
172°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
172.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1
173°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1
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	0.1	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	0.1	0.1	0.1	0.1	0.1
176°	0.1	0.1	0.1	0.1	0.1	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	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: P1504209
CATALOG NUMBER: JBD4FS5-3000K

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: P1504209

CATALOG NUMBER: JBD4FS5-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	280.0	280.0	280.0	280.0	280.0	280.0
0.5°	280.1	279.8	279.9	280.1	279.9	280.2
1°	280.2	279.7	279.8	279.8	279.7	280.1
1.5°	279.7	279.7	279.6	279.8	279.9	280.1
2°	279.7	279.8	279.7	279.7	279.8	280.3
2.5°	279.7	279.5	279.8	279.8	279.6	280.1
3°	279.6	279.2	279.3	279.5	279.5	279.8
3.5°	279.3	278.9	279.1	279.3	279.4	279.7
4°	278.9	279.0	279.1	279.1	279.4	279.8
4.5°	278.9	278.7	278.9	279.3	279.2	279.6
5°	278.6	278.4	278.7	278.7	279.0	279.2
5.5°	278.2	277.8	278.3	278.5	278.9	279.1
6°	277.8	277.8	278.4	278.4	278.5	279.0
6.5°	277.5	277.6	277.8	278.1	278.5	278.3
7°	277.4	277.3	277.4	277.5	278.1	278.2
7.5°	276.6	276.6	276.9	277.3	277.6	278.3
8°	276.2	276.2	276.8	277.1	277.1	277.5
8.5°	275.9	275.7	276.4	276.8	277.1	277.0
9°	275.4	275.7	275.8	276.1	276.6	276.9
9.5°	274.8	274.8	275.3	275.8	276.1	276.6
10°	274.2	274.2	274.8	275.4	275.4	275.7
10.5°	273.7	273.6	274.3	274.7	275.4	275.4
11°	273.2	273.2	273.6	274.1	274.5	275.1
11.5°	272.4	272.5	272.9	273.6	274.2	274.3
12°	271.8	272.0	272.6	273.0	273.4	273.6
12.5°	271.1	271.2	271.9	272.6	272.9	273.3
13°	270.6	270.4	271.2	271.8	272.3	272.7
13.5°	269.8	269.9	270.4	271.0	271.8	271.8
14°	269.0	269.3	269.8	270.5	270.8	271.1
14.5°	268.2	268.2	269.2	269.7	270.1	270.5
15°	267.7	267.4	268.3	268.9	269.6	269.9
15.5°	266.5	266.9	267.3	268.0	268.9	269.1
16°	265.7	266.0	266.8	267.3	267.9	268.2
16.5°	265.1	265.1	266.0	266.7	267.0	267.5
17°	264.1	264.1	265.1	265.7	266.2	266.9
17.5°	262.9	263.0	264.1	264.8	265.7	265.6
18°	262.2	262.2	263.2	264.0	264.5	264.8
18.5°	261.2	261.5	262.5	263.1	263.5	264.2
19°	260.5	260.6	261.4	262.3	262.7	263.1
19.5°	259.1	259.3	260.3	260.9	261.9	262.0
20°	258.2	258.4	259.3	260.2	260.8	261.2
20.5°	257.1	257.4	258.4	259.3	259.6	260.5
21°	256.2	256.3	257.1	258.2	258.7	259.2
21.5°	254.9	255.3	256.0	256.9	257.7	257.9
22°	253.9	254.0	255.1	256.0	256.6	257.0

TEST NUMBER: P1504209

CATALOG NUMBER: JBD4FS5-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	252.6	252.7	254.1	254.9	255.7	256.2
23°	251.8	251.8	252.7	253.9	254.4	254.9
23.5°	250.2	250.8	251.5	252.5	253.2	253.7
24°	249.1	249.4	250.4	251.5	252.3	252.5
24.5°	248.1	248.0	249.4	250.3	251.1	251.5
25°	246.7	246.7	248.0	249.1	249.8	250.4
25.5°	245.3	245.7	246.7	247.9	248.4	248.7
26°	244.3	244.4	245.5	246.7	247.4	247.7
26.5°	242.8	243.1	244.6	245.1	246.1	246.7
27°	241.6	241.5	243.0	244.1	244.6	245.3
27.5°	240.0	240.3	241.5	242.6	243.3	243.6
28°	238.7	239.2	240.2	241.4	242.2	242.4
28.5°	237.4	237.6	239.1	240.0	240.7	241.3
29°	236.1	236.1	237.7	238.7	239.3	240.0
29.5°	234.4	234.7	236.1	237.4	238.0	238.3
30°	233.1	233.3	234.7	235.9	236.6	237.0
30.5°	231.7	232.0	233.2	234.3	235.2	235.6
31°	230.1	230.4	231.8	233.0	233.8	234.2
31.5°	228.5	228.8	230.4	231.6	232.2	232.6
32°	227.3	227.3	228.8	230.0	231.0	231.1
32.5°	225.7	225.9	227.1	228.4	229.2	229.7
33°	223.9	224.5	225.8	227.0	227.6	228.4
33.5°	222.3	222.6	224.4	225.7	226.3	226.5
34°	221.2	221.1	222.6	223.8	224.8	225.0
34.5°	219.2	219.7	220.9	222.2	223.2	223.4
35°	217.5	218.0	219.5	220.8	221.4	222.0
35.5°	216.1	216.4	218.0	219.3	219.9	220.3
36°	214.5	214.7	216.2	217.6	218.4	218.7
36.5°	212.8	212.9	214.5	215.8	216.7	217.0
37°	211.0	211.4	212.9	214.2	214.9	215.4
37.5°	209.3	209.8	211.3	212.8	213.1	213.7
38°	207.8	208.0	209.7	210.7	211.7	211.9
38.5°	205.9	206.1	207.7	209.2	210.1	210.2
39°	204.1	204.6	206.2	207.5	208.2	208.7
39.5°	202.5	202.8	204.5	205.8	206.5	207.1
40°	200.8	201.1	202.6	204.1	204.8	205.1
40.5°	198.8	199.4	200.8	202.2	203.1	203.3
41°	197.0	197.5	199.1	200.4	201.3	201.6
41.5°	195.3	195.6	197.3	198.7	199.5	199.9
42°	193.5	194.0	195.4	197.0	197.7	198.0
42.5°	191.4	192.1	193.7	195.0	196.0	196.1
43°	189.6	190.2	191.8	193.1	194.1	194.3
43.5°	187.9	188.2	190.0	191.5	192.2	192.6
44°	185.9	186.4	188.2	189.5	190.2	190.6
44.5°	183.9	184.4	186.2	187.5	188.6	188.6

TEST NUMBER: P1504209

CATALOG NUMBER: JBD4FS5-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	182.2	182.7	184.2	185.6	186.5	186.7
45.5°	180.2	180.6	182.3	183.9	184.6	184.9
46°	178.1	178.5	180.4	181.8	182.5	183.0
46.5°	176.0	176.5	178.2	179.8	180.7	180.8
47°	174.0	174.7	176.2	177.7	178.6	178.7
47.5°	172.1	172.7	174.5	175.9	176.7	176.9
48°	170.0	170.6	172.3	173.9	174.4	174.8
48.5°	167.8	168.3	170.1	171.7	172.6	172.6
49°	165.6	166.3	168.0	169.5	170.5	170.5
49.5°	163.6	164.1	165.9	167.6	168.3	168.4
50°	161.3	162.0	163.6	165.3	166.0	166.2
50.5°	158.9	159.6	161.3	163.0	163.8	163.8
51°	156.7	157.2	159.1	160.7	161.5	161.8
51.5°	154.7	155.0	156.9	158.6	159.5	159.4
52°	152.1	152.8	154.6	156.2	157.1	157.1
52.5°	149.8	150.4	152.2	153.8	154.7	154.8
53°	147.5	148.1	149.8	151.6	152.4	152.4
53.5°	145.1	145.6	147.6	149.2	150.1	150.1
54°	142.7	143.1	145.2	146.8	147.6	147.6
54.5°	140.3	140.9	142.6	144.3	145.0	145.2
55°	137.7	138.5	140.2	141.9	142.8	142.7
55.5°	135.3	135.9	138.0	139.4	140.4	140.4
56°	132.9	133.4	135.4	137.1	137.8	137.8
56.5°	130.3	131.0	132.9	134.5	135.3	135.4
57°	127.8	128.3	130.4	132.1	132.9	132.9
57.5°	125.4	125.9	127.9	129.6	130.2	130.3
58°	122.9	123.5	125.4	127.1	127.8	127.7
58.5°	120.3	120.8	122.9	124.4	125.2	125.2
59°	117.7	118.2	120.3	122.0	122.7	122.7
59.5°	115.3	115.7	117.7	119.4	120.0	120.1
60°	112.6	113.2	115.1	116.7	117.6	117.4
60.5°	109.9	110.6	112.6	114.1	114.9	114.9
61°	107.4	108.1	109.8	111.6	112.3	112.2
61.5°	104.8	105.4	107.3	109.0	109.7	109.6
62°	102.2	102.7	104.8	106.4	107.1	107.0
62.5°	99.5	100.1	102.1	103.7	104.4	104.3
63°	96.8	97.6	99.4	101.1	101.8	101.6
63.5°	94.5	94.9	96.8	98.5	99.0	99.0
64°	91.8	92.2	94.1	95.8	96.4	96.2
64.5°	89.1	89.5	91.5	93.0	93.8	93.6
65°	86.4	86.9	88.8	90.4	91.1	90.9
65.5°	83.8	84.3	86.1	87.8	88.3	88.2
66°	81.0	81.5	83.4	85.0	85.7	85.3
66.5°	78.3	78.9	80.8	82.4	83.0	82.7
67°	75.6	76.2	78.1	79.6	80.2	80.0

TEST NUMBER: P1504209

CATALOG NUMBER: JBD4FS5-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	72.9	73.6	75.4	77.0	77.5	77.2
68°	70.2	70.9	72.7	74.3	74.9	74.5
68.5°	67.6	68.2	70.1	71.6	72.1	71.8
69°	64.9	65.5	67.4	68.9	69.4	69.1
69.5°	62.2	62.8	64.7	66.1	66.7	66.3
70°	59.5	60.2	62.0	63.4	63.9	63.6
70.5°	57.0	57.6	59.4	60.8	61.2	60.9
71°	54.3	54.9	56.7	58.1	58.6	58.2
71.5°	51.6	52.3	54.1	55.4	55.9	55.5
72°	49.0	49.7	51.4	52.8	53.2	52.8
72.5°	46.5	47.1	48.8	50.2	50.5	50.1
73°	43.8	44.5	46.2	47.5	47.9	47.5
73.5°	41.2	41.9	43.6	44.8	45.2	44.8
74°	38.8	39.4	41.1	42.3	42.6	42.1
74.5°	36.3	37.0	38.6	39.7	40.0	39.7
75°	33.8	34.6	36.1	37.3	37.5	37.1
75.5°	31.3	32.1	33.7	34.8	35.0	34.6
76°	28.9	29.7	31.2	32.3	32.5	32.1
76.5°	26.6	27.2	28.7	29.8	30.0	29.6
77°	24.3	24.9	26.4	27.4	27.5	27.1
77.5°	22.0	22.6	24.1	25.1	25.2	24.7
78°	19.9	20.5	21.9	22.8	22.9	22.4
78.5°	17.7	18.3	19.7	20.6	20.7	20.2
79°	15.8	16.4	17.6	18.4	18.5	18.0
79.5°	13.8	14.4	15.6	16.4	16.3	15.9
80°	12.0	12.5	13.6	14.4	14.4	13.9
80.5°	10.6	10.8	11.9	12.6	12.6	12.1
81°	9.2	9.2	10.2	10.8	10.8	10.3
81.5°	7.9	7.7	8.6	9.1	9.2	8.7
82°	6.5	6.4	7.2	7.7	7.7	7.3
82.5°	5.1	5.3	5.9	6.4	6.3	6.0
83°	4.0	4.2	4.8	5.2	5.1	4.8
83.5°	3.2	3.7	3.8	4.1	4.1	3.8
84°	2.7	3.2	3.4	3.6	3.6	3.3
84.5°	2.4	2.7	2.9	3.1	3.1	2.9
85°	2.2	2.2	2.5	2.7	2.6	2.5
85.5°	1.9	1.9	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°	0.7	0.8	0.9	0.9	0.9	0.9
88.5°	0.6	0.6	0.7	0.7	0.7	0.7
89°	0.3	0.4	0.5	0.6	0.6	0.5
89.5°	0.1	0.1	0.2	0.4	0.3	0.2



TEST NUMBER: P1504209

CATALOG NUMBER: JBD4FS5-3000K

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: P1504209

CATALOG NUMBER: JBD4FS5-3000K

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	0.0	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	0.0	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	0.0	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	0.0	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: P1504209

CATALOG NUMBER: JBD4FS5-3000K

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: P1504209

CATALOG NUMBER: JBD4FS5-3000K

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°	0.1	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°	0.1	0.1	0.1	0.1	0.1	0.1
170.5°	0.1	0.1	0.1	0.1	0.1	0.1
171°	0.1	0.1	0.1	0.1	0.1	0.1
171.5°	0.1	0.1	0.1	0.1	0.1	0.1
172°	0.1	0.1	0.1	0.1	0.1	0.1
172.5°	0.1	0.1	0.1	0.1	0.1	0.1
173°	0.1	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: P1504209
CATALOG NUMBER: JBD4FS5-3000K

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: P1504209

CATALOG NUMBER: JBD4FS5-3000K

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	24.2	25.8	24.6	26.1	26.5	23.9	25.5	24.3	25.8	26.1
	3H	25.7	27.1	26.1	27.5	27.8	25.2	26.7	25.6	27.0	27.4
	4H	26.1	27.5	26.5	27.8	28.2	25.6	26.9	26.0	27.3	27.6
	6H	26.3	27.5	26.7	27.9	28.3	25.7	26.9	26.1	27.3	27.7
	8H	26.3	27.4	26.7	27.8	28.2	25.6	26.8	26.1	27.2	27.6
	12H	26.2	27.4	26.7	27.7	28.2	25.6	26.7	26.0	27.1	27.6
4H	2H	24.8	26.1	25.2	26.5	26.8	24.4	25.8	24.8	26.1	26.5
	3H	26.4	27.5	26.8	27.9	28.3	25.9	27.1	26.3	27.5	27.9
	4H	26.9	27.9	27.3	28.3	28.8	26.3	27.3	26.8	27.7	28.2
	6H	27.1	28.0	27.6	28.4	28.9	26.4	27.3	26.9	27.8	28.2
	8H	27.1	27.9	27.6	28.4	28.8	26.4	27.2	26.9	27.7	28.1
	12H	27.1	27.8	27.6	28.3	28.8	26.4	27.1	26.9	27.6	28.1
8H	4H	27.0	27.8	27.5	28.3	28.8	26.4	27.3	26.9	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	28.4	28.9	26.6	27.1	27.1	27.7	28.1
	12H	27.3	27.8	27.8	28.3	28.8	26.5	27.1	27.0	27.6	28.1
12H	4H	27.0	27.7	27.5	28.2	28.7	26.4	27.2	26.9	27.6	28.1
	6H	27.3	27.9	27.8	28.3	28.9	26.6	27.2	27.1	27.6	28.2
	8H	27.3	27.8	27.8	28.3	28.8	26.5	27.1	27.1	27.6	28.1

































(END OF REPORT)