

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: P1504211

Luminaire Tested: JBD4FS5-4000K

Issue Date: 7/31/2026

Test Information

Test Method: LM-79-2019
Report Number: P1504211
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: JBD4FS5-4000K
Description: Slim 4" Surface Mount downlight 700 Lumens at 4000K

Light Source:
Ballast/Driver: -

Summary

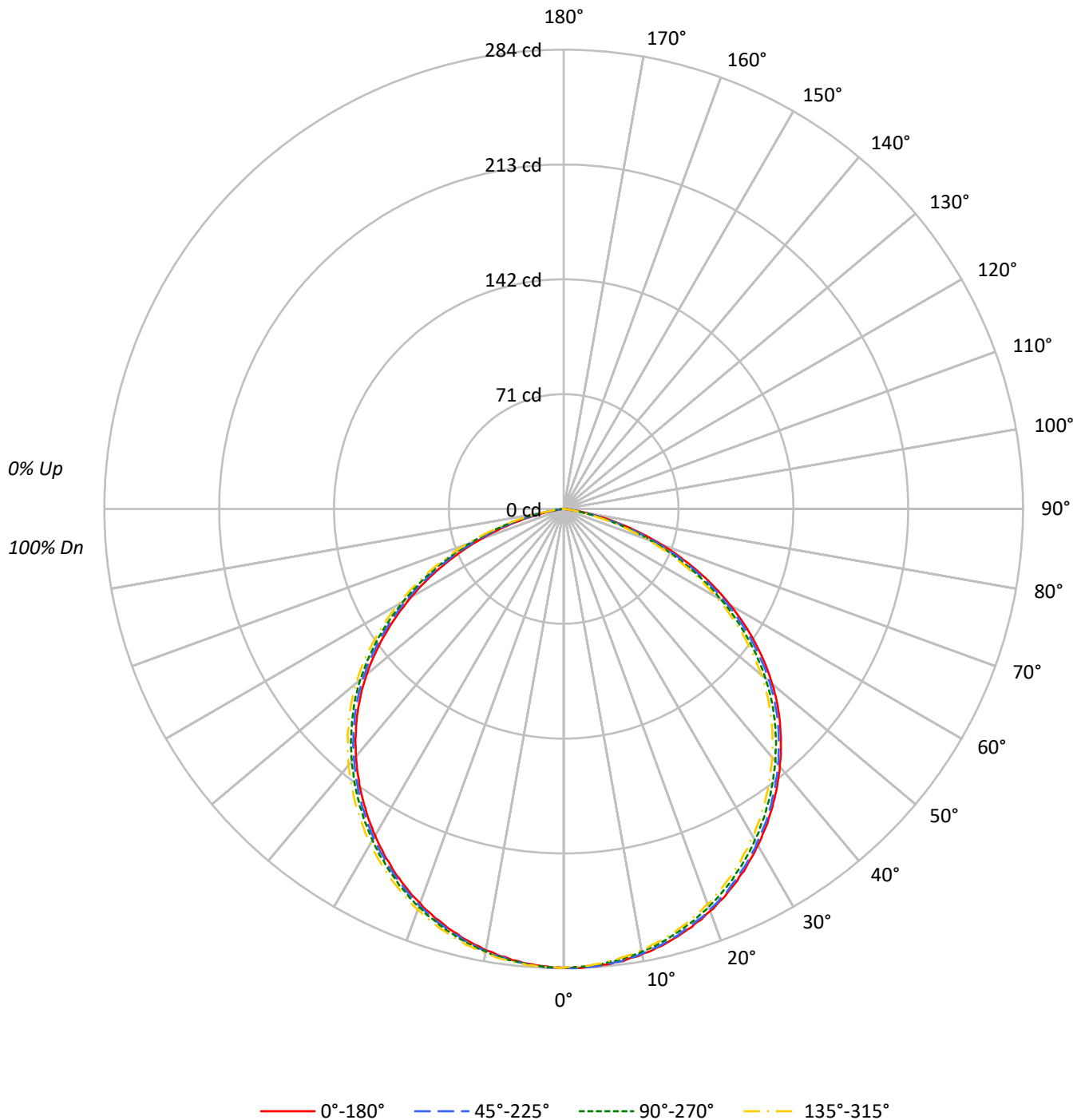
Lumens per Lamp: N/A
Luminaire Lumens: 749.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	35005	35005	35005	35005
5°	35028	34953	34904	34929
10°	35007	34819	34694	34807
15°	34925	34631	34414	34606
20°	34745	34391	34049	34377
25°	34541	34051	33698	34038
30°	34211	33670	33214	33684
35°	33880	33247	32705	33263
40°	33475	32799	32171	32815
45°	33003	32184	31503	32306
50°	32315	31221	30511	31509
55°	31096	29827	28945	30171
60°	29356	27777	26840	28295
65°	26910	24954	23874	25713
70°	23261	20809	19619	21999
75°	17919	14917	13582	16680
80°	10016	7245	6251	9021
85°	3538	2547	2406	3114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 33003 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	3.6
10°-20°	76.6	10.2
20°-30°	115.4	15.4
30°-40°	138.3	18.5
40°-50°	142.4	19.0
50°-60°	124.5	16.6
60°-70°	85.8	11.5
70°-80°	35.6	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°	218.8	29.2
0°-40°	357.0	47.7
0°-60°	623.9	83.3
0°-90°	748.7	100.0
90°-120°	0.0	0.0
90°-150°	0.2	0.0
90°-180°	0.0	0.0
0°-180°	749.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	284	284	284	284	284	
5°	283	282	282	282	283	27
15°	274	271	270	271	274	77
25°	254	250	248	250	254	117
35°	225	221	217	221	225	141
45°	189	184	181	185	189	146
55°	145	139	135	140	145	129
65°	92	86	82	88	92	91
75°	38	31	28	35	38	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°	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8
0.5°	284.0	284.0	283.7	283.8	283.5	283.5	283.3	283.6	283.6	283.9	284.1
1°	283.8	283.9	284.1	284.0	283.4	283.4	283.5	283.3	283.6	283.7	283.8
1.5°	283.9	284.0	284.0	283.8	283.4	283.6	283.4	283.0	283.6	283.5	283.6
2°	284.1	284.2	283.9	283.7	283.3	283.3	283.0	283.1	283.1	283.5	283.7
2.5°	283.9	283.8	283.7	283.4	283.2	282.9	282.9	282.9	283.0	283.2	283.6
3°	283.6	283.7	283.8	283.5	283.2	282.8	282.9	282.8	282.9	283.1	283.2
3.5°	283.5	283.7	283.7	283.2	282.6	283.0	282.7	282.4	282.7	282.7	282.7
4°	283.6	283.6	283.6	282.9	282.6	282.5	282.2	282.3	282.2	282.4	282.8
4.5°	283.4	283.3	283.2	282.9	282.4	282.2	282.1	282.0	282.1	282.3	282.5
5°	282.9	283.1	283.1	282.6	282.3	281.8	281.7	281.6	281.9	281.8	282.4
5.5°	282.9	282.8	282.9	282.3	281.7	282.0	281.2	281.1	281.2	281.4	281.7
6°	282.7	282.8	282.5	282.0	281.3	281.1	280.9	280.9	280.8	281.2	281.5
6.5°	282.1	282.4	282.1	281.6	281.3	281.0	280.8	280.3	280.8	280.8	281.0
7°	282.0	282.0	282.2	281.3	280.9	280.9	280.1	280.1	280.0	280.4	280.8
7.5°	282.1	281.5	281.5	280.9	280.6	280.1	279.5	279.4	279.3	279.9	279.9
8°	281.3	281.5	281.0	280.4	279.9	279.7	279.2	278.9	279.3	279.3	279.8
8.5°	280.7	280.9	280.7	280.1	279.5	279.3	278.8	278.6	278.8	279.0	279.2
9°	280.6	280.5	280.4	279.7	279.1	278.7	278.3	278.0	277.8	278.5	279.0
9.5°	280.3	280.0	279.7	279.0	278.8	278.2	277.5	277.2	277.5	277.8	278.1
10°	279.5	279.9	279.1	278.6	278.0	277.6	277.0	276.8	277.0	277.0	277.5
10.5°	279.1	279.1	278.7	277.8	277.5	277.0	276.8	276.4	276.3	276.6	277.0
11°	278.8	278.4	278.5	277.5	276.9	276.5	275.9	275.6	275.4	276.1	276.6
11.5°	278.1	277.9	277.5	276.9	276.5	275.7	274.9	274.7	275.0	275.2	275.6
12°	277.3	277.4	277.0	276.1	275.7	275.0	274.5	274.2	274.3	274.3	275.0
12.5°	277.0	276.7	276.4	275.4	274.9	274.5	273.8	273.6	273.5	274.0	274.3
13°	276.4	276.2	275.7	274.9	274.3	273.9	273.2	272.7	272.8	273.2	273.9
13.5°	275.5	275.4	275.0	274.2	273.7	272.9	272.1	271.9	272.1	272.1	272.7
14°	274.8	274.8	274.2	273.5	272.7	272.2	271.4	271.1	271.0	271.4	271.8
14.5°	274.2	274.0	273.5	272.5	271.9	271.5	270.9	270.4	270.3	270.8	271.3
15°	273.5	273.1	272.9	271.8	271.2	270.7	269.8	269.6	269.5	270.1	270.6
15.5°	272.7	272.4	271.8	271.1	270.5	269.4	268.8	268.6	268.7	269.0	269.6
16°	271.8	271.9	270.9	270.3	269.6	268.9	268.1	267.6	267.6	268.0	268.6
16.5°	271.1	271.0	270.5	269.1	268.6	268.2	267.3	267.1	266.6	267.2	267.8
17°	270.5	269.9	269.6	268.6	267.8	267.0	266.3	265.9	265.7	266.3	267.1
17.5°	269.2	269.1	268.4	267.7	267.0	266.1	265.1	264.6	265.1	265.2	265.9
18°	268.3	268.5	267.4	266.7	266.0	265.2	264.1	263.8	263.7	264.1	264.7
18.5°	267.8	267.4	266.9	265.5	264.9	264.1	263.4	262.9	262.7	263.2	264.1
19°	266.6	266.3	266.0	264.7	263.8	263.2	262.3	261.7	261.9	262.3	263.0
19.5°	265.5	265.4	264.8	263.8	263.1	262.0	261.0	260.6	260.9	261.1	261.9
20°	264.7	264.6	263.8	262.7	262.0	260.9	260.0	259.5	259.4	259.9	260.7
20.5°	264.0	263.6	262.8	261.6	260.8	260.1	259.3	258.5	258.4	258.9	259.8
21°	262.7	262.3	261.8	260.6	259.9	258.9	257.7	257.3	257.4	257.8	258.8
21.5°	261.4	261.1	260.8	259.4	258.7	257.6	256.6	256.2	256.4	256.7	257.4
22°	260.5	260.4	259.3	258.4	257.7	256.5	255.5	254.9	255.0	255.4	256.3

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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°	259.7	259.3	258.3	257.0	256.4	255.5	254.5	253.7	253.8	254.3	255.2
23°	258.3	257.9	257.6	255.9	255.2	254.1	253.0	252.7	252.7	253.2	253.9
23.5°	257.1	256.8	256.2	254.8	254.1	252.9	251.8	251.4	251.4	251.8	252.5
24°	255.9	255.8	254.8	253.6	252.9	251.6	250.5	249.9	249.9	250.3	251.4
24.5°	254.9	254.6	253.6	252.3	251.7	250.7	249.5	248.9	248.9	249.4	250.2
25°	253.8	253.0	252.6	251.0	250.2	249.0	248.1	247.5	247.6	248.1	248.9
25.5°	252.1	252.1	251.2	250.0	248.7	247.7	246.6	246.3	246.2	246.6	247.5
26°	251.0	250.9	249.8	248.5	247.7	246.6	245.3	244.7	244.5	245.2	246.3
26.5°	250.1	249.5	248.5	247.1	246.5	245.2	244.2	243.5	243.3	243.9	245.1
27°	248.6	248.2	247.6	245.8	245.1	243.7	242.6	242.1	242.2	242.7	243.4
27.5°	246.9	246.8	246.0	244.7	243.6	242.4	241.0	240.7	240.7	241.1	241.9
28°	245.7	245.5	244.5	243.1	242.2	241.0	239.7	239.1	239.0	239.6	240.8
28.5°	244.5	244.1	243.0	241.7	240.9	239.8	238.6	237.8	237.8	238.3	239.2
29°	243.2	242.7	241.9	240.2	239.4	238.1	236.7	236.3	236.2	237.0	237.7
29.5°	241.5	241.3	240.5	238.8	238.0	236.5	235.3	235.0	234.7	235.2	236.3
30°	240.2	239.9	238.7	237.4	236.4	235.2	233.9	233.1	233.2	233.7	235.0
30.5°	238.8	238.5	237.3	235.8	234.9	233.9	232.5	231.7	231.8	232.3	233.4
31°	237.4	236.8	236.2	234.4	233.8	232.0	230.7	230.2	230.1	230.9	231.8
31.5°	235.7	235.3	234.3	233.0	232.0	230.4	229.2	228.8	228.6	229.2	230.4
32°	234.2	234.1	232.8	231.1	230.3	229.2	227.8	226.9	227.0	227.6	229.0
32.5°	232.8	232.4	231.5	229.6	228.9	227.6	226.2	225.7	225.5	226.0	227.1
33°	231.5	230.7	230.1	228.3	227.5	225.8	224.4	224.0	223.8	224.5	225.5
33.5°	229.6	229.2	228.3	226.6	225.9	224.2	222.8	222.3	222.1	222.8	223.9
34°	228.1	227.7	226.6	225.0	224.0	222.7	221.3	220.6	220.7	221.2	222.5
34.5°	226.5	226.1	225.0	223.3	222.4	220.9	219.8	219.0	219.0	219.4	220.8
35°	225.0	224.6	223.6	221.8	220.8	219.4	218.0	217.4	217.2	217.9	218.9
35.5°	223.2	222.7	221.7	220.1	219.2	217.6	216.2	215.8	215.6	216.2	217.3
36°	221.7	221.2	220.0	218.2	217.7	216.1	214.9	213.9	214.0	214.6	215.9
36.5°	220.0	219.6	218.6	216.7	215.6	214.4	212.9	212.3	212.3	212.8	214.0
37°	218.3	217.9	216.9	215.1	214.1	212.5	211.0	210.5	210.3	211.1	212.1
37.5°	216.6	216.0	215.2	213.3	212.4	210.7	209.4	208.7	208.6	209.3	210.6
38°	214.8	214.5	213.1	211.5	210.7	209.2	207.7	206.7	207.0	207.6	209.0
38.5°	213.1	212.8	211.6	209.7	208.7	207.2	205.8	205.1	205.3	205.7	207.1
39°	211.5	210.9	210.0	208.0	207.1	205.4	204.0	203.5	203.2	204.2	205.2
39.5°	209.9	209.2	208.0	206.3	205.3	203.6	202.4	201.6	201.6	202.3	203.4
40°	207.9	207.4	206.1	204.2	203.7	202.0	200.4	199.5	199.8	200.5	201.7
40.5°	206.0	205.6	204.6	202.5	201.6	200.1	198.5	197.9	197.9	198.4	199.9
41°	204.4	203.8	202.6	201.0	199.7	198.0	196.8	196.0	196.0	196.9	197.9
41.5°	202.6	201.9	200.6	198.8	197.9	196.3	195.1	194.2	194.2	195.0	196.3
42°	200.7	200.2	198.8	196.9	196.3	194.5	192.9	192.2	192.5	193.1	194.5
42.5°	198.8	198.2	197.1	195.2	194.3	192.5	191.0	190.4	190.4	191.1	192.4
43°	196.9	196.5	195.1	193.3	192.2	190.5	189.2	188.6	188.4	189.4	190.5
43.5°	195.2	194.4	193.1	191.2	190.3	188.7	187.2	186.5	186.5	187.2	188.7
44°	193.2	192.6	191.2	189.2	188.5	186.7	185.1	184.5	184.7	185.3	186.9
44.5°	191.2	190.8	189.3	187.3	186.4	184.6	183.1	182.6	182.5	183.2	184.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	189.2	188.6	187.3	185.4	184.5	182.7	181.3	180.6	180.6	181.4	182.7
45.5°	187.4	186.6	185.2	183.2	182.3	180.7	179.3	178.4	178.5	179.3	180.9
46°	185.4	184.9	183.3	181.3	180.4	178.6	177.0	176.4	176.6	177.3	178.7
46.5°	183.3	182.8	181.3	179.3	178.3	176.5	174.8	174.3	174.3	175.2	176.5
47°	181.2	180.6	179.1	177.1	176.3	174.4	173.0	172.1	172.1	173.2	174.7
47.5°	179.3	178.4	176.9	174.9	173.9	172.4	170.7	169.9	170.0	171.0	172.5
48°	177.1	176.4	174.9	172.8	171.7	170.0	168.3	167.9	168.1	168.9	170.4
48.5°	175.0	174.3	172.8	170.6	169.6	167.8	166.2	165.7	165.8	166.5	168.1
49°	172.8	172.0	170.4	168.4	167.5	165.6	164.2	163.3	163.5	164.4	166.2
49.5°	170.7	169.8	168.3	166.0	165.0	163.4	161.7	161.0	161.2	162.2	163.8
50°	168.4	167.6	166.2	163.8	162.7	160.9	159.4	158.7	159.0	159.8	161.4
50.5°	166.1	165.3	163.6	161.6	160.5	158.7	157.2	156.4	156.5	157.4	159.1
51°	163.9	162.9	161.3	159.1	158.3	156.4	154.8	154.0	154.2	155.2	157.0
51.5°	161.6	160.7	159.2	156.6	155.9	153.9	152.2	151.6	151.9	152.8	154.6
52°	159.2	158.4	156.7	154.5	153.4	151.6	149.9	149.3	149.6	150.6	152.1
52.5°	156.9	156.1	154.2	152.0	151.0	149.3	147.5	146.9	147.0	148.0	149.6
53°	154.5	153.4	151.8	149.6	148.7	146.7	145.1	144.4	144.6	145.6	147.4
53.5°	152.1	151.0	149.4	147.0	146.1	144.3	142.6	142.0	142.1	143.1	144.9
54°	149.6	148.7	146.9	144.7	143.5	141.7	140.1	139.5	139.7	140.7	142.4
54.5°	147.2	146.3	144.4	142.1	141.2	139.4	137.6	137.1	137.2	138.3	139.9
55°	144.6	143.7	141.9	139.5	138.7	136.7	135.2	134.6	134.6	135.6	137.7
55.5°	142.3	141.2	139.6	137.0	136.1	134.2	132.5	132.0	132.1	133.1	134.9
56°	139.7	138.7	137.0	134.7	133.5	131.7	130.0	129.4	129.5	130.7	132.3
56.5°	137.2	136.2	134.4	132.0	131.1	129.1	127.5	126.9	127.0	128.0	129.9
57°	134.7	133.5	131.8	129.4	128.5	126.5	124.9	124.3	124.3	125.4	127.5
57.5°	132.1	131.0	129.3	126.6	125.8	123.9	122.2	121.6	121.9	122.9	124.8
58°	129.4	128.4	126.7	124.2	123.1	121.3	119.6	119.1	119.3	120.3	122.1
58.5°	126.9	125.9	123.9	121.6	120.6	118.7	117.1	116.5	116.6	117.8	119.5
59°	124.3	123.2	121.4	118.8	117.9	116.1	114.5	113.9	113.9	115.1	117.1
59.5°	121.7	120.6	118.9	116.3	115.3	113.3	111.7	111.1	111.4	112.4	114.4
60°	119.0	117.8	116.1	113.8	112.6	110.7	109.1	108.5	108.8	109.8	111.7
60.5°	116.4	115.3	113.3	110.9	109.9	108.0	106.5	106.0	106.1	107.2	109.1
61°	113.7	112.6	110.8	108.2	107.4	105.3	103.8	103.3	103.4	104.5	106.6
61.5°	111.1	110.0	108.1	105.6	104.6	102.8	101.0	100.5	100.8	101.9	103.8
62°	108.4	107.2	105.3	103.0	101.9	100.1	98.5	97.9	98.2	99.2	101.1
62.5°	105.7	104.6	102.6	100.2	99.3	97.4	95.9	95.2	95.5	96.7	98.5
63°	103.0	101.9	100.0	97.4	96.5	94.6	93.2	92.5	92.7	93.9	95.9
63.5°	100.3	99.2	97.1	94.7	93.8	91.8	90.4	89.8	90.0	91.2	93.2
64°	97.5	96.3	94.4	91.9	91.0	89.1	87.7	87.1	87.3	88.5	90.5
64.5°	94.9	93.7	91.6	89.1	88.3	86.3	84.9	84.4	84.6	85.8	87.8
65°	92.2	91.1	89.0	86.4	85.5	83.5	82.1	81.6	81.8	83.0	85.1
65.5°	89.4	88.1	86.2	83.7	82.8	80.8	79.2	78.7	79.1	80.4	82.3
66°	86.5	85.3	83.4	80.8	79.9	78.0	76.6	76.0	76.3	77.5	79.6
66.5°	83.8	82.6	80.6	78.1	77.2	75.3	73.8	73.3	73.6	74.8	76.9
67°	81.1	80.0	77.9	75.4	74.4	72.5	71.1	70.6	70.9	72.1	74.2

TEST NUMBER: P1504211

CATALOG NUMBER: JBD4FS5-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	78.3	77.1	75.1	72.6	71.7	69.8	68.3	67.8	68.1	69.4	71.4
68°	75.5	74.3	72.3	69.8	68.8	67.0	65.5	65.0	65.4	66.6	68.7
68.5°	72.8	71.5	69.5	67.0	66.1	64.3	62.8	62.3	62.6	63.9	66.0
69°	70.0	68.8	66.8	64.3	63.4	61.5	60.1	59.6	60.0	61.2	63.3
69.5°	67.2	66.0	64.0	61.5	60.6	58.8	57.2	56.9	57.2	58.5	60.5
70°	64.5	63.2	61.2	58.7	57.7	56.0	54.6	54.1	54.4	55.7	57.8
70.5°	61.7	60.4	58.4	55.9	55.1	53.2	51.9	51.4	51.8	53.1	55.2
71°	59.0	57.7	55.7	53.3	52.4	50.6	49.2	48.8	49.1	50.4	52.5
71.5°	56.2	55.0	53.0	50.5	49.7	48.0	46.5	46.1	46.4	47.8	49.8
72°	53.6	52.3	50.2	47.8	46.9	45.2	43.9	43.4	43.8	45.1	47.1
72.5°	50.8	49.5	47.6	45.2	44.3	42.5	41.2	40.8	41.2	42.5	44.5
73°	48.1	46.8	44.8	42.5	41.6	39.9	38.5	38.2	38.5	39.8	41.9
73.5°	45.4	44.1	42.1	39.8	39.0	37.3	35.9	35.6	36.0	37.3	39.3
74°	42.7	41.5	39.3	37.3	36.4	34.7	33.5	33.1	33.5	34.8	36.9
74.5°	40.2	38.9	36.8	34.7	33.8	32.2	31.0	30.6	31.0	32.3	34.3
75°	37.6	36.3	34.3	32.2	31.3	29.8	28.5	28.1	28.5	29.8	31.8
75.5°	35.1	33.8	31.8	29.7	28.9	27.3	26.0	25.7	26.2	27.4	29.4
76°	32.5	31.2	29.3	27.2	26.4	24.9	23.7	23.4	23.8	25.1	27.0
76.5°	30.0	28.7	26.9	24.8	24.0	22.5	21.4	21.1	21.5	22.8	24.6
77°	27.4	26.2	24.5	22.4	21.8	20.3	19.2	18.9	19.4	20.5	22.4
77.5°	25.0	23.9	22.2	20.2	19.5	18.1	17.0	16.8	17.2	18.4	20.2
78°	22.7	21.5	19.9	18.0	17.4	16.0	15.0	14.8	15.2	16.3	18.0
78.5°	20.4	19.2	17.7	15.9	15.3	14.0	13.1	12.9	13.3	14.3	16.0
79°	18.2	17.1	15.6	13.9	13.3	12.5	11.6	11.4	11.8	12.5	14.1
79.5°	16.1	15.0	13.6	12.0	11.8	11.0	10.1	9.9	10.3	11.1	12.2
80°	14.1	13.1	11.8	10.3	10.2	9.5	8.6	8.5	8.8	9.7	10.8
80.5°	12.2	11.3	10.0	8.7	8.7	8.0	7.1	7.0	7.3	8.2	9.4
81°	10.5	9.6	8.5	7.2	7.2	6.5	5.6	5.5	5.8	6.8	8.0
81.5°	8.8	8.0	7.0	5.9	5.7	5.0	4.5	4.4	4.7	5.4	6.6
82°	7.4	6.6	5.7	4.7	4.5	3.9	3.6	3.6	3.7	4.3	5.2
82.5°	6.1	5.4	4.6	3.6	3.5	3.2	3.0	2.9	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	3.5	2.8	2.6	2.5	2.3	2.3	2.4	2.6	2.8
84°	3.4	3.3	3.0	2.5	2.3	2.1	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°	2.5	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	1.4	1.4	1.3	1.4	1.6	1.7
86°	1.8	1.7	1.6	1.4	1.3	1.2	1.0	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	0.5	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	0.4	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: P1504211

CATALOG NUMBER: JBD4FS5-4000K

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: P1504211

CATALOG NUMBER: JBD4FS5-4000K

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	0.0	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	0.1	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: P1504211

CATALOG NUMBER: JBD4FS5-4000K

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	0.2	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: P1504211

CATALOG NUMBER: JBD4FS5-4000K

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	0.1
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	0.1
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	0.2	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	0.1	0.1	0.1	0.1	0.1
176°	0.1	0.1	0.1	0.1	0.1	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: P1504211
CATALOG NUMBER: JBD4FS5-4000K

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: P1504211

CATALOG NUMBER: JBD4FS5-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	283.8	283.8	283.8	283.8	283.8	283.8
0.5°	283.9	283.6	283.7	283.9	283.7	284.0
1°	284.0	283.5	283.6	283.5	283.5	283.8
1.5°	283.5	283.5	283.4	283.6	283.6	283.9
2°	283.5	283.6	283.5	283.4	283.6	284.1
2.5°	283.5	283.3	283.6	283.6	283.3	283.9
3°	283.4	283.0	283.1	283.3	283.3	283.6
3.5°	283.1	282.7	282.9	283.1	283.2	283.5
4°	282.6	282.8	282.9	282.9	283.2	283.6
4.5°	282.6	282.4	282.7	283.1	283.0	283.4
5°	282.4	282.1	282.5	282.5	282.7	282.9
5.5°	282.0	281.6	282.1	282.3	282.7	282.9
6°	281.6	281.5	282.1	282.1	282.2	282.7
6.5°	281.2	281.3	281.6	281.9	282.2	282.1
7°	281.2	281.0	281.1	281.3	281.9	282.0
7.5°	280.4	280.4	280.7	281.0	281.3	282.1
8°	280.0	279.9	280.6	280.8	280.9	281.3
8.5°	279.6	279.4	280.1	280.5	280.9	280.7
9°	279.1	279.4	279.5	279.8	280.3	280.6
9.5°	278.5	278.5	279.0	279.5	279.8	280.3
10°	278.0	277.9	278.6	279.1	279.1	279.5
10.5°	277.4	277.3	278.0	278.4	279.1	279.1
11°	276.9	276.9	277.3	277.8	278.2	278.8
11.5°	276.1	276.2	276.6	277.3	277.9	278.1
12°	275.5	275.6	276.3	276.7	277.1	277.3
12.5°	274.8	274.9	275.5	276.3	276.6	277.0
13°	274.3	274.1	274.9	275.5	276.0	276.4
13.5°	273.4	273.6	274.0	274.6	275.5	275.5
14°	272.6	272.9	273.5	274.2	274.5	274.8
14.5°	271.9	271.8	272.8	273.3	273.8	274.2
15°	271.3	271.0	271.9	272.6	273.2	273.5
15.5°	270.1	270.5	270.9	271.7	272.5	272.7
16°	269.3	269.6	270.5	271.0	271.5	271.8
16.5°	268.7	268.7	269.6	270.3	270.6	271.1
17°	267.7	267.7	268.7	269.3	269.8	270.5
17.5°	266.5	266.6	267.6	268.3	269.2	269.2
18°	265.7	265.7	266.7	267.5	268.1	268.3
18.5°	264.8	265.1	266.0	266.7	267.0	267.8
19°	264.0	264.1	264.9	265.9	266.3	266.6
19.5°	262.6	262.8	263.8	264.5	265.4	265.5
20°	261.7	261.9	262.8	263.7	264.3	264.7
20.5°	260.6	260.9	261.8	262.8	263.1	264.0
21°	259.6	259.8	260.6	261.7	262.2	262.7
21.5°	258.3	258.8	259.5	260.4	261.2	261.4
22°	257.3	257.5	258.6	259.5	260.1	260.5

TEST NUMBER: P1504211

CATALOG NUMBER: JBD4FS5-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	256.1	256.2	257.6	258.4	259.2	259.7
23°	255.2	255.2	256.2	257.3	257.8	258.3
23.5°	253.6	254.2	254.9	255.9	256.7	257.1
24°	252.5	252.7	253.8	254.9	255.7	255.9
24.5°	251.4	251.3	252.8	253.7	254.5	254.9
25°	250.1	250.1	251.3	252.5	253.2	253.8
25.5°	248.6	249.1	250.0	251.2	251.8	252.1
26°	247.6	247.7	248.9	250.0	250.8	251.0
26.5°	246.1	246.4	247.9	248.5	249.4	250.1
27°	244.9	244.7	246.3	247.4	247.9	248.6
27.5°	243.3	243.5	244.8	245.9	246.6	246.9
28°	241.9	242.4	243.5	244.7	245.5	245.7
28.5°	240.6	240.8	242.3	243.3	244.0	244.5
29°	239.3	239.3	240.9	242.0	242.5	243.2
29.5°	237.5	237.9	239.2	240.6	241.2	241.5
30°	236.3	236.5	237.8	239.0	239.8	240.2
30.5°	234.8	235.1	236.4	237.5	238.4	238.8
31°	233.2	233.5	234.9	236.2	236.9	237.4
31.5°	231.6	231.9	233.5	234.8	235.4	235.7
32°	230.3	230.3	231.9	233.1	234.1	234.2
32.5°	228.7	229.0	230.1	231.5	232.3	232.8
33°	226.9	227.5	228.8	230.0	230.7	231.5
33.5°	225.3	225.6	227.4	228.7	229.4	229.6
34°	224.2	224.1	225.6	226.8	227.9	228.1
34.5°	222.1	222.7	223.9	225.3	226.2	226.5
35°	220.4	220.9	222.5	223.8	224.4	225.0
35.5°	219.1	219.3	221.0	222.3	222.9	223.2
36°	217.4	217.6	219.1	220.5	221.4	221.7
36.5°	215.6	215.8	217.4	218.7	219.6	220.0
37°	213.9	214.3	215.8	217.1	217.8	218.3
37.5°	212.1	212.6	214.2	215.7	216.0	216.6
38°	210.6	210.8	212.5	213.6	214.6	214.8
38.5°	208.7	208.9	210.6	212.0	212.9	213.1
39°	206.8	207.4	208.9	210.4	211.1	211.5
39.5°	205.2	205.5	207.3	208.6	209.3	209.9
40°	203.5	203.8	205.3	206.8	207.6	207.9
40.5°	201.5	202.1	203.6	205.0	205.8	206.0
41°	199.7	200.1	201.8	203.1	204.0	204.4
41.5°	197.9	198.3	200.0	201.4	202.2	202.6
42°	196.1	196.6	198.0	199.6	200.3	200.7
42.5°	194.0	194.7	196.3	197.6	198.7	198.8
43°	192.2	192.8	194.4	195.7	196.7	196.9
43.5°	190.5	190.7	192.6	194.1	194.8	195.2
44°	188.4	188.9	190.7	192.1	192.8	193.2
44.5°	186.4	186.9	188.7	190.0	191.1	191.2

TEST NUMBER: P1504211

CATALOG NUMBER: JBD4FS5-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	184.6	185.2	186.7	188.1	189.1	189.2
45.5°	182.6	183.0	184.8	186.4	187.1	187.4
46°	180.6	180.9	182.9	184.3	185.0	185.4
46.5°	178.4	178.9	180.7	182.3	183.2	183.3
47°	176.3	177.0	178.6	180.1	181.1	181.2
47.5°	174.4	175.0	176.8	178.2	179.1	179.3
48°	172.3	173.0	174.6	176.3	176.7	177.1
48.5°	170.0	170.6	172.4	174.0	174.9	175.0
49°	167.9	168.6	170.3	171.8	172.8	172.8
49.5°	165.8	166.3	168.1	169.8	170.6	170.7
50°	163.5	164.2	165.8	167.5	168.3	168.4
50.5°	161.1	161.7	163.5	165.2	166.0	166.1
51°	158.8	159.4	161.2	162.9	163.7	163.9
51.5°	156.8	157.1	159.1	160.7	161.7	161.6
52°	154.2	154.9	156.7	158.4	159.2	159.2
52.5°	151.8	152.5	154.3	155.9	156.7	156.9
53°	149.5	150.1	151.8	153.6	154.4	154.5
53.5°	147.0	147.6	149.6	151.2	152.1	152.1
54°	144.6	145.0	147.1	148.7	149.6	149.6
54.5°	142.2	142.8	144.6	146.3	147.0	147.2
55°	139.6	140.3	142.1	143.9	144.7	144.6
55.5°	137.2	137.8	139.8	141.3	142.3	142.3
56°	134.7	135.2	137.3	138.9	139.7	139.7
56.5°	132.0	132.8	134.7	136.4	137.1	137.2
57°	129.6	130.1	132.2	133.8	134.7	134.7
57.5°	127.1	127.6	129.7	131.3	132.0	132.1
58°	124.5	125.2	127.1	128.8	129.5	129.4
58.5°	121.9	122.5	124.5	126.1	126.9	126.9
59°	119.3	119.8	121.9	123.6	124.4	124.3
59.5°	116.8	117.3	119.3	121.0	121.7	121.7
60°	114.1	114.7	116.7	118.3	119.2	119.0
60.5°	111.4	112.1	114.1	115.6	116.5	116.4
61°	108.8	109.5	111.3	113.1	113.8	113.7
61.5°	106.3	106.9	108.7	110.5	111.2	111.1
62°	103.6	104.1	106.2	107.8	108.5	108.4
62.5°	100.9	101.5	103.5	105.1	105.9	105.7
63°	98.1	98.9	100.7	102.5	103.2	103.0
63.5°	95.8	96.2	98.1	99.8	100.4	100.3
64°	93.0	93.4	95.4	97.1	97.7	97.5
64.5°	90.3	90.7	92.7	94.3	95.1	94.9
65°	87.6	88.1	90.0	91.6	92.3	92.2
65.5°	84.9	85.5	87.3	89.0	89.5	89.4
66°	82.1	82.6	84.6	86.2	86.8	86.5
66.5°	79.3	80.0	81.9	83.5	84.1	83.8
67°	76.6	77.2	79.2	80.7	81.3	81.1

TEST NUMBER: P1504211

CATALOG NUMBER: JBD4FS5-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	73.9	74.6	76.4	78.0	78.5	78.3
68°	71.2	71.9	73.7	75.3	75.9	75.5
68.5°	68.5	69.1	71.1	72.6	73.1	72.8
69°	65.8	66.4	68.3	69.8	70.3	70.0
69.5°	63.0	63.7	65.5	67.0	67.6	67.2
70°	60.3	61.0	62.8	64.3	64.8	64.5
70.5°	57.8	58.4	60.2	61.6	62.0	61.7
71°	55.0	55.7	57.4	58.9	59.4	59.0
71.5°	52.3	53.0	54.8	56.2	56.6	56.2
72°	49.6	50.4	52.1	53.5	53.9	53.6
72.5°	47.1	47.7	49.5	50.8	51.2	50.8
73°	44.4	45.1	46.8	48.1	48.5	48.1
73.5°	41.8	42.5	44.2	45.5	45.8	45.4
74°	39.3	40.0	41.6	42.9	43.2	42.7
74.5°	36.7	37.5	39.1	40.3	40.6	40.2
75°	34.3	35.0	36.6	37.8	38.0	37.6
75.5°	31.7	32.5	34.1	35.3	35.5	35.1
76°	29.3	30.1	31.6	32.8	33.0	32.5
76.5°	26.9	27.6	29.1	30.2	30.4	30.0
77°	24.6	25.3	26.7	27.7	27.9	27.4
77.5°	22.3	22.9	24.4	25.4	25.5	25.0
78°	20.1	20.8	22.2	23.2	23.2	22.7
78.5°	18.0	18.6	20.0	20.9	20.9	20.4
79°	16.0	16.6	17.9	18.7	18.7	18.2
79.5°	14.0	14.5	15.8	16.6	16.6	16.1
80°	12.2	12.7	13.8	14.6	14.6	14.1
80.5°	10.8	11.0	12.0	12.7	12.7	12.2
81°	9.4	9.4	10.3	10.9	11.0	10.5
81.5°	8.0	7.9	8.7	9.3	9.3	8.8
82°	6.6	6.5	7.3	7.8	7.8	7.4
82.5°	5.2	5.3	6.0	6.5	6.4	6.1
83°	4.1	4.3	4.9	5.2	5.2	4.9
83.5°	3.2	3.7	3.8	4.2	4.1	3.8
84°	2.7	3.2	3.4	3.7	3.7	3.4
84.5°	2.5	2.7	3.0	3.2	3.2	3.0
85°	2.2	2.2	2.5	2.7	2.7	2.5
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	0.7	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: P1504211

CATALOG NUMBER: JBD4FS5-4000K

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: P1504211

CATALOG NUMBER: JBD4FS5-4000K

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: P1504211

CATALOG NUMBER: JBD4FS5-4000K

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: P1504211

CATALOG NUMBER: JBD4FS5-4000K

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°	0.1	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: P1504211
CATALOG NUMBER: JBD4FS5-4000K

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: P1504211

CATALOG NUMBER: JBD4FS5-4000K

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	24.6	26.2	26.5	23.9	25.5	24.3	25.8	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	27.8	28.2	25.6	27.0	26.0	27.3	27.7
	6H	26.3	27.5	26.7	27.9	28.3	25.7	26.9	26.1	27.3	27.7
	8H	26.3	27.5	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	26.5
	3H	26.5	27.6	26.9	28.0	28.4	26.0	27.1	26.4	27.5	27.9
	4H	26.9	27.9	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	26.9	27.7	28.2
	12H	27.1	27.9	27.6	28.3	28.8	26.5	27.2	26.9	27.7	28.1
8H	4H	27.1	27.9	27.5	28.3	28.8	26.5	27.3	27.0	27.7	28.2
	6H	27.3	28.0	27.8	28.5	28.9	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	28.7	26.5	27.2	27.0	27.7	28.1
	6H	27.3	27.9	27.8	28.4	28.9	26.6	27.2	27.1	27.7	28.2
	8H	27.3	27.8	27.8	28.3	28.9	26.6	27.1	27.1	27.6	28.2































(END OF REPORT)