

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: P1504212

Luminaire Tested: JBD4FS5-5000K

Issue Date: 7/31/2026

Test Information

Test Method: LM-79-2019
Report Number: P1504212
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: JBD4FS5-5000K
Description: Slim 4" Surface Mount downlight 700 Lumens at 5000K

Light Source:
Ballast/Driver: -

Summary

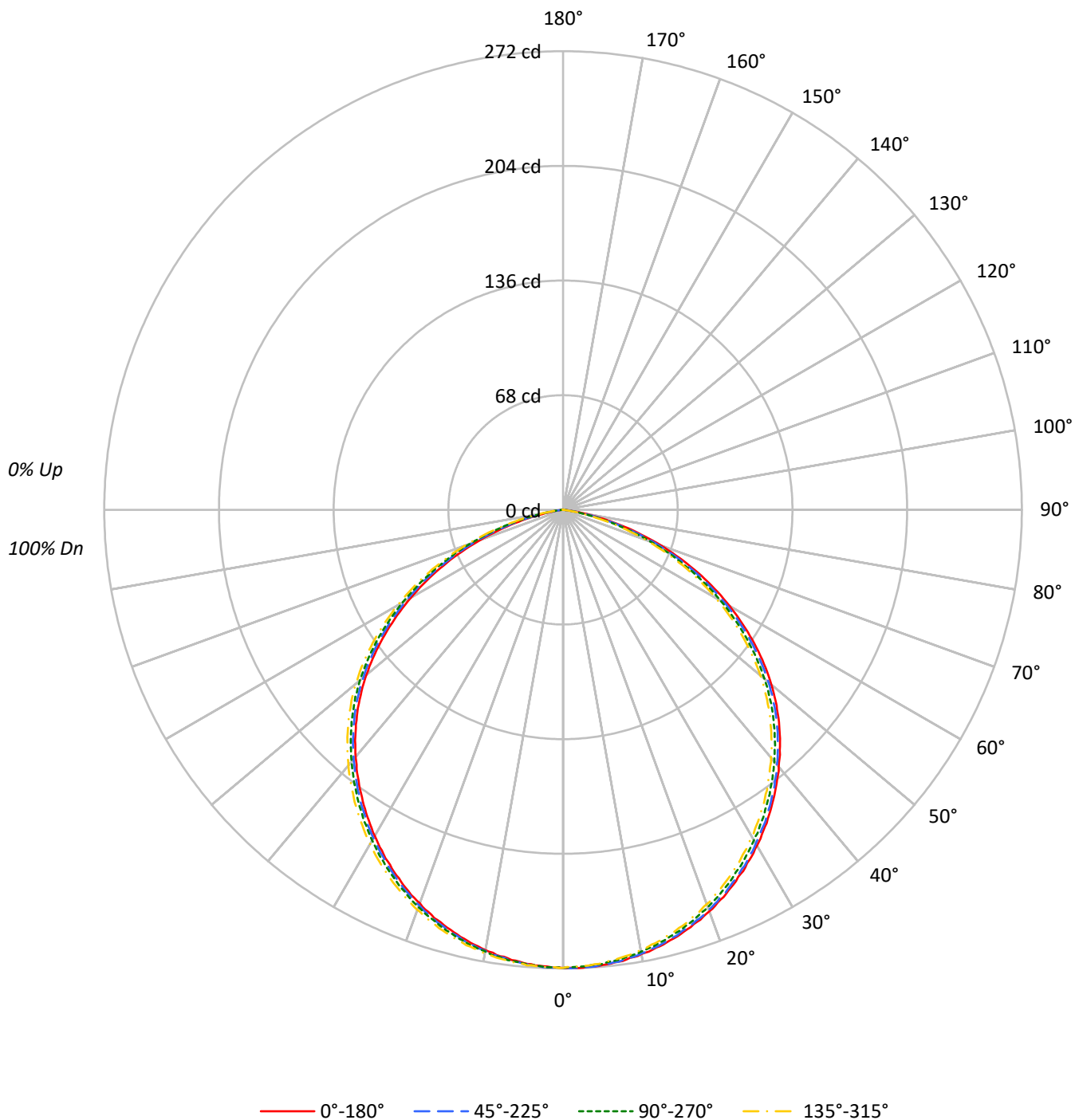
Lumens per Lamp: N/A
Luminaire Lumens: 717.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8.5
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: P1504212

CATALOG NUMBER: JBD4FS5-5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1504212

CATALOG NUMBER: JBD4FS5-5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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
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°	33513	33513	33513	33513
5°	33542	33468	33406	33443
10°	33504	33329	33216	33316
15°	33444	33150	32933	33125
20°	33262	32920	32592	32907
25°	33058	32595	32269	32582
30°	32744	32231	31804	32246
35°	32434	31832	31305	31847
40°	32042	31398	30802	31414
45°	31608	30806	30160	30928
50°	30933	29897	29206	30165
55°	29784	28558	27719	28881
60°	28098	26593	25681	27087
65°	25742	23903	22853	24604
70°	22251	19943	18789	21061
75°	17157	14297	13010	15965
80°	9589	6961	5967	8595
85°	3397	2406	2264	3114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 31608 cd/sqm

TEST NUMBER: P1504212

CATALOG NUMBER: JBD4FS5-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.7	3.6
10°-20°	73.3	10.2
20°-30°	110.5	15.4
30°-40°	132.3	18.5
40°-50°	136.3	19.0
50°-60°	119.2	16.6
60°-70°	82.1	11.5
70°-80°	34.1	4.8
80°-90°	3.3	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°	209.4	29.2
0°-40°	341.8	47.7
0°-60°	597.3	83.3
0°-90°	716.8	100.0
90°-120°	0.0	0.0
90°-150°	0.1	0.0
90°-180°	0.0	0.0
0°-180°	717.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	272	272	272	272	272	
5°	271	270	270	270	271	26
15°	262	260	258	259	262	74
25°	243	240	237	239	243	112
35°	215	211	208	212	215	135
45°	181	177	173	177	181	140
55°	138	133	129	134	138	124
65°	88	82	78	84	88	87
75°	36	30	27	34	36	38
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	

TEST NUMBER: P1504212

CATALOG NUMBER: JBD4FS5-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	271.7	271.7	271.7	271.7	271.7	271.7	271.7	271.7	271.7	271.7	271.7
0.5°	271.8	271.9	271.6	271.6	271.4	271.4	271.2	271.5	271.5	271.8	271.9
1°	271.7	271.8	272.0	271.9	271.3	271.3	271.4	271.2	271.5	271.6	271.7
1.5°	271.8	271.9	271.9	271.7	271.3	271.5	271.3	270.9	271.4	271.4	271.5
2°	271.9	272.1	271.8	271.6	271.2	271.2	270.9	271.0	271.0	271.4	271.6
2.5°	271.8	271.7	271.6	271.3	271.1	270.8	270.8	270.9	271.0	271.1	271.5
3°	271.5	271.6	271.7	271.3	271.1	270.7	270.8	270.7	270.8	271.0	271.1
3.5°	271.4	271.6	271.6	271.1	270.6	270.9	270.6	270.3	270.7	270.6	270.6
4°	271.5	271.5	271.5	270.8	270.5	270.4	270.2	270.3	270.2	270.4	270.7
4.5°	271.3	271.2	271.1	270.9	270.4	270.2	270.1	269.9	270.1	270.2	270.4
5°	270.9	271.0	271.0	270.6	270.3	269.8	269.7	269.5	269.8	269.8	270.3
5.5°	270.8	270.7	270.8	270.2	269.7	269.9	269.2	269.1	269.2	269.4	269.7
6°	270.6	270.7	270.4	269.9	269.3	269.1	268.9	268.9	268.8	269.2	269.4
6.5°	270.1	270.4	270.0	269.6	269.2	269.0	268.8	268.4	268.8	268.8	269.0
7°	269.9	270.0	270.1	269.3	268.9	268.9	268.2	268.2	268.0	268.4	268.8
7.5°	270.0	269.5	269.5	268.9	268.6	268.2	267.6	267.5	267.4	267.9	268.0
8°	269.3	269.5	269.0	268.5	268.0	267.7	267.3	267.0	267.4	267.4	267.8
8.5°	268.7	268.9	268.7	268.1	267.6	267.4	266.9	266.7	266.9	267.1	267.3
9°	268.6	268.5	268.4	267.7	267.2	266.8	266.4	266.2	266.0	266.6	267.1
9.5°	268.3	268.1	267.8	267.1	266.9	266.3	265.7	265.3	265.7	265.9	266.2
10°	267.5	268.0	267.2	266.7	266.1	265.8	265.2	264.9	265.2	265.2	265.6
10.5°	267.2	267.1	266.8	266.0	265.6	265.2	264.9	264.5	264.5	264.8	265.1
11°	266.9	266.5	266.6	265.7	265.0	264.7	264.1	263.8	263.7	264.3	264.8
11.5°	266.2	266.1	265.6	265.0	264.7	263.9	263.1	262.9	263.2	263.5	263.9
12°	265.4	265.5	265.1	264.3	263.9	263.2	262.8	262.5	262.6	262.6	263.2
12.5°	265.1	264.9	264.6	263.6	263.1	262.8	262.1	261.9	261.8	262.3	262.6
13°	264.6	264.4	263.9	263.2	262.6	262.2	261.5	261.1	261.1	261.5	262.2
13.5°	263.7	263.6	263.3	262.5	262.0	261.2	260.4	260.2	260.5	260.5	261.1
14°	263.0	263.0	262.5	261.9	261.1	260.5	259.9	259.5	259.5	259.8	260.2
14.5°	262.5	262.3	261.8	260.8	260.3	259.9	259.3	258.8	258.8	259.2	259.7
15°	261.9	261.4	261.3	260.2	259.6	259.1	258.3	258.1	257.9	258.6	259.0
15.5°	261.1	260.8	260.2	259.5	259.0	257.9	257.3	257.1	257.2	257.5	258.1
16°	260.2	260.3	259.3	258.7	258.1	257.4	256.7	256.2	256.2	256.5	257.1
16.5°	259.5	259.4	259.0	257.6	257.1	256.7	255.9	255.7	255.2	255.8	256.4
17°	258.9	258.3	258.1	257.1	256.4	255.6	254.9	254.5	254.4	254.9	255.6
17.5°	257.7	257.6	257.0	256.2	255.6	254.7	253.8	253.3	253.8	253.9	254.6
18°	256.9	257.0	256.0	255.3	254.6	253.8	252.8	252.5	252.4	252.8	253.4
18.5°	256.4	256.0	255.5	254.2	253.6	252.9	252.2	251.7	251.5	252.0	252.8
19°	255.3	255.0	254.6	253.4	252.5	251.9	251.1	250.5	250.7	251.1	251.8
19.5°	254.2	254.1	253.5	252.5	251.9	250.8	249.8	249.5	249.8	250.0	250.7
20°	253.4	253.3	252.5	251.5	250.8	249.8	248.9	248.5	248.3	248.8	249.5
20.5°	252.7	252.3	251.6	250.4	249.7	249.0	248.2	247.4	247.4	247.9	248.7
21°	251.5	251.1	250.6	249.4	248.8	247.8	246.7	246.3	246.4	246.8	247.8
21.5°	250.2	250.0	249.6	248.3	247.7	246.6	245.6	245.3	245.5	245.7	246.4
22°	249.4	249.3	248.2	247.3	246.7	245.5	244.6	244.0	244.1	244.5	245.3

TEST NUMBER: P1504212

CATALOG NUMBER: JBD4FS5-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	248.6	248.2	247.3	246.1	245.4	244.6	243.6	242.9	243.0	243.4	244.3
23°	247.3	246.9	246.6	245.0	244.3	243.3	242.2	241.9	241.9	242.4	243.1
23.5°	246.1	245.8	245.2	243.9	243.2	242.1	241.0	240.6	240.7	241.0	241.8
24°	245.0	244.8	243.9	242.8	242.1	240.8	239.8	239.2	239.2	239.6	240.7
24.5°	244.0	243.7	242.8	241.5	240.9	240.0	238.8	238.3	238.2	238.7	239.5
25°	242.9	242.2	241.8	240.3	239.5	238.4	237.5	236.9	237.1	237.5	238.2
25.5°	241.3	241.3	240.5	239.3	238.1	237.1	236.1	235.7	235.7	236.1	236.9
26°	240.3	240.2	239.2	237.9	237.1	236.0	234.8	234.3	234.1	234.7	235.7
26.5°	239.4	238.8	237.9	236.5	236.0	234.7	233.8	233.1	232.9	233.5	234.6
27°	238.0	237.6	237.0	235.3	234.6	233.3	232.2	231.8	231.9	232.3	233.0
27.5°	236.3	236.3	235.5	234.2	233.2	232.0	230.7	230.4	230.4	230.8	231.5
28°	235.2	235.0	234.1	232.7	231.8	230.7	229.5	228.9	228.8	229.3	230.5
28.5°	234.1	233.6	232.6	231.4	230.6	229.6	228.4	227.6	227.7	228.1	229.0
29°	232.8	232.3	231.6	230.0	229.2	228.0	226.5	226.2	226.1	226.9	227.5
29.5°	231.2	231.0	230.2	228.6	227.8	226.4	225.2	225.0	224.7	225.2	226.2
30°	229.9	229.7	228.5	227.3	226.3	225.2	223.9	223.1	223.3	223.7	224.9
30.5°	228.6	228.3	227.1	225.8	224.8	223.9	222.6	221.8	221.9	222.3	223.4
31°	227.3	226.7	226.1	224.3	223.8	222.1	220.9	220.4	220.3	221.1	221.9
31.5°	225.7	225.2	224.3	223.0	222.1	220.6	219.4	219.0	218.8	219.4	220.5
32°	224.2	224.1	222.8	221.3	220.5	219.4	218.1	217.2	217.3	217.9	219.2
32.5°	222.9	222.5	221.6	219.8	219.1	217.8	216.5	216.0	215.9	216.4	217.4
33°	221.6	220.9	220.2	218.6	217.7	216.1	214.8	214.4	214.3	214.9	215.9
33.5°	219.8	219.4	218.5	216.9	216.2	214.6	213.3	212.8	212.7	213.2	214.3
34°	218.3	218.0	216.9	215.4	214.4	213.2	211.8	211.2	211.3	211.7	213.0
34.5°	216.8	216.4	215.4	213.7	212.9	211.4	210.4	209.6	209.6	210.1	211.4
35°	215.4	215.0	214.0	212.3	211.4	210.0	208.7	208.1	207.9	208.6	209.6
35.5°	213.7	213.2	212.3	210.7	209.8	208.3	207.0	206.6	206.3	206.9	208.0
36°	212.2	211.8	210.6	208.9	208.4	206.8	205.7	204.7	204.8	205.4	206.7
36.5°	210.6	210.3	209.2	207.4	206.4	205.2	203.8	203.2	203.2	203.7	204.9
37°	209.0	208.6	207.6	205.9	205.0	203.4	201.9	201.5	201.3	202.1	203.0
37.5°	207.4	206.8	206.0	204.2	203.4	201.7	200.4	199.8	199.7	200.4	201.6
38°	205.6	205.3	204.0	202.5	201.7	200.3	198.9	197.9	198.2	198.8	200.0
38.5°	204.0	203.7	202.6	200.7	199.8	198.4	197.0	196.3	196.6	197.0	198.2
39°	202.5	201.9	201.1	199.2	198.3	196.7	195.3	194.8	194.5	195.5	196.4
39.5°	200.9	200.2	199.1	197.5	196.5	194.9	193.8	193.0	192.9	193.6	194.7
40°	199.0	198.6	197.3	195.5	195.0	193.4	191.9	191.0	191.3	191.9	193.1
40.5°	197.2	196.9	195.8	193.8	193.0	191.6	190.0	189.4	189.5	190.0	191.3
41°	195.6	195.1	193.9	192.4	191.1	189.5	188.4	187.6	187.6	188.5	189.5
41.5°	194.0	193.3	192.0	190.4	189.4	187.9	186.7	185.9	185.9	186.7	187.9
42°	192.1	191.7	190.3	188.5	187.9	186.2	184.7	184.0	184.3	184.8	186.2
42.5°	190.3	189.7	188.7	186.8	186.0	184.2	182.8	182.3	182.2	182.9	184.2
43°	188.5	188.1	186.7	185.1	184.0	182.4	181.1	180.5	180.3	181.3	182.4
43.5°	186.9	186.1	184.9	183.0	182.2	180.6	179.2	178.5	178.5	179.2	180.6
44°	185.0	184.3	183.1	181.1	180.4	178.7	177.2	176.6	176.8	177.4	178.9
44.5°	183.0	182.6	181.2	179.3	178.4	176.7	175.3	174.8	174.7	175.4	176.7

TEST NUMBER: P1504212

CATALOG NUMBER: JBD4FS5-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	181.2	180.6	179.3	177.4	176.6	174.9	173.5	172.9	172.9	173.6	174.9
45.5°	179.4	178.6	177.3	175.4	174.6	173.0	171.6	170.8	170.9	171.6	173.2
46°	177.5	177.0	175.5	173.5	172.7	171.0	169.5	168.9	169.0	169.7	171.1
46.5°	175.4	175.0	173.6	171.6	170.6	168.9	167.3	166.8	166.8	167.7	169.0
47°	173.4	172.9	171.5	169.5	168.8	166.9	165.6	164.8	164.8	165.8	167.3
47.5°	171.7	170.8	169.3	167.4	166.5	165.0	163.4	162.7	162.8	163.7	165.1
48°	169.6	168.9	167.4	165.4	164.4	162.8	161.1	160.7	160.9	161.7	163.1
48.5°	167.5	166.9	165.4	163.3	162.4	160.6	159.1	158.6	158.7	159.4	161.0
49°	165.4	164.6	163.1	161.2	160.4	158.6	157.2	156.3	156.5	157.4	159.1
49.5°	163.4	162.6	161.1	158.9	158.0	156.4	154.8	154.1	154.3	155.2	156.8
50°	161.2	160.5	159.1	156.8	155.8	154.1	152.6	151.9	152.2	153.0	154.5
50.5°	159.0	158.2	156.6	154.7	153.6	152.0	150.4	149.7	149.8	150.7	152.3
51°	156.9	156.0	154.4	152.3	151.5	149.7	148.2	147.4	147.7	148.6	150.3
51.5°	154.7	153.8	152.4	149.9	149.2	147.4	145.7	145.2	145.4	146.3	148.0
52°	152.4	151.6	150.0	147.9	146.8	145.1	143.5	142.9	143.2	144.1	145.6
52.5°	150.2	149.4	147.6	145.5	144.5	142.9	141.2	140.6	140.7	141.7	143.2
53°	147.9	146.9	145.3	143.2	142.3	140.4	138.9	138.3	138.4	139.4	141.1
53.5°	145.6	144.6	143.0	140.7	139.8	138.1	136.5	135.9	136.0	137.0	138.7
54°	143.2	142.4	140.7	138.5	137.3	135.7	134.1	133.6	133.7	134.7	136.3
54.5°	140.9	140.0	138.2	136.0	135.2	133.5	131.8	131.2	131.3	132.3	133.9
55°	138.5	137.6	135.8	133.6	132.8	130.9	129.4	128.8	128.9	129.8	131.8
55.5°	136.2	135.1	133.7	131.1	130.3	128.5	126.8	126.4	126.4	127.4	129.2
56°	133.7	132.8	131.1	128.9	127.8	126.1	124.4	123.9	124.0	125.1	126.7
56.5°	131.3	130.4	128.6	126.3	125.5	123.6	122.1	121.5	121.6	122.6	124.4
57°	128.9	127.8	126.1	123.8	123.0	121.1	119.6	119.0	119.0	120.0	122.1
57.5°	126.4	125.4	123.8	121.2	120.4	118.6	116.9	116.4	116.7	117.7	119.5
58°	123.9	122.9	121.3	118.9	117.9	116.1	114.5	114.0	114.2	115.2	116.9
58.5°	121.5	120.5	118.6	116.4	115.5	113.7	112.1	111.5	111.7	112.7	114.4
59°	119.0	117.9	116.2	113.8	112.9	111.1	109.6	109.1	109.1	110.2	112.1
59.5°	116.5	115.4	113.8	111.3	110.4	108.5	106.9	106.4	106.7	107.6	109.5
60°	113.9	112.8	111.2	108.9	107.8	106.0	104.4	103.9	104.1	105.1	106.9
60.5°	111.4	110.4	108.5	106.2	105.2	103.4	102.0	101.5	101.5	102.7	104.4
61°	108.9	107.8	106.0	103.6	102.8	100.8	99.3	98.8	99.0	100.0	102.0
61.5°	106.4	105.3	103.4	101.1	100.2	98.4	96.7	96.2	96.5	97.6	99.4
62°	103.8	102.7	100.8	98.6	97.5	95.8	94.3	93.8	94.0	94.9	96.8
62.5°	101.2	100.1	98.2	95.9	95.1	93.2	91.8	91.2	91.4	92.5	94.2
63°	98.6	97.5	95.7	93.2	92.4	90.6	89.2	88.6	88.8	89.9	91.8
63.5°	96.0	94.9	93.0	90.7	89.8	87.9	86.6	86.0	86.2	87.3	89.3
64°	93.3	92.2	90.4	87.9	87.1	85.3	83.9	83.3	83.6	84.7	86.7
64.5°	90.8	89.7	87.7	85.3	84.5	82.6	81.3	80.7	81.0	82.1	84.1
65°	88.2	87.2	85.2	82.7	81.9	80.0	78.6	78.1	78.3	79.5	81.5
65.5°	85.6	84.4	82.5	80.1	79.2	77.4	75.9	75.4	75.7	76.9	78.7
66°	82.8	81.7	79.8	77.4	76.5	74.7	73.3	72.8	73.1	74.2	76.2
66.5°	80.3	79.1	77.1	74.8	73.9	72.1	70.6	70.2	70.4	71.7	73.6
67°	77.6	76.6	74.5	72.2	71.3	69.4	68.0	67.6	67.8	69.0	71.0

TEST NUMBER: P1504212

CATALOG NUMBER: JBD4FS5-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	74.9	73.8	71.9	69.5	68.6	66.8	65.3	64.9	65.2	66.4	68.4
68°	72.2	71.1	69.2	66.8	65.9	64.1	62.7	62.2	62.6	63.8	65.7
68.5°	69.7	68.5	66.5	64.2	63.3	61.5	60.1	59.6	60.0	61.2	63.2
69°	67.0	65.9	64.0	61.5	60.7	58.8	57.5	57.0	57.4	58.6	60.6
69.5°	64.4	63.2	61.2	58.9	58.0	56.3	54.8	54.4	54.7	56.0	57.9
70°	61.7	60.5	58.6	56.2	55.3	53.6	52.3	51.8	52.1	53.3	55.3
70.5°	59.1	57.9	55.9	53.5	52.8	51.0	49.7	49.2	49.6	50.8	52.8
71°	56.4	55.3	53.4	51.0	50.2	48.4	47.1	46.7	47.0	48.3	50.3
71.5°	53.8	52.7	50.7	48.4	47.5	45.9	44.5	44.1	44.4	45.7	47.7
72°	51.3	50.1	48.1	45.8	44.9	43.3	42.0	41.5	41.9	43.2	45.1
72.5°	48.6	47.4	45.6	43.2	42.4	40.7	39.5	39.0	39.4	40.7	42.6
73°	46.1	44.8	42.9	40.7	39.8	38.2	36.9	36.5	36.9	38.1	40.1
73.5°	43.4	42.2	40.3	38.1	37.3	35.7	34.4	34.1	34.5	35.7	37.6
74°	40.9	39.7	37.6	35.7	34.9	33.3	32.1	31.7	32.1	33.3	35.3
74.5°	38.5	37.2	35.2	33.3	32.4	30.9	29.6	29.3	29.7	30.9	32.8
75°	36.0	34.8	32.8	30.9	30.0	28.5	27.2	26.9	27.3	28.5	30.4
75.5°	33.6	32.3	30.5	28.4	27.6	26.1	24.9	24.6	25.1	26.3	28.1
76°	31.1	29.9	28.1	26.0	25.2	23.8	22.7	22.4	22.8	24.0	25.8
76.5°	28.7	27.4	25.7	23.7	23.0	21.6	20.5	20.2	20.6	21.8	23.6
77°	26.3	25.1	23.5	21.5	20.8	19.5	18.4	18.1	18.5	19.7	21.4
77.5°	23.9	22.8	21.2	19.4	18.7	17.3	16.3	16.1	16.5	17.6	19.3
78°	21.7	20.6	19.0	17.2	16.6	15.4	14.3	14.1	14.5	15.6	17.3
78.5°	19.6	18.4	17.0	15.2	14.6	13.4	12.5	12.3	12.7	13.7	15.3
79°	17.4	16.4	14.9	13.3	12.8	12.0	11.1	10.9	11.3	12.0	13.5
79.5°	15.4	14.4	13.0	11.5	11.3	10.5	9.7	9.5	9.9	10.6	11.7
80°	13.5	12.5	11.3	9.8	9.8	9.1	8.2	8.1	8.4	9.2	10.4
80.5°	11.7	10.8	9.6	8.3	8.3	7.6	6.8	6.7	7.0	7.9	9.0
81°	10.0	9.2	8.1	6.9	6.9	6.2	5.4	5.3	5.6	6.5	7.7
81.5°	8.5	7.7	6.7	5.6	5.4	4.8	4.3	4.2	4.5	5.1	6.3
82°	7.1	6.4	5.5	4.5	4.3	3.7	3.4	3.4	3.6	4.1	5.0
82.5°	5.8	5.2	4.4	3.4	3.4	3.0	2.8	2.8	2.9	3.3	3.9
83°	4.7	4.1	3.9	3.1	2.8	2.6	2.5	2.5	2.6	2.7	3.2
83.5°	3.7	3.6	3.4	2.7	2.5	2.4	2.2	2.2	2.3	2.5	2.7
84°	3.2	3.1	2.9	2.3	2.2	2.1	1.9	2.0	2.0	2.2	2.4
84.5°	2.8	2.7	2.4	2.0	1.9	1.8	1.7	1.7	1.8	1.9	2.1
85°	2.4	2.2	1.9	1.7	1.7	1.6	1.5	1.5	1.6	1.7	1.9
85.5°	2.0	1.9	1.7	1.6	1.5	1.4	1.3	1.3	1.4	1.5	1.6
86°	1.8	1.6	1.5	1.3	1.3	1.1	1.0	1.0	1.1	1.3	1.5
86.5°	1.6	1.5	1.3	1.0	1.0	0.8	0.8	0.8	0.8	1.0	1.2
87°	1.4	1.2	1.0	0.8	0.8	0.7	0.6	0.6	0.7	0.8	0.9
87.5°	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.5	0.6	0.7
88°	0.8	0.7	0.6	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: P1504212

CATALOG NUMBER: JBD4FS5-5000K

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: P1504212

CATALOG NUMBER: JBD4FS5-5000K

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	0.0	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	0.0	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	0.0	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	0.0	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°	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.1	0.1	0.1	0.1	0.1	0.1	0.0	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	0.0
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	0.0	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: P1504212

CATALOG NUMBER: JBD4FS5-5000K

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: P1504212

CATALOG NUMBER: JBD4FS5-5000K

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	0.1	0.1	0.1	0.1	0.1
158°	0.1	0.1	0.1	0.1	0.1	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	0.1	0.1	0.1	0.1	0.1
159°	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
159.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
160°	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
160.5°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1
161°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1
161.5°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1
162°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
162.5°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
163°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
163.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
164°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
164.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
165°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
165.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
166°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
166.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
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	0.1
168.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
169°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
169.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
170°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
170.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1
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	0.1	0.1	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	0.1	0.1	0.1	0.1
174°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	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	0.1	0.1	0.1	0.1	0.1
175.5°	0.1	0.1	0.1	0.1	0.1	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	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: P1504212
CATALOG NUMBER: JBD4FS5-5000K

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: P1504212

CATALOG NUMBER: JBD4FS5-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	271.7	271.7	271.7	271.7	271.7	271.7
0.5°	271.8	271.5	271.6	271.7	271.6	271.8
1°	271.8	271.4	271.4	271.4	271.4	271.7
1.5°	271.4	271.4	271.3	271.4	271.5	271.8
2°	271.4	271.4	271.4	271.3	271.5	271.9
2.5°	271.4	271.2	271.4	271.5	271.2	271.8
3°	271.3	270.9	271.0	271.2	271.2	271.5
3.5°	271.0	270.6	270.8	271.0	271.1	271.4
4°	270.6	270.7	270.8	270.8	271.1	271.5
4.5°	270.6	270.4	270.6	271.0	270.9	271.3
5°	270.3	270.1	270.4	270.4	270.7	270.9
5.5°	269.9	269.6	270.1	270.2	270.6	270.8
6°	269.6	269.5	270.1	270.1	270.2	270.6
6.5°	269.2	269.3	269.5	269.8	270.2	270.1
7°	269.2	269.0	269.1	269.3	269.9	269.9
7.5°	268.4	268.4	268.7	269.0	269.3	270.0
8°	268.0	268.0	268.6	268.8	268.9	269.3
8.5°	267.7	267.5	268.1	268.5	268.9	268.7
9°	267.2	267.4	267.5	267.9	268.3	268.6
9.5°	266.6	266.6	267.1	267.6	267.9	268.3
10°	266.1	266.0	266.7	267.2	267.2	267.5
10.5°	265.6	265.5	266.1	266.5	267.2	267.2
11°	265.1	265.1	265.5	265.9	266.3	266.9
11.5°	264.3	264.4	264.8	265.4	266.0	266.2
12°	263.7	263.9	264.5	264.8	265.3	265.4
12.5°	263.1	263.1	263.8	264.5	264.8	265.1
13°	262.6	262.3	263.2	263.7	264.2	264.6
13.5°	261.7	261.9	262.3	262.9	263.7	263.7
14°	261.0	261.2	261.8	262.5	262.8	263.0
14.5°	260.3	260.2	261.2	261.7	262.1	262.5
15°	259.7	259.4	260.3	260.9	261.6	261.9
15.5°	258.6	258.9	259.4	260.1	260.9	261.1
16°	257.8	258.1	258.9	259.4	259.9	260.2
16.5°	257.2	257.2	258.1	258.8	259.0	259.5
17°	256.3	256.2	257.2	257.8	258.3	258.9
17.5°	255.1	255.2	256.2	256.9	257.7	257.7
18°	254.4	254.4	255.3	256.1	256.6	256.9
18.5°	253.4	253.7	254.7	255.3	255.6	256.4
19°	252.8	252.8	253.6	254.5	254.9	255.3
19.5°	251.4	251.6	252.5	253.2	254.1	254.2
20°	250.5	250.7	251.6	252.4	253.0	253.4
20.5°	249.5	249.7	250.7	251.6	251.9	252.7
21°	248.5	248.7	249.5	250.5	251.0	251.5
21.5°	247.3	247.7	248.4	249.3	250.0	250.2
22°	246.3	246.5	247.5	248.4	249.0	249.4

TEST NUMBER: P1504212

CATALOG NUMBER: JBD4FS5-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	245.1	245.2	246.6	247.3	248.1	248.6
23°	244.3	244.3	245.2	246.3	246.8	247.3
23.5°	242.7	243.3	244.0	245.0	245.7	246.1
24°	241.7	241.9	242.9	244.0	244.8	245.0
24.5°	240.7	240.6	242.0	242.9	243.6	244.0
25°	239.4	239.4	240.6	241.7	242.3	242.9
25.5°	238.0	238.4	239.3	240.5	241.1	241.3
26°	237.0	237.1	238.2	239.3	240.1	240.3
26.5°	235.6	235.8	237.3	237.8	238.8	239.4
27°	234.4	234.3	235.8	236.8	237.3	238.0
27.5°	232.9	233.1	234.3	235.4	236.1	236.3
28°	231.6	232.1	233.1	234.2	235.0	235.2
28.5°	230.3	230.5	231.9	232.9	233.6	234.1
29°	229.1	229.1	230.6	231.6	232.2	232.8
29.5°	227.4	227.7	229.0	230.3	230.9	231.2
30°	226.2	226.4	227.7	228.8	229.6	229.9
30.5°	224.8	225.0	226.3	227.4	228.2	228.6
31°	223.3	223.5	224.9	226.1	226.8	227.3
31.5°	221.7	222.0	223.5	224.7	225.3	225.7
32°	220.5	220.5	222.0	223.1	224.1	224.2
32.5°	218.9	219.2	220.3	221.6	222.4	222.9
33°	217.2	217.8	219.1	220.2	220.9	221.6
33.5°	215.7	216.0	217.7	218.9	219.6	219.8
34°	214.6	214.5	215.9	217.1	218.1	218.3
34.5°	212.7	213.1	214.3	215.6	216.5	216.8
35°	211.0	211.5	213.0	214.2	214.8	215.4
35.5°	209.7	209.9	211.5	212.8	213.4	213.7
36°	208.1	208.3	209.7	211.1	211.9	212.2
36.5°	206.4	206.6	208.2	209.4	210.2	210.6
37°	204.7	205.1	206.6	207.8	208.5	209.0
37.5°	203.0	203.5	205.0	206.5	206.8	207.4
38°	201.6	201.8	203.5	204.5	205.4	205.6
38.5°	199.7	200.0	201.6	203.0	203.8	204.0
39°	198.0	198.5	200.0	201.4	202.0	202.5
39.5°	196.4	196.7	198.4	199.7	200.3	200.9
40°	194.8	195.1	196.5	198.0	198.7	199.0
40.5°	192.9	193.4	194.9	196.2	197.0	197.2
41°	191.1	191.6	193.2	194.5	195.3	195.6
41.5°	189.5	189.8	191.5	192.8	193.5	194.0
42°	187.8	188.2	189.6	191.1	191.8	192.1
42.5°	185.7	186.4	188.0	189.2	190.2	190.3
43°	184.0	184.6	186.1	187.4	188.3	188.5
43.5°	182.3	182.6	184.4	185.8	186.5	186.9
44°	180.3	180.8	182.6	183.9	184.5	185.0
44.5°	178.4	178.9	180.7	181.9	183.0	183.0

TEST NUMBER: P1504212

CATALOG NUMBER: JBD4FS5-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	176.7	177.3	178.7	180.1	181.0	181.2
45.5°	174.8	175.2	176.9	178.4	179.1	179.4
46°	172.8	173.2	175.1	176.4	177.1	177.5
46.5°	170.8	171.2	172.9	174.5	175.3	175.4
47°	168.8	169.5	171.0	172.4	173.3	173.4
47.5°	167.0	167.5	169.3	170.6	171.4	171.7
48°	164.9	165.6	167.1	168.7	169.2	169.6
48.5°	162.8	163.3	165.0	166.6	167.4	167.5
49°	160.7	161.4	163.0	164.5	165.4	165.4
49.5°	158.7	159.2	161.0	162.6	163.3	163.4
50°	156.5	157.2	158.7	160.4	161.1	161.2
50.5°	154.2	154.8	156.5	158.1	158.9	159.0
51°	152.0	152.6	154.3	156.0	156.7	156.9
51.5°	150.1	150.4	152.3	153.9	154.8	154.7
52°	147.6	148.2	150.0	151.6	152.4	152.4
52.5°	145.3	145.9	147.7	149.2	150.0	150.2
53°	143.1	143.7	145.3	147.0	147.8	147.9
53.5°	140.8	141.3	143.2	144.8	145.6	145.6
54°	138.4	138.8	140.8	142.4	143.2	143.2
54.5°	136.1	136.7	138.4	140.0	140.7	140.9
55°	133.6	134.3	136.0	137.7	138.6	138.5
55.5°	131.3	131.9	133.9	135.3	136.2	136.2
56°	128.9	129.4	131.4	133.0	133.7	133.7
56.5°	126.4	127.1	128.9	130.5	131.2	131.3
57°	124.0	124.5	126.5	128.1	128.9	128.9
57.5°	121.7	122.2	124.1	125.7	126.4	126.4
58°	119.2	119.8	121.7	123.3	124.0	123.9
58.5°	116.7	117.2	119.2	120.7	121.5	121.5
59°	114.2	114.7	116.7	118.3	119.1	119.0
59.5°	111.8	112.3	114.2	115.8	116.5	116.5
60°	109.2	109.8	111.7	113.2	114.1	113.9
60.5°	106.7	107.3	109.2	110.7	111.5	111.4
61°	104.2	104.8	106.5	108.3	108.9	108.9
61.5°	101.7	102.3	104.1	105.8	106.4	106.4
62°	99.2	99.6	101.7	103.2	103.9	103.8
62.5°	96.6	97.1	99.0	100.6	101.3	101.2
63°	93.9	94.7	96.4	98.1	98.8	98.6
63.5°	91.7	92.1	93.9	95.5	96.1	96.0
64°	89.1	89.4	91.3	93.0	93.5	93.3
64.5°	86.5	86.8	88.7	90.3	91.0	90.8
65°	83.9	84.3	86.2	87.7	88.4	88.2
65.5°	81.3	81.8	83.5	85.2	85.7	85.6
66°	78.6	79.1	81.0	82.5	83.1	82.8
66.5°	76.0	76.5	78.4	79.9	80.5	80.3
67°	73.3	73.9	75.8	77.3	77.9	77.6

TEST NUMBER: P1504212

CATALOG NUMBER: JBD4FS5-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	70.8	71.4	73.1	74.7	75.2	74.9
68°	68.2	68.8	70.6	72.1	72.6	72.2
68.5°	65.6	66.2	68.1	69.5	70.0	69.7
69°	63.0	63.5	65.3	66.8	67.3	67.0
69.5°	60.3	61.0	62.7	64.2	64.7	64.4
70°	57.8	58.4	60.1	61.6	62.0	61.7
70.5°	55.3	55.9	57.6	59.0	59.4	59.1
71°	52.7	53.3	55.0	56.3	56.9	56.4
71.5°	50.1	50.7	52.5	53.8	54.2	53.8
72°	47.5	48.2	49.9	51.2	51.6	51.3
72.5°	45.1	45.7	47.3	48.7	49.0	48.6
73°	42.5	43.1	44.8	46.1	46.4	46.1
73.5°	40.0	40.6	42.3	43.5	43.8	43.4
74°	37.6	38.3	39.8	41.0	41.3	40.9
74.5°	35.2	35.9	37.5	38.5	38.8	38.5
75°	32.8	33.5	35.1	36.1	36.4	36.0
75.5°	30.3	31.2	32.7	33.7	34.0	33.6
76°	28.0	28.8	30.3	31.4	31.6	31.1
76.5°	25.8	26.4	27.9	29.0	29.1	28.7
77°	23.6	24.2	25.6	26.6	26.7	26.3
77.5°	21.4	22.0	23.4	24.4	24.4	23.9
78°	19.3	19.9	21.2	22.2	22.2	21.7
78.5°	17.2	17.8	19.1	20.0	20.0	19.6
79°	15.3	15.9	17.1	17.9	17.9	17.4
79.5°	13.4	13.9	15.1	15.9	15.9	15.4
80°	11.7	12.1	13.2	14.0	13.9	13.5
80.5°	10.3	10.5	11.5	12.2	12.2	11.7
81°	9.0	9.0	9.9	10.5	10.5	10.0
81.5°	7.6	7.5	8.3	8.9	8.9	8.5
82°	6.3	6.2	7.0	7.4	7.5	7.1
82.5°	4.9	5.1	5.7	6.2	6.2	5.8
83°	3.9	4.1	4.7	5.0	5.0	4.7
83.5°	3.1	3.6	3.7	4.0	4.0	3.7
84°	2.6	3.1	3.3	3.5	3.5	3.2
84.5°	2.4	2.6	2.8	3.0	3.0	2.8
85°	2.1	2.2	2.4	2.6	2.6	2.4
85.5°	1.8	1.9	2.0	2.1	2.1	2.0
86°	1.6	1.7	1.8	1.8	1.8	1.8
86.5°	1.4	1.5	1.6	1.6	1.6	1.6
87°	1.2	1.2	1.4	1.4	1.4	1.4
87.5°	0.9	0.9	1.1	1.2	1.2	1.1
88°	0.7	0.7	0.8	0.9	0.9	0.8
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	0.3	0.3	0.2



TEST NUMBER: P1504212

CATALOG NUMBER: JBD4FS5-5000K

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: P1504212

CATALOG NUMBER: JBD4FS5-5000K

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	0.0	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	0.0	0.0	0.0
130.5°	0.0	0.1	0.1	0.1	0.0	0.0
131°	0.0	0.1	0.1	0.1	0.0	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°	0.0	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: P1504212

CATALOG NUMBER: JBD4FS5-5000K

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: P1504212

CATALOG NUMBER: JBD4FS5-5000K

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°	0.1	0.1	0.1	0.1	0.1	0.1
160°	0.1	0.1	0.1	0.1	0.1	0.1
160.5°	0.1	0.1	0.1	0.1	0.1	0.1
161°	0.1	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°	0.1	0.1	0.1	0.1	0.1	0.1
167.5°	0.1	0.1	0.1	0.1	0.1	0.1
168°	0.1	0.1	0.1	0.1	0.1	0.1
168.5°	0.1	0.1	0.1	0.1	0.1	0.1
169°	0.1	0.1	0.1	0.1	0.1	0.1
169.5°	0.1	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: P1504212

CATALOG NUMBER: JBD4FS5-5000K

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: P1504212

CATALOG NUMBER: JBD4FS5-5000K

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	24.1	25.7	24.5	26.0	26.3	23.8	25.4	24.1	25.7	26.0
	3H	25.6	27.0	26.0	27.4	27.7	25.1	26.6	25.5	26.9	27.3
	4H	26.0	27.3	26.4	27.7	28.1	25.5	26.8	25.9	27.2	27.5
	6H	26.2	27.4	26.6	27.8	28.2	25.5	26.8	26.0	27.2	27.5
	8H	26.1	27.3	26.6	27.7	28.1	25.5	26.7	26.0	27.1	27.5
	12H	26.1	27.3	26.6	27.6	28.1	25.5	26.6	25.9	27.0	27.4
4H	2H	24.7	26.0	25.1	26.4	26.7	24.3	25.7	24.7	26.0	26.4
	3H	26.3	27.4	26.7	27.8	28.2	25.8	26.9	26.2	27.3	27.7
	4H	26.8	27.8	27.2	28.2	28.7	26.2	27.2	26.7	27.6	28.1
	6H	27.0	27.9	27.5	28.3	28.8	26.3	27.2	26.8	27.7	28.1
	8H	27.0	27.8	27.5	28.3	28.7	26.3	27.1	26.8	27.6	28.0
	12H	27.0	27.7	27.5	28.2	28.7	26.3	27.0	26.8	27.5	28.0
8H	4H	26.9	27.7	27.4	28.2	28.7	26.3	27.1	26.8	27.6	28.1
	6H	27.2	27.8	27.7	28.3	28.8	26.5	27.1	27.0	27.6	28.1
	8H	27.2	27.8	27.7	28.3	28.8	26.4	27.0	27.0	27.6	28.0
	12H	27.2	27.7	27.7	28.2	28.7	26.4	27.0	26.9	27.5	28.0
12H	4H	26.9	27.6	27.4	28.1	28.6	26.3	27.0	26.8	27.5	28.0
	6H	27.1	27.7	27.7	28.2	28.7	26.5	27.1	27.0	27.5	28.1
	8H	27.2	27.7	27.7	28.2	28.7	26.4	27.0	27.0	27.5	28.0







































(END OF REPORT)