

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: P851830

Luminaire Tested: RLFRC6FSMBB-4000K

Issue Date: 7/3/2024

Test Information

Test Method: LM-79-2019
Report Number: P851830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (UTC2404001E-D1)
Test Lab: INNOVATION CENTER
Issue Date: 7/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: RLFRC6FSMBB-4000K
Description: 6" Fire Rated Canless, 4000K CCT 1100lms,BLK
Light Source: -
Ballast/Driver:

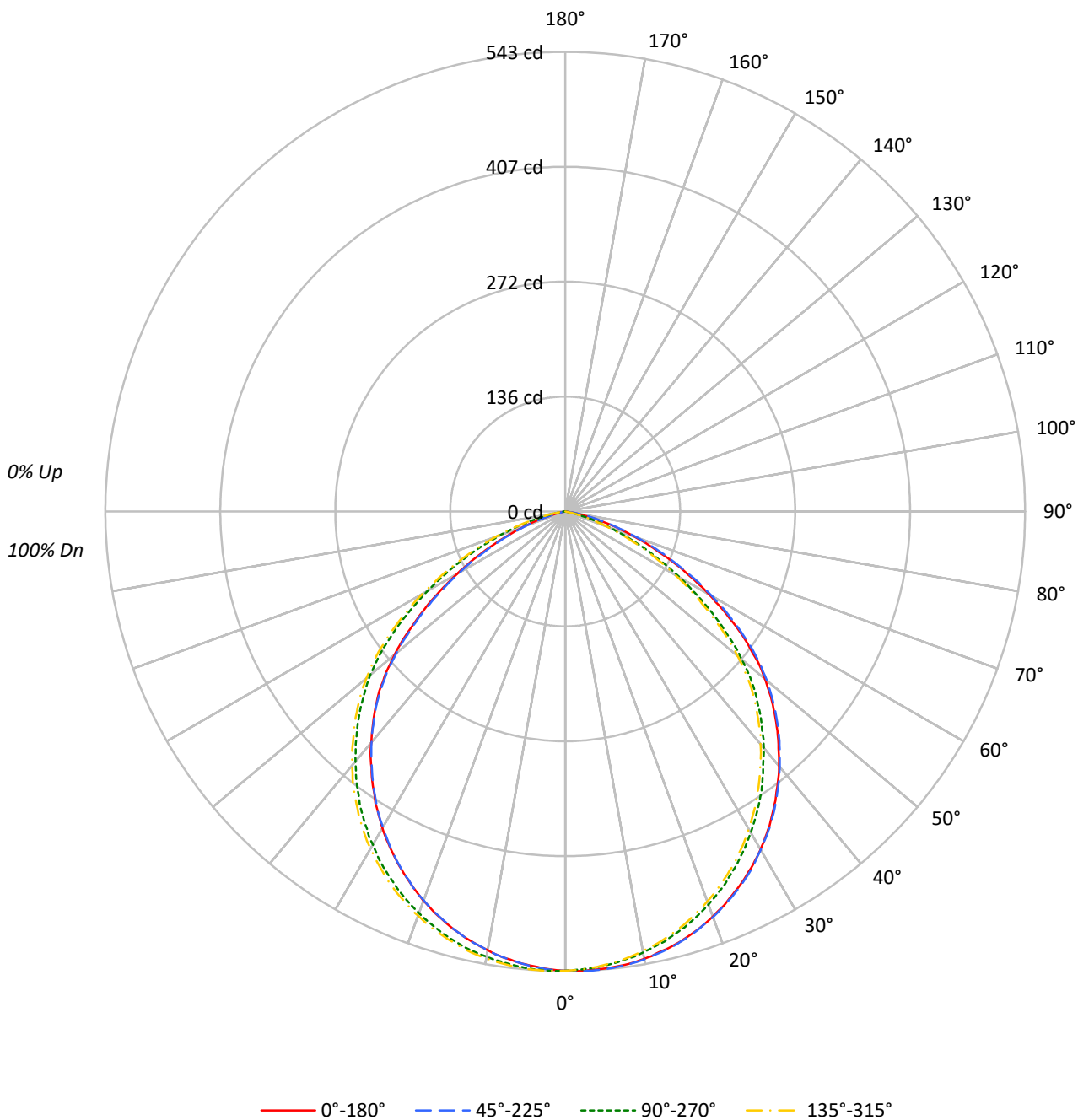
Summary

Lumens per Lamp: 1250.2 (1 lamp)
Luminaire Lumens: 1289.0 lumens
Efficiency: 103.1%
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.33
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P851830
CATALOG NUMBER: RLFRC6FSMBB-4000K

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	123	123	123	123	120	120	120	120	115	115	115	110	110	110	105	105	105	103
1	114	110	106	103	111	108	104	101	103	100	98	99	97	95	96	94	92	90
2	105	97	91	86	102	95	90	85	92	87	83	89	85	81	85	82	79	77
3	96	86	79	73	94	85	78	72	82	76	71	79	74	70	77	72	69	66
4	89	77	69	62	86	76	68	62	73	67	61	71	65	60	69	64	60	58
5	82	69	61	54	80	68	60	54	66	59	53	64	58	53	62	57	52	50
6	76	63	54	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
7	70	57	48	42	68	56	48	42	55	47	42	53	47	42	52	46	41	39
8	65	52	44	38	64	51	43	38	50	43	38	49	42	37	48	42	37	35
9	61	48	40	34	60	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	68274	68274	68274	68274
5°	68484	68016	67865	68370
10°	68586	67602	67269	68266
15°	68545	67008	66539	68089
20°	68209	66213	65530	67633
25°	67736	65028	64250	66958
30°	67050	63679	62734	66033
35°	65878	62084	60824	64957
40°	64531	59948	58502	63299
45°	62684	57238	55885	61385
50°	60322	53235	51473	58795
55°	56060	47261	44826	53910
60°	49383	39542	37151	47219
65°	41422	30791	28171	38891
70°	32013	21047	18729	29805
75°	21735	10649	8509	19353
80°	10074	0	0	6740
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 63663 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	51.3	4.0	4.1
10°-20°	146.2	11.3	11.7
20°-30°	219.0	17.0	17.5
30°-40°	258.0	20.0	20.6
40°-50°	256.4	19.9	20.5
50°-60°	205.2	15.9	16.4
60°-70°	116.7	9.1	9.3
70°-80°	35.1	2.7	2.8
80°-90°	1.2	0.1	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	416.4	32.3	33.3
0°-40°	674.4	52.3	53.9
0°-60°	1136.0	88.1	90.9
0°-90°	1289.0	100.0	103.1
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	1289.0	100.0	103.1

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	542	542	542	542	542	
5°	542	538	537	541	542	52
15°	526	514	511	523	526	148
25°	488	468	463	482	488	225
35°	429	404	396	423	429	268
45°	352	322	314	345	352	271
55°	256	215	204	246	256	227
65°	139	103	95	131	139	138
75°	45	22	18	40	45	49
85°	0	0	0	0	0	3
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	0



TEST NUMBER: P851830
 CATALOG NUMBER: RLFRC6FSMBB-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	542.5	542.5	542.5	542.5	542.5	542.5	542.5	542.5	542.5	542.5	542.5
1°	542.9	543.4	542.9	543.2	542.0	542.3	542.2	541.8	542.0	541.8	542.2
2°	543.3	543.6	543.1	542.8	541.3	541.9	541.4	541.5	541.2	540.9	541.5
3°	542.7	543.4	543.4	543.2	540.5	540.9	540.6	540.5	540.0	540.0	540.3
4°	542.4	543.5	543.1	542.2	539.8	540.2	539.3	539.5	538.4	538.4	539.1
5°	542.1	543.3	542.8	542.1	538.4	538.7	537.7	537.6	537.2	536.7	537.3
6°	541.3	542.5	542.1	541.2	537.1	536.9	536.1	536.0	535.7	534.8	535.6
7°	540.5	541.9	541.3	540.2	535.4	535.3	534.5	534.8	533.4	533.3	533.3
8°	539.8	540.7	540.3	539.2	533.2	533.7	532.3	532.5	531.6	530.9	531.7
9°	538.2	539.4	538.8	537.9	532.0	531.4	530.2	530.6	529.4	528.3	529.3
10°	536.7	538.1	537.4	536.4	529.0	529.0	527.3	528.2	526.4	525.5	526.4
11°	535.2	536.7	535.3	534.5	526.5	526.5	524.6	525.3	523.8	522.7	523.5
12°	532.3	534.8	533.5	532.8	523.8	523.7	522.0	522.8	520.6	519.7	520.9
13°	530.8	532.8	531.4	530.2	521.3	521.2	518.6	519.3	517.8	515.8	517.6
14°	528.3	530.4	529.2	527.6	517.7	517.8	515.2	516.3	513.9	512.9	514.1
15°	526.1	528.1	526.4	525.3	514.3	514.3	511.6	512.8	510.7	509.3	510.5
16°	523.0	524.8	523.5	521.8	511.1	511.0	508.1	508.9	506.7	505.1	506.3
17°	520.0	521.9	520.6	518.8	507.1	507.2	503.6	505.4	502.6	500.8	502.2
18°	516.8	518.7	517.0	516.2	503.0	502.7	499.4	501.0	498.4	496.4	498.1
19°	513.2	515.5	513.3	512.6	498.7	499.2	494.9	496.4	493.8	492.1	493.6
20°	509.3	511.7	510.1	508.5	494.4	494.4	490.4	492.3	489.3	487.3	488.8
21°	505.3	508.2	506.1	504.5	489.4	489.8	485.7	486.8	484.3	481.9	484.2
22°	501.5	503.7	501.4	500.3	484.6	484.7	480.8	482.7	479.1	477.0	479.0
23°	496.7	499.7	497.6	496.3	480.2	480.5	475.2	477.4	473.5	471.2	473.1
24°	492.2	495.4	493.2	491.5	474.0	474.0	469.9	472.2	468.2	465.3	468.2
25°	487.8	491.0	488.8	487.0	468.3	468.7	464.5	466.3	462.7	460.3	462.3
26°	482.9	485.8	483.8	482.0	463.2	463.2	459.2	460.5	456.7	454.4	456.5
27°	477.5	480.7	479.0	476.5	456.9	457.7	452.6	454.9	450.7	448.1	450.1
28°	472.5	475.4	473.5	471.3	451.1	451.4	446.8	448.6	444.6	441.4	444.0
29°	466.8	469.8	467.3	465.7	444.8	445.7	440.0	442.3	438.5	434.7	437.3
30°	461.4	464.5	461.6	459.9	438.2	438.8	433.5	435.3	431.7	428.2	430.6
31°	455.2	459.0	455.7	453.7	431.4	432.2	426.7	428.4	424.8	421.1	424.3
32°	448.9	452.8	449.9	447.7	424.7	425.6	419.6	422.1	417.7	414.3	417.7
33°	442.8	446.4	444.1	441.4	418.0	418.1	412.9	415.4	411.2	407.1	409.9
34°	435.7	440.2	436.9	434.4	410.7	411.3	405.2	407.7	402.7	398.8	402.3
35°	428.8	433.4	430.6	427.9	404.1	404.5	397.8	400.5	395.9	392.1	395.1
36°	422.4	426.2	423.5	421.2	395.9	396.7	390.1	392.6	388.5	383.6	387.6
37°	414.7	419.4	416.1	414.4	388.1	389.2	382.4	384.9	379.9	376.5	379.2
38°	407.4	412.3	409.1	406.5	379.7	380.5	374.6	377.3	372.9	368.9	371.7
39°	400.6	405.1	401.8	399.6	372.5	373.6	367.3	370.0	365.4	360.6	363.8
40°	392.8	397.5	394.0	391.9	364.9	365.9	358.8	361.8	356.1	352.4	355.6
41°	384.6	389.8	386.2	383.6	357.0	357.0	351.4	353.3	348.2	343.8	347.4
42°	376.4	382.3	378.7	376.3	347.6	349.2	342.5	344.6	339.5	335.8	338.6
43°	368.8	374.1	370.9	368.4	339.3	340.7	333.6	336.9	331.3	327.7	330.0
44°	360.6	365.6	363.0	360.9	331.3	331.6	325.4	328.7	322.4	318.3	321.9



TEST NUMBER: P851830
 CATALOG NUMBER: RLFRC6FSM BB-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	352.2	357.7	354.4	351.6	321.6	322.6	316.6	320.2	314.0	308.6	312.1
46°	343.6	348.9	346.0	343.4	313.4	314.2	307.6	310.7	305.3	299.2	302.7
47°	335.1	340.3	337.2	335.2	304.1	305.2	297.9	301.8	294.1	289.4	292.3
48°	326.8	331.7	328.6	326.0	294.5	295.0	287.0	291.6	284.7	278.0	282.6
49°	316.7	322.9	319.6	317.5	283.5	285.1	277.2	280.7	273.4	268.2	271.2
50°	308.1	314.1	311.0	308.5	271.9	273.9	265.7	270.3	262.9	255.9	260.2
51°	298.6	304.4	300.8	299.5	262.5	262.9	255.0	259.0	251.7	244.9	249.1
52°	289.0	294.9	291.5	288.6	250.3	251.8	243.4	248.0	240.1	232.8	236.5
53°	276.7	284.6	280.9	278.1	238.1	240.3	231.4	236.0	227.6	221.4	224.8
54°	266.2	272.6	270.0	267.4	227.0	227.6	218.6	224.0	216.4	209.0	214.0
55°	255.5	261.5	258.2	256.5	215.4	216.5	207.6	211.4	204.3	197.8	201.4
56°	243.9	250.4	247.1	245.5	203.2	204.1	195.4	200.4	194.0	186.7	189.8
57°	231.4	239.5	235.7	233.0	191.6	193.0	184.9	189.6	181.4	175.1	178.4
58°	219.8	226.7	224.6	222.0	179.4	181.7	172.5	177.1	170.2	162.5	166.5
59°	207.4	215.5	211.7	209.2	168.2	170.0	161.4	166.2	158.2	151.7	155.8
60°	196.2	204.3	200.2	197.8	157.1	158.5	150.0	154.3	147.6	140.2	143.5
61°	184.7	191.2	188.7	186.7	145.5	147.3	138.9	142.4	136.0	129.4	133.1
62°	172.9	179.7	177.7	175.4	133.9	136.1	128.0	131.1	126.0	119.0	122.8
63°	161.3	168.7	165.1	164.2	123.3	124.8	118.2	122.2	115.4	108.9	110.9
64°	150.3	157.4	154.6	152.7	113.5	114.4	107.8	111.2	104.6	98.4	101.1
65°	139.1	145.4	143.2	141.4	103.4	104.8	98.0	101.2	94.6	88.8	90.9
66°	127.4	135.1	131.5	129.9	93.0	94.3	86.9	91.1	85.3	79.4	81.5
67°	116.8	124.6	121.6	119.5	83.6	84.3	78.3	81.4	75.5	70.4	72.7
68°	107.3	113.5	111.1	109.2	73.8	75.2	69.0	72.9	66.8	61.7	63.4
69°	97.8	103.3	101.5	99.6	64.8	66.2	61.4	63.6	59.1	53.4	55.7
70°	87.0	93.5	90.8	88.9	57.2	58.6	52.4	55.5	50.9	45.0	48.2
71°	77.5	84.5	81.6	79.6	49.9	50.3	44.8	47.7	43.3	38.4	40.2
72°	69.5	74.9	73.0	70.8	41.7	43.1	36.7	40.4	35.6	30.7	33.3
73°	61.4	65.8	63.2	62.3	34.4	36.1	31.0	33.4	28.9	25.0	26.9
74°	52.1	57.3	55.1	54.4	28.1	28.2	24.5	26.8	22.7	19.6	20.5
75°	44.7	50.5	48.4	46.2	21.9	23.0	19.3	21.0	17.5	14.6	15.8
76°	37.3	42.0	40.5	39.3	16.0	16.9	14.1	16.1	11.9	9.6	11.2
77°	30.9	35.2	33.0	32.6	10.9	12.4	9.8	11.3	8.4	5.4	6.7
78°	24.3	28.7	26.9	26.0	7.3	7.3	5.6	6.7	4.3	2.5	3.7
79°	18.8	23.2	21.2	19.4	2.9	4.4	2.6	3.8	2.1	1.1	1.5
80°	13.9	16.5	15.8	14.6	0.0	2.0	0.0	1.3	0.0	0.0	0.0
81°	9.8	11.6	10.6	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	5.7	7.7	6.6	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	2.9	4.9	4.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	2.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: RLFRC6FSMBB-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
91°	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
93°	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
95°	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
97°	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
99°	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
101°	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
103°	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
105°	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
107°	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
109°	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
111°	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
113°	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
115°	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
117°	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
119°	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
121°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P851830
 CATALOG NUMBER: RLFRC6FSMBB-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P851830
CATALOG NUMBER: RLFRC6FSMBB-4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P851830
 CATALOG NUMBER: RLFRC6FSMBB-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	542.5	542.5	542.5	542.5	542.5	542.5
1°	541.6	543.0	542.8	542.9	542.4	542.9
2°	541.1	542.9	542.7	543.0	542.7	543.3
3°	540.2	542.5	542.6	543.0	542.9	542.7
4°	539.0	542.0	542.1	542.7	542.4	542.4
5°	537.9	541.2	541.6	542.2	542.0	542.1
6°	536.0	540.2	540.6	541.3	541.7	541.3
7°	534.1	538.7	539.3	540.4	540.0	540.5
8°	531.9	537.3	538.1	539.1	538.6	539.8
9°	529.4	536.1	536.3	537.9	537.2	538.2
10°	527.0	534.2	534.5	536.3	535.4	536.7
11°	524.9	532.6	532.5	534.6	533.4	535.2
12°	522.0	530.5	530.3	532.8	531.6	532.3
13°	518.4	528.4	528.3	530.4	529.1	530.8
14°	515.2	525.2	525.9	527.5	526.7	528.3
15°	511.6	522.6	522.4	524.9	524.1	526.1
16°	507.6	519.6	519.5	522.0	521.0	523.0
17°	503.6	516.1	516.1	519.1	517.9	520.0
18°	499.4	512.6	513.1	515.7	514.6	516.8
19°	494.8	509.1	508.7	512.1	510.9	513.2
20°	490.4	505.0	505.2	508.2	507.1	509.3
21°	485.4	500.8	501.3	504.7	503.2	505.3
22°	480.5	496.6	497.0	500.1	499.1	501.5
23°	475.1	492.2	492.0	495.8	494.7	496.7
24°	469.6	487.4	487.9	491.7	489.9	492.2
25°	463.5	482.2	483.1	486.7	485.4	487.8
26°	458.4	477.2	477.5	481.9	479.8	482.9
27°	451.9	472.2	472.4	476.3	474.8	477.5
28°	446.2	466.7	466.8	471.0	469.4	472.5
29°	439.5	460.6	461.3	465.7	463.2	466.8
30°	432.6	454.4	455.4	459.8	457.2	461.4
31°	426.2	449.1	449.3	454.3	451.7	455.2
32°	419.8	441.9	442.8	447.9	445.5	448.9
33°	411.8	435.9	436.1	441.4	438.9	442.8
34°	404.8	429.2	429.3	435.3	432.8	435.7
35°	397.0	422.8	422.9	427.9	425.9	428.8
36°	389.4	414.9	415.8	421.0	418.2	422.4
37°	381.7	408.3	408.0	413.9	411.1	414.7
38°	373.6	400.8	400.8	407.2	404.3	407.4
39°	365.4	392.8	393.7	399.0	396.3	400.6
40°	357.1	385.3	385.9	391.3	388.3	392.8
41°	349.2	377.2	377.4	383.6	380.6	384.6
42°	339.9	369.7	369.4	375.8	372.5	376.4
43°	332.3	361.2	362.0	366.8	364.9	368.8
44°	323.7	353.0	352.7	359.2	355.9	360.6



TEST NUMBER: P851830
 CATALOG NUMBER: RLFRC6FSMBB-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	314.3	344.9	344.2	351.1	347.8	352.2
46°	305.2	336.4	335.8	342.3	338.6	343.6
47°	295.0	327.1	327.1	333.7	329.9	335.1
48°	284.6	318.2	317.5	325.1	320.9	326.8
49°	273.5	309.9	308.8	316.0	312.1	316.7
50°	262.8	300.3	299.3	306.3	303.6	308.1
51°	251.3	289.9	288.5	296.7	292.3	298.6
52°	239.7	279.6	277.9	286.6	282.0	289.0
53°	227.2	269.2	267.5	276.1	271.6	276.7
54°	216.2	256.7	256.1	263.9	260.3	266.2
55°	204.7	245.7	243.8	252.8	247.8	255.5
56°	192.6	234.6	232.5	241.5	236.9	243.9
57°	180.5	222.0	220.8	229.6	225.2	231.4
58°	169.6	210.2	209.1	217.9	213.1	219.8
59°	157.3	199.0	197.4	206.9	201.1	207.4
60°	145.6	187.6	186.0	194.3	189.9	196.2
61°	135.6	175.3	174.4	182.6	178.6	184.7
62°	125.0	164.3	161.9	171.2	166.4	172.9
63°	114.1	153.1	150.8	159.8	154.7	161.3
64°	104.0	142.0	140.3	147.5	144.2	150.3
65°	93.2	130.6	130.2	136.9	133.0	139.1
66°	83.9	119.6	118.3	126.6	121.9	127.4
67°	75.3	110.7	108.3	116.4	112.1	116.8
68°	66.1	100.0	99.2	105.3	101.6	107.3
69°	56.6	89.6	88.8	95.6	91.1	97.8
70°	49.2	81.0	78.7	86.4	81.9	87.0
71°	41.1	71.5	70.0	77.2	73.1	77.5
72°	34.4	63.1	60.5	66.8	63.3	69.5
73°	27.6	54.6	52.3	58.8	55.3	61.4
74°	22.5	47.2	45.4	51.6	48.3	52.1
75°	16.3	39.8	38.3	43.2	40.3	44.7
76°	11.3	32.1	31.3	36.5	33.9	37.3
77°	7.1	25.7	25.3	30.2	27.1	30.9
78°	4.0	20.0	18.9	23.2	21.0	24.3
79°	1.4	14.5	13.9	18.0	15.8	18.8
80°	0.0	9.3	9.3	12.8	10.6	13.9
81°	0.0	5.8	4.9	8.4	7.0	9.8
82°	0.0	2.6	2.8	4.9	3.8	5.7
83°	0.0	0.0	0.0	2.5	1.5	2.9
84°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
89°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P851830
 CATALOG NUMBER: RLFRC6FSMBB-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0
91°	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
93°	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
95°	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
97°	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
99°	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
101°	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
103°	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
105°	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
107°	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
109°	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
111°	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
113°	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
115°	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
117°	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
119°	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
121°	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
123°	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
125°	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
127°	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P851830
 CATALOG NUMBER: RLFRC6FSMBB-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P851830
CATALOG NUMBER: RLFRC6FSMBB-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)