

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: P1046673

Luminaire Tested: FMNL1112FS5-(black trim)-920

Issue Date: 07/08/2025

Tested By:

Approved By:



NVLAP Lab Code: 200050-0

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Test Information

Test Method: LM-79-2019
Report Number: P1046673
Test Lab: Cooper lighting solutions
Issue Date: 07/08/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: FMNL1112FS5-(black trim)-920
Description: HALO 11 inch 90 CRI COLOR SELECTABLE flush mount Black Trim FIXTURE with night light
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 90.5 lumens
Efficiency: N/A
Efficacy: 8.3 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 8.87
Luminous Opening: Circular (Dia: 0.9' x H: 0')
CIE Type: Semi-Indirect

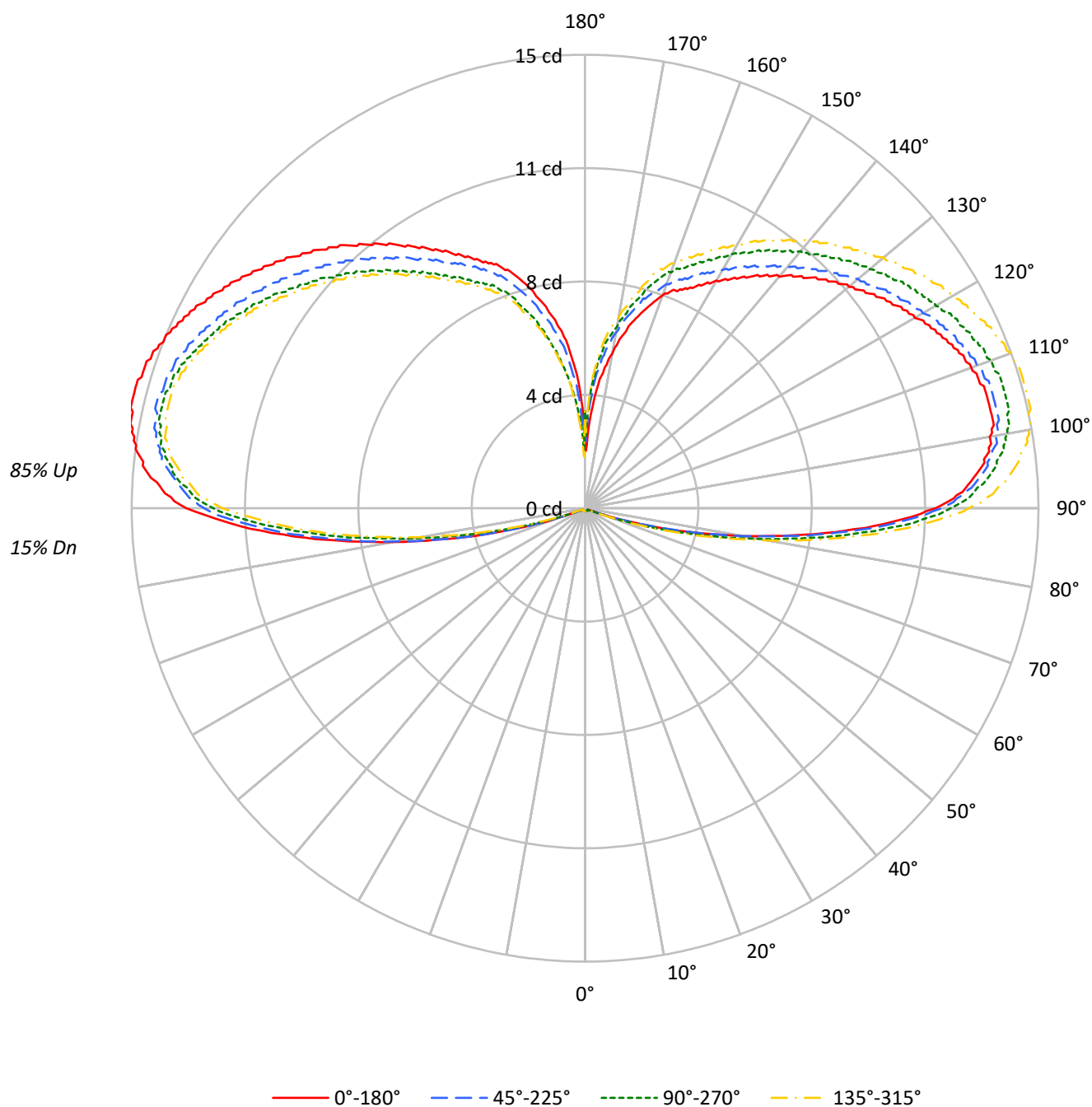
Input Watts (W): 10.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	P3	10/30/2015	4/30/2016
Power Meter	IN0214	1/12/2016	1/12/2017
AC Power Source	IN0062	1/12/2016	1/12/2017
DC Power Supply	--	--	--
Room Thermometer	IN0145	1/13/2016	1/13/2017

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

Luminous Intensity Polar Plot



TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112F55-(black trim)-920

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	99	99	99	99	87	87	87	87	64	64	64	43	43	43	24	24	24
1	86	80	74	69	74	69	64	60	49	46	43	31	29	27	14	13	11
2	77	68	61	55	66	59	53	48	42	38	34	26	23	21	11	10	8
3	70	59	51	45	60	52	45	39	37	32	28	23	20	17	10	8	6
4	64	52	44	38	55	45	38	33	32	27	23	20	17	14	9	7	5
5	58	46	38	32	50	40	33	28	29	24	20	18	15	12	8	6	4
6	54	41	33	27	46	36	29	24	26	21	17	16	13	10	7	5	4
7	49	37	29	23	43	32	25	21	23	18	15	15	11	9	7	5	3
8	46	33	26	20	39	29	22	18	21	16	13	13	10	8	6	4	3
9	42	30	23	18	37	26	20	16	19	14	11	12	9	7	6	4	3
10	39	28	20	16	34	24	18	14	17	13	10	11	8	6	5	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2	2	2	2
5°	2	2	2	2
10°	2	2	2	2
15°	2	2	2	2
20°	2	2	2	2
25°	2	2	2	2
30°	2	2	2	2
35°	2	2	2	2
40°	2	2	2	2
45°	2	2	2	2
50°	3	3	3	3
55°	3	3	3	3
60°	3	3	3	3
65°	4	8	8	4
70°	25	35	45	30
75°	157	183	209	177
80°	516	565	624	555
85°	1670	1786	1941	1786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 89.5°

Luminance: 25012 cd/sqm

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.1
30°-40°	0.1	0.1
40°-50°	0.1	0.1
50°-60°	0.1	0.1
60°-70°	0.2	0.2
70°-80°	3.1	3.4
80°-90°	10.0	11.1
90°-100°	14.8	16.3
100°-110°	15.3	16.9
110°-120°	13.7	15.2
120°-130°	11.4	12.6
130°-140°	8.8	9.8
140°-150°	6.3	7.0
150°-160°	4.0	4.4
160°-170°	2.0	2.2
170°-180°	0.5	0.5
0°-30°	0.1	0.1
0°-40°	0.1	0.2
0°-60°	0.3	0.3
0°-90°	13.7	15.1
90°-120°	43.8	48.4
90°-150°	70.4	77.7
90°-180°	77.0	85.0
0°-180°	90.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	2	3	3	3	2	3
85°	9	9	10	9	9	6
90°	12	12	13	12	12	6
95°	13	14	15	14	13	11
105°	14	14	15	14	14	15
115°	13	14	15	14	13	13
125°	12	13	14	12	12	11
135°	11	12	12	11	11	8
145°	9	10	11	10	9	6
155°	8	9	9	8	8	4
165°	6	7	8	6	6	2
175°	4	5	5	4	4	0
180°	3	3	3	3	3	

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
11°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
11.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
12°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
12.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
13°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
13.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
16°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
16.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
19°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
19.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
20°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
20.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
21°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
21.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
22°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
23°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
23.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
24°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
24.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
25°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
25.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
26°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
26.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
27°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
27.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
28°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
28.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
29°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
29.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
30°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
30.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
31°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
31.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
32°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
32.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
33°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
33.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
35°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
35.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
36°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
36.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
37°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
37.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
38°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
38.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
39°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
39.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
41°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
41.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
42°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
42.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
43°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
43.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
45.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
46°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
46.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
47°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
47.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
48°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
48.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
49°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
49.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
50°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
50.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
51°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
51.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
52°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
52.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
53°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
53.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
54°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
54.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
55°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
55.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
56°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
56.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
57°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
57.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
58°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
58.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
59°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
59.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
60.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
61°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
61.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1
62°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
62.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
63.5°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
64°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
66.5°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
68°	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4
68.5°	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5
69°	0.3	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6
69.5°	0.4	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.7	0.8
70°	0.5	0.4	0.5	0.6	0.7	0.8	0.8	0.9	0.9	0.9	0.9
70.5°	0.6	0.6	0.6	0.7	0.9	0.9	1.0	1.1	1.1	1.0	1.1
71°	0.7	0.7	0.7	0.9	1.1	1.1	1.2	1.3	1.3	1.2	1.3
71.5°	0.9	0.9	0.9	1.1	1.2	1.3	1.4	1.5	1.5	1.4	1.5
72°	1.0	1.1	1.1	1.2	1.4	1.5	1.6	1.7	1.7	1.6	1.7
72.5°	1.2	1.2	1.2	1.4	1.6	1.7	1.8	1.9	1.9	1.8	1.9
73°	1.4	1.5	1.4	1.6	1.9	1.9	2.0	2.1	2.1	2.1	2.1
73.5°	1.6	1.7	1.6	1.9	2.1	2.2	2.3	2.3	2.4	2.3	2.4
74°	1.9	1.9	1.9	2.1	2.3	2.4	2.5	2.6	2.6	2.6	2.7
74.5°	2.1	2.2	2.1	2.3	2.6	2.7	2.8	2.8	2.9	2.8	2.9
75°	2.4	2.4	2.3	2.6	2.8	2.9	3.0	3.1	3.2	3.1	3.2
75.5°	2.6	2.7	2.6	2.8	3.1	3.2	3.3	3.4	3.5	3.4	3.5
76°	2.9	2.9	2.8	3.1	3.4	3.5	3.6	3.7	3.8	3.7	3.8
76.5°	3.2	3.2	3.1	3.3	3.7	3.8	3.9	4.0	4.1	4.0	4.1
77°	3.4	3.5	3.4	3.6	4.0	4.1	4.2	4.3	4.4	4.3	4.4
77.5°	3.7	3.8	3.7	3.9	4.2	4.4	4.5	4.6	4.7	4.6	4.7
78°	4.0	4.1	4.0	4.2	4.6	4.7	4.8	5.0	5.0	4.9	5.0
78.5°	4.3	4.4	4.3	4.5	4.9	5.0	5.1	5.3	5.4	5.3	5.3
79°	4.6	4.7	4.6	4.8	5.2	5.3	5.4	5.6	5.7	5.6	5.7
79.5°	4.9	5.1	4.9	5.2	5.5	5.6	5.8	6.0	6.1	5.9	6.0
80°	5.3	5.4	5.3	5.5	5.8	6.0	6.1	6.3	6.4	6.3	6.3
80.5°	5.6	5.7	5.6	5.8	6.2	6.3	6.5	6.7	6.8	6.6	6.7
81°	5.9	6.0	5.9	6.2	6.5	6.6	6.8	7.1	7.1	7.0	7.0
81.5°	6.2	6.4	6.3	6.5	6.8	7.0	7.2	7.4	7.5	7.3	7.4
82°	6.6	6.7	6.6	6.9	7.2	7.3	7.5	7.8	7.9	7.7	7.7
82.5°	6.9	7.0	7.0	7.2	7.5	7.7	7.9	8.1	8.2	8.0	8.0
83°	7.2	7.4	7.4	7.6	7.9	8.0	8.2	8.5	8.6	8.4	8.4
83.5°	7.6	7.7	7.7	7.9	8.2	8.3	8.6	8.9	9.0	8.7	8.7
84°	7.9	8.1	8.1	8.3	8.6	8.7	8.9	9.3	9.3	9.1	9.1
84.5°	8.3	8.4	8.4	8.7	8.9	9.0	9.3	9.6	9.7	9.4	9.4
85°	8.6	8.8	8.8	9.0	9.2	9.4	9.7	10.0	10.0	9.8	9.8
85.5°	8.9	9.1	9.1	9.4	9.6	9.7	10.0	10.3	10.4	10.1	10.1
86°	9.3	9.4	9.5	9.7	9.9	10.0	10.3	10.7	10.7	10.5	10.4
86.5°	9.6	9.8	9.8	10.0	10.2	10.3	10.7	11.0	11.1	10.8	10.7
87°	9.9	10.1	10.1	10.3	10.6	10.7	11.0	11.4	11.4	11.1	11.0
87.5°	10.2	10.4	10.4	10.7	10.9	11.0	11.3	11.7	11.7	11.4	11.3
88°	10.5	10.7	10.7	11.0	11.1	11.3	11.6	12.0	12.0	11.7	11.6
88.5°	10.8	10.9	11.0	11.2	11.4	11.5	11.9	12.3	12.3	12.0	11.9
89°	11.1	11.2	11.3	11.5	11.7	11.8	12.2	12.6	12.6	12.3	12.2
89.5°	11.3	11.4	11.5	11.7	11.9	12.0	12.5	12.9	12.9	12.6	12.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	11.6	11.7	11.8	12.0	12.1	12.3	12.7	13.2	13.2	12.8	12.6
90.5°	11.8	11.9	12.0	12.2	12.3	12.5	12.9	13.4	13.4	13.0	12.8
91°	12.0	12.1	12.2	12.3	12.5	12.7	13.2	13.6	13.6	13.2	12.9
91.5°	12.2	12.2	12.3	12.5	12.7	12.9	13.3	13.7	13.7	13.3	13.1
92°	12.3	12.4	12.5	12.6	12.8	13.0	13.5	13.9	13.9	13.5	13.2
92.5°	12.5	12.5	12.6	12.8	12.9	13.1	13.6	14.0	14.0	13.6	13.3
93°	12.6	12.6	12.8	12.9	13.0	13.3	13.7	14.1	14.1	13.7	13.4
93.5°	12.7	12.7	12.9	13.0	13.2	13.4	13.9	14.3	14.2	13.8	13.5
94°	12.8	12.8	13.0	13.1	13.3	13.5	14.0	14.4	14.4	13.9	13.6
94.5°	12.9	12.9	13.1	13.2	13.4	13.6	14.1	14.5	14.5	14.0	13.7
95°	13.0	13.0	13.2	13.3	13.5	13.7	14.2	14.6	14.6	14.1	13.8
95.5°	13.1	13.1	13.3	13.4	13.6	13.8	14.3	14.7	14.7	14.2	13.9
96°	13.2	13.2	13.4	13.5	13.7	13.9	14.4	14.8	14.7	14.3	14.0
96.5°	13.3	13.3	13.4	13.6	13.7	14.0	14.5	14.9	14.8	14.4	14.1
97°	13.3	13.4	13.5	13.7	13.8	14.1	14.5	14.9	14.9	14.5	14.1
97.5°	13.4	13.4	13.6	13.7	13.9	14.1	14.6	15.0	15.0	14.5	14.2
98°	13.5	13.5	13.6	13.8	14.0	14.2	14.7	15.1	15.0	14.6	14.2
98.5°	13.5	13.5	13.7	13.8	14.0	14.3	14.8	15.1	15.1	14.7	14.3
99°	13.6	13.6	13.8	13.9	14.1	14.3	14.8	15.2	15.1	14.7	14.3
99.5°	13.6	13.6	13.8	14.0	14.1	14.4	14.9	15.2	15.2	14.8	14.4
100°	13.6	13.7	13.8	14.0	14.2	14.4	14.9	15.3	15.2	14.8	14.4
100.5°	13.7	13.7	13.9	14.0	14.2	14.5	15.0	15.3	15.3	14.8	14.5
101°	13.7	13.7	13.9	14.1	14.3	14.5	15.0	15.3	15.3	14.9	14.5
101.5°	13.8	13.8	13.9	14.1	14.3	14.6	15.0	15.4	15.3	14.9	14.5
102°	13.8	13.8	14.0	14.1	14.3	14.6	15.0	15.4	15.3	14.9	14.5
102.5°	13.8	13.8	14.0	14.1	14.3	14.6	15.1	15.4	15.4	14.9	14.5
103°	13.8	13.8	14.0	14.2	14.4	14.6	15.1	15.4	15.4	14.9	14.6
103.5°	13.8	13.8	14.0	14.2	14.4	14.7	15.1	15.4	15.4	14.9	14.6
104°	13.8	13.8	14.0	14.2	14.4	14.7	15.1	15.4	15.4	14.9	14.6
104.5°	13.8	13.8	14.0	14.2	14.4	14.7	15.1	15.4	15.4	15.0	14.6
105°	13.8	13.8	14.0	14.2	14.4	14.7	15.1	15.4	15.4	14.9	14.6
105.5°	13.8	13.8	14.0	14.2	14.4	14.7	15.1	15.4	15.4	14.9	14.5
106°	13.8	13.8	14.0	14.2	14.4	14.7	15.1	15.4	15.4	14.9	14.5
106.5°	13.8	13.8	14.0	14.2	14.4	14.7	15.1	15.4	15.3	14.9	14.5
107°	13.8	13.8	14.0	14.2	14.4	14.7	15.1	15.4	15.3	14.9	14.5
107.5°	13.7	13.8	14.0	14.1	14.4	14.7	15.1	15.4	15.3	14.9	14.5
108°	13.7	13.8	13.9	14.1	14.4	14.7	15.1	15.3	15.3	14.9	14.5
108.5°	13.7	13.7	13.9	14.1	14.3	14.6	15.0	15.3	15.3	14.9	14.4
109°	13.7	13.7	13.9	14.1	14.3	14.6	15.0	15.3	15.2	14.8	14.4
109.5°	13.6	13.7	13.9	14.1	14.3	14.6	15.0	15.3	15.2	14.8	14.4
110°	13.6	13.6	13.8	14.0	14.3	14.6	15.0	15.2	15.2	14.8	14.4
110.5°	13.6	13.6	13.8	14.0	14.2	14.6	14.9	15.2	15.1	14.7	14.3
111°	13.5	13.6	13.8	14.0	14.2	14.5	14.9	15.2	15.1	14.7	14.3
111.5°	13.5	13.5	13.7	13.9	14.2	14.5	14.9	15.1	15.0	14.7	14.2
112°	13.5	13.5	13.7	13.9	14.2	14.5	14.8	15.1	15.0	14.6	14.2

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CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	13.4	13.5	13.7	13.9	14.1	14.4	14.8	15.0	15.0	14.6	14.2
113°	13.4	13.4	13.6	13.8	14.1	14.4	14.7	15.0	14.9	14.5	14.1
113.5°	13.3	13.4	13.6	13.8	14.0	14.4	14.7	14.9	14.9	14.5	14.1
114°	13.3	13.3	13.5	13.7	14.0	14.3	14.7	14.9	14.8	14.4	14.0
114.5°	13.2	13.3	13.5	13.7	14.0	14.3	14.6	14.8	14.8	14.4	14.0
115°	13.2	13.3	13.5	13.7	13.9	14.2	14.6	14.8	14.7	14.4	13.9
115.5°	13.1	13.2	13.4	13.6	13.9	14.2	14.5	14.7	14.7	14.3	13.9
116°	13.1	13.1	13.4	13.6	13.8	14.2	14.5	14.7	14.6	14.3	13.8
116.5°	13.0	13.1	13.3	13.5	13.8	14.1	14.4	14.6	14.6	14.2	13.8
117°	13.0	13.1	13.3	13.5	13.8	14.1	14.4	14.6	14.5	14.2	13.7
117.5°	12.9	13.0	13.2	13.4	13.7	14.0	14.3	14.5	14.5	14.1	13.7
118°	12.9	13.0	13.2	13.4	13.7	14.0	14.3	14.5	14.4	14.0	13.6
118.5°	12.8	12.9	13.1	13.3	13.6	13.9	14.2	14.4	14.3	14.0	13.6
119°	12.8	12.8	13.1	13.3	13.5	13.9	14.2	14.3	14.3	14.0	13.5
119.5°	12.7	12.8	13.0	13.2	13.5	13.8	14.1	14.3	14.2	13.9	13.5
120°	12.6	12.7	12.9	13.2	13.4	13.8	14.1	14.2	14.2	13.8	13.4
120.5°	12.6	12.7	12.9	13.1	13.4	13.7	14.0	14.2	14.1	13.8	13.4
121°	12.5	12.6	12.8	13.1	13.3	13.7	14.0	14.1	14.0	13.7	13.3
121.5°	12.5	12.6	12.8	13.0	13.3	13.6	13.9	14.1	14.0	13.7	13.2
122°	12.4	12.5	12.7	12.9	13.2	13.6	13.9	14.0	13.9	13.6	13.2
122.5°	12.4	12.4	12.7	12.9	13.2	13.5	13.8	13.9	13.9	13.5	13.1
123°	12.3	12.4	12.6	12.8	13.1	13.5	13.7	13.9	13.8	13.5	13.1
123.5°	12.2	12.3	12.5	12.8	13.1	13.4	13.7	13.8	13.7	13.4	13.0
124°	12.2	12.3	12.5	12.7	13.0	13.4	13.6	13.7	13.7	13.4	12.9
124.5°	12.1	12.2	12.4	12.7	13.0	13.3	13.6	13.7	13.6	13.3	12.9
125°	12.1	12.1	12.4	12.6	12.9	13.3	13.5	13.6	13.5	13.2	12.8
125.5°	12.0	12.1	12.3	12.5	12.9	13.2	13.4	13.6	13.5	13.2	12.8
126°	11.9	12.0	12.3	12.5	12.8	13.1	13.4	13.5	13.4	13.1	12.7
126.5°	11.9	12.0	12.2	12.4	12.7	13.1	13.3	13.4	13.3	13.1	12.6
127°	11.8	11.9	12.1	12.4	12.7	13.0	13.2	13.4	13.3	13.0	12.6
127.5°	11.7	11.8	12.1	12.3	12.6	13.0	13.2	13.3	13.2	12.9	12.5
128°	11.7	11.8	12.0	12.2	12.6	12.9	13.1	13.2	13.1	12.9	12.4
128.5°	11.6	11.7	11.9	12.2	12.5	12.8	13.1	13.2	13.1	12.8	12.4
129°	11.5	11.7	11.9	12.1	12.4	12.8	13.0	13.1	13.0	12.7	12.3
129.5°	11.5	11.6	11.8	12.1	12.4	12.7	12.9	13.0	12.9	12.7	12.2
130°	11.4	11.5	11.8	12.0	12.3	12.7	12.9	13.0	12.9	12.6	12.2
130.5°	11.4	11.5	11.7	11.9	12.3	12.6	12.8	12.9	12.8	12.5	12.1
131°	11.3	11.4	11.6	11.9	12.2	12.5	12.7	12.8	12.7	12.5	12.0
131.5°	11.2	11.3	11.6	11.8	12.1	12.5	12.7	12.8	12.6	12.4	12.0
132°	11.2	11.3	11.5	11.7	12.1	12.4	12.6	12.7	12.6	12.3	11.9
132.5°	11.1	11.2	11.4	11.7	12.0	12.4	12.5	12.6	12.5	12.3	11.8
133°	11.0	11.1	11.4	11.6	12.0	12.3	12.5	12.6	12.4	12.2	11.8
133.5°	11.0	11.1	11.3	11.5	11.9	12.2	12.4	12.5	12.4	12.1	11.7
134°	10.9	11.0	11.2	11.5	11.8	12.2	12.3	12.4	12.3	12.1	11.6
134.5°	10.8	10.9	11.2	11.4	11.8	12.1	12.3	12.3	12.2	12.0	11.6

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CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	10.8	10.9	11.1	11.3	11.7	12.0	12.2	12.3	12.1	12.0	11.5
135.5°	10.7	10.8	11.0	11.3	11.6	12.0	12.1	12.2	12.1	11.9	11.4
136°	10.6	10.7	11.0	11.2	11.6	11.9	12.1	12.1	12.0	11.8	11.4
136.5°	10.5	10.7	10.9	11.1	11.5	11.8	12.0	12.1	11.9	11.7	11.3
137°	10.5	10.6	10.8	11.1	11.4	11.8	11.9	12.0	11.9	11.7	11.2
137.5°	10.4	10.6	10.8	11.0	11.4	11.7	11.9	11.9	11.8	11.6	11.2
138°	10.3	10.5	10.7	10.9	11.3	11.6	11.8	11.9	11.7	11.5	11.1
138.5°	10.3	10.4	10.6	10.9	11.2	11.6	11.7	11.8	11.6	11.5	11.0
139°	10.2	10.3	10.6	10.8	11.2	11.5	11.7	11.7	11.5	11.4	10.9
139.5°	10.1	10.3	10.5	10.7	11.1	11.4	11.6	11.6	11.5	11.3	10.9
140°	10.0	10.2	10.4	10.7	11.1	11.4	11.5	11.6	11.4	11.3	10.8
140.5°	10.0	10.1	10.4	10.6	11.0	11.3	11.5	11.5	11.3	11.2	10.7
141°	9.9	10.1	10.3	10.5	10.9	11.2	11.4	11.4	11.2	11.1	10.6
141.5°	9.8	10.0	10.2	10.5	10.9	11.1	11.3	11.4	11.2	11.1	10.6
142°	9.8	9.9	10.2	10.4	10.8	11.1	11.2	11.3	11.1	11.0	10.5
142.5°	9.7	9.9	10.1	10.3	10.7	11.0	11.2	11.2	11.0	10.9	10.4
143°	9.6	9.8	10.0	10.3	10.7	10.9	11.1	11.1	10.9	10.8	10.4
143.5°	9.6	9.7	10.0	10.2	10.6	10.9	11.0	11.1	10.9	10.8	10.3
144°	9.5	9.7	9.9	10.1	10.5	10.8	11.0	11.0	10.8	10.7	10.2
144.5°	9.4	9.6	9.8	10.1	10.5	10.7	10.9	10.9	10.7	10.6	10.2
145°	9.3	9.5	9.8	10.0	10.4	10.6	10.8	10.8	10.6	10.5	10.1
145.5°	9.3	9.5	9.7	9.9	10.3	10.6	10.7	10.8	10.5	10.5	10.0
146°	9.2	9.4	9.6	9.8	10.3	10.5	10.7	10.7	10.5	10.4	9.9
146.5°	9.1	9.3	9.6	9.8	10.2	10.4	10.6	10.6	10.4	10.3	9.9
147°	9.1	9.3	9.5	9.7	10.1	10.3	10.5	10.6	10.3	10.2	9.8
147.5°	9.0	9.2	9.4	9.6	10.0	10.3	10.5	10.5	10.2	10.1	9.8
148°	8.9	9.1	9.4	9.6	10.0	10.2	10.4	10.4	10.2	10.1	9.7
148.5°	8.9	9.1	9.3	9.5	9.9	10.1	10.3	10.3	10.1	10.0	9.6
149°	8.8	9.0	9.2	9.4	9.8	10.0	10.2	10.2	10.0	9.9	9.6
149.5°	8.7	8.9	9.2	9.4	9.8	10.0	10.1	10.2	9.9	9.8	9.5
150°	8.7	8.8	9.1	9.3	9.7	9.9	10.1	10.1	9.9	9.8	9.4
150.5°	8.6	8.8	9.0	9.3	9.6	9.8	10.0	10.0	9.8	9.7	9.4
151°	8.5	8.7	9.0	9.2	9.5	9.7	9.9	10.0	9.7	9.6	9.3
151.5°	8.5	8.6	8.9	9.1	9.5	9.7	9.8	9.9	9.7	9.5	9.2
152°	8.4	8.6	8.8	9.1	9.4	9.6	9.8	9.8	9.6	9.5	9.2
152.5°	8.3	8.5	8.8	9.0	9.3	9.5	9.7	9.7	9.5	9.4	9.1
153°	8.3	8.4	8.7	8.9	9.2	9.4	9.6	9.7	9.4	9.3	9.1
153.5°	8.2	8.4	8.7	8.9	9.2	9.3	9.5	9.6	9.4	9.2	9.0
154°	8.1	8.3	8.6	8.8	9.1	9.3	9.5	9.5	9.3	9.2	8.9
154.5°	8.1	8.3	8.5	8.8	9.0	9.2	9.4	9.4	9.2	9.1	8.9
155°	8.0	8.2	8.5	8.7	9.0	9.1	9.3	9.4	9.2	9.0	8.8
155.5°	8.0	8.1	8.4	8.6	8.9	9.0	9.2	9.3	9.1	8.9	8.8
156°	7.9	8.1	8.3	8.6	8.8	9.0	9.2	9.2	9.0	8.9	8.7
156.5°	7.9	8.0	8.3	8.5	8.8	8.9	9.1	9.2	9.0	8.8	8.6
157°	7.8	8.0	8.2	8.5	8.7	8.8	9.0	9.1	8.9	8.7	8.6

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	7.8	7.9	8.2	8.4	8.6	8.8	9.0	9.1	8.8	8.7	8.5
158°	7.8	7.8	8.1	8.4	8.6	8.7	8.9	9.0	8.8	8.6	8.4
158.5°	7.7	7.8	8.0	8.3	8.5	8.6	8.8	8.9	8.7	8.5	8.4
159°	7.6	7.7	8.0	8.3	8.5	8.6	8.8	8.9	8.7	8.5	8.3
159.5°	7.6	7.7	7.9	8.2	8.4	8.5	8.7	8.8	8.6	8.4	8.2
160°	7.5	7.6	7.9	8.2	8.3	8.4	8.6	8.7	8.6	8.4	8.2
160.5°	7.4	7.5	7.8	8.1	8.3	8.4	8.6	8.7	8.5	8.3	8.1
161°	7.3	7.4	7.7	8.0	8.2	8.3	8.5	8.6	8.4	8.2	8.0
161.5°	7.2	7.3	7.6	8.0	8.1	8.2	8.4	8.5	8.3	8.2	7.9
162°	7.1	7.2	7.6	7.9	8.0	8.1	8.3	8.4	8.3	8.1	7.8
162.5°	7.0	7.2	7.5	7.8	7.9	8.0	8.3	8.4	8.2	8.0	7.7
163°	6.9	7.1	7.4	7.7	7.8	7.9	8.2	8.3	8.1	7.9	7.6
163.5°	6.8	7.0	7.3	7.6	7.7	7.8	8.1	8.2	8.0	7.8	7.5
164°	6.7	6.9	7.2	7.5	7.6	7.7	8.0	8.1	7.9	7.7	7.4
164.5°	6.6	6.8	7.2	7.4	7.5	7.5	7.8	8.0	7.8	7.6	7.3
165°	6.5	6.7	7.0	7.3	7.3	7.4	7.7	7.8	7.7	7.4	7.2
165.5°	6.4	6.6	6.9	7.2	7.2	7.3	7.6	7.7	7.6	7.3	7.1
166°	6.3	6.5	6.8	7.1	7.1	7.2	7.4	7.6	7.5	7.2	7.0
166.5°	6.2	6.4	6.7	7.0	7.0	7.1	7.3	7.4	7.4	7.1	6.9
167°	6.0	6.3	6.6	6.9	6.9	6.9	7.2	7.3	7.2	7.0	6.7
167.5°	5.9	6.2	6.5	6.8	6.8	6.8	7.1	7.2	7.1	6.9	6.6
168°	5.8	6.1	6.4	6.7	6.6	6.7	6.9	7.1	7.0	6.8	6.5
168.5°	5.7	5.9	6.3	6.6	6.5	6.6	6.8	6.9	6.9	6.6	6.4
169°	5.5	5.8	6.2	6.5	6.4	6.4	6.7	6.8	6.8	6.5	6.3
169.5°	5.4	5.7	6.0	6.3	6.3	6.3	6.6	6.7	6.6	6.4	6.2
170°	5.2	5.6	5.9	6.2	6.1	6.2	6.4	6.5	6.5	6.3	6.0
170.5°	5.1	5.4	5.8	6.1	6.0	6.1	6.3	6.4	6.4	6.2	5.9
171°	5.0	5.3	5.7	6.0	5.9	6.0	6.2	6.3	6.3	6.1	5.8
171.5°	4.8	5.2	5.5	5.8	5.8	5.9	6.1	6.1	6.1	6.0	5.6
172°	4.7	5.0	5.4	5.7	5.7	5.8	6.0	6.0	6.0	5.8	5.5
172.5°	4.5	4.9	5.3	5.6	5.6	5.6	5.9	5.9	5.9	5.7	5.4
173°	4.4	4.7	5.1	5.4	5.5	5.5	5.7	5.8	5.7	5.6	5.2
173.5°	4.3	4.6	5.0	5.3	5.3	5.3	5.6	5.6	5.6	5.4	5.0
174°	4.1	4.4	4.8	5.1	5.1	5.2	5.4	5.4	5.4	5.3	4.8
174.5°	3.9	4.2	4.6	5.0	5.0	5.0	5.2	5.2	5.2	5.1	4.6
175°	3.7	4.0	4.5	4.8	4.8	4.8	5.0	5.1	5.0	5.0	4.4
175.5°	3.5	3.7	4.3	4.6	4.6	4.6	4.8	4.9	4.8	4.8	4.3
176°	3.3	3.5	4.1	4.4	4.4	4.4	4.6	4.6	4.6	4.6	4.1
176.5°	3.1	3.3	3.8	4.2	4.2	4.2	4.4	4.4	4.4	4.3	3.8
177°	2.9	3.1	3.6	3.9	4.0	4.0	4.2	4.2	4.2	4.1	3.6
177.5°	2.7	2.9	3.4	3.7	3.7	3.8	3.9	3.9	3.9	3.8	3.3
178°	2.4	2.6	3.1	3.5	3.4	3.5	3.6	3.6	3.6	3.5	3.0
178.5°	2.1	2.3	2.8	3.2	3.0	3.1	3.2	3.3	3.3	3.1	2.6
179°	1.9	2.1	2.5	2.8	2.7	2.7	2.8	2.9	2.9	2.7	2.6
179.5°	2.5	1.8	2.2	2.4	2.4	2.5	2.5	2.6	2.6	2.6	2.9

TEST NUMBER: P1046673
CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	0.1	0.1	0.1	0.1	0.1	0.1
0.5°	0.1	0.1	0.1	0.1	0.1	0.1
1°	0.1	0.1	0.1	0.1	0.1	0.1
1.5°	0.1	0.1	0.1	0.1	0.1	0.1
2°	0.1	0.1	0.1	0.1	0.1	0.1
2.5°	0.1	0.1	0.1	0.1	0.1	0.1
3°	0.1	0.1	0.1	0.1	0.1	0.1
3.5°	0.1	0.1	0.1	0.1	0.1	0.1
4°	0.1	0.1	0.1	0.1	0.1	0.1
4.5°	0.1	0.1	0.1	0.1	0.1	0.1
5°	0.1	0.1	0.1	0.1	0.1	0.1
5.5°	0.1	0.1	0.1	0.1	0.1	0.1
6°	0.1	0.1	0.1	0.1	0.1	0.1
6.5°	0.1	0.1	0.1	0.1	0.1	0.1
7°	0.1	0.1	0.1	0.1	0.1	0.1
7.5°	0.1	0.1	0.1	0.1	0.1	0.1
8°	0.1	0.1	0.1	0.1	0.1	0.1
8.5°	0.1	0.1	0.1	0.1	0.1	0.1
9°	0.1	0.1	0.1	0.1	0.1	0.1
9.5°	0.1	0.1	0.1	0.1	0.1	0.1
10°	0.1	0.1	0.1	0.1	0.1	0.1
10.5°	0.1	0.1	0.1	0.1	0.1	0.1
11°	0.1	0.1	0.1	0.1	0.1	0.1
11.5°	0.1	0.1	0.1	0.1	0.1	0.1
12°	0.1	0.1	0.1	0.1	0.1	0.1
12.5°	0.1	0.1	0.1	0.1	0.1	0.1
13°	0.1	0.1	0.1	0.1	0.1	0.1
13.5°	0.1	0.1	0.1	0.1	0.1	0.1
14°	0.1	0.1	0.1	0.1	0.1	0.1
14.5°	0.1	0.1	0.1	0.1	0.1	0.1
15°	0.1	0.1	0.1	0.1	0.1	0.1
15.5°	0.1	0.1	0.1	0.1	0.1	0.1
16°	0.1	0.1	0.1	0.1	0.1	0.1
16.5°	0.1	0.1	0.1	0.1	0.1	0.1
17°	0.1	0.1	0.1	0.1	0.1	0.1
17.5°	0.1	0.1	0.1	0.1	0.1	0.1
18°	0.1	0.1	0.1	0.1	0.1	0.1
18.5°	0.1	0.1	0.1	0.1	0.1	0.1
19°	0.1	0.1	0.1	0.1	0.1	0.1
19.5°	0.1	0.1	0.1	0.1	0.1	0.1
20°	0.1	0.1	0.1	0.1	0.1	0.1
20.5°	0.1	0.1	0.1	0.1	0.1	0.1
21°	0.1	0.1	0.1	0.1	0.1	0.1
21.5°	0.1	0.1	0.1	0.1	0.1	0.1
22°	0.1	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	0.1	0.1	0.1	0.1	0.1	0.1
23°	0.1	0.1	0.1	0.1	0.1	0.1
23.5°	0.1	0.1	0.1	0.1	0.1	0.1
24°	0.1	0.1	0.1	0.1	0.1	0.1
24.5°	0.1	0.1	0.1	0.1	0.1	0.1
25°	0.1	0.1	0.1	0.1	0.1	0.1
25.5°	0.1	0.1	0.1	0.1	0.1	0.1
26°	0.1	0.1	0.1	0.1	0.1	0.1
26.5°	0.1	0.1	0.1	0.1	0.1	0.1
27°	0.1	0.1	0.1	0.1	0.1	0.1
27.5°	0.1	0.1	0.1	0.1	0.1	0.1
28°	0.1	0.1	0.1	0.1	0.1	0.1
28.5°	0.1	0.1	0.1	0.1	0.1	0.1
29°	0.1	0.1	0.1	0.1	0.1	0.1
29.5°	0.1	0.1	0.1	0.1	0.1	0.1
30°	0.1	0.1	0.1	0.1	0.1	0.1
30.5°	0.1	0.1	0.1	0.1	0.1	0.1
31°	0.1	0.1	0.1	0.1	0.1	0.1
31.5°	0.1	0.1	0.1	0.1	0.1	0.1
32°	0.1	0.1	0.1	0.1	0.1	0.1
32.5°	0.1	0.1	0.1	0.1	0.1	0.1
33°	0.1	0.1	0.1	0.1	0.1	0.1
33.5°	0.1	0.1	0.1	0.1	0.1	0.1
34°	0.1	0.1	0.1	0.1	0.1	0.1
34.5°	0.1	0.1	0.1	0.1	0.1	0.1
35°	0.1	0.1	0.1	0.1	0.1	0.1
35.5°	0.1	0.1	0.1	0.1	0.1	0.1
36°	0.1	0.1	0.1	0.1	0.1	0.1
36.5°	0.1	0.1	0.1	0.1	0.1	0.1
37°	0.1	0.1	0.1	0.1	0.1	0.1
37.5°	0.1	0.1	0.1	0.1	0.1	0.1
38°	0.1	0.1	0.1	0.1	0.1	0.1
38.5°	0.1	0.1	0.1	0.1	0.1	0.1
39°	0.1	0.1	0.1	0.1	0.1	0.1
39.5°	0.1	0.1	0.1	0.1	0.1	0.1
40°	0.1	0.1	0.1	0.1	0.1	0.1
40.5°	0.1	0.1	0.1	0.1	0.1	0.1
41°	0.1	0.1	0.1	0.1	0.1	0.1
41.5°	0.1	0.1	0.1	0.1	0.1	0.1
42°	0.1	0.1	0.1	0.1	0.1	0.1
42.5°	0.1	0.1	0.1	0.1	0.1	0.1
43°	0.1	0.1	0.1	0.1	0.1	0.1
43.5°	0.1	0.1	0.1	0.1	0.1	0.1
44°	0.1	0.1	0.1	0.1	0.1	0.1
44.5°	0.1	0.1	0.1	0.1	0.1	0.1

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	0.1	0.1	0.1	0.1	0.1	0.1
45.5°	0.1	0.1	0.1	0.1	0.1	0.1
46°	0.1	0.1	0.1	0.1	0.1	0.1
46.5°	0.1	0.1	0.1	0.1	0.1	0.1
47°	0.1	0.1	0.1	0.1	0.1	0.1
47.5°	0.1	0.1	0.1	0.1	0.1	0.1
48°	0.1	0.1	0.1	0.1	0.1	0.1
48.5°	0.1	0.1	0.1	0.1	0.1	0.1
49°	0.1	0.1	0.1	0.1	0.1	0.1
49.5°	0.1	0.1	0.1	0.1	0.1	0.1
50°	0.1	0.1	0.1	0.1	0.1	0.1
50.5°	0.1	0.1	0.1	0.1	0.1	0.1
51°	0.1	0.1	0.1	0.1	0.1	0.1
51.5°	0.1	0.1	0.1	0.1	0.1	0.1
52°	0.1	0.1	0.1	0.1	0.1	0.1
52.5°	0.1	0.1	0.1	0.1	0.1	0.1
53°	0.1	0.1	0.1	0.1	0.1	0.1
53.5°	0.1	0.1	0.1	0.1	0.1	0.1
54°	0.1	0.1	0.1	0.1	0.1	0.1
54.5°	0.1	0.1	0.1	0.1	0.1	0.1
55°	0.1	0.1	0.1	0.1	0.1	0.1
55.5°	0.1	0.1	0.1	0.1	0.1	0.1
56°	0.1	0.1	0.1	0.1	0.1	0.1
56.5°	0.1	0.1	0.1	0.1	0.1	0.1
57°	0.1	0.1	0.1	0.1	0.1	0.1
57.5°	0.1	0.1	0.1	0.1	0.1	0.1
58°	0.1	0.1	0.1	0.1	0.1	0.1
58.5°	0.1	0.1	0.1	0.1	0.1	0.1
59°	0.1	0.1	0.1	0.1	0.1	0.1
59.5°	0.1	0.1	0.1	0.1	0.1	0.1
60°	0.1	0.1	0.1	0.1	0.1	0.1
60.5°	0.1	0.1	0.1	0.1	0.1	0.1
61°	0.1	0.1	0.1	0.1	0.1	0.1
61.5°	0.1	0.1	0.1	0.1	0.1	0.1
62°	0.1	0.1	0.1	0.1	0.1	0.1
62.5°	0.1	0.1	0.1	0.1	0.1	0.1
63°	0.1	0.1	0.1	0.1	0.1	0.1
63.5°	0.2	0.1	0.1	0.1	0.1	0.1
64°	0.2	0.1	0.1	0.1	0.1	0.1
64.5°	0.2	0.1	0.1	0.1	0.1	0.1
65°	0.2	0.1	0.1	0.1	0.1	0.1
65.5°	0.2	0.2	0.1	0.1	0.1	0.1
66°	0.2	0.2	0.1	0.1	0.1	0.1
66.5°	0.2	0.2	0.1	0.1	0.1	0.1
67°	0.2	0.2	0.1	0.1	0.1	0.1

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.3	0.2	0.2	0.1	0.1	0.1
68°	0.3	0.2	0.2	0.2	0.2	0.2
68.5°	0.4	0.3	0.2	0.2	0.2	0.2
69°	0.5	0.4	0.3	0.3	0.3	0.3
69.5°	0.7	0.5	0.4	0.4	0.4	0.4
70°	0.8	0.6	0.5	0.5	0.5	0.5
70.5°	1.0	0.7	0.6	0.6	0.6	0.6
71°	1.1	0.9	0.8	0.8	0.8	0.7
71.5°	1.3	1.1	1.0	0.9	0.9	0.9
72°	1.5	1.3	1.2	1.1	1.1	1.0
72.5°	1.7	1.5	1.4	1.3	1.3	1.2
73°	2.0	1.7	1.6	1.5	1.4	1.4
73.5°	2.2	1.9	1.8	1.8	1.7	1.6
74°	2.4	2.1	2.1	2.0	1.9	1.9
74.5°	2.7	2.4	2.3	2.2	2.1	2.1
75°	3.0	2.7	2.6	2.5	2.4	2.4
75.5°	3.3	2.9	2.9	2.8	2.6	2.6
76°	3.5	3.2	3.1	3.0	2.9	2.9
76.5°	3.8	3.5	3.4	3.3	3.2	3.2
77°	4.1	3.8	3.7	3.6	3.5	3.4
77.5°	4.5	4.1	4.0	3.9	3.7	3.7
78°	4.8	4.4	4.4	4.2	4.0	4.0
78.5°	5.1	4.7	4.7	4.5	4.4	4.3
79°	5.4	5.1	5.0	4.8	4.7	4.6
79.5°	5.8	5.4	5.3	5.2	5.0	4.9
80°	6.1	5.7	5.7	5.5	5.3	5.3
80.5°	6.4	6.1	6.0	5.8	5.6	5.6
81°	6.8	6.4	6.3	6.2	6.0	5.9
81.5°	7.1	6.8	6.7	6.5	6.3	6.2
82°	7.5	7.1	7.0	6.8	6.6	6.6
82.5°	7.8	7.5	7.4	7.2	7.0	6.9
83°	8.2	7.9	7.8	7.5	7.3	7.2
83.5°	8.5	8.2	8.1	7.9	7.6	7.6
84°	8.9	8.6	8.5	8.2	8.0	7.9
84.5°	9.2	8.9	8.8	8.6	8.3	8.3
85°	9.5	9.2	9.2	8.9	8.7	8.6
85.5°	9.9	9.6	9.5	9.3	9.0	8.9
86°	10.2	9.9	9.8	9.6	9.3	9.3
86.5°	10.5	10.2	10.2	9.9	9.6	9.6
87°	10.8	10.6	10.5	10.2	10.0	9.9
87.5°	11.1	10.9	10.8	10.5	10.2	10.2
88°	11.4	11.2	11.1	10.8	10.6	10.5
88.5°	11.7	11.5	11.4	11.1	10.8	10.8
89°	12.0	11.8	11.7	11.4	11.1	11.1
89.5°	12.3	12.1	12.0	11.7	11.4	11.3

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	12.5	12.3	12.3	12.0	11.7	11.6
90.5°	12.6	12.5	12.5	12.2	11.9	11.8
91°	12.8	12.7	12.7	12.4	12.1	12.0
91.5°	12.9	12.9	12.9	12.6	12.3	12.2
92°	13.1	13.0	13.0	12.8	12.4	12.3
92.5°	13.2	13.1	13.1	12.9	12.6	12.5
93°	13.3	13.2	13.3	13.0	12.7	12.6
93.5°	13.4	13.4	13.4	13.1	12.8	12.7
94°	13.5	13.5	13.5	13.2	12.9	12.8
94.5°	13.6	13.6	13.6	13.4	13.0	12.9
95°	13.7	13.7	13.7	13.4	13.1	13.0
95.5°	13.8	13.7	13.8	13.5	13.2	13.1
96°	13.9	13.8	13.9	13.6	13.3	13.2
96.5°	13.9	13.9	13.9	13.7	13.4	13.3
97°	14.0	14.0	14.0	13.8	13.5	13.3
97.5°	14.1	14.0	14.1	13.8	13.5	13.4
98°	14.1	14.1	14.1	13.9	13.6	13.5
98.5°	14.2	14.2	14.2	14.0	13.6	13.5
99°	14.2	14.2	14.2	14.0	13.7	13.6
99.5°	14.3	14.2	14.3	14.1	13.7	13.6
100°	14.3	14.3	14.3	14.1	13.8	13.6
100.5°	14.3	14.3	14.4	14.1	13.8	13.7
101°	14.4	14.3	14.4	14.1	13.9	13.7
101.5°	14.4	14.4	14.4	14.2	13.9	13.8
102°	14.4	14.4	14.4	14.2	13.9	13.8
102.5°	14.4	14.4	14.4	14.2	13.9	13.8
103°	14.4	14.4	14.4	14.2	13.9	13.8
103.5°	14.4	14.4	14.4	14.2	13.9	13.8
104°	14.4	14.4	14.4	14.2	13.9	13.8
104.5°	14.4	14.4	14.4	14.2	13.9	13.8
105°	14.4	14.4	14.4	14.2	13.9	13.8
105.5°	14.4	14.4	14.4	14.2	13.9	13.8
106°	14.4	14.3	14.4	14.2	13.9	13.8
106.5°	14.4	14.3	14.4	14.2	13.9	13.8
107°	14.3	14.3	14.3	14.2	13.9	13.8
107.5°	14.3	14.3	14.3	14.1	13.9	13.7
108°	14.3	14.3	14.3	14.1	13.9	13.7
108.5°	14.3	14.2	14.2	14.1	13.8	13.7
109°	14.2	14.2	14.2	14.0	13.8	13.7
109.5°	14.2	14.2	14.2	14.0	13.8	13.6
110°	14.2	14.1	14.1	14.0	13.7	13.6
110.5°	14.1	14.1	14.1	13.9	13.7	13.6
111°	14.1	14.0	14.0	13.9	13.7	13.5
111.5°	14.1	14.0	14.0	13.8	13.6	13.5
112°	14.0	13.9	13.9	13.8	13.6	13.5

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	14.0	13.9	13.9	13.7	13.5	13.4
113°	13.9	13.8	13.8	13.7	13.5	13.4
113.5°	13.9	13.8	13.8	13.6	13.4	13.3
114°	13.8	13.7	13.7	13.6	13.4	13.3
114.5°	13.8	13.7	13.7	13.5	13.3	13.2
115°	13.7	13.6	13.6	13.5	13.3	13.2
115.5°	13.7	13.6	13.6	13.4	13.2	13.1
116°	13.6	13.5	13.5	13.4	13.2	13.1
116.5°	13.6	13.5	13.4	13.3	13.1	13.0
117°	13.5	13.4	13.4	13.3	13.1	13.0
117.5°	13.5	13.4	13.3	13.2	13.0	12.9
118°	13.4	13.3	13.3	13.1	13.0	12.9
118.5°	13.4	13.2	13.2	13.1	12.9	12.8
119°	13.3	13.2	13.1	13.0	12.9	12.8
119.5°	13.2	13.1	13.1	12.9	12.8	12.7
120°	13.2	13.0	13.0	12.9	12.7	12.6
120.5°	13.1	13.0	12.9	12.8	12.7	12.6
121°	13.0	12.9	12.9	12.8	12.6	12.5
121.5°	13.0	12.9	12.8	12.7	12.5	12.5
122°	12.9	12.8	12.7	12.6	12.5	12.4
122.5°	12.9	12.7	12.7	12.5	12.4	12.4
123°	12.8	12.7	12.6	12.5	12.4	12.3
123.5°	12.7	12.6	12.5	12.4	12.3	12.2
124°	12.7	12.5	12.5	12.3	12.2	12.2
124.5°	12.6	12.5	12.4	12.3	12.2	12.1
125°	12.5	12.4	12.3	12.2	12.1	12.1
125.5°	12.5	12.3	12.3	12.1	12.0	12.0
126°	12.4	12.2	12.2	12.1	12.0	11.9
126.5°	12.4	12.2	12.1	12.0	11.9	11.9
127°	12.3	12.1	12.1	11.9	11.8	11.8
127.5°	12.2	12.0	12.0	11.9	11.8	11.7
128°	12.2	12.0	11.9	11.8	11.7	11.7
128.5°	12.1	11.9	11.8	11.7	11.6	11.6
129°	12.0	11.8	11.8	11.7	11.6	11.5
129.5°	12.0	11.8	11.7	11.6	11.5	11.5
130°	11.9	11.7	11.6	11.5	11.4	11.4
130.5°	11.8	11.6	11.6	11.4	11.4	11.4
131°	11.7	11.6	11.5	11.4	11.3	11.3
131.5°	11.7	11.5	11.4	11.3	11.2	11.2
132°	11.6	11.4	11.3	11.2	11.1	11.2
132.5°	11.5	11.3	11.3	11.2	11.1	11.1
133°	11.5	11.3	11.2	11.1	11.0	11.0
133.5°	11.4	11.2	11.1	11.0	10.9	11.0
134°	11.3	11.1	11.1	11.0	10.9	10.9
134.5°	11.3	11.1	11.0	10.9	10.8	10.8

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	11.2	11.0	10.9	10.8	10.7	10.8
135.5°	11.1	10.9	10.8	10.7	10.7	10.7
136°	11.0	10.9	10.8	10.7	10.6	10.6
136.5°	11.0	10.8	10.7	10.6	10.5	10.5
137°	10.9	10.7	10.6	10.5	10.4	10.5
137.5°	10.8	10.6	10.6	10.5	10.4	10.4
138°	10.7	10.6	10.5	10.4	10.3	10.3
138.5°	10.6	10.5	10.4	10.3	10.2	10.3
139°	10.6	10.4	10.3	10.3	10.2	10.2
139.5°	10.5	10.3	10.3	10.2	10.1	10.1
140°	10.4	10.3	10.2	10.1	10.0	10.0
140.5°	10.4	10.2	10.1	10.0	9.9	10.0
141°	10.3	10.1	10.0	10.0	9.9	9.9
141.5°	10.2	10.0	10.0	9.9	9.8	9.8
142°	10.1	10.0	9.9	9.8	9.7	9.8
142.5°	10.1	9.9	9.8	9.7	9.6	9.7
143°	10.0	9.8	9.8	9.7	9.6	9.6
143.5°	9.9	9.7	9.7	9.6	9.5	9.6
144°	9.9	9.7	9.6	9.5	9.4	9.5
144.5°	9.8	9.6	9.5	9.5	9.4	9.4
145°	9.7	9.5	9.5	9.4	9.3	9.3
145.5°	9.7	9.5	9.4	9.3	9.2	9.3
146°	9.6	9.4	9.3	9.2	9.1	9.2
146.5°	9.5	9.3	9.3	9.2	9.1	9.1
147°	9.5	9.3	9.2	9.1	9.0	9.1
147.5°	9.4	9.2	9.1	9.0	8.9	9.0
148°	9.3	9.1	9.0	9.0	8.9	8.9
148.5°	9.3	9.0	9.0	8.9	8.8	8.9
149°	9.2	9.0	8.9	8.8	8.7	8.8
149.5°	9.1	8.9	8.8	8.8	8.7	8.7
150°	9.1	8.8	8.8	8.7	8.6	8.7
150.5°	9.0	8.8	8.7	8.6	8.5	8.6
151°	9.0	8.7	8.6	8.6	8.5	8.5
151.5°	8.9	8.7	8.6	8.5	8.4	8.5
152°	8.8	8.6	8.5	8.4	8.3	8.4
152.5°	8.8	8.5	8.4	8.4	8.3	8.3
153°	8.7	8.5	8.4	8.3	8.2	8.3
153.5°	8.6	8.4	8.3	8.2	8.2	8.2
154°	8.6	8.3	8.2	8.2	8.1	8.1
154.5°	8.5	8.3	8.2	8.1	8.0	8.1
155°	8.5	8.2	8.1	8.0	8.0	8.0
155.5°	8.4	8.2	8.0	8.0	7.9	8.0
156°	8.4	8.1	8.0	7.9	7.9	7.9
156.5°	8.3	8.1	7.9	7.9	7.9	7.9
157°	8.3	8.0	7.8	7.8	7.8	7.8

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	8.2	8.0	7.8	7.7	7.8	7.8
158°	8.2	7.9	7.7	7.7	7.7	7.8
158.5°	8.1	7.8	7.6	7.6	7.7	7.7
159°	8.0	7.7	7.5	7.5	7.6	7.6
159.5°	8.0	7.7	7.5	7.4	7.6	7.6
160°	7.9	7.6	7.4	7.4	7.5	7.5
160.5°	7.8	7.5	7.3	7.3	7.4	7.4
161°	7.7	7.4	7.2	7.2	7.3	7.3
161.5°	7.6	7.3	7.1	7.1	7.2	7.2
162°	7.5	7.1	7.0	7.0	7.0	7.1
162.5°	7.4	7.0	6.9	6.8	6.9	7.0
163°	7.3	6.9	6.8	6.7	6.8	6.9
163.5°	7.2	6.8	6.6	6.6	6.7	6.8
164°	7.1	6.7	6.5	6.5	6.5	6.7
164.5°	7.0	6.6	6.4	6.4	6.4	6.6
165°	6.9	6.5	6.3	6.3	6.3	6.5
165.5°	6.8	6.4	6.2	6.2	6.2	6.4
166°	6.7	6.2	6.1	6.1	6.1	6.3
166.5°	6.6	6.1	6.0	6.0	6.0	6.2
167°	6.5	6.0	5.8	5.8	5.9	6.0
167.5°	6.4	5.8	5.7	5.7	5.7	5.9
168°	6.3	5.7	5.6	5.6	5.6	5.8
168.5°	6.1	5.5	5.4	5.4	5.5	5.7
169°	6.0	5.4	5.3	5.3	5.3	5.5
169.5°	5.9	5.3	5.2	5.2	5.2	5.4
170°	5.8	5.1	5.0	5.0	5.1	5.2
170.5°	5.6	5.0	4.9	4.9	4.9	5.1
171°	5.5	4.8	4.8	4.8	4.8	5.0
171.5°	5.3	4.7	4.6	4.6	4.7	4.8
172°	5.2	4.5	4.5	4.5	4.5	4.7
172.5°	5.0	4.4	4.3	4.3	4.4	4.5
173°	4.9	4.2	4.2	4.2	4.2	4.4
173.5°	4.7	4.1	4.0	4.0	4.1	4.3
174°	4.5	3.9	3.8	3.8	3.9	4.1
174.5°	4.3	3.7	3.6	3.6	3.7	3.9
175°	4.1	3.6	3.4	3.4	3.5	3.7
175.5°	3.9	3.4	3.3	3.2	3.3	3.5
176°	3.7	3.2	3.1	3.0	3.1	3.3
176.5°	3.5	3.1	2.9	2.8	2.9	3.1
177°	3.3	2.9	2.7	2.6	2.7	2.9
177.5°	3.0	2.7	2.4	2.4	2.5	2.7
178°	2.7	2.4	2.1	2.1	2.2	2.4
178.5°	2.4	2.1	1.9	1.8	1.9	2.1
179°	2.5	1.9	1.8	1.7	1.8	1.9
179.5°	2.9	2.5	2.5	2.4	2.4	2.5

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	3.2	3.2	3.2	3.2	3.2	3.2

TEST NUMBER: P1046673

CATALOG NUMBER: FMNL1112FS5-(black trim)-920

CIE UGR TABLE:

Reflectances:		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
	6H	4.2	4.8	5.4	5.9	7.7	5.0	5.5	6.2	6.7	8.4
	8H	7.5	8.1	8.8	9.3	11.0	8.2	8.8	9.4	10.0	11.7
	12H	10.8	11.3	12.0	12.5	14.3	11.4	11.9	12.6	13.1	14.8
4H	2H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4H	0.0	0.0	0.0	0.2	1.9	0.0	0.1	0.8	1.3	3.0
	6H	6.2	6.6	7.4	7.9	9.6	6.9	7.4	8.1	8.6	10.3
	8H	9.5	10.0	10.7	11.2	12.9	10.1	10.6	11.3	11.8	13.5
	12H	12.8	13.2	14.0	14.4	16.2	13.3	13.7	14.6	15.0	16.7
8H	4H	1.4	1.8	2.6	3.0	4.7	2.2	2.6	3.4	3.8	5.6
	6H	8.1	8.5	9.3	9.7	11.5	8.7	9.1	9.9	10.3	12.1
	8H	11.4	11.7	12.6	12.9	14.7	11.9	12.3	13.1	13.5	15.2
	12H	14.7	15.0	15.9	16.2	18.0	15.2	15.5	16.4	16.7	18.5
12H	4H	2.9	3.3	4.2	4.5	6.3	3.6	4.0	4.8	5.2	7.0
	6H	9.0	9.4	10.2	10.6	12.4	9.6	9.9	10.8	11.2	12.9
	8H	12.3	12.6	13.5	13.8	15.5	12.8	13.1	14.0	14.3	16.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Halo Home

Report Number: SP1-2506-468-12

Test Date: 07/08/2025

Luminaire Tested: FMNL1112FS5-NIGHT LIGHT

Data in this report applies to families of products including FMNL1112FS5-NIGHT LIGHT

The results of this test have not been influenced by sources from within Eaton or from external interests.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

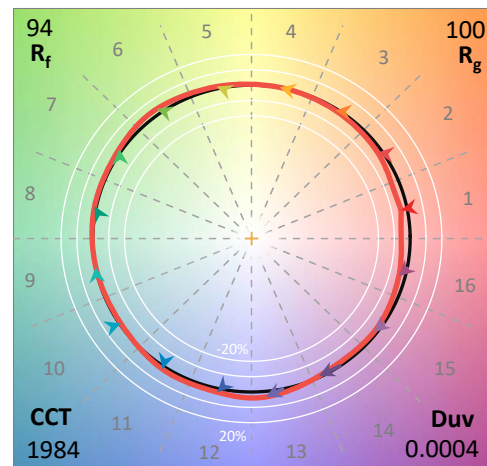
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-468-12
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/10/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Halo Home
 Catalog Number: **FMNL1112FS5-NIGHT LIGHT**
 Description: HALO FLUSH MOUNT NIGHT LIGHT 11 INCH

Spectral Parameters

CCT (K): 1984
 CIE u' : 0.3064
 CIE v' : 0.5390
 Duv: 0.0004
 CIE x: 0.5287
 CIE y: 0.4134
 CIE z: 0.0579
 Peak Wavelength (nm): 636
 Dominant Wavelength (nm): 589
 Purity: 82.78746
 R_f: 93.9
 R_g: 100.2

CRI (Ra): 95.1
 R1: 96.6
 R2: 99.2
 R3: 99.4
 R4: 97.9
 R5: 97.4
 R6: 96.0
 R7: 91.2
 R8: 82.8
 R9: 65.7
 R10: 97.0
 R11: 96.5
 R12: 94.8
 R13: 97.8
 R14: 98.0
 R15: 90.6



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.0

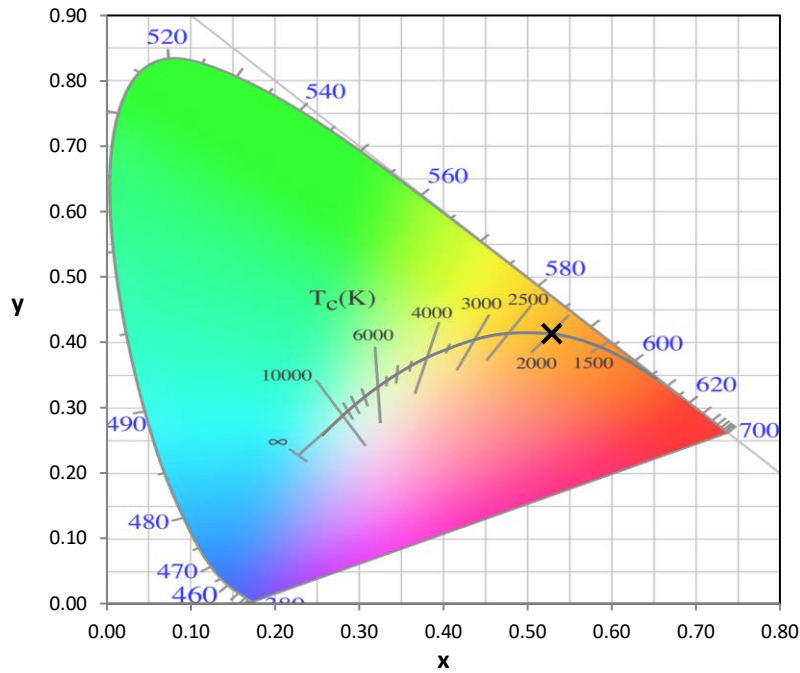
REPORT NUMBER: SP1-2506-468-12

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

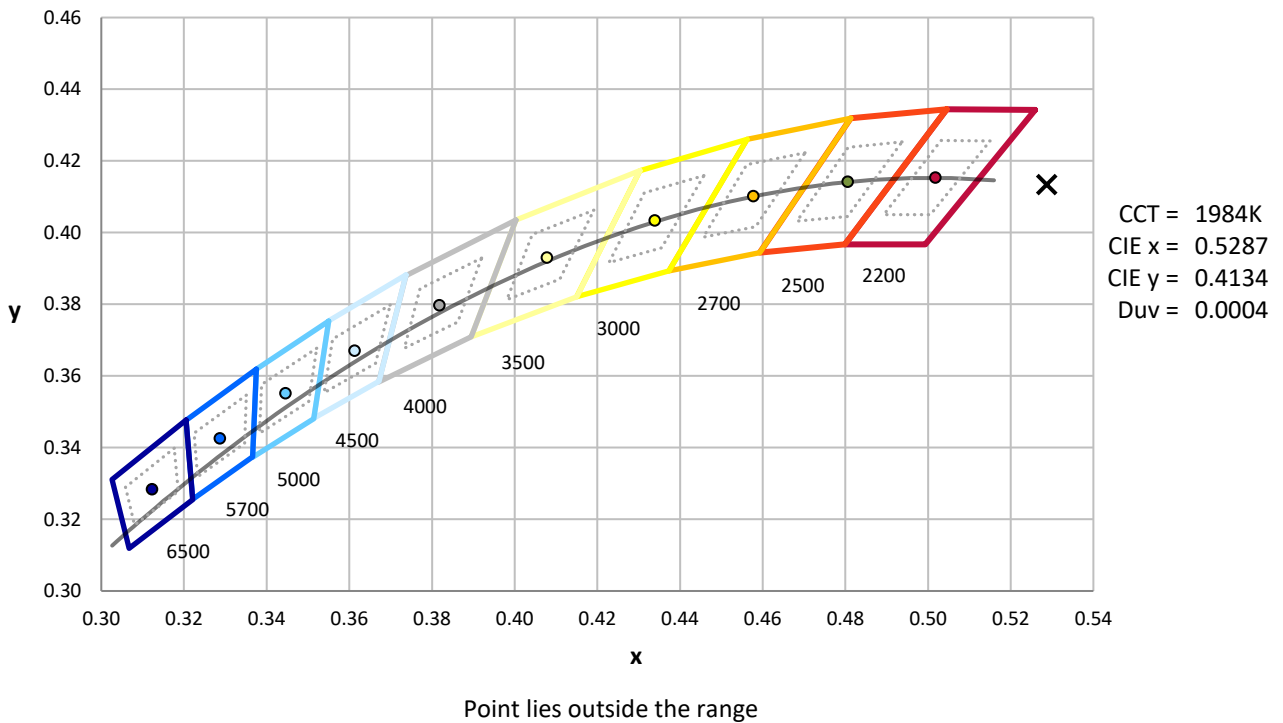
Sample Number	Condition	Description
P2506-468-LM.2	Good	HALO FLUSH MOUNT NIGHT LIGHT 11 INCH

REPORT NUMBER: SP1-2506-468-12

CIE 1931 Chromaticity Diagram

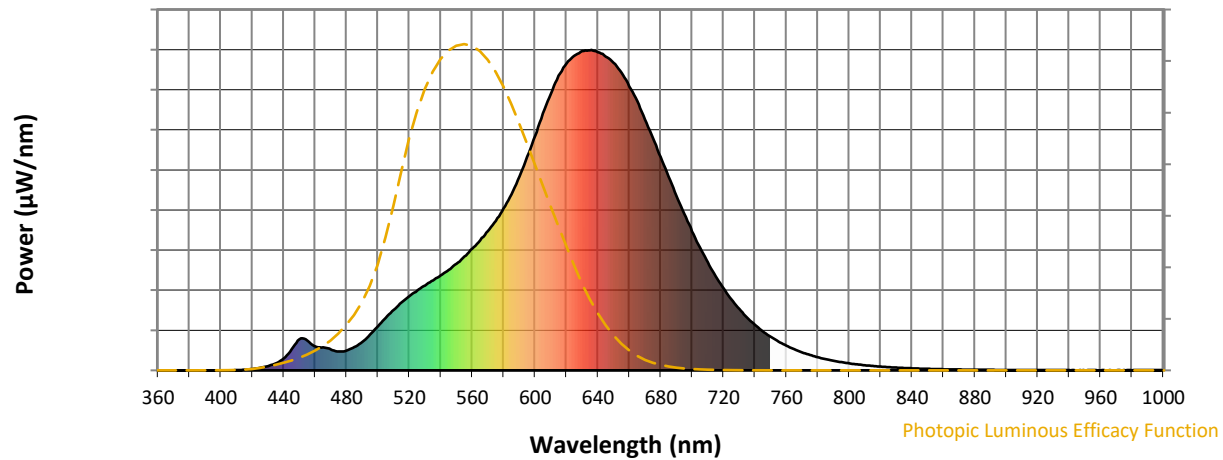


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2506-468-12

Photopic Flux vs. Wavelength

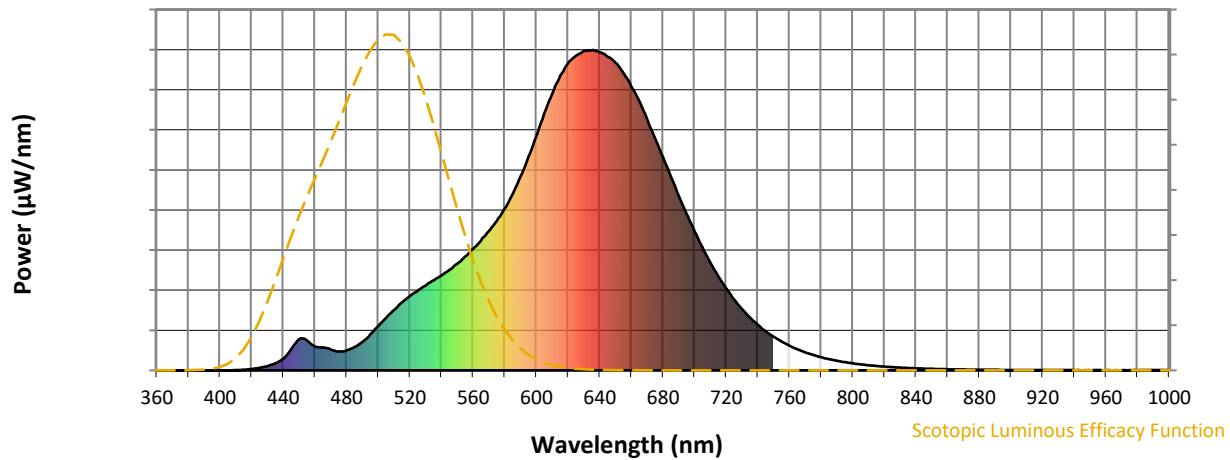


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	89	NR	620	957	NR	750	105	NR	880	2	NR
365	0	NR	495	112	NR	625	981	NR	755	90	NR	885	2	NR
370	0	NR	500	138	NR	630	996	NR	760	77	NR	890	2	NR
375	0	NR	505	164	NR	635	998	NR	765	66	NR	895	1	NR
380	0	NR	510	189	NR	640	993	NR	770	56	NR	900	1	NR
385	0	NR	515	211	NR	645	978	NR	775	48	NR	905	1	NR
390	0	NR	520	232	NR	650	959	NR	780	41	NR	910	1	NR
395	0	NR	525	249	NR	655	928	NR	785	35	NR	915	1	NR
400	0	NR	530	265	NR	660	886	NR	790	30	NR	920	1	NR
405	0	NR	535	280	NR	665	841	NR	795	26	NR	925	1	NR
410	1	NR	540	296	NR	670	783	NR	800	22	NR	930	1	NR
415	2	NR	545	313	NR	675	725	NR	805	19	NR	935	1	NR
420	4	NR	550	333	NR	680	667	NR	810	16	NR	940	1	NR
425	8	NR	555	355	NR	685	604	NR	815	14	NR	945	0	NR
430	13	NR	560	379	NR	690	546	NR	820	12	NR	950	1	NR
435	22	NR	565	406	NR	695	489	NR	825	10	NR	955	1	NR
440	37	NR	570	434	NR	700	434	NR	830	9	NR	960	0	NR
445	65	NR	575	467	NR	705	384	NR	835	8	NR	965	1	NR
450	97	NR	580	505	NR	710	336	NR	840	6	NR	970	0	NR
455	93	NR	585	549	NR	715	294	NR	845	6	NR	975	1	NR
460	75	NR	590	605	NR	720	256	NR	850	5	NR	980	0	NR
465	71	NR	595	667	NR	725	222	NR	855	4	NR	985	1	NR
470	65	NR	600	732	NR	730	191	NR	860	3	NR	990	1	NR
475	59	NR	605	802	NR	735	165	NR	865	3	NR	995	1	NR
480	62	NR	610	862	NR	740	142	NR	870	3	NR	1000	0	NR
485	73	NR	615	919	NR	745	122	NR	875	2	NR			

REPORT NUMBER: SP1-2506-468-12

Scotopic Flux vs. Wavelength



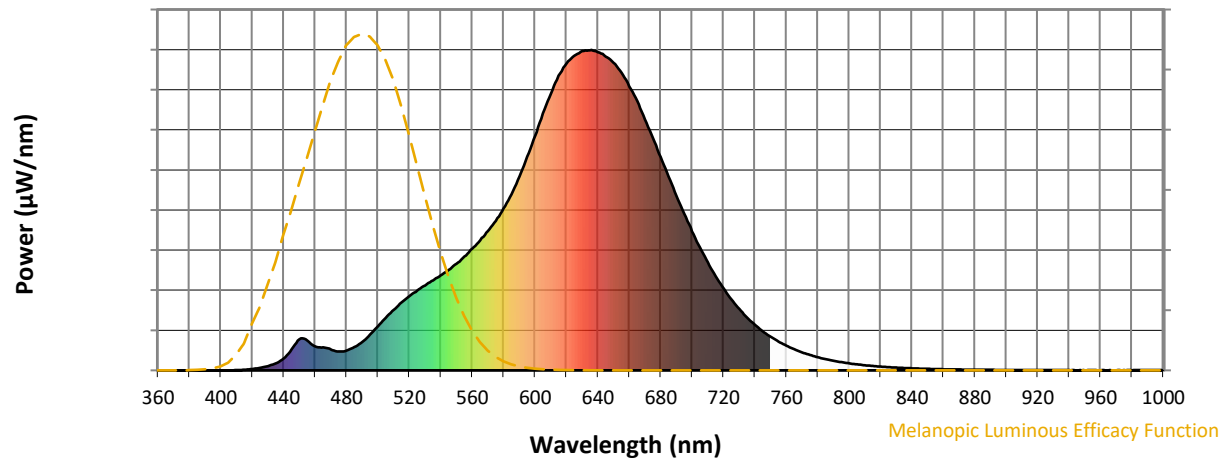
Scotopic Lumens: NR

S/P: 0.91

λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)
360	0	NR	490	89	NR	620	957	NR	750	105	NR	880	2	NR
365	0	NR	495	112	NR	625	981	NR	755	90	NR	885	2	NR
370	0	NR	500	138	NR	630	996	NR	760	77	NR	890	2	NR
375	0	NR	505	164	NR	635	998	NR	765	66	NR	895	1	NR
380	0	NR	510	189	NR	640	993	NR	770	56	NR	900	1	NR
385	0	NR	515	211	NR	645	978	NR	775	48	NR	905	1	NR
390	0	NR	520	232	NR	650	959	NR	780	41	NR	910	1	NR
395	0	NR	525	249	NR	655	928	NR	785	35	NR	915	1	NR
400	0	NR	530	265	NR	660	886	NR	790	30	NR	920	1	NR
405	0	NR	535	280	NR	665	841	NR	795	26	NR	925	1	NR
410	1	NR	540	296	NR	670	783	NR	800	22	NR	930	1	NR
415	2	NR	545	313	NR	675	725	NR	805	19	NR	935	1	NR
420	4	NR	550	333	NR	680	667	NR	810	16	NR	940	1	NR
425	8	NR	555	355	NR	685	604	NR	815	14	NR	945	0	NR
430	13	NR	560	379	NR	690	546	NR	820	12	NR	950	1	NR
435	22	NR	565	406	NR	695	489	NR	825	10	NR	955	1	NR
440	37	NR	570	434	NR	700	434	NR	830	9	NR	960	0	NR
445	65	NR	575	467	NR	705	384	NR	835	8	NR	965	1	NR
450	97	NR	580	505	NR	710	336	NR	840	6	NR	970	0	NR
455	93	NR	585	549	NR	715	294	NR	845	6	NR	975	1	NR
460	75	NR	590	605	NR	720	256	NR	850	5	NR	980	0	NR
465	71	NR	595	667	NR	725	222	NR	855	4	NR	985	1	NR
470	65	NR	600	732	NR	730	191	NR	860	3	NR	990	1	NR
475	59	NR	605	802	NR	735	165	NR	865	3	NR	995	1	NR
480	62	NR	610	862	NR	740	142	NR	870	3	NR	1000	0	NR
485	73	NR	615	919	NR	745	122	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.55

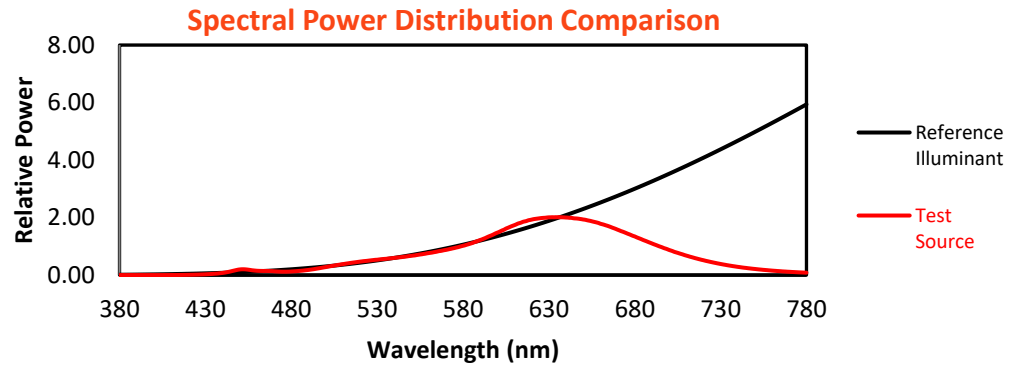
λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)
360	0	NR	490	89	NR	620	957	NR	750	105	NR	880	2	NR
365	0	NR	495	112	NR	625	981	NR	755	90	NR	885	2	NR
370	0	NR	500	138	NR	630	996	NR	760	77	NR	890	2	NR
375	0	NR	505	164	NR	635	998	NR	765	66	NR	895	1	NR
380	0	NR	510	189	NR	640	993	NR	770	56	NR	900	1	NR
385	0	NR	515	211	NR	645	978	NR	775	48	NR	905	1	NR
390	0	NR	520	232	NR	650	959	NR	780	41	NR	910	1	NR
395	0	NR	525	249	NR	655	928	NR	785	35	NR	915	1	NR
400	0	NR	530	265	NR	660	886	NR	790	30	NR	920	1	NR
405	0	NR	535	280	NR	665	841	NR	795	26	NR	925	1	NR
410	1	NR	540	296	NR	670	783	NR	800	22	NR	930	1	NR
415	2	NR	545	313	NR	675	725	NR	805	19	NR	935	1	NR
420	4	NR	550	333	NR	680	667	NR	810	16	NR	940	1	NR
425	8	NR	555	355	NR	685	604	NR	815	14	NR	945	0	NR
430	13	NR	560	379	NR	690	546	NR	820	12	NR	950	1	NR
435	22	NR	565	406	NR	695	489	NR	825	10	NR	955	1	NR
440	37	NR	570	434	NR	700	434	NR	830	9	NR	960	0	NR
445	65	NR	575	467	NR	705	384	NR	835	8	NR	965	1	NR
450	97	NR	580	505	NR	710	336	NR	840	6	NR	970	0	NR
455	93	NR	585	549	NR	715	294	NR	845	6	NR	975	1	NR
460	75	NR	590	605	NR	720	256	NR	850	5	NR	980	0	NR
465	71	NR	595	667	NR	725	222	NR	855	4	NR	985	1	NR
470	65	NR	600	732	NR	730	191	NR	860	3	NR	990	1	NR
475	59	NR	605	802	NR	735	165	NR	865	3	NR	995	1	NR
480	62	NR	610	862	NR	740	142	NR	870	3	NR	1000	0	NR
485	73	NR	615	919	NR	745	122	NR	875	2	NR			

REPORT NUMBER: SP1-2506-468-12

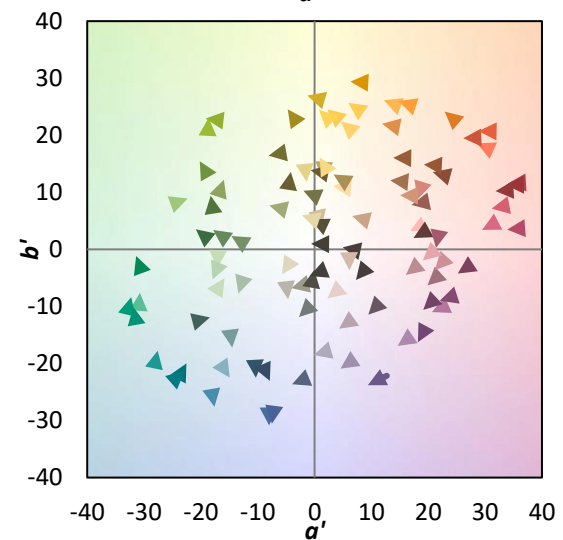
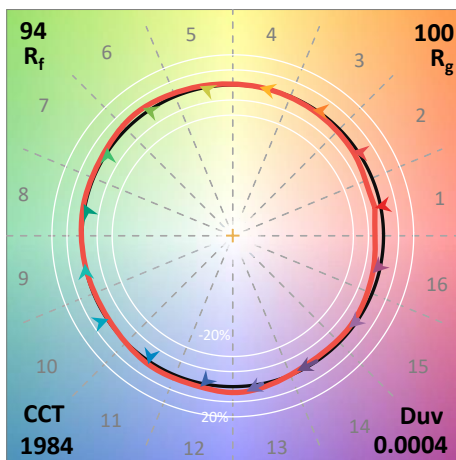
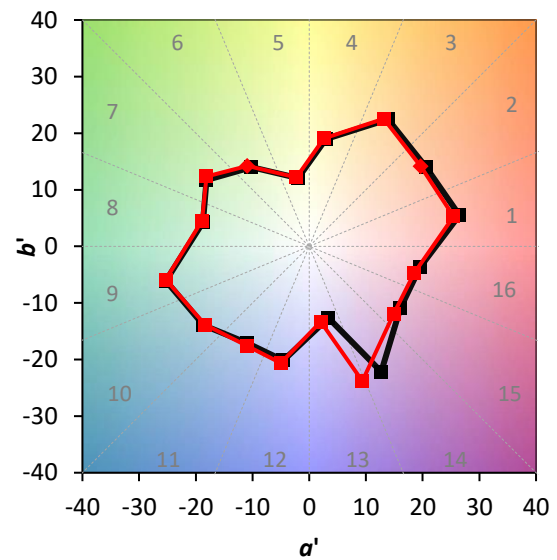
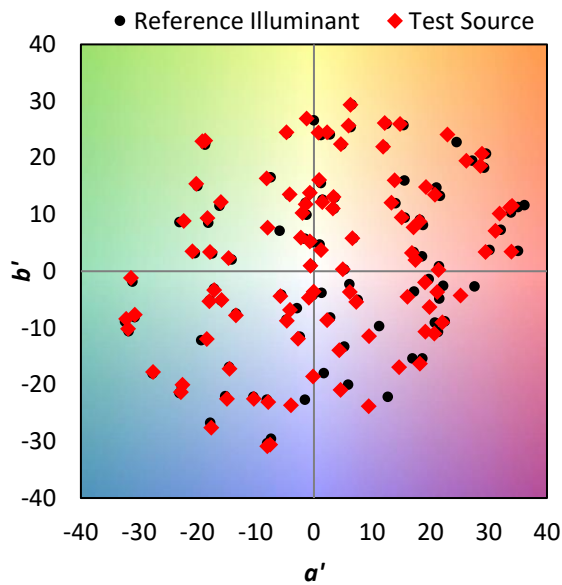
TM-30-18

Summary

$R_f = 93.9$
 $R_g = 100.2$
 $CIE R_a = 95.1$
 $R_g = 65.7$

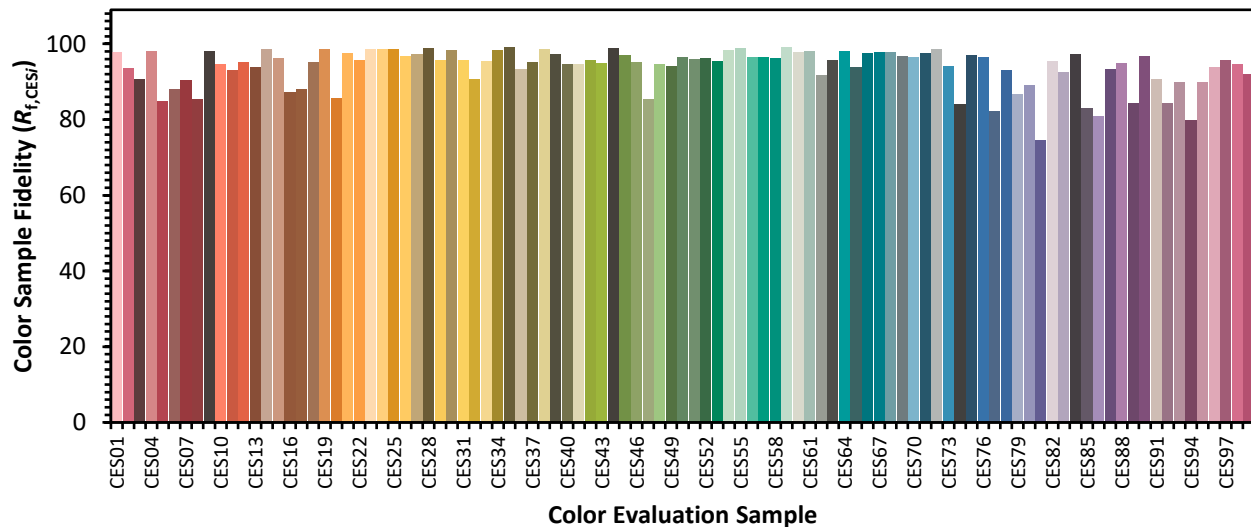


Color Vector Graphics

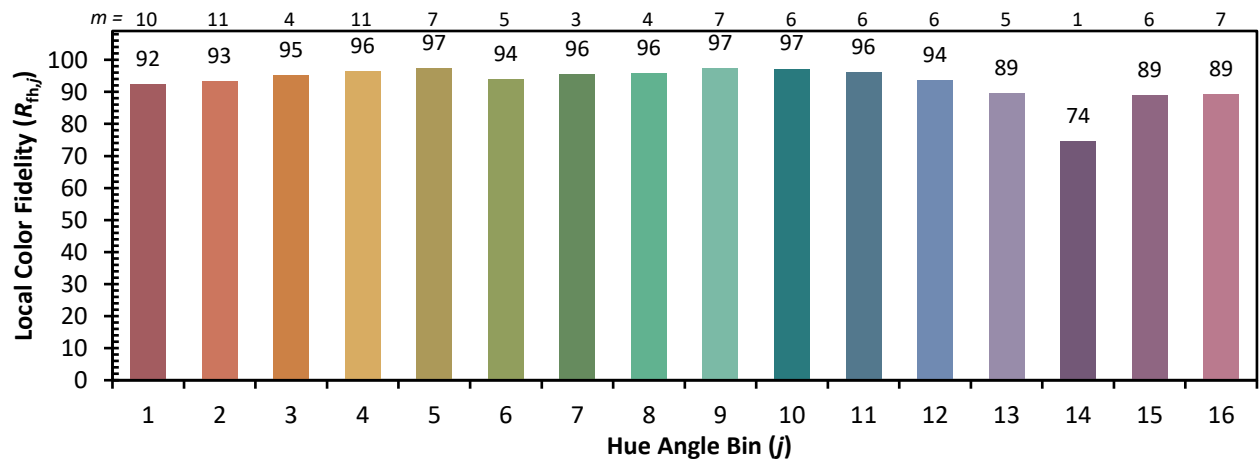
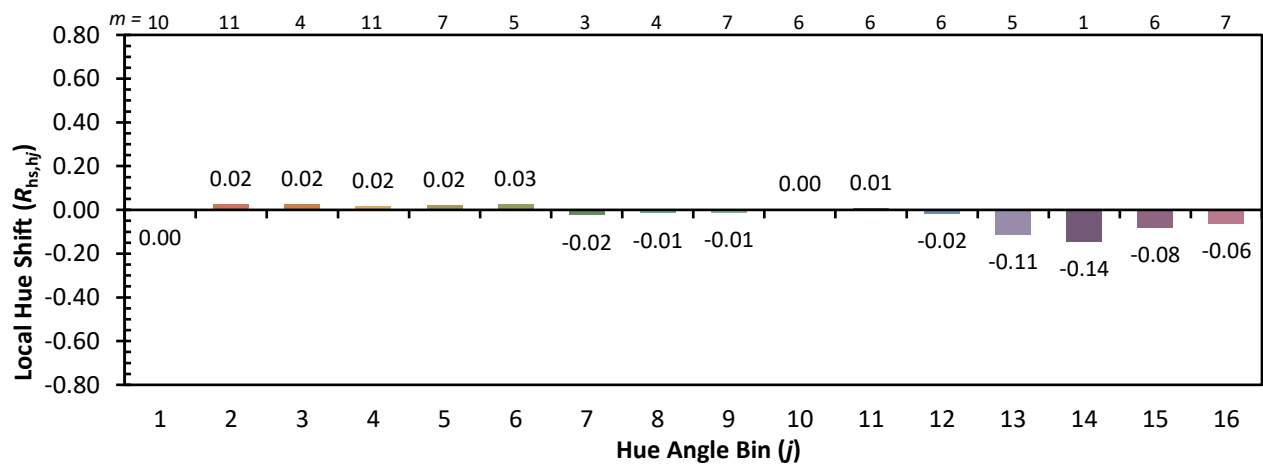
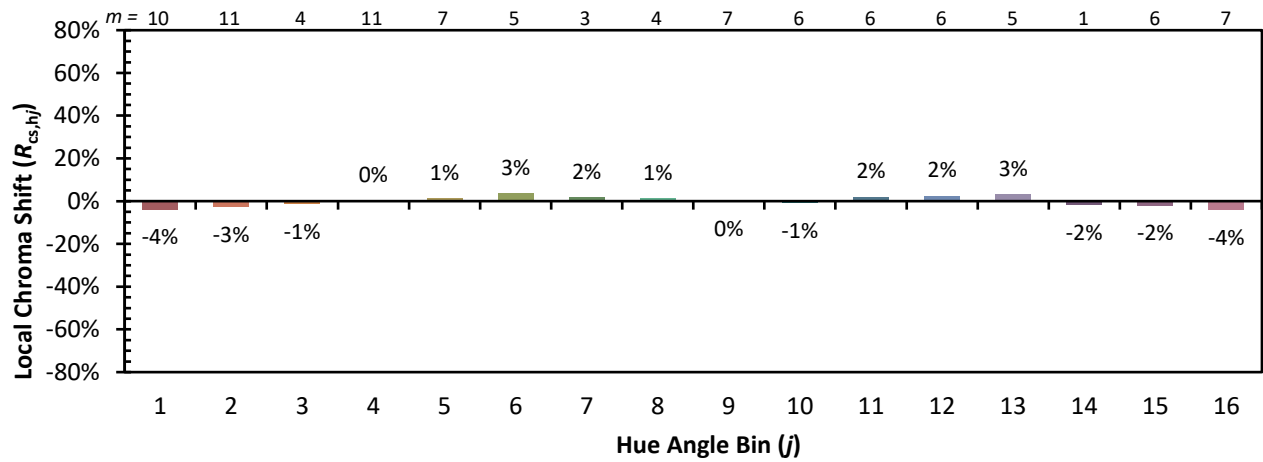


Individual Sample Fidelity Index ($R_{f,i}$)

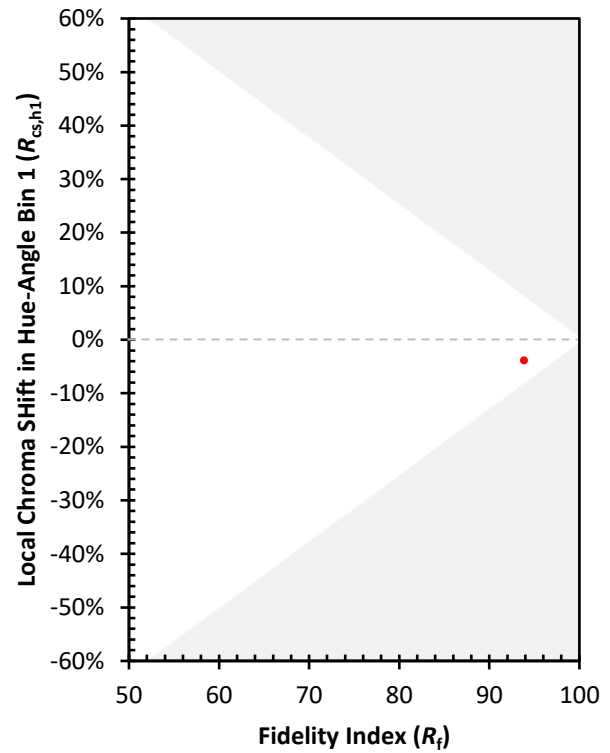
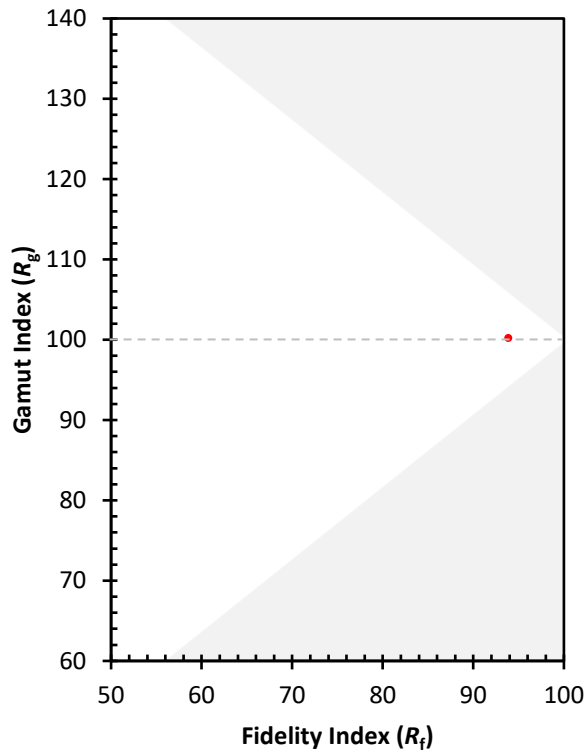
CES01 = 87	CES26 = 97	CES51 = 96	CES76 = 97
CES02 = 66	CES27 = 97	CES52 = 96	CES77 = 82
CES03 = 33	CES28 = 99	CES53 = 95	CES78 = 93
CES04 = 72	CES29 = 96	CES54 = 98	CES79 = 87
CES05 = 54	CES30 = 98	CES55 = 99	CES80 = 89
CES06 = 53	CES31 = 96	CES56 = 96	CES81 = 74
CES07 = 47	CES32 = 91	CES57 = 96	CES82 = 95
CES08 = 46	CES33 = 95	CES58 = 96	CES83 = 92
CES09 = 29	CES34 = 98	CES59 = 99	CES84 = 97
CES10 = 79	CES35 = 99	CES60 = 98	CES85 = 83
CES11 = 62	CES36 = 93	CES61 = 98	CES86 = 81
CES12 = 69	CES37 = 95	CES62 = 92	CES87 = 93
CES13 = 46	CES38 = 99	CES63 = 96	CES88 = 95
CES14 = 75	CES39 = 97	CES64 = 98	CES89 = 84
CES15 = 73	CES40 = 95	CES65 = 94	CES90 = 97
CES16 = 50	CES41 = 95	CES66 = 98	CES91 = 91
CES17 = 52	CES42 = 96	CES67 = 98	CES92 = 84
CES18 = 58	CES43 = 95	CES68 = 98	CES93 = 90
CES19 = 74	CES44 = 99	CES69 = 97	CES94 = 80
CES20 = 70	CES45 = 97	CES70 = 96	CES95 = 90
CES21 = 88	CES46 = 95	CES71 = 98	CES96 = 94
CES22 = 81	CES47 = 85	CES72 = 99	CES97 = 96
CES23 = 92	CES48 = 95	CES73 = 94	CES98 = 95
CES24 = 92	CES49 = 94	CES74 = 84	CES99 = 92
CES25 = 73	CES50 = 97	CES75 = 97	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)