

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: P1046676

Luminaire Tested: FMNL1515FS5-920

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: P1046676
Test Lab: Cooper lighting solutions
Issue Date: 07/08/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: FMNL1515FS5-920
Description: HALO 15 inch 90 CRI COLOR SELECTABLE flush mount White Trim FIXTURE with night light
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

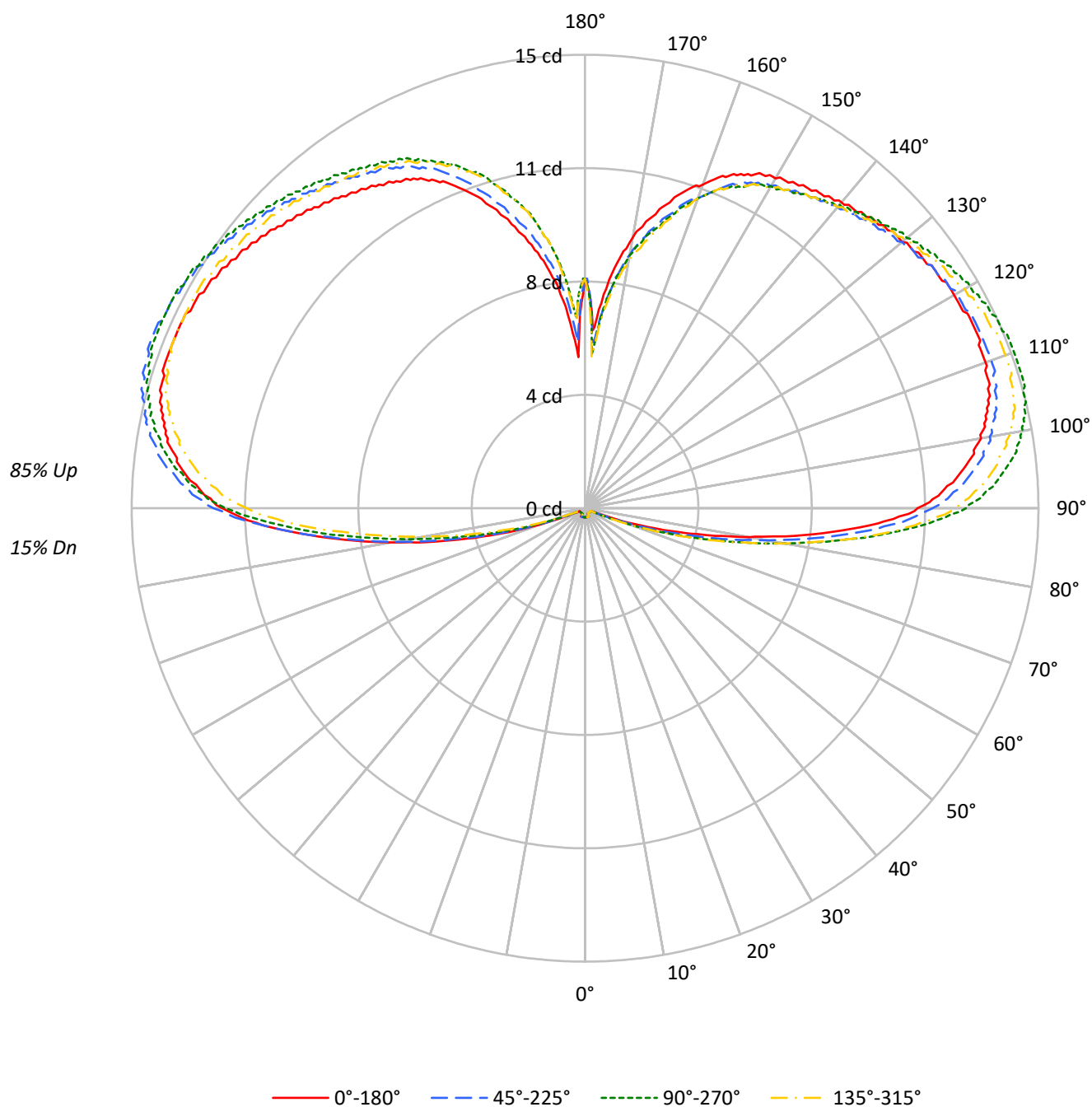
Lumens per Lamp: N/A
Luminaire Lumens: 100.2 lumens
Efficiency: N/A
Efficacy: 10.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.36
Luminous Opening: Circular (Dia: 1.2' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 9.3
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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
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	75	70	74	69	65	61	50	46	44	31	29	27	15	13	12
2	77	69	61	55	67	59	53	48	42	38	34	26	24	21	12	10	8
3	70	60	52	45	60	52	45	40	37	32	28	23	20	17	10	8	7
4	64	53	44	38	55	46	39	33	32	28	24	20	17	14	9	7	5
5	58	47	38	32	50	40	33	28	29	24	20	18	15	12	8	6	5
6	54	41	33	27	46	36	29	24	26	21	17	16	13	11	7	5	4
7	49	37	29	24	43	32	26	21	23	18	15	15	11	9	7	5	3
8	46	34	26	21	40	29	23	18	21	16	13	13	10	8	6	4	3
9	42	30	23	18	37	27	20	16	19	15	11	12	9	7	6	4	3
10	39	28	21	16	34	24	18	14	17	13	10	11	8	6	5	4	2

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3	3	3	3
5°	3	3	3	3
10°	3	3	3	3
15°	3	3	3	3
20°	3	3	3	3
25°	2	3	3	2
30°	2	2	2	2
35°	2	2	2	2
40°	2	2	2	2
45°	3	3	3	3
50°	3	3	3	3
55°	3	3	3	3
60°	4	4	4	4
65°	5	7	7	7
70°	28	45	45	33
75°	107	140	140	118
80°	301	367	356	323
85°	928	1081	1037	983

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 89.5°

Luminance: 13524 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.1	0.1
20°-30°	0.1	0.1
30°-40°	0.1	0.1
40°-50°	0.2	0.2
50°-60°	0.2	0.2
60°-70°	0.5	0.5
70°-80°	3.7	3.7
80°-90°	10.0	10.0
90°-100°	14.3	14.3
100°-110°	15.4	15.3
110°-120°	14.6	14.6
120°-130°	12.9	12.9
130°-140°	10.7	10.6
140°-150°	8.2	8.2
150°-160°	5.6	5.6
160°-170°	2.9	2.9
170°-180°	0.7	0.7
0°-30°	0.2	0.2
0°-40°	0.4	0.4
0°-60°	0.7	0.7
0°-90°	14.9	14.8
90°-120°	44.3	44.2
90°-150°	76.1	75.9
90°-180°	85.0	84.8
0°-180°	100.2	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°	3	4	4	3	3	3
85°	8	10	10	9	8	6
90°	11	13	12	12	11	6
95°	12	14	13	13	12	10
105°	14	15	14	15	14	15
115°	14	15	15	15	14	14
125°	14	14	14	15	14	13
135°	14	14	14	14	14	10
145°	13	13	13	14	13	8
155°	12	12	12	13	12	6
165°	10	10	10	11	10	3
175°	7	6	6	8	7	1
180°	8	8	8	8	8	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
0.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
1°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
1.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
3°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
3.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
4°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
4.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
5.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
6°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
6.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
7°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
7.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
8°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
8.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
9°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
9.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
10°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
10.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
11°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
11.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
12°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
12.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
13°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
13.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
14°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
14.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
15°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
15.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
16°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
16.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
17°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
17.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
18°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
18.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
19°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
19.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
20°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
20.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
21°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
21.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
22°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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°
22.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
23°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
23.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
24°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
24.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
25.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
26°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
26.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
27°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2
27.5°	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2
28°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
28.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
29°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
29.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
30°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
30.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
31°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
31.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
32°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
32.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
33°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
33.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
34°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
34.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
35°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
35.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
36°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
36.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
37°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
37.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
39°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
39.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
40°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
40.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
41°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
41.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
42°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
42.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
43°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
43.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
44°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
44.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1046676

CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
45.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
46°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
46.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
47°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
47.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
48°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
48.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
49°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
49.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
51°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
51.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
52°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
52.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
53°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
53.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
54°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
54.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
55°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
55.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
56°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
56.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
57°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
57.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
58°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
58.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
59°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
59.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
60.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
61°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
61.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
62°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
63°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
63.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
64°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
64.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65.5°	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3
66°	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4
66.5°	0.3	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5
67°	0.4	0.4	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6

TEST NUMBER: P1046676

CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.4	0.4	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7
68°	0.5	0.5	0.7	0.8	0.9	1.0	1.0	0.9	0.9	0.9	0.8
68.5°	0.6	0.6	0.8	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.0
69°	0.7	0.8	0.9	1.1	1.2	1.3	1.3	1.2	1.2	1.2	1.1
69.5°	0.8	0.9	1.1	1.3	1.4	1.5	1.5	1.4	1.4	1.4	1.3
70°	1.0	1.0	1.2	1.5	1.6	1.7	1.7	1.6	1.6	1.5	1.4
70.5°	1.1	1.2	1.4	1.7	1.8	1.8	1.8	1.8	1.7	1.7	1.6
71°	1.3	1.4	1.6	1.9	2.0	2.0	2.0	2.0	1.9	1.9	1.8
71.5°	1.5	1.6	1.8	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.0
72°	1.6	1.8	2.0	2.3	2.4	2.5	2.5	2.4	2.3	2.3	2.2
72.5°	1.8	2.0	2.2	2.5	2.6	2.7	2.7	2.6	2.6	2.5	2.4
73°	2.0	2.2	2.4	2.7	2.8	2.9	2.9	2.9	2.8	2.7	2.6
73.5°	2.2	2.4	2.7	3.0	3.1	3.2	3.2	3.1	3.0	3.0	2.8
74°	2.4	2.6	2.9	3.2	3.3	3.4	3.4	3.4	3.3	3.2	3.1
74.5°	2.7	2.8	3.1	3.4	3.6	3.7	3.6	3.6	3.5	3.4	3.3
75°	2.9	3.1	3.4	3.7	3.8	3.9	3.9	3.9	3.8	3.7	3.6
75.5°	3.1	3.3	3.6	3.9	4.1	4.2	4.2	4.1	4.0	3.9	3.8
76°	3.4	3.6	3.9	4.2	4.3	4.5	4.4	4.4	4.3	4.2	4.1
76.5°	3.6	3.8	4.2	4.5	4.6	4.8	4.7	4.7	4.5	4.5	4.3
77°	3.8	4.1	4.4	4.7	4.9	5.0	5.0	4.9	4.8	4.7	4.6
77.5°	4.1	4.4	4.7	5.0	5.2	5.3	5.2	5.2	5.1	5.0	4.9
78°	4.4	4.6	5.0	5.3	5.5	5.6	5.5	5.5	5.4	5.3	5.2
78.5°	4.6	4.9	5.3	5.6	5.8	5.9	5.8	5.8	5.7	5.6	5.5
79°	4.9	5.2	5.5	5.9	6.1	6.2	6.1	6.1	5.9	5.8	5.8
79.5°	5.2	5.4	5.8	6.2	6.4	6.5	6.4	6.3	6.2	6.1	6.1
80°	5.5	5.7	6.1	6.5	6.7	6.8	6.7	6.6	6.5	6.4	6.4
80.5°	5.7	6.0	6.4	6.8	7.0	7.1	7.0	6.9	6.8	6.7	6.7
81°	6.0	6.3	6.7	7.1	7.3	7.4	7.3	7.2	7.1	7.0	7.0
81.5°	6.3	6.6	7.0	7.4	7.6	7.7	7.6	7.5	7.4	7.4	7.3
82°	6.7	6.9	7.3	7.7	8.0	8.0	7.9	7.8	7.7	7.7	7.6
82.5°	7.0	7.2	7.6	8.1	8.3	8.4	8.2	8.1	8.0	8.0	7.9
83°	7.3	7.5	7.9	8.4	8.6	8.7	8.6	8.4	8.3	8.3	8.2
83.5°	7.6	7.8	8.2	8.7	8.9	9.0	8.9	8.7	8.6	8.6	8.5
84°	7.9	8.1	8.5	9.0	9.3	9.3	9.2	9.0	8.9	8.9	8.8
84.5°	8.2	8.4	8.8	9.3	9.6	9.6	9.5	9.3	9.2	9.2	9.2
85°	8.5	8.7	9.1	9.6	9.9	9.9	9.8	9.6	9.5	9.5	9.5
85.5°	8.8	9.0	9.4	9.9	10.2	10.2	10.1	9.9	9.8	9.8	9.8
86°	9.1	9.3	9.7	10.2	10.5	10.5	10.4	10.2	10.1	10.1	10.1
86.5°	9.4	9.5	9.9	10.5	10.8	10.8	10.6	10.4	10.4	10.4	10.4
87°	9.7	9.8	10.2	10.8	11.1	11.1	10.9	10.7	10.7	10.7	10.7
87.5°	9.9	10.1	10.5	11.1	11.4	11.3	11.1	11.0	10.9	11.0	11.0
88°	10.2	10.3	10.7	11.3	11.6	11.6	11.4	11.2	11.2	11.3	11.3
88.5°	10.4	10.5	10.9	11.6	11.9	11.8	11.6	11.4	11.4	11.5	11.6
89°	10.7	10.8	11.1	11.8	12.1	12.0	11.9	11.7	11.6	11.8	11.8
89.5°	10.9	10.9	11.3	12.0	12.4	12.3	12.1	11.8	11.8	12.0	12.0

TEST NUMBER: P1046676

CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	11.0	11.1	11.5	12.2	12.6	12.5	12.2	12.0	12.0	12.2	12.3
90.5°	11.2	11.3	11.7	12.4	12.7	12.6	12.4	12.2	12.2	12.4	12.5
91°	11.4	11.4	11.8	12.5	12.9	12.8	12.5	12.3	12.3	12.5	12.6
91.5°	11.5	11.6	12.0	12.7	13.1	12.9	12.7	12.4	12.4	12.7	12.8
92°	11.7	11.7	12.1	12.8	13.2	13.1	12.8	12.6	12.6	12.8	13.0
92.5°	11.8	11.8	12.2	12.9	13.3	13.2	12.9	12.7	12.7	13.0	13.1
93°	11.9	12.0	12.4	13.0	13.5	13.3	13.1	12.8	12.8	13.1	13.2
93.5°	12.0	12.1	12.5	13.2	13.6	13.4	13.2	12.9	12.9	13.2	13.4
94°	12.2	12.2	12.6	13.3	13.7	13.6	13.3	13.0	13.1	13.3	13.5
94.5°	12.3	12.3	12.7	13.4	13.8	13.7	13.4	13.1	13.2	13.5	13.6
95°	12.4	12.4	12.8	13.5	13.9	13.8	13.5	13.2	13.3	13.6	13.7
95.5°	12.5	12.5	12.9	13.6	14.0	13.9	13.6	13.3	13.4	13.7	13.9
96°	12.6	12.6	13.0	13.7	14.1	14.0	13.7	13.4	13.5	13.8	14.0
96.5°	12.7	12.7	13.1	13.7	14.2	14.0	13.8	13.5	13.6	13.9	14.1
97°	12.8	12.8	13.2	13.8	14.3	14.1	13.8	13.6	13.6	14.0	14.2
97.5°	12.9	12.9	13.3	13.9	14.4	14.2	13.9	13.7	13.7	14.0	14.3
98°	13.0	13.0	13.3	14.0	14.4	14.3	14.0	13.7	13.8	14.1	14.3
98.5°	13.0	13.0	13.4	14.1	14.5	14.4	14.1	13.8	13.9	14.2	14.4
99°	13.1	13.1	13.5	14.1	14.6	14.4	14.1	13.9	14.0	14.3	14.5
99.5°	13.2	13.2	13.6	14.2	14.6	14.5	14.2	13.9	14.0	14.4	14.6
100°	13.3	13.3	13.6	14.2	14.7	14.5	14.3	14.0	14.1	14.4	14.6
100.5°	13.3	13.3	13.7	14.3	14.7	14.6	14.3	14.1	14.1	14.5	14.7
101°	13.4	13.4	13.7	14.4	14.8	14.7	14.4	14.1	14.2	14.5	14.8
101.5°	13.5	13.4	13.8	14.4	14.8	14.7	14.4	14.2	14.2	14.6	14.8
102°	13.5	13.5	13.8	14.5	14.9	14.7	14.5	14.2	14.3	14.6	14.9
102.5°	13.6	13.6	13.9	14.5	14.9	14.8	14.5	14.3	14.3	14.7	14.9
103°	13.6	13.6	13.9	14.5	14.9	14.8	14.6	14.3	14.4	14.7	15.0
103.5°	13.7	13.7	14.0	14.6	15.0	14.9	14.6	14.3	14.4	14.8	15.0
104°	13.7	13.7	14.0	14.6	15.0	14.9	14.6	14.4	14.5	14.8	15.1
104.5°	13.8	13.7	14.0	14.6	15.0	14.9	14.6	14.4	14.5	14.8	15.1
105°	13.8	13.8	14.1	14.7	15.0	14.9	14.7	14.4	14.5	14.9	15.2
105.5°	13.9	13.8	14.1	14.7	15.1	15.0	14.7	14.5	14.6	14.9	15.2
106°	13.9	13.8	14.1	14.7	15.1	15.0	14.7	14.5	14.6	14.9	15.2
106.5°	13.9	13.9	14.2	14.7	15.1	15.0	14.7	14.5	14.6	15.0	15.2
107°	14.0	13.9	14.2	14.7	15.1	15.0	14.7	14.5	14.6	15.0	15.3
107.5°	14.0	13.9	14.2	14.8	15.1	15.0	14.8	14.5	14.6	15.0	15.3
108°	14.0	14.0	14.2	14.8	15.1	15.0	14.8	14.6	14.7	15.0	15.3
108.5°	14.0	14.0	14.3	14.8	15.1	15.0	14.8	14.6	14.7	15.0	15.3
109°	14.0	14.0	14.3	14.8	15.1	15.0	14.8	14.6	14.7	15.0	15.3
109.5°	14.1	14.0	14.3	14.8	15.1	15.0	14.8	14.6	14.7	15.0	15.3
110°	14.1	14.0	14.3	14.8	15.1	15.0	14.8	14.6	14.7	15.1	15.4
110.5°	14.1	14.0	14.3	14.8	15.1	15.0	14.8	14.6	14.7	15.1	15.4
111°	14.1	14.1	14.3	14.8	15.1	15.0	14.8	14.6	14.7	15.1	15.4
111.5°	14.1	14.1	14.3	14.8	15.1	15.0	14.8	14.6	14.7	15.1	15.4
112°	14.1	14.1	14.3	14.8	15.1	15.0	14.8	14.6	14.7	15.1	15.4

TEST NUMBER: P1046676

CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	14.1	14.1	14.3	14.8	15.1	15.0	14.8	14.6	14.7	15.1	15.4
113°	14.2	14.1	14.3	14.8	15.0	15.0	14.8	14.6	14.7	15.1	15.4
113.5°	14.2	14.1	14.3	14.8	15.0	15.0	14.8	14.6	14.7	15.1	15.4
114°	14.2	14.1	14.3	14.7	15.0	14.9	14.7	14.6	14.7	15.0	15.3
114.5°	14.2	14.1	14.3	14.7	15.0	14.9	14.7	14.6	14.7	15.0	15.3
115°	14.2	14.1	14.3	14.7	15.0	14.9	14.7	14.6	14.7	15.0	15.3
115.5°	14.2	14.1	14.3	14.7	14.9	14.9	14.7	14.5	14.7	15.0	15.3
116°	14.2	14.1	14.3	14.7	14.9	14.9	14.7	14.5	14.7	15.0	15.3
116.5°	14.2	14.1	14.3	14.7	14.9	14.8	14.7	14.5	14.6	15.0	15.3
117°	14.2	14.1	14.3	14.6	14.9	14.8	14.6	14.5	14.6	15.0	15.3
117.5°	14.1	14.1	14.2	14.6	14.8	14.8	14.6	14.5	14.6	15.0	15.3
118°	14.1	14.1	14.2	14.6	14.8	14.8	14.6	14.5	14.6	14.9	15.2
118.5°	14.1	14.1	14.2	14.6	14.8	14.7	14.6	14.4	14.6	14.9	15.2
119°	14.1	14.0	14.2	14.5	14.7	14.7	14.5	14.4	14.6	14.9	15.2
119.5°	14.1	14.0	14.2	14.5	14.7	14.7	14.5	14.4	14.5	14.9	15.2
120°	14.1	14.0	14.2	14.5	14.7	14.6	14.5	14.4	14.5	14.9	15.2
120.5°	14.1	14.0	14.2	14.5	14.7	14.6	14.5	14.4	14.5	14.8	15.1
121°	14.1	14.0	14.1	14.4	14.6	14.6	14.4	14.3	14.5	14.8	15.1
121.5°	14.1	14.0	14.1	14.4	14.6	14.5	14.4	14.3	14.5	14.8	15.1
122°	14.1	14.0	14.1	14.4	14.6	14.5	14.4	14.3	14.4	14.8	15.1
122.5°	14.0	13.9	14.1	14.4	14.5	14.5	14.3	14.3	14.4	14.7	15.0
123°	14.0	13.9	14.1	14.3	14.5	14.4	14.3	14.2	14.4	14.7	15.0
123.5°	14.0	13.9	14.0	14.3	14.5	14.4	14.3	14.2	14.4	14.7	15.0
124°	14.0	13.9	14.0	14.3	14.4	14.4	14.3	14.2	14.3	14.6	15.0
124.5°	14.0	13.9	14.0	14.2	14.4	14.3	14.2	14.2	14.3	14.6	14.9
125°	14.0	13.8	14.0	14.2	14.3	14.3	14.2	14.1	14.3	14.6	14.9
125.5°	13.9	13.8	13.9	14.2	14.3	14.3	14.2	14.1	14.2	14.6	14.9
126°	13.9	13.8	13.9	14.1	14.3	14.2	14.1	14.1	14.2	14.5	14.8
126.5°	13.9	13.8	13.9	14.1	14.2	14.2	14.1	14.0	14.2	14.5	14.8
127°	13.9	13.8	13.8	14.1	14.2	14.1	14.0	14.0	14.2	14.5	14.8
127.5°	13.9	13.7	13.8	14.0	14.1	14.1	14.0	14.0	14.1	14.4	14.7
128°	13.8	13.7	13.8	14.0	14.1	14.1	14.0	13.9	14.1	14.4	14.7
128.5°	13.8	13.7	13.8	13.9	14.1	14.0	13.9	13.9	14.1	14.4	14.7
129°	13.8	13.7	13.7	13.9	14.0	14.0	13.9	13.9	14.0	14.3	14.6
129.5°	13.8	13.6	13.7	13.9	14.0	13.9	13.9	13.8	14.0	14.3	14.6
130°	13.7	13.6	13.7	13.8	13.9	13.9	13.8	13.8	14.0	14.3	14.6
130.5°	13.7	13.6	13.6	13.8	13.9	13.8	13.8	13.8	13.9	14.2	14.5
131°	13.7	13.6	13.6	13.8	13.9	13.8	13.7	13.7	13.9	14.2	14.5
131.5°	13.7	13.5	13.6	13.7	13.8	13.8	13.7	13.7	13.9	14.2	14.5
132°	13.7	13.5	13.5	13.7	13.8	13.7	13.7	13.7	13.8	14.1	14.4
132.5°	13.6	13.5	13.5	13.6	13.7	13.7	13.6	13.6	13.8	14.1	14.4
133°	13.6	13.5	13.5	13.6	13.7	13.6	13.6	13.6	13.7	14.1	14.4
133.5°	13.6	13.4	13.4	13.6	13.6	13.6	13.5	13.6	13.7	14.0	14.3
134°	13.5	13.4	13.4	13.5	13.6	13.5	13.5	13.5	13.7	14.0	14.3
134.5°	13.5	13.4	13.4	13.5	13.6	13.5	13.5	13.5	13.6	13.9	14.2

TEST NUMBER: P1046676

CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	13.5	13.3	13.3	13.4	13.5	13.5	13.4	13.4	13.6	13.9	14.2
135.5°	13.5	13.3	13.3	13.4	13.5	13.4	13.4	13.4	13.6	13.9	14.2
136°	13.4	13.3	13.3	13.4	13.4	13.4	13.3	13.4	13.5	13.8	14.1
136.5°	13.4	13.2	13.2	13.3	13.4	13.3	13.3	13.3	13.5	13.8	14.1
137°	13.4	13.2	13.2	13.3	13.3	13.3	13.3	13.3	13.5	13.7	14.0
137.5°	13.3	13.2	13.2	13.2	13.3	13.2	13.2	13.3	13.4	13.7	14.0
138°	13.3	13.2	13.1	13.2	13.2	13.2	13.2	13.2	13.4	13.7	14.0
138.5°	13.3	13.1	13.1	13.1	13.2	13.2	13.1	13.2	13.3	13.6	13.9
139°	13.3	13.1	13.1	13.1	13.2	13.1	13.1	13.1	13.3	13.6	13.9
139.5°	13.2	13.1	13.0	13.1	13.1	13.1	13.1	13.1	13.3	13.5	13.8
140°	13.2	13.0	13.0	13.0	13.1	13.0	13.0	13.1	13.2	13.5	13.8
140.5°	13.2	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.2	13.5	13.8
141°	13.1	13.0	12.9	12.9	13.0	13.0	12.9	13.0	13.2	13.4	13.7
141.5°	13.1	13.0	12.9	12.9	12.9	12.9	12.9	13.0	13.1	13.4	13.7
142°	13.1	12.9	12.9	12.9	12.9	12.9	12.9	12.9	13.1	13.3	13.6
142.5°	13.0	12.9	12.8	12.8	12.9	12.8	12.8	12.9	13.0	13.3	13.6
143°	13.0	12.9	12.8	12.8	12.8	12.8	12.8	12.9	13.0	13.3	13.5
143.5°	13.0	12.8	12.8	12.7	12.8	12.8	12.8	12.8	13.0	13.2	13.5
144°	13.0	12.8	12.7	12.7	12.7	12.7	12.7	12.8	12.9	13.2	13.5
144.5°	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.8	12.9	13.2	13.4
145°	12.9	12.8	12.7	12.6	12.7	12.6	12.7	12.7	12.9	13.1	13.4
145.5°	12.9	12.7	12.6	12.6	12.6	12.6	12.6	12.7	12.8	13.1	13.3
146°	12.9	12.7	12.6	12.6	12.6	12.6	12.6	12.7	12.8	13.0	13.3
146.5°	12.8	12.7	12.6	12.5	12.5	12.5	12.5	12.6	12.8	13.0	13.3
147°	12.8	12.6	12.5	12.5	12.5	12.5	12.5	12.6	12.7	13.0	13.2
147.5°	12.8	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.7	12.9	13.2
148°	12.7	12.6	12.5	12.4	12.4	12.4	12.4	12.5	12.6	12.9	13.1
148.5°	12.7	12.6	12.4	12.4	12.4	12.4	12.4	12.5	12.6	12.8	13.1
149°	12.7	12.5	12.4	12.3	12.3	12.3	12.4	12.4	12.6	12.8	13.1
149.5°	12.7	12.5	12.4	12.3	12.3	12.3	12.3	12.4	12.5	12.7	13.0
150°	12.6	12.4	12.3	12.2	12.3	12.3	12.3	12.4	12.5	12.7	13.0
150.5°	12.6	12.4	12.3	12.2	12.2	12.2	12.2	12.3	12.4	12.7	12.9
151°	12.6	12.4	12.3	12.2	12.2	12.2	12.2	12.3	12.4	12.6	12.9
151.5°	12.5	12.3	12.2	12.1	12.2	12.1	12.2	12.2	12.4	12.6	12.8
152°	12.5	12.3	12.2	12.1	12.1	12.1	12.1	12.2	12.3	12.5	12.8
152.5°	12.5	12.3	12.1	12.0	12.1	12.1	12.1	12.2	12.3	12.5	12.7
153°	12.4	12.2	12.1	12.0	12.0	12.0	12.0	12.1	12.2	12.4	12.7
153.5°	12.3	12.2	12.0	11.9	11.9	11.9	11.9	12.0	12.2	12.4	12.6
154°	12.3	12.1	12.0	11.8	11.8	11.8	11.9	12.0	12.1	12.3	12.5
154.5°	12.2	12.1	11.9	11.8	11.8	11.8	11.8	11.9	12.0	12.3	12.5
155°	12.2	12.0	11.8	11.7	11.7	11.7	11.8	11.8	12.0	12.2	12.4
155.5°	12.1	11.9	11.8	11.6	11.7	11.7	11.7	11.8	11.9	12.1	12.3
156°	12.1	11.9	11.7	11.5	11.6	11.6	11.6	11.7	11.8	12.0	12.3
156.5°	12.0	11.8	11.6	11.5	11.5	11.5	11.5	11.6	11.8	12.0	12.2
157°	11.9	11.7	11.5	11.4	11.5	11.5	11.5	11.6	11.7	11.9	12.1

TEST NUMBER: P1046676

CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	11.9	11.6	11.4	11.3	11.4	11.4	11.4	11.5	11.6	11.8	12.0
158°	11.8	11.5	11.3	11.2	11.3	11.3	11.3	11.4	11.5	11.7	11.9
158.5°	11.7	11.5	11.2	11.1	11.2	11.2	11.2	11.3	11.4	11.6	11.8
159°	11.6	11.4	11.1	11.0	11.1	11.1	11.1	11.2	11.3	11.5	11.7
159.5°	11.5	11.2	11.0	10.9	11.0	11.0	11.0	11.1	11.2	11.4	11.6
160°	11.4	11.1	10.9	10.8	10.9	10.9	10.9	11.0	11.1	11.3	11.5
160.5°	11.3	11.1	10.8	10.8	10.8	10.8	10.8	10.8	11.0	11.1	11.4
161°	11.3	11.0	10.8	10.7	10.7	10.7	10.6	10.7	10.9	11.0	11.3
161.5°	11.2	10.9	10.7	10.6	10.6	10.6	10.5	10.6	10.8	10.9	11.1
162°	11.1	10.8	10.6	10.4	10.5	10.5	10.4	10.5	10.6	10.8	11.0
162.5°	11.0	10.7	10.5	10.3	10.4	10.4	10.3	10.3	10.5	10.7	10.9
163°	10.9	10.6	10.3	10.2	10.2	10.2	10.2	10.2	10.4	10.6	10.8
163.5°	10.8	10.5	10.2	10.1	10.1	10.1	10.0	10.1	10.3	10.4	10.6
164°	10.7	10.4	10.1	10.0	10.0	10.0	9.9	9.9	10.1	10.3	10.5
164.5°	10.5	10.2	10.0	9.8	9.9	9.9	9.8	9.8	10.0	10.2	10.4
165°	10.4	10.1	9.9	9.7	9.7	9.7	9.6	9.7	9.9	10.0	10.3
165.5°	10.3	10.0	9.7	9.6	9.6	9.6	9.5	9.5	9.7	9.9	10.1
166°	10.2	9.9	9.6	9.5	9.5	9.5	9.4	9.4	9.6	9.8	10.0
166.5°	10.0	9.8	9.5	9.3	9.4	9.4	9.2	9.3	9.4	9.6	9.9
167°	9.9	9.6	9.4	9.2	9.3	9.3	9.1	9.1	9.3	9.5	9.7
167.5°	9.8	9.5	9.2	9.1	9.2	9.2	9.0	9.0	9.2	9.4	9.6
168°	9.7	9.4	9.1	8.9	9.0	9.0	8.8	8.8	9.0	9.2	9.5
168.5°	9.5	9.2	9.0	8.8	8.9	8.9	8.7	8.7	8.9	9.1	9.3
169°	9.4	9.1	8.8	8.7	8.8	8.8	8.6	8.6	8.7	8.9	9.2
169.5°	9.3	9.0	8.7	8.5	8.6	8.6	8.5	8.4	8.6	8.8	9.0
170°	9.1	8.8	8.5	8.4	8.5	8.5	8.3	8.3	8.4	8.6	8.9
170.5°	8.9	8.6	8.4	8.2	8.3	8.3	8.1	8.1	8.3	8.4	8.7
171°	8.7	8.4	8.2	8.0	8.1	8.1	8.0	8.0	8.1	8.2	8.5
171.5°	8.6	8.3	8.0	7.8	7.9	7.9	7.8	7.8	7.9	8.1	8.3
172°	8.4	8.1	7.8	7.6	7.8	7.8	7.6	7.6	7.7	7.9	8.2
172.5°	8.2	7.9	7.7	7.4	7.6	7.6	7.4	7.4	7.6	7.7	8.0
173°	8.0	7.7	7.4	7.2	7.4	7.4	7.2	7.2	7.4	7.5	7.8
173.5°	7.8	7.5	7.2	7.0	7.2	7.2	7.0	7.0	7.1	7.3	7.6
174°	7.6	7.3	7.0	6.8	7.0	7.0	6.8	6.8	6.9	7.1	7.4
174.5°	7.3	7.1	6.8	6.6	6.7	6.7	6.6	6.6	6.7	6.9	7.2
175°	7.1	6.8	6.5	6.3	6.5	6.5	6.3	6.3	6.4	6.6	7.0
175.5°	6.8	6.5	6.3	6.1	6.2	6.2	6.1	6.0	6.1	6.4	6.7
176°	6.6	6.3	6.0	5.8	5.9	5.9	5.8	5.7	5.8	6.1	6.4
176.5°	6.3	6.0	5.7	5.6	5.6	5.7	5.5	5.5	5.6	5.8	6.1
177°	6.0	5.7	5.5	5.3	5.3	5.4	5.2	5.2	5.3	5.5	5.8
177.5°	5.9	5.6	5.5	5.3	5.1	5.1	5.0	4.9	5.0	5.2	5.5
178°	6.5	6.4	6.4	6.3	6.1	6.0	5.8	5.7	5.7	5.9	6.0
178.5°	6.9	6.9	6.9	6.9	6.7	6.6	6.5	6.4	6.4	6.5	6.6
179°	7.2	7.2	7.3	7.3	7.1	7.1	6.9	6.8	6.8	6.9	7.0
179.5°	7.4	7.5	7.6	7.6	7.4	7.4	7.3	7.2	7.1	7.2	7.3

TEST NUMBER: P1046676
CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6

TEST NUMBER: P1046676

CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	0.3	0.3	0.3	0.3	0.3	0.3
0.5°	0.3	0.3	0.3	0.3	0.3	0.3
1°	0.3	0.3	0.3	0.3	0.3	0.3
1.5°	0.3	0.3	0.3	0.3	0.3	0.3
2°	0.3	0.3	0.3	0.3	0.3	0.3
2.5°	0.3	0.3	0.3	0.3	0.3	0.3
3°	0.3	0.3	0.3	0.3	0.3	0.3
3.5°	0.3	0.3	0.3	0.3	0.3	0.3
4°	0.3	0.3	0.3	0.3	0.3	0.3
4.5°	0.3	0.3	0.3	0.3	0.3	0.3
5°	0.3	0.3	0.3	0.3	0.3	0.3
5.5°	0.3	0.3	0.3	0.3	0.3	0.3
6°	0.3	0.3	0.3	0.3	0.3	0.3
6.5°	0.3	0.3	0.3	0.3	0.3	0.3
7°	0.3	0.3	0.3	0.3	0.3	0.3
7.5°	0.3	0.3	0.3	0.3	0.3	0.3
8°	0.3	0.3	0.3	0.3	0.3	0.3
8.5°	0.3	0.3	0.3	0.3	0.3	0.3
9°	0.3	0.3	0.3	0.3	0.3	0.3
9.5°	0.3	0.3	0.3	0.3	0.3	0.3
10°	0.3	0.3	0.3	0.3	0.3	0.3
10.5°	0.3	0.3	0.3	0.3	0.3	0.3
11°	0.3	0.3	0.3	0.3	0.3	0.3
11.5°	0.3	0.3	0.3	0.3	0.3	0.3
12°	0.3	0.3	0.3	0.3	0.3	0.3
12.5°	0.3	0.3	0.3	0.3	0.3	0.3
13°	0.3	0.3	0.3	0.3	0.3	0.3
13.5°	0.3	0.3	0.3	0.3	0.3	0.3
14°	0.3	0.3	0.3	0.3	0.3	0.3
14.5°	0.3	0.3	0.3	0.3	0.3	0.3
15°	0.3	0.3	0.3	0.3	0.3	0.3
15.5°	0.3	0.3	0.3	0.3	0.3	0.3
16°	0.3	0.3	0.3	0.3	0.3	0.3
16.5°	0.3	0.3	0.3	0.3	0.3	0.3
17°	0.3	0.3	0.3	0.3	0.3	0.3
17.5°	0.3	0.3	0.3	0.3	0.3	0.3
18°	0.3	0.3	0.3	0.3	0.3	0.3
18.5°	0.3	0.3	0.3	0.3	0.3	0.3
19°	0.3	0.3	0.3	0.3	0.3	0.3
19.5°	0.3	0.3	0.3	0.3	0.3	0.3
20°	0.3	0.3	0.3	0.3	0.3	0.3
20.5°	0.3	0.3	0.3	0.3	0.3	0.3
21°	0.3	0.3	0.3	0.3	0.3	0.3
21.5°	0.3	0.3	0.3	0.3	0.3	0.3
22°	0.3	0.3	0.3	0.3	0.3	0.3

TEST NUMBER: P1046676

CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	0.3	0.3	0.3	0.3	0.3	0.3
23°	0.3	0.3	0.3	0.3	0.3	0.3
23.5°	0.3	0.3	0.3	0.3	0.3	0.3
24°	0.2	0.2	0.2	0.2	0.3	0.3
24.5°	0.2	0.2	0.2	0.2	0.2	0.3
25°	0.2	0.2	0.2	0.2	0.2	0.2
25.5°	0.2	0.2	0.2	0.2	0.2	0.2
26°	0.2	0.2	0.2	0.2	0.2	0.2
26.5°	0.2	0.2	0.2	0.2	0.2	0.2
27°	0.2	0.2	0.2	0.2	0.2	0.2
27.5°	0.2	0.2	0.2	0.2	0.2	0.2
28°	0.2	0.2	0.2	0.2	0.2	0.2
28.5°	0.2	0.2	0.2	0.2	0.2	0.2
29°	0.2	0.2	0.2	0.2	0.2	0.2
29.5°	0.2	0.2	0.2	0.2	0.2	0.2
30°	0.2	0.2	0.2	0.2	0.2	0.2
30.5°	0.2	0.2	0.2	0.2	0.2	0.2
31°	0.2	0.2	0.2	0.2	0.2	0.2
31.5°	0.2	0.2	0.2	0.2	0.2	0.2
32°	0.2	0.2	0.2	0.2	0.2	0.2
32.5°	0.2	0.2	0.2	0.2	0.2	0.2
33°	0.2	0.2	0.2	0.2	0.2	0.2
33.5°	0.2	0.2	0.2	0.2	0.2	0.2
34°	0.2	0.2	0.2	0.2	0.2	0.2
34.5°	0.2	0.2	0.2	0.2	0.2	0.2
35°	0.2	0.2	0.2	0.2	0.2	0.2
35.5°	0.2	0.2	0.2	0.2	0.2	0.2
36°	0.2	0.2	0.2	0.2	0.2	0.2
36.5°	0.2	0.2	0.2	0.2	0.2	0.2
37°	0.2	0.2	0.2	0.2	0.2	0.2
37.5°	0.2	0.2	0.2	0.2	0.2	0.2
38°	0.2	0.2	0.2	0.2	0.2	0.2
38.5°	0.2	0.2	0.2	0.2	0.2	0.2
39°	0.2	0.2	0.2	0.2	0.2	0.2
39.5°	0.2	0.2	0.2	0.2	0.2	0.2
40°	0.2	0.2	0.2	0.2	0.2	0.2
40.5°	0.2	0.2	0.2	0.2	0.2	0.2
41°	0.2	0.2	0.2	0.2	0.2	0.2
41.5°	0.2	0.2	0.2	0.2	0.2	0.2
42°	0.2	0.2	0.2	0.2	0.2	0.2
42.5°	0.2	0.2	0.2	0.2	0.2	0.2
43°	0.2	0.2	0.2	0.2	0.2	0.2
43.5°	0.2	0.2	0.2	0.2	0.2	0.2
44°	0.2	0.2	0.2	0.2	0.2	0.2
44.5°	0.2	0.2	0.2	0.2	0.2	0.2

TEST NUMBER: P1046676

CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	0.2	0.2	0.2	0.2	0.2	0.2
45.5°	0.2	0.2	0.2	0.2	0.2	0.2
46°	0.2	0.2	0.2	0.2	0.2	0.2
46.5°	0.2	0.2	0.2	0.2	0.2	0.2
47°	0.2	0.2	0.2	0.2	0.2	0.2
47.5°	0.2	0.2	0.2	0.2	0.2	0.2
48°	0.2	0.2	0.2	0.2	0.2	0.2
48.5°	0.2	0.2	0.2	0.2	0.2	0.2
49°	0.2	0.2	0.2	0.2	0.2	0.2
49.5°	0.2	0.2	0.2	0.2	0.2	0.2
50°	0.2	0.2	0.2	0.2	0.2	0.2
50.5°	0.2	0.2	0.2	0.2	0.2	0.2
51°	0.2	0.2	0.2	0.2	0.2	0.2
51.5°	0.2	0.2	0.2	0.2	0.2	0.2
52°	0.2	0.2	0.2	0.2	0.2	0.2
52.5°	0.2	0.2	0.2	0.2	0.2	0.2
53°	0.2	0.2	0.2	0.2	0.2	0.2
53.5°	0.2	0.2	0.2	0.2	0.2	0.2
54°	0.2	0.2	0.2	0.2	0.2	0.2
54.5°	0.2	0.2	0.2	0.2	0.2	0.2
55°	0.2	0.2	0.2	0.2	0.2	0.2
55.5°	0.2	0.2	0.2	0.2	0.2	0.2
56°	0.2	0.2	0.2	0.2	0.2	0.2
56.5°	0.2	0.2	0.2	0.2	0.2	0.2
57°	0.2	0.2	0.2	0.2	0.2	0.2
57.5°	0.2	0.2	0.2	0.2	0.2	0.2
58°	0.2	0.2	0.2	0.2	0.2	0.2
58.5°	0.2	0.2	0.2	0.2	0.2	0.2
59°	0.2	0.2	0.2	0.2	0.2	0.2
59.5°	0.2	0.2	0.2	0.2	0.2	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2
60.5°	0.2	0.2	0.2	0.2	0.2	0.2
61°	0.2	0.2	0.2	0.2	0.2	0.2
61.5°	0.2	0.2	0.2	0.2	0.2	0.2
62°	0.2	0.2	0.2	0.2	0.2	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2
63°	0.3	0.2	0.2	0.2	0.2	0.2
63.5°	0.3	0.3	0.2	0.2	0.2	0.2
64°	0.3	0.3	0.3	0.2	0.2	0.2
64.5°	0.3	0.3	0.3	0.2	0.2	0.2
65°	0.3	0.3	0.3	0.3	0.2	0.2
65.5°	0.3	0.3	0.3	0.3	0.3	0.2
66°	0.4	0.3	0.3	0.3	0.3	0.3
66.5°	0.4	0.4	0.3	0.3	0.3	0.3
67°	0.5	0.4	0.3	0.3	0.4	0.4

TEST NUMBER: P1046676

CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.6	0.5	0.4	0.4	0.4	0.4
68°	0.7	0.6	0.5	0.5	0.5	0.5
68.5°	0.8	0.7	0.6	0.6	0.6	0.6
69°	1.0	0.9	0.7	0.7	0.7	0.7
69.5°	1.1	1.0	0.8	0.8	0.8	0.8
70°	1.3	1.2	1.0	1.0	1.0	1.0
70.5°	1.4	1.3	1.1	1.1	1.1	1.1
71°	1.6	1.5	1.3	1.3	1.3	1.3
71.5°	1.8	1.7	1.5	1.4	1.4	1.5
72°	2.0	1.9	1.7	1.6	1.6	1.6
72.5°	2.2	2.1	1.9	1.8	1.8	1.8
73°	2.4	2.3	2.1	2.0	2.0	2.0
73.5°	2.6	2.5	2.3	2.2	2.1	2.2
74°	2.8	2.7	2.5	2.4	2.3	2.4
74.5°	3.1	2.9	2.7	2.6	2.6	2.7
75°	3.3	3.2	3.0	2.8	2.8	2.9
75.5°	3.6	3.4	3.2	3.1	3.0	3.1
76°	3.8	3.7	3.5	3.3	3.2	3.4
76.5°	4.1	3.9	3.7	3.5	3.5	3.6
77°	4.4	4.2	4.0	3.8	3.7	3.8
77.5°	4.6	4.5	4.2	4.1	4.0	4.1
78°	4.9	4.7	4.5	4.3	4.2	4.4
78.5°	5.2	5.0	4.8	4.6	4.5	4.6
79°	5.5	5.3	5.1	4.9	4.8	4.9
79.5°	5.8	5.6	5.4	5.1	5.1	5.2
80°	6.1	5.9	5.6	5.4	5.4	5.5
80.5°	6.4	6.2	5.9	5.7	5.6	5.7
81°	6.7	6.5	6.2	6.0	5.9	6.0
81.5°	7.0	6.8	6.5	6.3	6.2	6.3
82°	7.3	7.1	6.8	6.6	6.5	6.7
82.5°	7.6	7.4	7.1	6.9	6.9	7.0
83°	7.9	7.7	7.4	7.2	7.2	7.3
83.5°	8.3	8.0	7.7	7.5	7.5	7.6
84°	8.6	8.4	8.0	7.8	7.8	7.9
84.5°	8.9	8.7	8.3	8.1	8.1	8.2
85°	9.2	9.0	8.6	8.5	8.4	8.5
85.5°	9.6	9.3	8.9	8.8	8.7	8.8
86°	9.9	9.6	9.2	9.1	9.0	9.1
86.5°	10.2	9.9	9.6	9.4	9.3	9.4
87°	10.5	10.2	9.9	9.7	9.6	9.7
87.5°	10.8	10.5	10.2	10.0	9.9	9.9
88°	11.1	10.8	10.4	10.2	10.2	10.2
88.5°	11.4	11.1	10.7	10.5	10.4	10.4
89°	11.7	11.4	11.0	10.8	10.7	10.7
89.5°	11.9	11.6	11.2	11.0	10.9	10.9

TEST NUMBER: P1046676

CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	12.2	11.9	11.5	11.2	11.1	11.0
90.5°	12.4	12.1	11.7	11.4	11.3	11.2
91°	12.6	12.3	11.9	11.6	11.5	11.4
91.5°	12.8	12.5	12.1	11.8	11.6	11.5
92°	12.9	12.6	12.2	12.0	11.8	11.7
92.5°	13.1	12.8	12.4	12.1	11.9	11.8
93°	13.2	12.9	12.5	12.2	12.0	11.9
93.5°	13.4	13.1	12.7	12.4	12.2	12.0
94°	13.5	13.2	12.8	12.5	12.3	12.2
94.5°	13.6	13.3	12.9	12.6	12.4	12.3
95°	13.7	13.4	13.0	12.8	12.5	12.4
95.5°	13.9	13.6	13.2	12.9	12.7	12.5
96°	14.0	13.7	13.3	13.0	12.8	12.6
96.5°	14.1	13.8	13.4	13.1	12.9	12.7
97°	14.2	13.9	13.5	13.2	13.0	12.8
97.5°	14.3	14.0	13.6	13.3	13.1	12.9
98°	14.4	14.1	13.7	13.4	13.1	13.0
98.5°	14.5	14.2	13.8	13.5	13.2	13.0
99°	14.5	14.2	13.9	13.6	13.3	13.1
99.5°	14.6	14.3	13.9	13.6	13.4	13.2
100°	14.7	14.4	14.0	13.7	13.5	13.3
100.5°	14.8	14.5	14.1	13.8	13.5	13.3
101°	14.8	14.5	14.2	13.9	13.6	13.4
101.5°	14.9	14.6	14.2	13.9	13.7	13.5
102°	14.9	14.7	14.3	14.0	13.7	13.5
102.5°	15.0	14.7	14.4	14.1	13.8	13.6
103°	15.1	14.8	14.4	14.1	13.9	13.6
103.5°	15.1	14.8	14.5	14.2	13.9	13.7
104°	15.1	14.9	14.5	14.2	14.0	13.7
104.5°	15.2	14.9	14.6	14.3	14.0	13.8
105°	15.2	15.0	14.6	14.3	14.0	13.8
105.5°	15.3	15.0	14.7	14.4	14.1	13.9
106°	15.3	15.1	14.7	14.4	14.1	13.9
106.5°	15.3	15.1	14.7	14.4	14.2	13.9
107°	15.3	15.1	14.8	14.5	14.2	14.0
107.5°	15.4	15.1	14.8	14.5	14.2	14.0
108°	15.4	15.2	14.8	14.5	14.2	14.0
108.5°	15.4	15.2	14.9	14.6	14.3	14.0
109°	15.4	15.2	14.9	14.6	14.3	14.0
109.5°	15.4	15.2	14.9	14.6	14.3	14.1
110°	15.4	15.3	14.9	14.6	14.3	14.1
110.5°	15.4	15.3	15.0	14.6	14.3	14.1
111°	15.4	15.3	15.0	14.7	14.4	14.1
111.5°	15.5	15.3	15.0	14.7	14.4	14.1
112°	15.5	15.3	15.0	14.7	14.4	14.1

TEST NUMBER: P1046676

CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	15.5	15.3	15.0	14.7	14.4	14.1
113°	15.5	15.3	15.0	14.7	14.4	14.2
113.5°	15.4	15.3	15.0	14.7	14.4	14.2
114°	15.4	15.3	15.0	14.7	14.4	14.2
114.5°	15.4	15.3	15.0	14.7	14.4	14.2
115°	15.4	15.3	15.0	14.7	14.4	14.2
115.5°	15.4	15.3	15.0	14.7	14.4	14.2
116°	15.4	15.3	15.0	14.7	14.4	14.2
116.5°	15.4	15.3	15.0	14.7	14.4	14.2
117°	15.4	15.3	15.0	14.7	14.4	14.2
117.5°	15.4	15.3	15.0	14.7	14.4	14.1
118°	15.4	15.3	15.0	14.7	14.4	14.1
118.5°	15.3	15.3	15.0	14.7	14.4	14.1
119°	15.3	15.2	15.0	14.7	14.4	14.1
119.5°	15.3	15.2	15.0	14.7	14.4	14.1
120°	15.3	15.2	15.0	14.7	14.4	14.1
120.5°	15.3	15.2	14.9	14.7	14.4	14.1
121°	15.3	15.2	14.9	14.7	14.3	14.1
121.5°	15.2	15.2	14.9	14.6	14.3	14.1
122°	15.2	15.1	14.9	14.6	14.3	14.1
122.5°	15.2	15.1	14.9	14.6	14.3	14.0
123°	15.2	15.1	14.9	14.6	14.3	14.0
123.5°	15.1	15.1	14.9	14.6	14.3	14.0
124°	15.1	15.0	14.8	14.6	14.3	14.0
124.5°	15.1	15.0	14.8	14.5	14.2	14.0
125°	15.1	15.0	14.8	14.5	14.2	14.0
125.5°	15.0	15.0	14.8	14.5	14.2	13.9
126°	15.0	14.9	14.8	14.5	14.2	13.9
126.5°	15.0	14.9	14.7	14.5	14.2	13.9
127°	14.9	14.9	14.7	14.4	14.1	13.9
127.5°	14.9	14.9	14.7	14.4	14.1	13.9
128°	14.9	14.8	14.7	14.4	14.1	13.8
128.5°	14.8	14.8	14.6	14.4	14.1	13.8
129°	14.8	14.8	14.6	14.4	14.1	13.8
129.5°	14.8	14.7	14.6	14.3	14.0	13.8
130°	14.8	14.7	14.6	14.3	14.0	13.7
130.5°	14.7	14.7	14.5	14.3	14.0	13.7
131°	14.7	14.6	14.5	14.3	14.0	13.7
131.5°	14.6	14.6	14.5	14.2	13.9	13.7
132°	14.6	14.6	14.4	14.2	13.9	13.7
132.5°	14.6	14.5	14.4	14.2	13.9	13.6
133°	14.5	14.5	14.4	14.2	13.9	13.6
133.5°	14.5	14.5	14.4	14.1	13.8	13.6
134°	14.5	14.4	14.3	14.1	13.8	13.5
134.5°	14.4	14.4	14.3	14.1	13.8	13.5

TEST NUMBER: P1046676

CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	14.4	14.4	14.3	14.0	13.8	13.5
135.5°	14.3	14.3	14.2	14.0	13.7	13.5
136°	14.3	14.3	14.2	14.0	13.7	13.4
136.5°	14.3	14.3	14.2	14.0	13.7	13.4
137°	14.2	14.2	14.1	13.9	13.6	13.4
137.5°	14.2	14.2	14.1	13.9	13.6	13.3
138°	14.1	14.1	14.1	13.9	13.6	13.3
138.5°	14.1	14.1	14.0	13.8	13.5	13.3
139°	14.1	14.1	14.0	13.8	13.5	13.3
139.5°	14.0	14.0	14.0	13.8	13.5	13.2
140°	14.0	14.0	13.9	13.7	13.5	13.2
140.5°	13.9	14.0	13.9	13.7	13.4	13.2
141°	13.9	13.9	13.8	13.7	13.4	13.1
141.5°	13.8	13.9	13.8	13.6	13.4	13.1
142°	13.8	13.8	13.8	13.6	13.3	13.1
142.5°	13.8	13.8	13.7	13.6	13.3	13.0
143°	13.7	13.8	13.7	13.5	13.3	13.0
143.5°	13.7	13.7	13.7	13.5	13.2	13.0
144°	13.6	13.7	13.6	13.5	13.2	13.0
144.5°	13.6	13.6	13.6	13.5	13.2	12.9
145°	13.5	13.6	13.6	13.4	13.2	12.9
145.5°	13.5	13.6	13.5	13.4	13.1	12.9
146°	13.5	13.5	13.5	13.4	13.1	12.9
146.5°	13.4	13.5	13.5	13.3	13.1	12.8
147°	13.4	13.4	13.4	13.3	13.0	12.8
147.5°	13.4	13.4	13.4	13.3	13.0	12.8
148°	13.3	13.4	13.4	13.2	13.0	12.7
148.5°	13.3	13.3	13.3	13.2	13.0	12.7
149°	13.2	13.3	13.3	13.2	12.9	12.7
149.5°	13.2	13.3	13.3	13.1	12.9	12.7
150°	13.1	13.2	13.2	13.1	12.9	12.6
150.5°	13.1	13.2	13.2	13.1	12.8	12.6
151°	13.0	13.1	13.2	13.0	12.8	12.6
151.5°	13.0	13.1	13.1	13.0	12.8	12.5
152°	12.9	13.1	13.1	13.0	12.7	12.5
152.5°	12.9	13.0	13.0	12.9	12.7	12.5
153°	12.8	13.0	13.0	12.9	12.6	12.4
153.5°	12.8	12.9	12.9	12.8	12.6	12.3
154°	12.7	12.8	12.8	12.7	12.5	12.3
154.5°	12.6	12.8	12.8	12.7	12.5	12.2
155°	12.6	12.7	12.7	12.6	12.4	12.2
155.5°	12.5	12.6	12.7	12.6	12.4	12.1
156°	12.4	12.6	12.6	12.5	12.3	12.1
156.5°	12.4	12.5	12.5	12.4	12.2	12.0
157°	12.3	12.4	12.5	12.4	12.2	11.9

TEST NUMBER: P1046676

CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	12.2	12.4	12.4	12.3	12.1	11.9
158°	12.1	12.3	12.3	12.2	12.0	11.8
158.5°	12.0	12.2	12.3	12.2	12.0	11.7
159°	11.9	12.2	12.2	12.1	11.9	11.6
159.5°	11.8	12.1	12.1	12.0	11.8	11.5
160°	11.7	12.0	12.0	11.9	11.7	11.4
160.5°	11.6	11.9	11.9	11.8	11.6	11.3
161°	11.5	11.8	11.9	11.8	11.5	11.3
161.5°	11.4	11.7	11.8	11.7	11.5	11.2
162°	11.3	11.7	11.7	11.6	11.4	11.1
162.5°	11.2	11.6	11.6	11.5	11.3	11.0
163°	11.0	11.5	11.5	11.4	11.2	10.9
163.5°	10.9	11.4	11.4	11.3	11.1	10.8
164°	10.8	11.2	11.3	11.2	11.0	10.7
164.5°	10.7	11.1	11.2	11.1	10.8	10.5
165°	10.5	11.0	11.1	11.0	10.7	10.4
165.5°	10.4	10.9	11.0	10.8	10.6	10.3
166°	10.3	10.8	10.8	10.7	10.5	10.2
166.5°	10.1	10.6	10.7	10.6	10.4	10.0
167°	10.0	10.5	10.6	10.5	10.2	9.9
167.5°	9.9	10.4	10.5	10.4	10.1	9.8
168°	9.7	10.3	10.3	10.2	10.0	9.7
168.5°	9.6	10.1	10.2	10.1	9.8	9.5
169°	9.4	10.0	10.1	10.0	9.7	9.4
169.5°	9.3	9.9	9.9	9.8	9.6	9.3
170°	9.1	9.7	9.8	9.7	9.4	9.1
170.5°	9.0	9.5	9.6	9.5	9.2	8.9
171°	8.8	9.3	9.4	9.3	9.1	8.7
171.5°	8.6	9.1	9.2	9.1	8.9	8.6
172°	8.5	9.0	9.0	9.0	8.7	8.4
172.5°	8.3	8.8	8.8	8.8	8.5	8.2
173°	8.1	8.6	8.6	8.6	8.3	8.0
173.5°	7.9	8.4	8.4	8.3	8.1	7.8
174°	7.6	8.2	8.2	8.1	7.9	7.6
174.5°	7.4	7.9	7.9	7.8	7.7	7.3
175°	7.2	7.7	7.6	7.6	7.4	7.1
175.5°	6.9	7.4	7.4	7.3	7.1	6.8
176°	6.7	7.1	7.1	7.0	6.8	6.6
176.5°	6.4	6.8	6.8	6.7	6.5	6.3
177°	6.1	6.5	6.5	6.4	6.2	6.0
177.5°	5.8	6.3	6.3	6.2	6.1	5.9
178°	6.3	6.9	6.9	6.8	6.6	6.5
178.5°	6.9	7.2	7.2	7.1	6.9	6.9
179°	7.2	7.4	7.4	7.3	7.2	7.2
179.5°	7.5	7.6	7.5	7.5	7.3	7.4

TEST NUMBER: P1046676
CATALOG NUMBER: FMNL1515FS5-920

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	7.6	7.6	7.6	7.6	7.6	7.6

TEST NUMBER: P1046676
CATALOG NUMBER: FMNL1515FS5-920

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	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	1.1
	6H	2.4	3.0	3.7	4.2	5.9	4.0	4.6	5.2	5.8	7.5
	8H	5.5	6.0	6.7	7.2	8.9	6.9	7.4	8.1	8.6	10.3
	12H	8.6	9.1	9.8	10.3	12.0	9.8	10.3	11.0	11.5	13.2
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	0.0	1.2	0.0	0.3	1.0	1.5	3.2
	6H	4.4	4.9	5.6	6.1	7.8	5.9	6.4	7.1	7.6	9.3
	8H	7.5	7.9	8.7	9.1	10.8	8.8	9.2	10.0	10.4	12.2
	12H	10.5	10.9	11.8	12.1	13.9	11.7	12.1	12.9	13.3	15.1
8H	4H	0.4	0.8	1.6	2.0	3.7	1.8	2.2	3.0	3.5	5.2
	6H	6.3	6.6	7.5	7.9	9.6	7.6	8.0	8.8	9.2	10.9
	8H	9.3	9.6	10.5	10.8	12.6	10.5	10.8	11.7	12.0	13.8
	12H	12.4	12.7	13.6	13.9	15.7	13.5	13.8	14.7	15.0	16.8
12H	4H	1.7	2.0	2.9	3.3	5.0	2.8	3.2	4.0	4.4	6.1
	6H	7.1	7.5	8.4	8.7	10.5	8.3	8.6	9.5	9.9	11.6
	8H	10.1	10.4	11.4	11.7	13.4	11.2	11.5	12.5	12.7	14.5

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

Report Prepared for

Cooper Lighting Solutions

Halo Home

Report Number: SP1-2506-468-18

Test Date: 07/09/2025

Luminaire Tested: FMNL1515FS5-NIGHT LIGHT

Data in this report applies to families of products including FMNL1515FS5-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

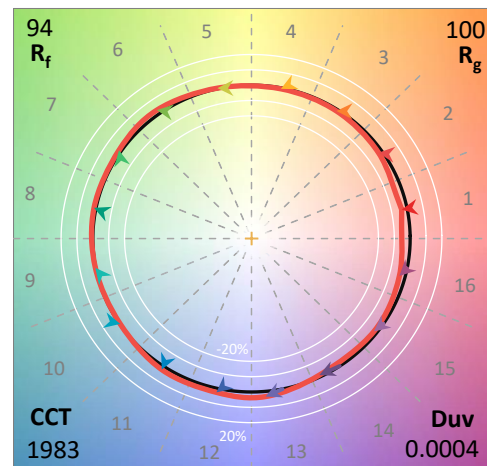
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-468-18
 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: **FMNL1515FS5-NIGHT LIGHT**
 Description: HALO FLUSH MOUNT NIGHT LIGHT 15 INCH

Spectral Parameters

CCT (K): 1983
 CIE u' : 0.3065
 CIE v' : 0.5390
 Duv: 0.0004
 CIE x: 0.5288
 CIE y: 0.4133
 CIE z: 0.0578
 Peak Wavelength (nm): 636
 Dominant Wavelength (nm): 589
 Purity: 82.81313
 R_f: 94.4
 R_g: 100.1

CRI (Ra): 95.7
 R1: 97.5
 R2: 99.6
 R3: 99.4
 R4: 98.9
 R5: 98.5
 R6: 95.3
 R7: 91.9
 R8: 84.6
 R9: 69.2
 R10: 98.1
 R11: 95.2
 R12: 93.6
 R13: 98.6
 R14: 97.9
 R15: 91.8



Test Conditions

Stabilization Time: 27M
 Operation Time: 1H 27M
 Sphere Temperature (°C): 24.0

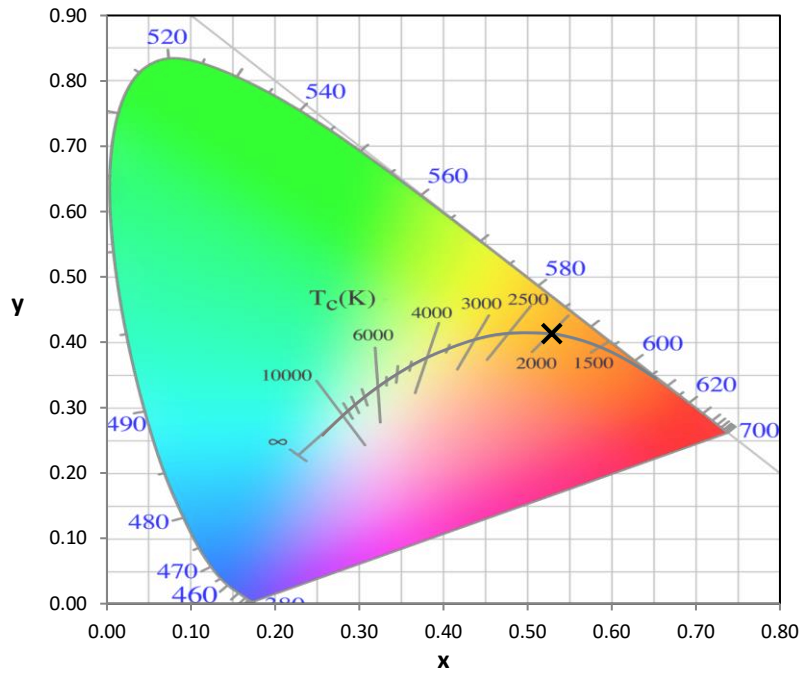
REPORT NUMBER: SP1-2506-468-18

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

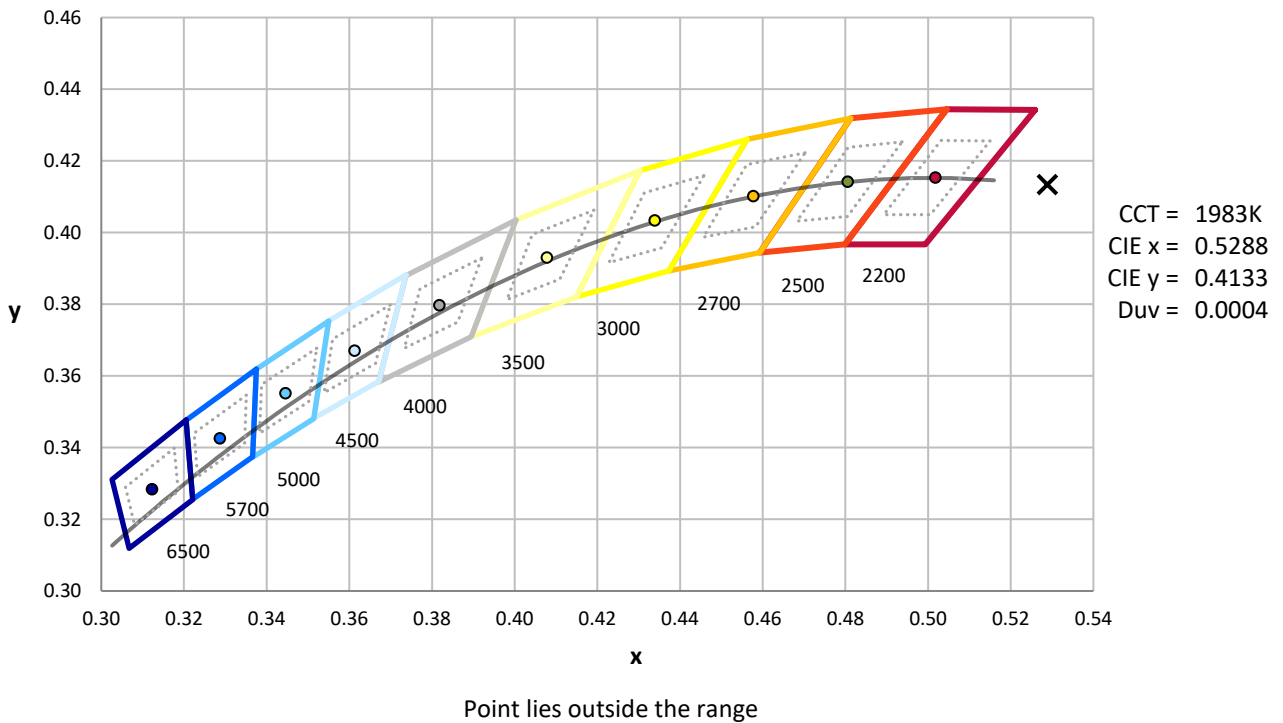
Sample Number	Condition	Description
P2506-468-LM.3	Good	HALO FLUSH MOUNT NIGHT LIGHT 15 INCH

REPORT NUMBER: SP1-2506-468-18

CIE 1931 Chromaticity Diagram

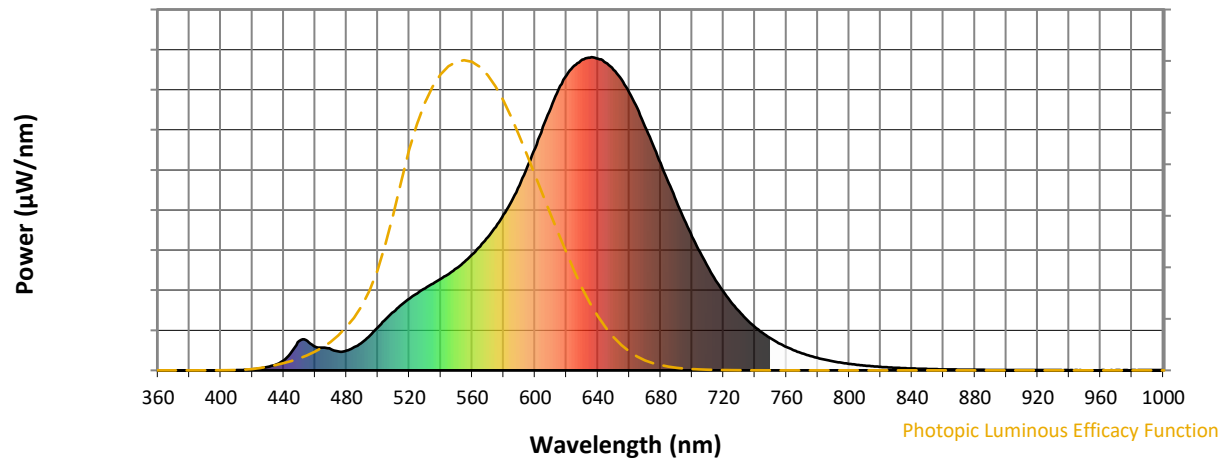


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2506-468-18

Photopic Flux vs. Wavelength

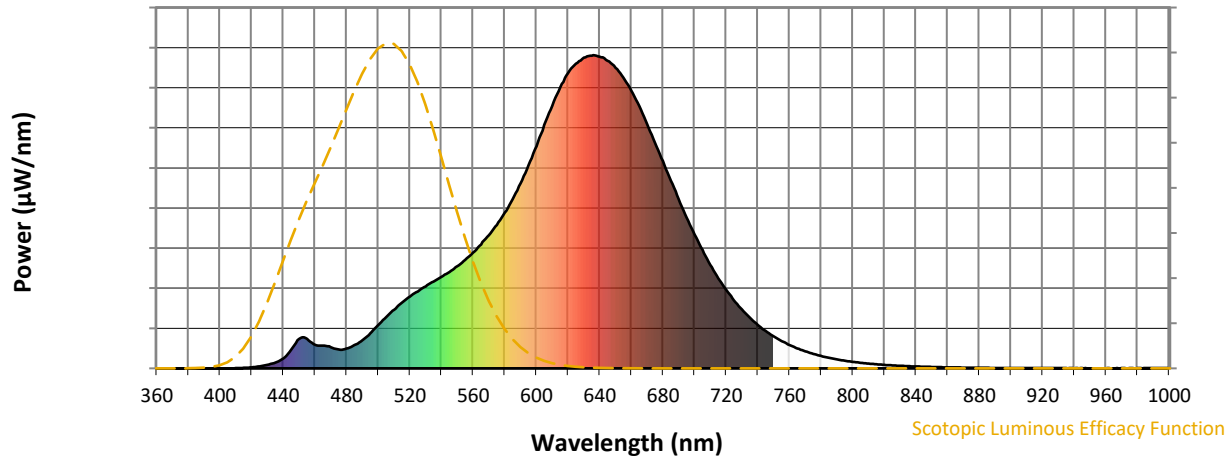


Photopic Lumens: NR

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	90	NR	620	942	NR	750	102	NR	880	2	NR
365	0	NR	495	112	NR	625	973	NR	755	87	NR	885	2	NR
370	0	NR	500	138	NR	630	992	NR	760	75	NR	890	1	NR
375	0	NR	505	164	NR	635	998	NR	765	64	NR	895	1	NR
380	0	NR	510	187	NR	640	995	NR	770	54	NR	900	1	NR
385	0	NR	515	210	NR	645	982	NR	775	46	NR	905	1	NR
390	0	NR	520	229	NR	650	959	NR	780	40	NR	910	1	NR
395	0	NR	525	245	NR	655	928	NR	785	33	NR	915	1	NR
400	0	NR	530	262	NR	660	886	NR	790	29	NR	920	1	NR
405	0	NR	535	277	NR	665	838	NR	795	24	NR	925	1	NR
410	1	NR	540	292	NR	670	779	NR	800	21	NR	930	1	NR
415	2	NR	545	308	NR	675	720	NR	805	18	NR	935	1	NR
420	4	NR	550	326	NR	680	662	NR	810	15	NR	940	1	NR
425	7	NR	555	346	NR	685	599	NR	815	13	NR	945	1	NR
430	11	NR	560	370	NR	690	540	NR	820	11	NR	950	1	NR
435	19	NR	565	396	NR	695	481	NR	825	10	NR	955	0	NR
440	32	NR	570	425	NR	700	428	NR	830	8	NR	960	1	NR
445	59	NR	575	457	NR	705	378	NR	835	7	NR	965	0	NR
450	94	NR	580	497	NR	710	330	NR	840	6	NR	970	1	NR
455	94	NR	585	539	NR	715	288	NR	845	5	NR	975	1	NR
460	75	NR	590	591	NR	720	251	NR	850	5	NR	980	1	NR
465	73	NR	595	649	NR	725	217	NR	855	4	NR	985	1	NR
470	68	NR	600	709	NR	730	188	NR	860	3	NR	990	1	NR
475	60	NR	605	777	NR	735	162	NR	865	3	NR	995	1	NR
480	63	NR	610	838	NR	740	138	NR	870	3	NR	1000	0	NR
485	74	NR	615	897	NR	745	119	NR	875	2	NR			

REPORT NUMBER: SP1-2506-468-18

Scotopic Flux vs. Wavelength



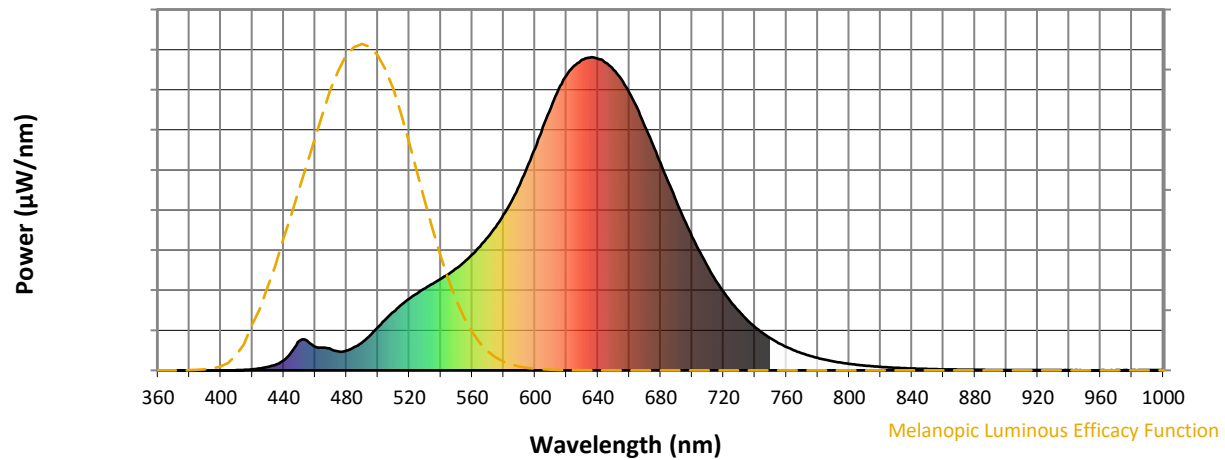
Scotopic Lumens: NR

S/P: 0.92

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	90	NR	620	942	NR	750	102	NR	880	2	NR
365	0	NR	495	112	NR	625	973	NR	755	87	NR	885	2	NR
370	0	NR	500	138	NR	630	992	NR	760	75	NR	890	1	NR
375	0	NR	505	164	NR	635	998	NR	765	64	NR	895	1	NR
380	0	NR	510	187	NR	640	995	NR	770	54	NR	900	1	NR
385	0	NR	515	210	NR	645	982	NR	775	46	NR	905	1	NR
390	0	NR	520	229	NR	650	959	NR	780	40	NR	910	1	NR
395	0	NR	525	245	NR	655	928	NR	785	33	NR	915	1	NR
400	0	NR	530	262	NR	660	886	NR	790	29	NR	920	1	NR
405	0	NR	535	277	NR	665	838	NR	795	24	NR	925	1	NR
410	1	NR	540	292	NR	670	779	NR	800	21	NR	930	1	NR
415	2	NR	545	308	NR	675	720	NR	805	18	NR	935	1	NR
420	4	NR	550	326	NR	680	662	NR	810	15	NR	940	1	NR
425	7	NR	555	346	NR	685	599	NR	815	13	NR	945	1	NR
430	11	NR	560	370	NR	690	540	NR	820	11	NR	950	1	NR
435	19	NR	565	396	NR	695	481	NR	825	10	NR	955	0	NR
440	32	NR	570	425	NR	700	428	NR	830	8	NR	960	1	NR
445	59	NR	575	457	NR	705	378	NR	835	7	NR	965	0	NR
450	94	NR	580	497	NR	710	330	NR	840	6	NR	970	1	NR
455	94	NR	585	539	NR	715	288	NR	845	5	NR	975	1	NR
460	75	NR	590	591	NR	720	251	NR	850	5	NR	980	1	NR
465	73	NR	595	649	NR	725	217	NR	855	4	NR	985	1	NR
470	68	NR	600	709	NR	730	188	NR	860	3	NR	990	1	NR
475	60	NR	605	777	NR	735	162	NR	865	3	NR	995	1	NR
480	63	NR	610	838	NR	740	138	NR	870	3	NR	1000	0	NR
485	74	NR	615	897	NR	745	119	NR	875	2	NR			

REPORT NUMBER: SP1-2506-468-18

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.57

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	90	NR	620	942	NR	750	102	NR	880	2	NR
365	0	NR	495	112	NR	625	973	NR	755	87	NR	885	2	NR
370	0	NR	500	138	NR	630	992	NR	760	75	NR	890	1	NR
375	0	NR	505	164	NR	635	998	NR	765	64	NR	895	1	NR
380	0	NR	510	187	NR	640	995	NR	770	54	NR	900	1	NR
385	0	NR	515	210	NR	645	982	NR	775	46	NR	905	1	NR
390	0	NR	520	229	NR	650	959	NR	780	40	NR	910	1	NR
395	0	NR	525	245	NR	655	928	NR	785	33	NR	915	1	NR
400	0	NR	530	262	NR	660	886	NR	790	29	NR	920	1	NR
405	0	NR	535	277	NR	665	838	NR	795	24	NR	925	1	NR
410	1	NR	540	292	NR	670	779	NR	800	21	NR	930	1	NR
415	2	NR	545	308	NR	675	720	NR	805	18	NR	935	1	NR
420	4	NR	550	326	NR	680	662	NR	810	15	NR	940	1	NR
425	7	NR	555	346	NR	685	599	NR	815	13	NR	945	1	NR
430	11	NR	560	370	NR	690	540	NR	820	11	NR	950	1	NR
435	19	NR	565	396	NR	695	481	NR	825	10	NR	955	0	NR
440	32	NR	570	425	NR	700	428	NR	830	8	NR	960	1	NR
445	59	NR	575	457	NR	705	378	NR	835	7	NR	965	0	NR
450	94	NR	580	497	NR	710	330	NR	840	6	NR	970	1	NR
455	94	NR	585	539	NR	715	288	NR	845	5	NR	975	1	NR
460	75	NR	590	591	NR	720	251	NR	850	5	NR	980	1	NR
465	73	NR	595	649	NR	725	217	NR	855	4	NR	985	1	NR
470	68	NR	600	709	NR	730	188	NR	860	3	NR	990	1	NR
475	60	NR	605	777	NR	735	162	NR	865	3	NR	995	1	NR
480	63	NR	610	838	NR	740	138	NR	870	3	NR	1000	0	NR
485	74	NR	615	897	NR	745	119	NR	875	2	NR			

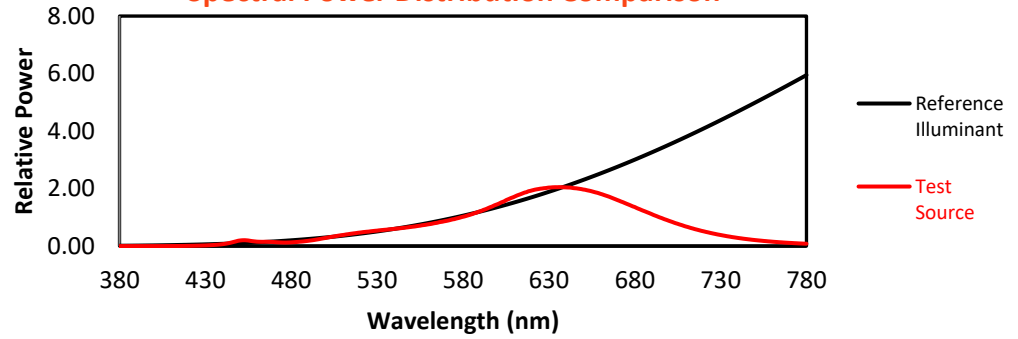
REPORT NUMBER: SP1-2506-468-18

TM-30-18

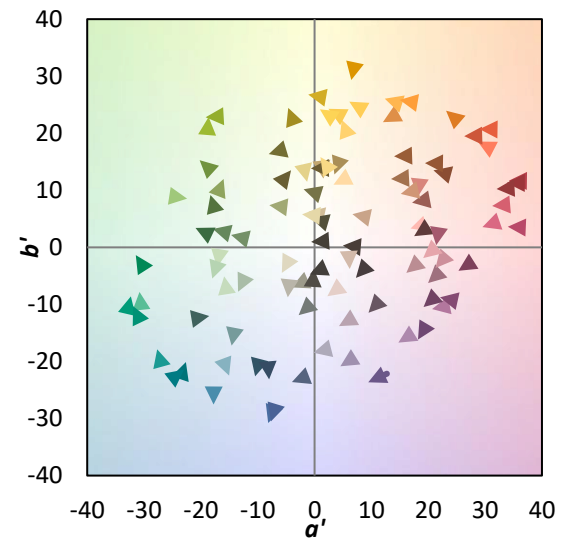
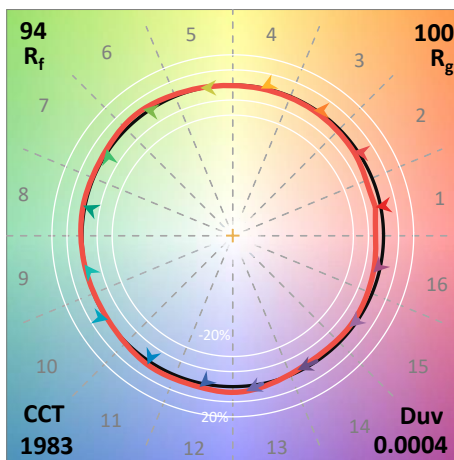
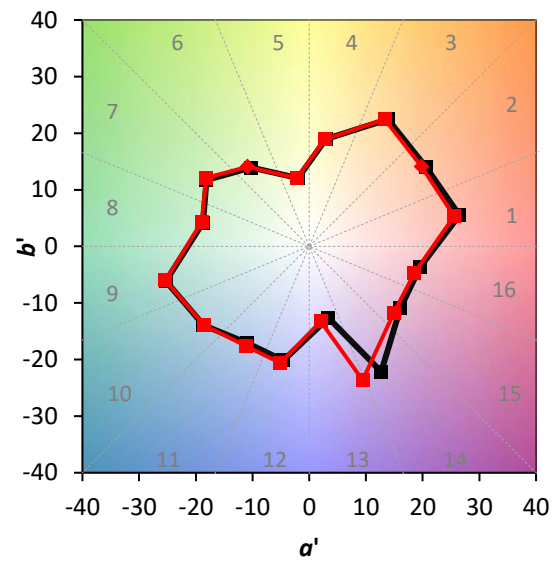
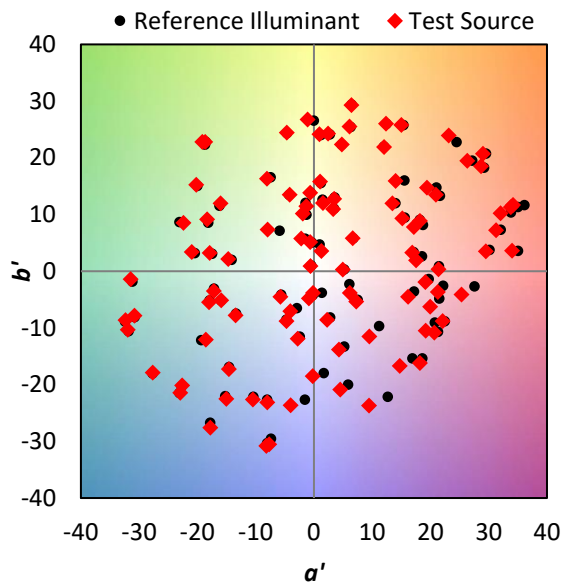
Summary

$R_f = 94.4$
 $R_g = 100.1$
 $CIE R_a = 95.7$
 $R_g = 69.2$

Spectral Power Distribution Comparison

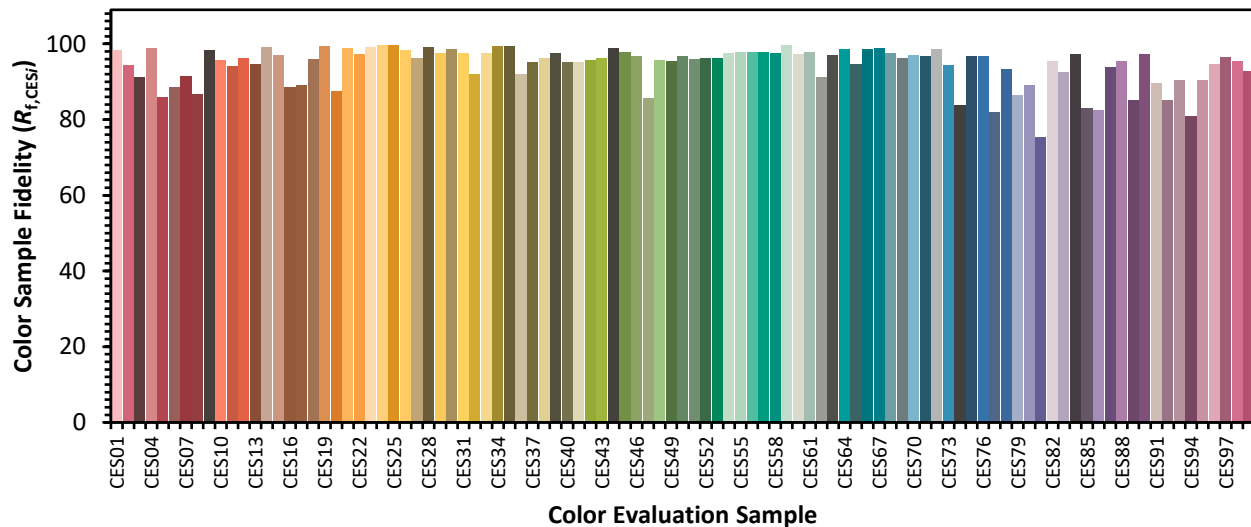


Color Vector Graphics

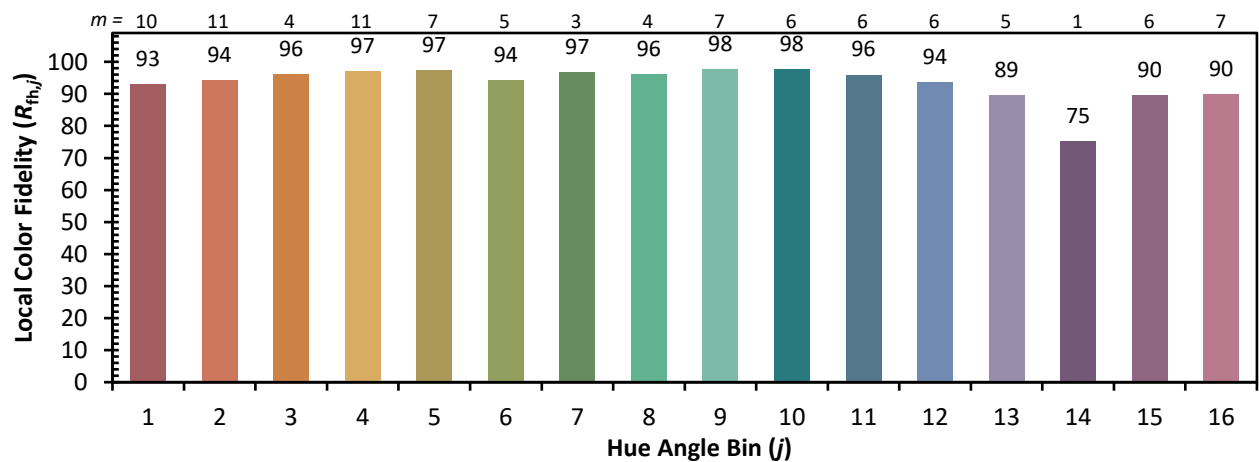
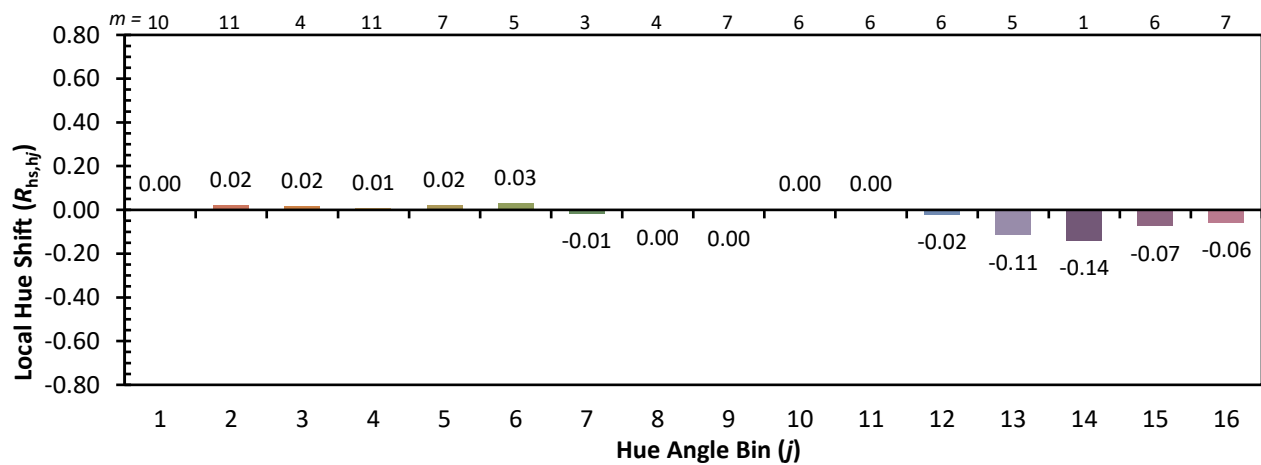
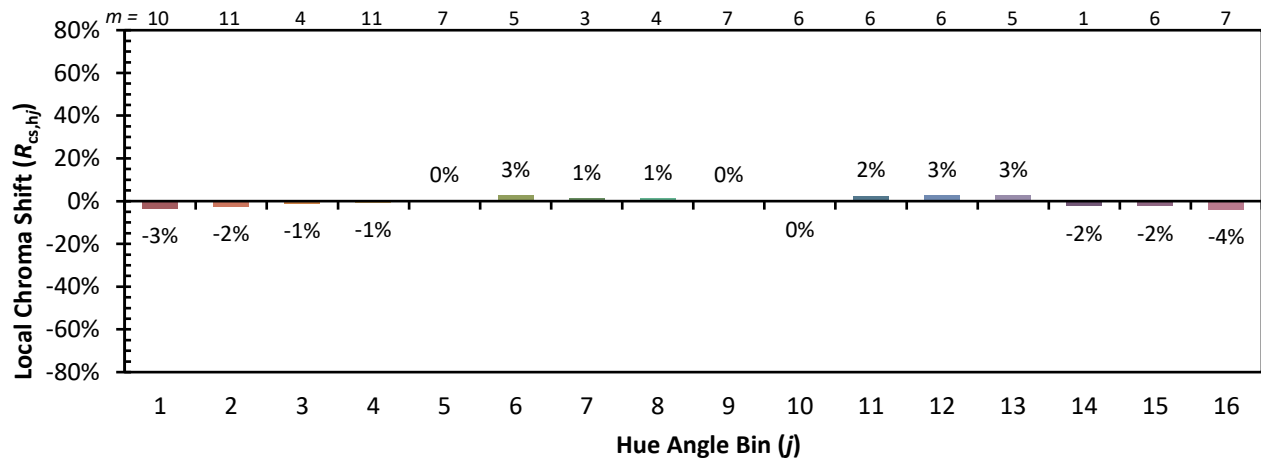


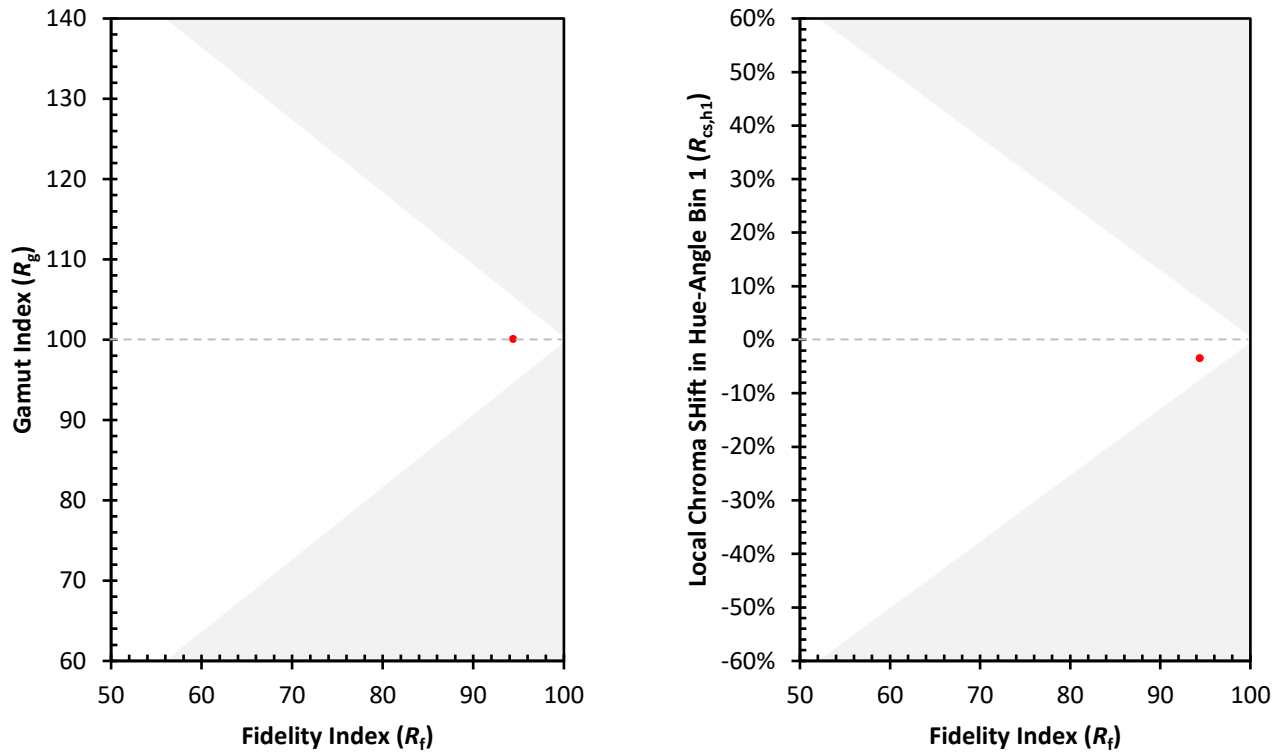
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 98	CES51 = 96	CES76 = 97
CES02 = 66	CES27 = 96	CES52 = 96	CES77 = 82
CES03 = 33	CES28 = 99	CES53 = 96	CES78 = 93
CES04 = 72	CES29 = 98	CES54 = 97	CES79 = 87
CES05 = 55	CES30 = 99	CES55 = 98	CES80 = 89
CES06 = 53	CES31 = 98	CES56 = 98	CES81 = 75
CES07 = 47	CES32 = 92	CES57 = 98	CES82 = 95
CES08 = 46	CES33 = 98	CES58 = 97	CES83 = 93
CES09 = 29	CES34 = 99	CES59 = 100	CES84 = 97
CES10 = 79	CES35 = 99	CES60 = 97	CES85 = 83
CES11 = 62	CES36 = 92	CES61 = 98	CES86 = 82
CES12 = 69	CES37 = 95	CES62 = 91	CES87 = 94
CES13 = 46	CES38 = 96	CES63 = 97	CES88 = 95
CES14 = 75	CES39 = 97	CES64 = 99	CES89 = 85
CES15 = 73	CES40 = 95	CES65 = 95	CES90 = 97
CES16 = 50	CES41 = 95	CES66 = 99	CES91 = 90
CES17 = 52	CES42 = 96	CES67 = 99	CES92 = 85
CES18 = 58	CES43 = 96	CES68 = 98	CES93 = 90
CES19 = 74	CES44 = 99	CES69 = 96	CES94 = 81
CES20 = 70	CES45 = 98	CES70 = 97	CES95 = 90
CES21 = 88	CES46 = 97	CES71 = 97	CES96 = 95
CES22 = 81	CES47 = 86	CES72 = 98	CES97 = 97
CES23 = 92	CES48 = 96	CES73 = 94	CES98 = 95
CES24 = 91	CES49 = 96	CES74 = 84	CES99 = 93
CES25 = 73	CES50 = 97	CES75 = 97	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)