

UGRA

Display Analysis & Certification Tool

Report

Basics

Date:	2022-12-26 14:28:13
Report-Version:	v2.0.0
Monitor-Name:	\\.\DISPLAY1
EDID-Name:	CG2700X
EDID-Serial:	
Profile:	C:/WINDOWS/system32/spool/.../CG2700X(20243082)09CAL.icc
Created:	2022-12-26 13:22
Measurement device:	i1Pro, Rev. 3, Serial: 1107951
Evaluation method:	UDACT v2.0

Summary

Calibration (Reference Whitepoint: 5800.00 Kelvin)

White Point	yes
Gray balance	yes
Tone values	yes
Profile quality	yes
Gamut ability	yes

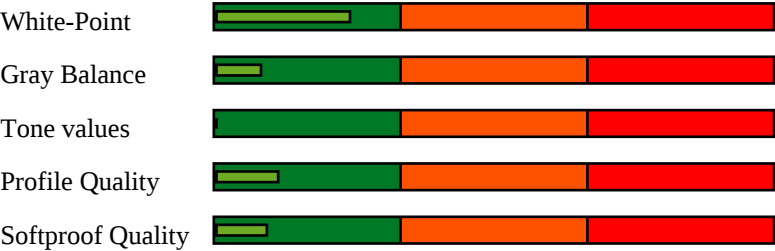


The monitor has passed the certification according to the UDACT v2.0 specifications.

Softproof quality (depends on the calibration verification)

ISO Coated v2 (FOGRA39L)	yes
sRGB	yes
AdobeRGB	yes
ECI-RGB v2.0	yes

Diagram



Whitepoint

The whitepoint should be as close as possible to the black body curve and the calibration target. The maximum allowed distance to the target whitepoint is 2.0 dE00.

XYZ (measured):	150.39 156.76 154.04
XYZ (normalized):	95.93 100.00 98.27
xy:	0.3261 0.3399
Luminance:	156.8 Cd/m2
Next Temperature:	5787 Kelvin
Reference Whitepoint:	5800.0 Kelvin
Deviation XYZ to Reference Whitepoint:	1.4 dE00
	1.1 dE76

Blackpoint

The blackpoint is not defined in ISO 12646. Therefore UDACT does only measure but not assess it.

Luminance:	0.1 Cd/m2
Chromaticity:	1.2 Chroma (Lab)

Gray balance

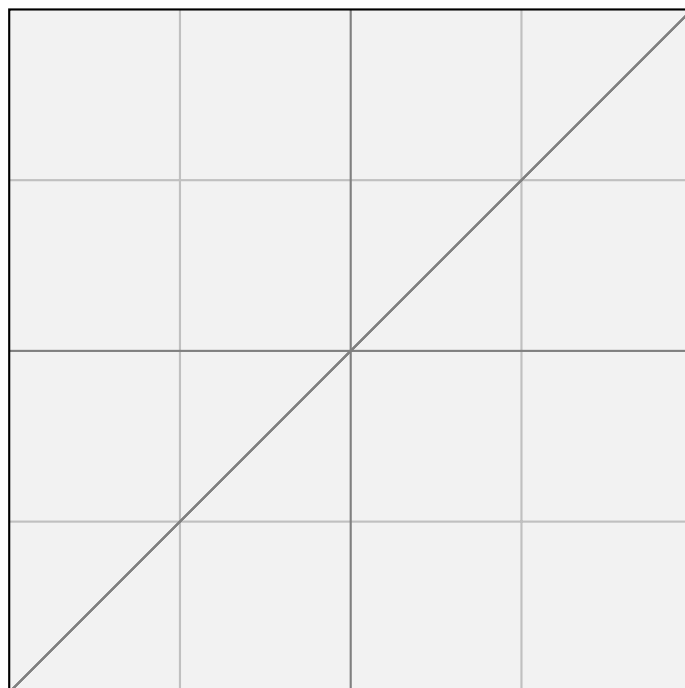
Average and maximum calculation will respect measurements with 1% minimum luminance only. The L-deviation shows the difference between the profile and measurement value.

The maximum allowed deviations to comply with this test are an average of 1.0 DeltaC, a range of 2.0 DeltaC. A maximum L-deviation of 2.3 dL00 in the luminance range of 20%-100% shall not be exceeded.

%	Kelvin	Cd/m2	L	Chroma	Gamma	Delta-L
0	10736	0.14	0.82	1.19		
5	6383	0.77	4.44	1.18	1.84	+0.8
10	5807	2.57	13.46	0.21	1.82	+0.7
15	5821	5.29	21.49	0.16	1.80	+0.5
20	5767	8.98	28.72	0.10	1.79	+0.6
25	5823	12.77	34.29	0.16	1.82	+0.2
30	5790	17.94	40.31	0.13	1.81	+0.2
35	5793	23.91	45.98	0.11	1.80	+0.3
40	5783	30.27	51.04	0.16	1.80	+0.1
45	5779	36.82	55.57	0.24	1.82	+0.0
50	5765	45.03	60.54	0.27	1.80	+0.2
55	5775	53.53	65.08	0.21	1.80	+0.1
60	5774	62.63	69.44	0.21	1.80	+0.1
65	5775	71.83	73.43	0.22	1.81	+0.1
70	5783	82.41	77.62	0.12	1.80	+0.1
75	5777	93.49	81.64	0.27	1.80	+0.1
80	5786	105.21	85.56	0.12	1.79	+0.1
85	5785	116.47	89.06	0.11	1.83	+0.1
90	5778	129.42	92.82	0.12	1.82	+0.1
95	5783	142.86	96.46	0.05	1.82	+0.0
100	5787	156.76	100.00	0.00		
Average	5782			0.15	1.81	0.1
Max				0.27		0.6
Range				0.43		

Tone values

This tests checks the calibration curves (vcgt) of the graphic card. Through the calibration of a display tone values can be lost. A display for the printing industry should show at least 95% of the incoming tone values.



Tone values = 100.0%

Profile Quality

This test displays and measures RGB values and compares them with the transformation of the profile. The maximum allowed deviations to comply with this test are an average of 2.0 dE00 and a maximum of 4.0 dE00.

The Lab values are calculated, based on the measured white point (xy: 0.3261 0.3399).

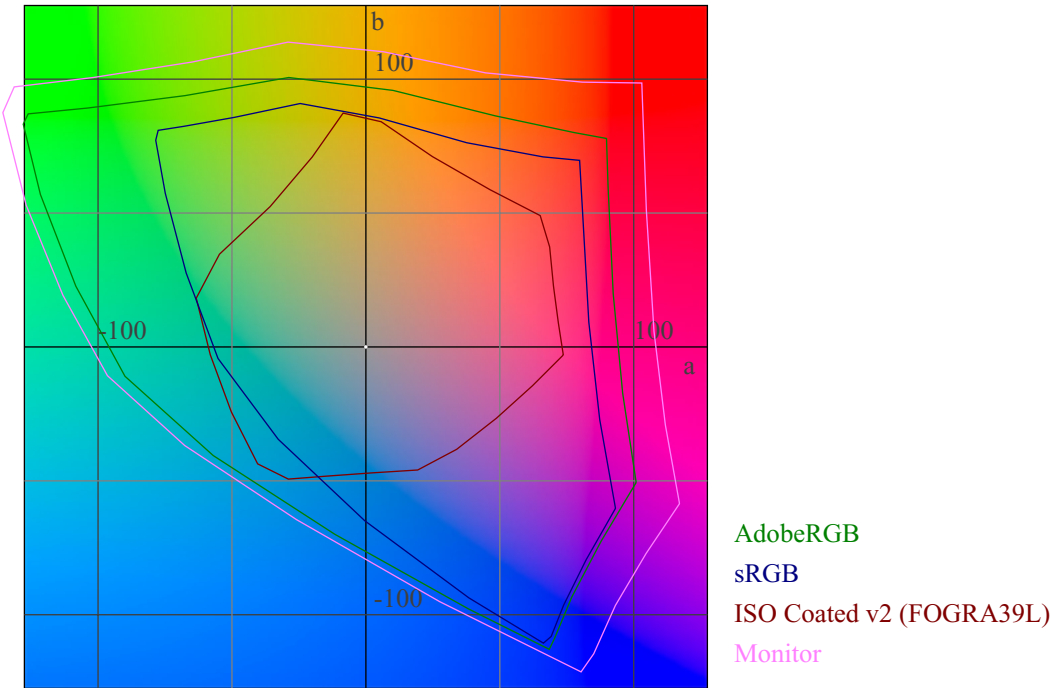
The assumed chromatic adaptation is: Bradford

RGB	Lab	deltaLab	dE76	dE00
0 0 0	0.8 0.5 -1.1	-0.8 -0.5 1.1	1.4	1.3
0 0 128	12.1 54.5 -80.0	-0.2 0.5 -1.3	1.4	0.4
0 0 255	25.8 84.9 -123.1	0.3 -1.8 0.1	1.8	0.7
0 128 0	50.8 -91.4 61.3	0.6 0.4 2.8	2.9	1.0
0 128 128	52.6 -60.3 -13.6	0.3 0.2 0.3	0.5	0.4
0 170 255	67.4 -43.8 -53.7	0.3 0.3 0.2	0.4	0.2
0 255 0	85.8 -140.0 94.9	0.1 2.5 2.0	3.2	0.7
0 255 170	86.9 -114.5 17.1	0.1 1.8 0.5	1.9	0.4
0 255 255	88.1 -92.3 -20.3	0.2 1.3 0.2	1.4	0.3
85 85 85	44.3 0.0 -0.1	-0.3 -0.0 0.1	0.3	0.3
128 0 0	33.9 67.9 55.6	-0.0 1.0 1.8	2.0	0.5
128 0 128	36.7 77.4 -38.2	-0.1 0.3 -0.7	0.8	0.2
128 128 0	59.3 -11.7 75.8	0.2 -0.2 1.6	1.7	0.4
128 128 128	60.8 0.2 -0.1	-0.1 -0.2 0.1	0.2	0.3
128 128 255	63.8 24.0 -59.2	-0.1 -0.3 -0.5	0.6	0.4
128 255 128	90.4 -76.8 43.9	0.0 0.1 0.9	1.0	0.3
170 0 255	49.5 102.2 -82.4	-0.0 -0.5 -0.4	0.7	0.2
170 170 170	75.1 0.2 -0.1	-0.1 -0.2 0.1	0.2	0.3
170 255 0	92.1 -63.6 105.8	0.0 0.6 1.4	1.5	0.4
170 255 255	94.2 -36.7 -9.9	0.0 -0.3 0.0	0.3	0.1
255 0 0	59.7 103.6 98.4	-0.4 0.6 0.5	0.9	0.4
255 0 170	61.7 110.7 -19.4	-0.2 0.2 -0.8	0.8	0.3
255 0 255	63.7 117.7 -58.1	-0.1 -0.2 -0.6	0.6	0.2
255 128 128	75.4 58.9 24.5	-0.3 0.4 -0.0	0.5	0.2
255 170 0	82.0 29.8 104.9	-0.1 0.0 0.6	0.6	0.1
255 170 255	84.6 47.2 -24.3	-0.2 0.2 -0.5	0.6	0.2
255 255 0	98.1 -18.4 116.2	0.0 0.4 0.9	1.0	0.3
255 255 170	99.0 -9.1 37.3	-0.0 0.1 0.7	0.7	0.3
255 255 255	100.0 0.0 0.0	0.0 0.0 -0.0	0.0	0.0
170 85 85	55.7 46.3 19.3	-0.4 0.4 0.1	0.6	0.4
85 170 85	67.3 -60.4 34.4	0.1 0.0 1.0	1.0	0.4
85 85 170	46.5 18.8 -46.6	-0.2 -0.2 -0.4	0.5	0.4
85 170 170	68.6 -43.2 -11.1	0.0 -0.3 0.2	0.4	0.2
170 85 170	57.3 55.5 -28.1	-0.4 0.3 -0.6	0.7	0.4
170 170 85	74.0 -9.7 45.5	-0.1 -0.1 0.9	0.9	0.3
Average			1.0	0.4
Maximum			3.2	1.3

Gamut-Volume

These measurements are only informative.

ISO Coated v2 (FOGRA39L)	100 %
sRGB	100 %
AdobeRGB	100 %
ECI-RGB v2.0	98 %



Softproof Quality

The measurements are converted to Lab values based on the measured whitepoint (xy: 0.3261 0.3399) and compared with the selected reference. The maximum allowed deviations to comply with this test are an average of 2.0 dE00 and a minimum Gamut volume of 90% for ISO Coated v2 (FOGRA39L).

		Limit	dE00
Average		2.0	0.4
Maximum		4.0	1.1
Primaries		5.0	1.1
Composite Gray Max		3.0	0.8

Reference (Lab)	Measurement (Lab)	Measurement (Yxy)	dE76	dE00
55.0 -37.0 -50.0	55.1 -34.0 -49.5	23.01 0.1711 0.2526	3.0	1.1
66.9 -24.7 -37.1	66.8 -24.0 -37.0	36.41 0.2282 0.2916	0.7	0.3
79.7 -12.5 -21.8	79.7 -12.4 -21.8	56.16 0.2859 0.3250	0.1	0.1
87.7 -5.8 -11.8	87.8 -5.9 -11.8	71.64 0.3167 0.3418	0.2	0.1
91.5 -3.0 -7.0	91.5 -3.0 -7.1	79.69 0.3297 0.3486	0.1	0.1
48.0 74.0 -3.0	48.4 73.2 -2.8	17.10 0.5074 0.2609	1.0	0.4
60.8 50.6 -6.7	61.1 50.7 -6.7	29.35 0.4302 0.2913	0.3	0.2
76.4 25.8 -6.9	76.7 25.8 -6.7	51.02 0.3757 0.3230	0.4	0.2
86.2 12.0 -5.2	86.2 12.5 -5.4	68.40 0.3552 0.3388	0.5	0.4
90.7 5.9 -3.9	90.6 6.0 -3.9	77.63 0.3479 0.3471	0.1	0.1
89.0 -5.0 93.0	89.2 -5.2 92.0	74.54 0.4587 0.4926	1.1	0.3
90.3 -4.7 62.6	90.4 -5.1 61.7	77.24 0.4290 0.4601	0.9	0.3
92.2 -3.5 31.1	92.4 -3.6 30.8	81.54 0.3889 0.4127	0.4	0.2
93.6 -1.6 13.3	93.6 -1.4 12.7	84.37 0.3640 0.3809	0.6	0.4
94.3 -0.9 5.4	94.4 -0.9 5.2	86.20 0.3527 0.3680	0.2	0.2
89.0 0.0 -1.8	89.0 0.2 -1.9	74.26 0.3427 0.3551	0.2	0.2
82.8 0.0 -1.7	82.9 0.3 -2.1	61.90 0.3424 0.3543	0.5	0.6
69.3 0.0 -1.4	69.3 -0.1 -1.2	39.83 0.3430 0.3559	0.1	0.1
54.1 0.0 -1.0	54.2 0.6 -1.3	22.14 0.3438 0.3544	0.7	0.9
36.6 -0.0 -0.5	36.8 0.3 -0.7	9.42 0.3442 0.3558	0.3	0.4
16.0 0.0 0.0	16.7 0.2 -0.3	2.24 0.3450 0.3566	0.8	0.6
10.4 13.9 1.4	11.3 13.4 1.2	1.31 0.4305 0.3234	1.1	0.7
33.4 25.4 20.9	33.8 24.4 21.0	7.92 0.4954 0.3721	1.1	0.7
34.4 -3.3 22.3	34.6 -3.2 21.2	8.29 0.4046 0.4388	1.1	0.6
24.0 22.0 -46.0	24.4 21.3 -44.9	4.21 0.2258 0.1655	1.3	0.4
40.9 17.9 -36.6	41.0 17.9 -36.3	11.88 0.2761 0.2321	0.3	0.2
63.7 10.3 -23.8	63.9 10.3 -23.7	32.70 0.3114 0.2957	0.2	0.2
79.4 5.1 -13.6	79.5 5.3 -13.5	55.88 0.3288 0.3281	0.2	0.3
87.2 2.6 -8.1	87.3 2.5 -8.0	70.63 0.3356 0.3423	0.2	0.2
47.0 68.0 48.0	47.5 67.3 48.5	16.40 0.6202 0.3324	1.0	0.6
58.5 47.1 37.9	58.8 46.7 37.6	26.84 0.5280 0.3649	0.6	0.3
74.2 22.9 21.4	74.3 23.1 21.2	47.11 0.4280 0.3734	0.3	0.2
85.0 10.0 9.8	85.1 10.1 9.6	66.28 0.3784 0.3664	0.3	0.2
90.0 4.7 3.7	90.0 4.9 3.3	76.28 0.3587 0.3602	0.4	0.4
50.0 -65.0 27.0	49.8 -64.9 26.1	18.21 0.2433 0.5501	0.9	0.4
62.1 -39.8 21.0	62.3 -39.6 20.4	30.71 0.3059 0.4613	0.7	0.3
77.0 -19.1 11.0	76.9 -18.7 10.5	51.40 0.3330 0.3986	0.7	0.4
86.3 -8.4 4.2	86.3 -7.9 3.8	68.62 0.3399 0.3723	0.6	0.5
90.8 -4.1 0.9	91.0 -4.1 1.1	78.44 0.3415 0.3637	0.3	0.2
88.5 -0.4 -3.1	88.6 -0.5 -3.1	73.36 0.3397 0.3534	0.1	0.1

82.0 -0.9 -4.1	82.0 -0.6 -4.4	60.37 0.3368 0.3508	0.4	0.5
67.7 -2.0 -4.4	67.7 -1.8 -4.6	37.53 0.3326 0.3502	0.3	0.3
52.2 -2.5 -3.5	52.4 -2.7 -3.4	20.53 0.3305 0.3525	0.3	0.4
37.5 -3.9 -3.1	37.7 -4.3 -2.9	9.93 0.3237 0.3552	0.6	0.7
26.3 -6.8 -3.4	26.9 -7.1 -2.8	5.06 0.3084 0.3597	0.9	0.8
10.4 -8.2 -10.2	11.3 -8.3 -10.0	1.31 0.2392 0.3085	1.0	0.6
24.3 32.7 13.1	24.8 32.4 12.8	4.34 0.5246 0.3274	0.6	0.4
24.7 -17.0 7.5	25.0 -17.4 7.2	4.43 0.3065 0.4338	0.6	0.5
23.0 0.0 0.0	23.4 0.1 -0.1	3.91 0.3459 0.3578	0.4	0.3
38.5 6.6 3.9	38.9 6.4 4.3	10.58 0.3781 0.3619	0.5	0.5
61.5 5.4 3.8	61.5 5.7 3.5	29.86 0.3654 0.3602	0.4	0.4
78.1 2.9 0.9	78.2 3.0 0.9	53.50 0.3523 0.3575	0.1	0.1
86.6 1.5 -0.7	86.6 1.3 -0.7	69.27 0.3465 0.3563	0.2	0.3
53.1 37.7 28.9	53.5 36.9 28.9	21.46 0.5011 0.3668	0.9	0.5
41.5 22.7 16.8	41.7 22.6 16.6	12.32 0.4586 0.3663	0.3	0.2
31.9 40.0 24.0	32.3 39.2 24.2	7.22 0.5556 0.3433	0.8	0.5
32.5 44.4 -1.8	32.9 43.5 -1.5	7.50 0.4750 0.2806	1.0	0.5
51.3 1.3 44.5	51.4 1.1 43.9	19.58 0.4487 0.4599	0.7	0.2
34.6 -36.4 13.9	34.7 -35.9 13.1	8.35 0.2719 0.4834	0.9	0.4
36.0 -26.2 -20.9	36.0 -26.3 -21.0	9.01 0.2064 0.3111	0.2	0.1
20.9 9.6 -23.6	21.5 9.8 -23.3	3.38 0.2719 0.2365	0.7	0.5
71.2 18.8 17.3	71.4 19.1 17.1	42.78 0.4152 0.3714	0.3	0.2
71.2 22.2 73.1	71.4 22.5 72.1	42.79 0.5067 0.4416	1.0	0.4
47.7 71.2 16.2	48.2 70.8 16.8	16.95 0.5597 0.2929	0.8	0.5
38.0 55.4 -20.9	38.4 55.3 -20.6	10.29 0.4218 0.2317	0.5	0.3
73.7 -22.8 67.6	73.7 -23.2 66.4	46.28 0.4098 0.5118	1.2	0.5
52.3 -52.3 -20.2	52.3 -52.7 -20.1	20.40 0.1867 0.3501	0.4	0.2
43.3 -17.0 -48.6	43.5 -17.8 -48.1	13.47 0.1769 0.2276	0.9	0.4
95.0 0.0 -2.0	95.1 0.1 -1.9	87.77 0.3428 0.3553	0.2	0.2
15.7 -3.1 11.7	16.4 -2.3 11.2	2.19 0.3922 0.4274	1.2	1.1
34.7 28.5 -4.0	35.0 28.2 -3.8	8.51 0.4168 0.3009	0.5	0.3
25.8 -11.0 -14.4	26.2 -10.2 -14.4	4.80 0.2511 0.3099	0.9	0.7
Average			0.6	0.4
Gamut-Volume				100 %

Measurement Data

This table lists all RGB measurements. The XYZ values represent the values from the measurement device.

RGB	XYZ	Yxy
255 255 255	150.39 156.76 154.04	156.76 0.3261 0.3399
0 0 0	0.16 0.14 0.24	0.14 0.2896 0.2617
12 12 12	0.75 0.77 0.87	0.77 0.3158 0.3220
25 25 25	2.47 2.57 2.55	2.57 0.3257 0.3384
38 38 38	5.06 5.29 5.20	5.29 0.3253 0.3401
51 51 51	8.63 8.98 8.82	8.98 0.3265 0.3399
63 63 63	12.23 12.77 12.60	12.77 0.3253 0.3396
76 76 76	17.22 17.94 17.67	17.94 0.3260 0.3395
89 89 89	22.96 23.91 23.56	23.91 0.3260 0.3395
102 102 102	29.08 30.27 29.80	30.27 0.3262 0.3395
114 114 114	35.39 36.82 36.27	36.82 0.3263 0.3394
127 127 127	43.30 45.03 44.27	45.03 0.3266 0.3396
140 140 140	51.44 53.53 52.66	53.53 0.3264 0.3396
153 153 153	60.18 62.63 61.59	62.63 0.3264 0.3396
165 165 165	69.03 71.83 70.65	71.83 0.3264 0.3396
178 178 178	79.12 82.41 81.05	82.41 0.3262 0.3397
191 191 191	89.86 93.49 92.02	93.49 0.3263 0.3395
204 204 204	101.00 105.21 103.51	105.21 0.3261 0.3397
216 216 216	111.81 116.47 114.56	116.47 0.3261 0.3397
229 229 229	124.25 129.42 127.13	129.42 0.3263 0.3399
242 242 242	137.05 142.86 140.27	142.86 0.3262 0.3400
0 0 128	7.63 2.56 41.02	2.56 0.1490 0.0500
0 0 255	26.41 8.53 144.10	8.53 0.1475 0.0476
0 128 0	8.67 29.92 2.72	29.92 0.2099 0.7242
0 128 128	16.38 32.80 44.17	32.80 0.1755 0.3514
0 170 255	40.97 59.38 148.48	59.38 0.1647 0.2387
0 255 0	30.43 105.92 9.05	105.92 0.2093 0.7285
0 255 170	43.17 110.08 78.67	110.08 0.1861 0.4746
0 255 255	56.79 114.45 153.17	114.45 0.1751 0.3528
85 85 85	21.10 21.99 21.70	21.99 0.3257 0.3394
128 0 0	26.58 12.11 0.33	12.11 0.6811 0.3104
128 0 128	34.45 14.68 41.63	14.68 0.3796 0.1617
128 128 0	35.66 42.47 2.79	42.47 0.4406 0.5249
128 128 128	43.77 45.54 44.82	45.54 0.3263 0.3395
128 128 255	62.68 51.81 147.20	51.81 0.2395 0.1980
128 255 128	65.75 120.89 51.57	120.89 0.2760 0.5075
170 0 255	71.31 28.85 144.58	28.85 0.2914 0.1179
170 170 170	72.84 75.82 74.63	75.82 0.3262 0.3396
170 255 0	75.64 126.35 9.14	126.35 0.3583 0.5984
170 255 255	102.53 135.07 153.72	135.07 0.2620 0.3452
255 0 0	93.32 42.40 0.63	42.40 0.6844 0.3110
255 0 170	105.92 46.38 69.99	46.38 0.4765 0.2086
255 0 255	119.59 50.73 144.91	50.73 0.3794 0.1609
255 128 128	110.02 75.75 45.42	75.75 0.4759 0.3276
255 170 0	107.96 93.17 4.73	93.17 0.5244 0.4526
255 170 255	134.67 102.33 149.47	102.33 0.3485 0.2648
255 255 0	123.72 148.04 9.22	148.04 0.4403 0.5269
255 255 170	136.74 152.31 79.94	152.31 0.3706 0.4128
170 85 85	53.24 36.65 21.98	36.65 0.4759 0.3276
85 170 85	31.54 58.11 24.79	58.11 0.2756 0.5078
85 85 170	30.18 24.92 71.14	24.92 0.2390 0.1974

85 170 170	40.77 61.21 74.36	61.21 0.2312 0.3471
170 85 170	62.28 39.59 71.39	39.59 0.3595 0.2285
170 170 85	63.70 72.79 25.11	72.79 0.3942 0.4504
0 130 203	26.47 36.87 98.30	36.87 0.1638 0.2281
86 159 217	46.38 57.80 112.18	57.80 0.2144 0.2672
154 193 230	78.42 88.55 125.74	88.55 0.2679 0.3025
196 216 237	104.34 112.61 133.79	112.61 0.2975 0.3211
216 227 240	118.04 125.11 137.39	125.11 0.3102 0.3288
170 42 102	51.45 26.44 28.58	26.44 0.4832 0.2484
185 97 142	67.36 45.73 52.60	45.73 0.4065 0.2760
206 160 189	92.59 79.85 89.05	79.85 0.3541 0.3054
221 199 218	112.00 107.20 115.47	107.20 0.3347 0.3203
228 218 230	121.53 121.71 127.44	121.71 0.3279 0.3283
236 216 43	105.16 115.86 13.17	115.86 0.4490 0.4947
236 221 99	109.77 120.26 34.27	120.26 0.4153 0.4550
236 228 163	118.24 127.32 72.91	127.32 0.3713 0.3998
236 232 204	125.00 132.03 105.38	132.03 0.3449 0.3643
236 235 223	128.55 135.03 122.14	135.03 0.3333 0.3501
215 216 220	111.90 116.45 118.07	116.45 0.3230 0.3361
194 195 199	93.40 97.08 98.97	97.08 0.3227 0.3354
152 153 155	59.92 62.45 62.93	62.45 0.3234 0.3370
110 110 112	33.52 34.71 35.20	34.71 0.3241 0.3356
68 68 69	14.23 14.78 14.85	14.78 0.3245 0.3370
30 30 30	3.38 3.51 3.50	3.51 0.3253 0.3378
30 18 21	2.69 2.03 1.86	2.03 0.4087 0.3088
87 50 37	16.13 12.27 5.26	12.27 0.4792 0.3645
66 64 37	11.71 12.93 5.48	12.93 0.3886 0.4293
39 38 104	9.62 6.80 29.06	6.80 0.2115 0.1495
78 72 135	22.86 18.85 47.19	18.85 0.2572 0.2121
137 133 181	54.58 51.50 81.30	51.50 0.2913 0.2749
184 182 212	87.98 87.78 109.25	87.78 0.3087 0.3080
209 209 227	108.46 110.85 124.20	110.85 0.3157 0.3227
169 44 33	46.61 25.14 4.43	25.14 0.6118 0.3301
184 92 66	59.34 41.49 14.71	41.49 0.5136 0.3591
205 153 129	83.16 73.38 46.75	73.38 0.4091 0.3610
221 196 183	106.13 103.64 86.17	103.64 0.3586 0.3502
228 216 212	118.21 119.46 111.17	119.46 0.3389 0.3424
35 119 58	12.37 28.61 12.58	28.61 0.2309 0.5342
93 148 96	31.46 48.16 28.72	48.16 0.2904 0.4445
156 185 155	66.72 80.58 64.47	80.58 0.3150 0.3805
197 211 198	97.62 107.58 99.01	107.58 0.3209 0.3536
217 225 220	114.85 122.99 118.67	122.99 0.3222 0.3450
212 215 221	110.18 115.07 119.00	115.07 0.3201 0.3343
189 193 201	90.64 94.72 100.46	94.72 0.3171 0.3314
143 149 156	55.79 58.90 63.51	58.90 0.3131 0.3305
101 107 111	30.12 32.22 34.48	32.22 0.3111 0.3328
65 72 74	14.18 15.60 16.77	15.60 0.3046 0.3351
41 50 51	6.81 7.96 8.72	7.96 0.2900 0.3387
13 24 31	1.64 2.08 3.59	2.08 0.2245 0.2840
71 29 31	10.66 6.70 3.68	6.70 0.5067 0.3186
33 49 36	4.85 6.94 4.92	6.94 0.2902 0.4154
41 41 41	5.89 6.13 6.04	6.13 0.3262 0.3392
80 70 67	17.14 16.54 14.18	16.54 0.3582 0.3455
138 127 124	47.08 46.73 42.47	46.73 0.3455 0.3429
184 178 178	82.16 83.83 81.12	83.83 0.3325 0.3392
209 207 209	105.09 108.59 107.96	108.59 0.3267 0.3376

155 86 66	44.90 33.25 14.43	33.25 0.4849 0.3592
105 68 57	23.69 19.14 10.99	19.14 0.4401 0.3557
96 38 32	17.86 11.14 3.99	11.14 0.5415 0.3376
97 37 63	19.66 11.63 12.26	11.63 0.4513 0.2671
115 101 40	29.08 30.46 7.15	30.46 0.4360 0.4567
35 74 46	7.27 13.12 7.83	13.12 0.2577 0.4649
27 76 96	9.79 14.32 26.14	14.32 0.1949 0.2850
37 36 66	6.28 5.36 13.16	5.36 0.2534 0.2161
189 147 128	73.78 66.70 45.86	66.70 0.3959 0.3580
204 143 41	74.56 66.31 9.13	66.31 0.4970 0.4421
171 43 73	49.71 26.10 16.06	26.10 0.5412 0.2841
117 40 103	29.36 16.07 28.92	16.07 0.3949 0.2161
157 175 50	56.20 72.12 12.83	72.12 0.3981 0.5109
15 125 138	17.83 32.38 50.41	32.38 0.1772 0.3218
20 93 163	17.82 21.64 66.05	21.64 0.1689 0.2051
236 237 241	132.21 137.63 139.25	137.63 0.3232 0.3364
30 30 19	3.08 3.41 1.71	3.41 0.3753 0.4158
88 51 70	18.33 13.27 14.95	13.27 0.3937 0.2851
32 50 64	6.26 7.60 12.73	7.60 0.2354 0.2859