UGRA
Display Analysis & Certification Tool
Report

Basics

Date:	2014-8-26 00:48:29
Report-Version:	v2.0.0
Monitor-Name:	\\.\DISPLAY1
EDID-Name:	CG248
EDID-Serial:	
Profile:	C:/Windows/system32/spool/drivers/.../CG248(20257075)00000016.icc
Created:	2015-8-25 22:44
Measurement device:	i1Pro, Rev. 3, Serial: 342165
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

Softproof quality (depends on the calibration verification)

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

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

Diagram

White-Point

Gray Balance

Tone values

Profile Quality

Softproof Quality

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):	133.06 139.59 135.68
XYZ (normalized):	95.33 100.00 97.21
xy:	0.3259 0.3418
Luminance:	139.6 Cd/m2
Next Temperature:	5793 Kelvin
Reference Whitepoint:	5800.0 Kelvin
Deviation XYZ to Reference Whitepoint:	0.3 dE00
	0.2 dE76

Blackpoint

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

Luminance:	0.2 Cd/m2
Chromaticity:	1.2 Chroma (Lab)

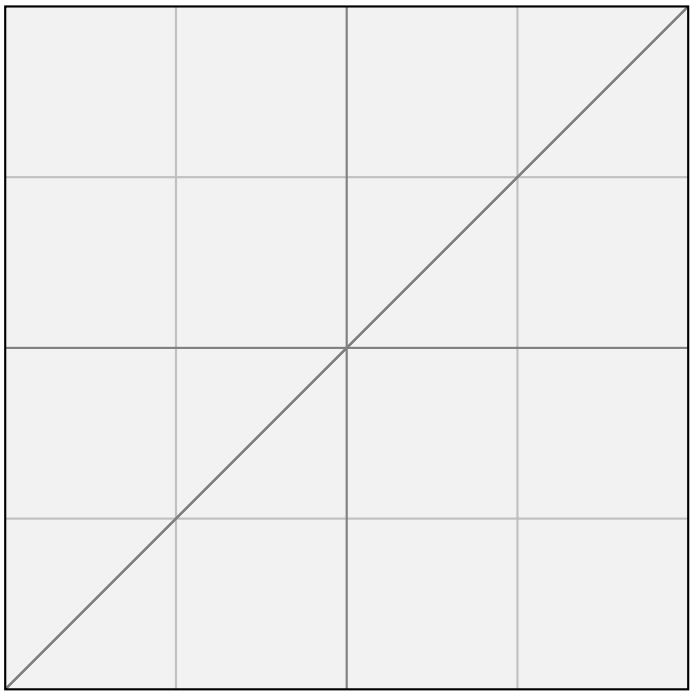
Gray balance

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	11174	0.16	1.02	1.19		
5	5708	0.81	5.27	0.14	1.81	+1.6
10	5775	2.34	13.68	0.24	1.82	+0.9
15	5784	4.80	21.71	0.12	1.80	+0.7
20	5821	7.83	28.40	0.11	1.80	+0.2
25	5815	11.31	34.20	0.14	1.82	+0.1
30	5824	15.80	40.12	0.16	1.82	+0.0
35	5806	21.09	45.78	0.11	1.81	+0.1
40	5826	26.79	50.91	0.20	1.81	-0.0
45	5812	32.75	55.55	0.12	1.82	-0.0
50	5815	39.68	60.27	0.20	1.82	-0.1
55	5798	47.46	64.96	0.06	1.81	+0.0
60	5803	55.70	69.40	0.08	1.80	+0.0
65	5805	63.68	73.30	0.10	1.83	-0.0
70	5804	73.04	77.48	0.09	1.82	-0.0
75	5803	82.87	81.50	0.10	1.82	-0.0
80	5801	93.34	85.44	0.11	1.81	-0.0
85	5803	103.51	88.99	0.16	1.85	-0.0
90	5800	115.00	92.74	0.08	1.84	-0.0
95	5798	126.98	96.40	0.06	1.84	-0.0
100	5793	139.59	100.00	0.00		
Average	5807			0.11	1.82	0.0
Max				0.20		0.2
Range				0.37		

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: 0.3259 0.3418).

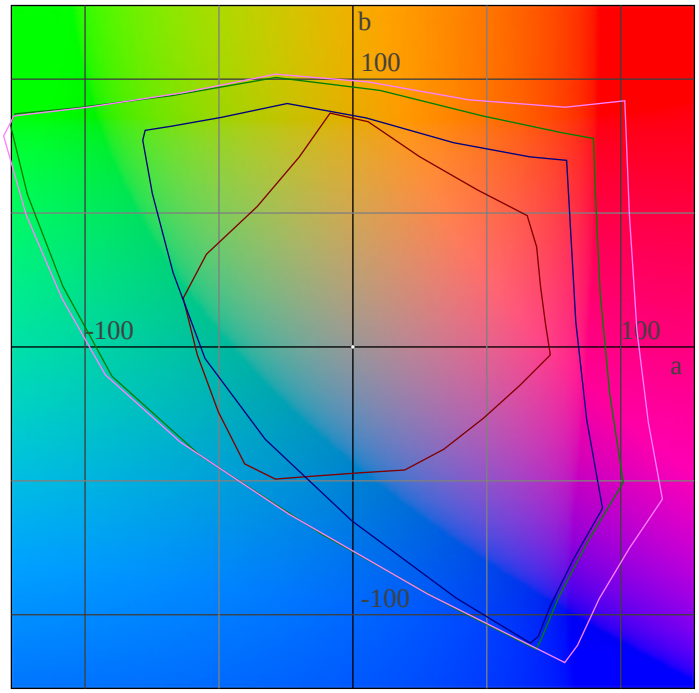
The assumed chromatic adaptation is: Bradford

RGB	Lab	deltaLab	dE76	dE00
0 0 0	1.0 0.2 -1.2	-1.0 -0.2 1.2	1.6	1.3
0 0 128	12.7 52.7 -78.1	-0.4 1.4 -0.9	1.7	0.5
0 0 255	27.1 81.6 -119.3	-0.2 0.2 -0.2	0.4	0.2
0 128 0	51.4 -86.7 55.6	0.1 -0.8 1.3	1.6	0.3
0 128 128	53.1 -57.2 -12.7	0.0 -0.3 -0.1	0.3	0.1
0 170 255	67.8 -41.2 -51.9	0.1 0.2 0.2	0.3	0.1
0 255 0	86.1 -132.4 85.9	-0.1 0.1 0.2	0.2	0.1
0 255 170	87.3 -108.6 16.7	-0.0 0.4 -0.2	0.5	0.1
0 255 255	88.5 -87.2 -19.5	-0.0 0.2 0.0	0.2	0.1
85 85 85	44.1 -0.0 -0.2	-0.1 0.0 0.2	0.2	0.2
128 0 0	33.5 67.2 52.8	0.0 0.7 2.4	2.5	0.8
128 0 128	36.4 76.2 -37.8	0.0 0.6 0.1	0.6	0.2
128 128 0	59.3 -11.8 68.4	0.1 -0.1 0.9	0.9	0.2
128 128 128	60.7 -0.1 -0.1	0.1 0.1 0.1	0.2	0.2
128 128 255	63.7 23.6 -58.1	0.1 0.0 0.3	0.3	0.2
128 255 128	90.5 -74.8 42.2	-0.1 0.4 -0.1	0.4	0.1
170 0 255	49.4 100.5 -81.0	0.1 -0.1 0.3	0.4	0.1
170 170 170	74.9 -0.0 -0.0	0.0 0.0 0.0	0.1	0.1
170 255 0	92.2 -61.8 95.8	-0.0 0.1 -0.1	0.2	0.0
170 255 255	94.4 -35.8 -9.6	-0.0 0.1 0.1	0.1	0.0
255 0 0	58.9 102.7 92.4	-0.1 0.0 0.0	0.1	0.1
255 0 170	61.1 109.4 -19.4	-0.1 -0.0 0.0	0.1	0.0
255 0 255	63.2 116.3 -57.3	0.0 -0.3 0.2	0.4	0.1
255 128 128	74.9 58.2 23.8	-0.0 -0.2 -0.1	0.2	0.1
255 170 0	81.6 29.1 95.3	0.0 -0.3 -0.3	0.5	0.1
255 170 255	84.4 46.7 -23.9	-0.0 -0.1 0.1	0.2	0.1
255 255 0	98.1 -18.0 105.3	-0.0 -0.1 -0.4	0.5	0.1
255 255 170	99.0 -9.0 36.3	-0.0 -0.0 -0.1	0.1	0.0
255 255 255	100.0 0.0 0.0	0.0 0.0 0.0	0.0	0.0
170 85 85	55.1 45.6 18.7	0.0 0.1 0.0	0.1	0.0
85 170 85	67.5 -58.8 33.2	-0.0 0.1 -0.0	0.1	0.0
85 85 170	46.5 18.6 -45.5	-0.1 0.1 0.0	0.1	0.1
85 170 170	68.7 -42.0 -10.5	0.0 0.2 0.0	0.2	0.1
170 85 170	56.9 54.8 -27.8	0.0 0.0 0.1	0.1	0.1
170 170 85	73.8 -9.9 43.8	0.0 0.0 -0.0	0.1	0.0
Average			0.4	0.2
Maximum			2.5	1.3

Gamut-Volume

These measurements are only informative.

ISO Coated v2 (FOGRA39L)	99 %
sRGB	100 %
AdobeRGB	100 %
ECI-RGB v2.0	94 %



AdobeRGB
sRGB
ISO Coated v2 (FOGRA39L)
Monitor

Softproof Quality

The measurements are converted to Lab values based on the measured whitepoint (xy: 0.3259 0.3418) 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	2.3
Primaries		5.0	2.3
Composite Gray Max		3.0	0.6

Reference (Lab)	Measurement (Lab)	Measurement (Yxy)	dE76	dE00
55.0 -37.0 -50.0	55.7 -30.9 -48.8	23.65 0.1783 0.2538	6.2	2.3
66.9 -24.7 -37.1	66.8 -24.9 -37.1	36.37 0.2265 0.2918	0.2	0.1
79.7 -12.5 -21.8	79.6 -12.7 -21.9	56.04 0.2854 0.3250	0.2	0.1
87.7 -5.8 -11.8	87.7 -6.4 -11.6	71.52 0.3162 0.3425	0.7	0.7
91.5 -3.0 -7.0	91.5 -3.1 -6.9	79.63 0.3297 0.3490	0.2	0.2
48.0 74.0 -3.0	48.0 73.5 -3.3	16.81 0.5074 0.2592	0.6	0.2
60.8 50.6 -6.7	60.9 50.8 -7.0	29.12 0.4299 0.2906	0.3	0.1
76.4 25.8 -6.9	76.4 26.1 -7.1	50.55 0.3756 0.3220	0.4	0.2
86.2 12.0 -5.2	86.0 12.0 -5.3	68.08 0.3547 0.3393	0.2	0.1
90.7 5.9 -3.9	90.6 6.3 -4.1	77.69 0.3480 0.3466	0.4	0.4
89.0 -5.0 93.0	89.1 -5.1 93.5	74.35 0.4602 0.4936	0.5	0.1
90.3 -4.7 62.6	90.4 -4.9 63.0	77.25 0.4309 0.4614	0.5	0.2
92.2 -3.5 31.1	92.3 -3.6 31.3	81.44 0.3896 0.4136	0.2	0.1
93.6 -1.6 13.3	93.6 -1.5 13.4	84.30 0.3651 0.3822	0.2	0.2
94.3 -0.9 5.4	94.4 -1.2 5.6	86.15 0.3529 0.3688	0.3	0.4
89.0 0.0 -1.8	89.0 -0.1 -1.9	74.21 0.3425 0.3553	0.1	0.1
82.8 0.0 -1.7	82.7 -0.0 -2.0	61.65 0.3421 0.3549	0.3	0.3
69.3 0.0 -1.4	69.4 -0.3 -1.2	39.84 0.3427 0.3562	0.3	0.4
54.1 0.0 -1.0	54.1 0.1 -1.1	22.07 0.3432 0.3554	0.2	0.3
36.6 -0.0 -0.5	36.6 0.3 -0.8	9.34 0.3439 0.3554	0.4	0.5
16.0 0.0 0.0	16.6 -0.2 -0.2	2.23 0.3441 0.3581	0.7	0.5
10.4 13.9 1.4	11.6 12.0 1.3	1.34 0.4224 0.3285	2.3	1.7
33.4 25.4 20.9	33.6 24.5 20.3	7.81 0.4944 0.3703	1.0	0.4
34.4 -3.3 22.3	34.6 -2.8 22.1	8.29 0.4085 0.4404	0.5	0.5
24.0 22.0 -46.0	24.5 21.2 -45.2	4.25 0.2250 0.1654	1.3	0.5
40.9 17.9 -36.6	40.9 18.0 -36.7	11.83 0.2753 0.2309	0.2	0.1
63.7 10.3 -23.8	63.6 10.9 -23.9	32.36 0.3121 0.2948	0.6	0.4
79.4 5.1 -13.6	79.4 5.2 -13.6	55.70 0.3284 0.3281	0.1	0.1
87.2 2.6 -8.1	87.2 2.4 -8.2	70.45 0.3350 0.3419	0.3	0.4
47.0 68.0 48.0	47.1 67.9 47.5	16.07 0.6212 0.3301	0.6	0.2
58.5 47.1 37.9	58.5 46.7 37.9	26.51 0.5292 0.3652	0.4	0.2
74.2 22.9 21.4	74.2 22.9 21.6	47.09 0.4285 0.3742	0.2	0.1
85.0 10.0 9.8	85.0 9.9 9.9	66.10 0.3789 0.3672	0.2	0.2
90.0 4.7 3.7	90.0 4.9 3.9	76.28 0.3596 0.3611	0.2	0.2
50.0 -65.0 27.0	50.2 -64.2 26.7	18.61 0.2466 0.5496	0.8	0.3
62.1 -39.8 21.0	62.3 -39.8 20.9	30.77 0.3064 0.4629	0.2	0.2
77.0 -19.1 11.0	77.1 -19.6 11.2	51.62 0.3327 0.4011	0.6	0.3
86.3 -8.4 4.2	86.3 -8.1 3.8	68.52 0.3397 0.3725	0.5	0.4
90.8 -4.1 0.9	90.9 -4.7 1.0	78.21 0.3404 0.3640	0.6	0.6
88.5 -0.4 -3.1	88.6 -0.7 -3.0	73.31 0.3396 0.3537	0.3	0.4

82.0 -0.9 -4.1	82.0 -0.8 -4.2	60.23 0.3368 0.3514	0.1	0.1
67.7 -2.0 -4.4	67.7 -2.0 -4.4	37.56 0.3325 0.3508	0.1	0.1
52.2 -2.5 -3.5	52.3 -2.9 -3.4	20.45 0.3302 0.3528	0.4	0.5
37.5 -3.9 -3.1	37.6 -4.3 -2.8	9.87 0.3240 0.3553	0.5	0.6
26.3 -6.8 -3.4	26.8 -6.8 -2.8	5.02 0.3095 0.3590	0.8	0.6
10.4 -8.2 -10.2	11.8 -7.6 -9.3	1.37 0.2481 0.3130	1.8	1.2
24.3 32.7 13.1	24.5 31.7 12.1	4.27 0.5202 0.3274	1.4	0.7
24.7 -17.0 7.5	25.0 -16.8 7.4	4.40 0.3097 0.4338	0.4	0.2
23.0 0.0 0.0	23.2 -0.2 0.1	3.87 0.3451 0.3593	0.3	0.4
38.5 6.6 3.9	38.7 6.1 3.9	10.46 0.3762 0.3613	0.5	0.5
61.5 5.4 3.8	61.5 6.0 3.6	29.83 0.3661 0.3600	0.6	0.7
78.1 2.9 0.9	78.1 3.2 0.9	53.41 0.3528 0.3574	0.3	0.4
86.6 1.5 -0.7	86.5 1.0 -0.7	69.09 0.3461 0.3565	0.4	0.6
53.1 37.7 28.9	53.1 38.0 28.6	21.13 0.5038 0.3643	0.4	0.3
41.5 22.7 16.8	41.6 22.6 16.2	12.22 0.4578 0.3655	0.6	0.4
31.9 40.0 24.0	32.1 39.0 23.3	7.13 0.5530 0.3420	1.2	0.4
32.5 44.4 -1.8	32.8 43.3 -2.1	7.43 0.4724 0.2792	1.2	0.5
51.3 1.3 44.5	51.3 1.1 44.1	19.56 0.4490 0.4605	0.4	0.2
34.6 -36.4 13.9	34.7 -35.1 13.2	8.35 0.2749 0.4820	1.5	0.6
36.0 -26.2 -20.9	36.0 -25.9 -21.2	9.01 0.2068 0.3100	0.4	0.3
20.9 9.6 -23.6	21.6 8.8 -22.7	3.40 0.2716 0.2405	1.4	0.7
71.2 18.8 17.3	71.3 18.6 17.3	42.59 0.4149 0.3722	0.2	0.2
71.2 22.2 73.1	71.2 22.3 73.1	42.51 0.5076 0.4429	0.2	0.1
47.7 71.2 16.2	47.8 71.2 16.4	16.60 0.5606 0.2913	0.1	0.1
38.0 55.4 -20.9	38.2 54.9 -20.7	10.18 0.4205 0.2314	0.5	0.2
73.7 -22.8 67.6	73.6 -22.9 67.5	46.14 0.4117 0.5128	0.1	0.0
52.3 -52.3 -20.2	52.5 -51.7 -19.9	20.58 0.1894 0.3498	0.7	0.2
43.3 -17.0 -48.6	43.5 -17.2 -48.7	13.52 0.1770 0.2260	0.2	0.2
95.0 0.0 -2.0	95.1 0.1 -2.3	87.75 0.3422 0.3546	0.3	0.3
15.7 -3.1 11.7	16.5 -2.7 11.4	2.21 0.3908 0.4298	0.9	0.7
34.7 28.5 -4.0	34.8 28.6 -4.5	8.39 0.4157 0.2984	0.5	0.3
25.8 -11.0 -14.4	26.1 -10.4 -14.1	4.78 0.2511 0.3111	0.7	0.5
Average			0.6	0.4
Gamut-Volume				99 %

Measurement Data

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

RGB	XYZ	Yxy
255 255 255	133.06 139.59 135.68	139.59 0.3259 0.3418
0 0 0	0.16 0.16 0.25	0.16 0.2783 0.2759
12 12 12	0.78 0.81 0.79	0.81 0.3278 0.3418
25 25 25	2.22 2.34 2.25	2.34 0.3262 0.3435
38 38 38	4.58 4.80 4.67	4.80 0.3261 0.3414
51 51 51	7.45 7.83 7.64	7.83 0.3253 0.3416
63 63 63	10.79 11.31 11.05	11.31 0.3254 0.3413
76 76 76	15.06 15.80 15.43	15.80 0.3252 0.3414
89 89 89	20.08 21.09 20.50	21.09 0.3256 0.3420
102 102 102	25.50 26.79 26.12	26.79 0.3252 0.3417
114 114 114	31.19 32.75 31.90	32.75 0.3255 0.3417
127 127 127	37.76 39.68 38.60	39.68 0.3254 0.3419
140 140 140	45.22 47.46 46.13	47.46 0.3258 0.3419
153 153 153	53.08 55.70 54.22	55.70 0.3257 0.3417
165 165 165	60.67 63.68 61.96	63.68 0.3256 0.3418
178 178 178	69.59 73.04 71.08	73.04 0.3256 0.3418
191 191 191	78.95 82.87 80.61	82.87 0.3257 0.3418
204 204 204	88.91 93.34 90.74	93.34 0.3257 0.3419
216 216 216	98.57 103.51 100.60	103.51 0.3257 0.3420
229 229 229	109.57 115.00 111.82	115.00 0.3257 0.3419
242 242 242	121.05 126.98 123.55	126.98 0.3258 0.3417
0 0 128	6.81 2.39 35.49	2.39 0.1523 0.0535
0 0 255	23.61 8.07 123.57	8.07 0.1521 0.0520
0 128 0	8.58 27.41 3.54	27.41 0.2170 0.6935
0 128 128	15.35 29.86 38.85	29.86 0.1826 0.3552
0 170 255	37.53 53.78 128.95	53.78 0.1704 0.2442
0 255 0	29.53 95.45 11.64	95.45 0.2162 0.6986
0 255 170	40.70 99.26 70.78	99.26 0.1931 0.4710
0 255 255	52.92 103.38 134.96	103.38 0.1817 0.3550
85 85 85	18.48 19.39 18.93	19.39 0.3253 0.3414
128 0 0	23.00 10.50 0.47	10.50 0.6769 0.3091
128 0 128	29.77 12.80 35.97	12.80 0.3790 0.1630
128 128 0	31.59 37.88 3.73	37.88 0.4316 0.5175
128 128 128	38.35 40.28 39.21	40.28 0.3254 0.3418
128 128 255	55.01 45.92 127.18	45.92 0.2412 0.2013
128 255 128	59.37 108.25 47.40	108.25 0.2761 0.5034
170 0 255	61.95 25.38 124.03	25.38 0.2931 0.1201
170 170 170	64.11 67.27 65.43	67.27 0.3257 0.3418
170 255 0	68.09 112.86 11.93	112.86 0.3530 0.5852
170 255 255	91.57 120.84 135.40	120.84 0.2633 0.3474
255 0 0	80.28 36.43 0.95	36.43 0.6823 0.3096
255 0 170	91.59 40.26 60.47	40.26 0.4762 0.2093
255 0 255	103.66 44.24 124.44	44.24 0.3806 0.1624
255 128 128	95.63 66.23 39.89	66.23 0.4740 0.3283
255 170 0	94.46 82.18 6.39	82.18 0.5161 0.4490
255 170 255	117.99 90.31 129.98	90.31 0.3488 0.2670
255 255 0	109.77 131.74 12.29	131.74 0.4325 0.5191
255 255 170	121.00 135.55 71.79	135.55 0.3685 0.4128
170 85 85	45.91 31.79 19.12	31.79 0.4742 0.3284
85 170 85	28.52 52.08 22.74	52.08 0.2760 0.5039
85 85 170	26.54 22.14 61.28	22.14 0.2413 0.2013

85 170 170	36.55 54.79 65.10	54.79 0.2336 0.3503
170 85 170	53.94 34.49 61.47	34.49 0.3598 0.2301
170 170 85	56.05 64.53 23.04	64.53 0.3903 0.4493
0 130 206	24.74 33.73 87.27	33.73 0.1698 0.2315
81 159 219	40.61 51.44 98.91	51.44 0.2127 0.2694
152 193 231	69.05 78.69 110.60	78.69 0.2673 0.3046
195 216 237	91.79 100.11 117.29	100.11 0.2969 0.3238
216 227 240	104.22 111.31 120.62	111.31 0.3100 0.3311
172 41 103	45.11 23.07 25.07	23.07 0.4837 0.2474
187 97 143	59.30 40.34 46.24	40.34 0.4065 0.2765
207 159 190	81.44 70.40 78.25	70.40 0.3540 0.3060
221 199 218	98.36 94.98 101.08	94.98 0.3341 0.3226
229 218 231	107.81 108.44 112.65	108.44 0.3278 0.3297
238 216 24	92.99 102.93 10.99	102.93 0.4495 0.4975
238 221 92	97.34 107.13 29.30	107.13 0.4164 0.4583
237 228 160	104.50 113.25 63.50	113.25 0.3715 0.4027
237 232 202	110.46 117.47 91.55	117.47 0.3458 0.3677
236 235 222	113.47 120.17 106.88	120.17 0.3332 0.3529
215 216 220	98.80 103.62 103.83	103.62 0.3226 0.3383
194 195 199	82.10 86.08 86.58	86.08 0.3222 0.3379
152 153 155	52.94 55.63 55.39	55.63 0.3229 0.3393
110 110 112	29.44 30.82 30.79	30.82 0.3233 0.3385
68 68 69	12.48 13.04 13.00	13.04 0.3240 0.3385
30 30 30	2.96 3.11 3.05	3.11 0.3243 0.3413
30 18 21	2.37 1.86 1.68	1.86 0.4009 0.3151
88 50 37	14.15 10.77 4.69	10.77 0.4778 0.3637
67 64 35	10.42 11.51 4.64	11.51 0.3921 0.4332
38 38 106	8.54 6.09 25.87	6.09 0.2110 0.1504
78 72 137	20.19 16.71 41.77	16.71 0.2566 0.2124
137 132 182	48.03 45.36 71.15	45.36 0.2919 0.2757
184 182 213	77.53 77.91 96.05	77.91 0.3083 0.3098
209 209 228	95.65 98.45 109.57	98.45 0.3150 0.3242
171 43 32	40.87 21.89 3.96	21.89 0.6126 0.3280
186 92 64	52.02 36.45 12.61	36.45 0.5146 0.3606
207 153 128	73.53 65.29 40.81	65.29 0.4093 0.3635
222 196 182	93.58 92.01 75.16	92.01 0.3589 0.3529
229 216 211	104.56 106.35 97.04	106.35 0.3395 0.3453
33 120 56	11.32 26.07 11.19	26.07 0.2329 0.5367
92 148 94	27.81 43.02 25.05	43.02 0.2901 0.4487
155 186 153	58.83 72.09 56.23	72.09 0.3143 0.3852
197 211 198	86.12 95.67 87.03	95.67 0.3204 0.3559
216 225 220	100.92 109.21 104.44	109.21 0.3208 0.3472
212 215 221	97.28 102.38 104.58	102.38 0.3197 0.3365
189 193 201	79.87 84.14 87.93	84.14 0.3170 0.3340
143 149 156	49.30 52.50 55.81	52.50 0.3128 0.3331
101 107 111	26.50 28.58 30.23	28.58 0.3107 0.3350
65 72 74	12.47 13.80 14.65	13.80 0.3047 0.3372
41 50 51	6.01 7.03 7.62	7.03 0.2908 0.3402
13 24 31	1.55 1.93 3.17	1.93 0.2325 0.2909
71 29 31	9.22 5.86 3.28	5.86 0.5021 0.3193
33 49 35	4.31 6.16 4.26	6.16 0.2927 0.4179
41 41 41	5.13 5.40 5.23	5.40 0.3253 0.3426
80 70 67	14.96 14.56 12.49	14.56 0.3561 0.3466
139 127 124	41.74 41.56 37.33	41.56 0.3460 0.3446
185 178 178	72.70 74.52 71.24	74.52 0.3328 0.3411
209 207 209	92.59 96.43 94.84	96.43 0.3262 0.3397

157 85 65	39.63 29.11 12.59	29.11 0.4873 0.3579
106 68 57	20.83 16.90 9.72	16.90 0.4391 0.3561
97 38 32	15.63 9.78 3.62	9.78 0.5385 0.3369
98 37 64	17.25 10.24 10.93	10.24 0.4490 0.2666
116 101 36	25.70 27.09 6.22	27.09 0.4355 0.4590
34 74 45	6.51 11.69 6.87	11.69 0.2596 0.4663
24 76 97	8.69 12.76 23.14	12.76 0.1948 0.2862
36 36 66	5.48 4.79 11.37	4.79 0.2534 0.2215
190 147 127	64.84 59.11 40.05	59.11 0.3953 0.3605
206 143 32	65.56 58.64 7.66	58.64 0.4972 0.4447
173 42 73	43.49 22.69 14.00	22.69 0.5424 0.2830
118 40 104	25.68 14.11 25.32	14.11 0.3944 0.2166
158 175 41	49.72 64.06 10.86	64.06 0.3989 0.5140
0 125 139	16.07 29.11 44.60	29.11 0.1790 0.3243
10 93 166	15.90 19.35 58.93	19.35 0.1688 0.2054
236 237 242	116.99 122.52 123.39	122.52 0.3224 0.3376
30 30 18	2.73 3.07 1.51	3.07 0.3734 0.4202
89 51 71	16.10 11.64 13.26	11.64 0.3927 0.2838
31 50 64	5.48 6.74 11.08	6.74 0.2353 0.2892