UGRA
Display Analysis & Certification Tool Report

Basics

Date:	2014-12-30 20:26:34
Report-Version:	v2.0.0
Monitor-Name:	\\.\DISPLAY1
EDID-Name:	27MB85Z
EDID-Serial:	
Profile:	C:/Windows/system32/spool/drivers/color/27MB85Z-ugra.icc
Created:	2015-4-19 19:00
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

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	no

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):	140.57 147.63 143.73
XYZ (normalized):	95.21 100.00 97.36
xy:	0.3254 0.3418
Luminance:	147.6 Cd/m2
Next Temperature:	5813 Kelvin
Reference Whitepoint:	5800.0 Kelvin
Deviation XYZ to Reference Whitepoint:	0.5 dE00
	0.3 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:	1.4 Chroma (Lab)

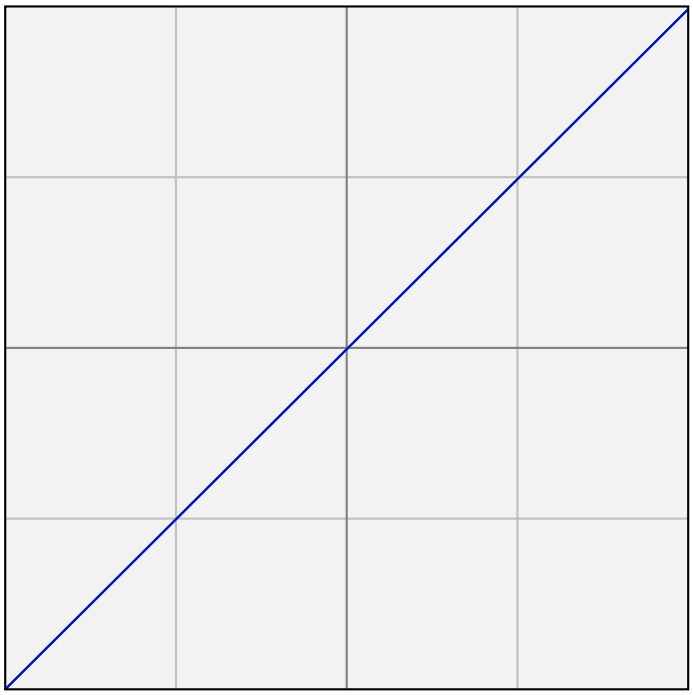
Gray balance

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	9113	0.19	1.18	1.43		
5	6347	0.83	5.08	1.50	1.82	+0.0
10	6006	2.60	14.20	0.63	1.79	-1.0
15	5943	5.15	21.90	0.65	1.79	-1.7
20	5868	8.64	29.04	0.39	1.78	-1.7
25	5825	12.46	34.88	0.24	1.79	-1.8
30	5768	16.33	39.68	0.25	1.84	-2.9
35	5769	22.26	45.74	0.62	1.82	-2.3
40	5817	28.77	51.25	0.61	1.80	-2.0
45	5730	34.46	55.43	0.73	1.84	-2.3
50	5738	41.80	60.17	0.79	1.84	-2.2
55	5765	49.94	64.82	0.59	1.83	-2.0
60	5795	58.87	69.38	0.45	1.81	-1.7
65	5784	66.62	72.98	0.36	1.86	-1.9
70	5794	76.38	77.12	0.16	1.85	-1.8
75	5766	86.35	81.01	0.62	1.86	-1.8
80	5776	98.09	85.22	0.66	1.83	-1.3
85	5793	108.09	88.55	0.58	1.91	-1.4
90	5783	121.24	92.63	0.59	1.86	-0.8
95	5778	134.34	96.41	0.46	1.83	-0.5
100	5813	147.63	100.00	0.00		
Average	5786			0.48	1.83	1.7
Max				0.79		-2.9
Range				1.45		

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 = 99.6%

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: 0.3254 0.3418).

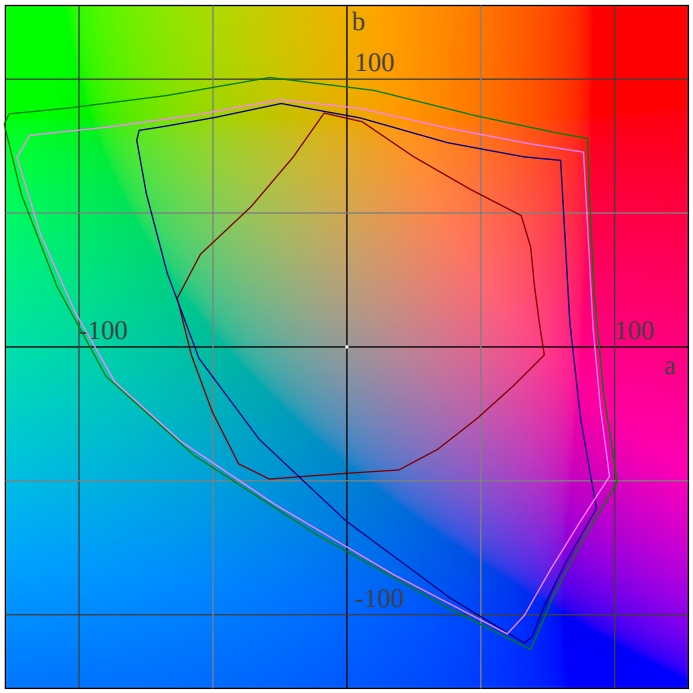
The assumed chromatic adaptation is: Bradford

RGB	Lab	deltaLab	dE76	dE00
0 0 0	1.2 0.6 -1.3	-1.2 -0.6 1.3	1.8	1.6
0 0 128	15.6 39.9 -70.5	1.0 2.4 -3.1	4.0	1.0
0 0 255	31.6 63.0 -109.5	0.5 -0.6 0.9	1.2	0.4
0 128 0	49.1 -81.6 51.2	2.1 -3.2 2.1	4.4	2.2
0 128 128	51.6 -54.7 -13.1	2.0 -0.6 -1.3	2.4	2.1
0 170 255	67.1 -39.5 -51.5	1.3 -2.1 1.9	3.1	1.5
0 255 0	83.2 -126.1 79.5	0.1 0.7 -0.7	1.0	0.1
0 255 170	84.9 -103.2 14.2	0.2 2.2 -2.8	3.5	1.0
0 255 255	86.7 -82.9 -21.0	0.2 1.0 -0.1	1.1	0.3
85 85 85	44.2 -0.4 0.5	2.2 0.3 -0.4	2.3	2.2
128 0 0	35.9 58.5 47.4	1.3 2.0 2.0	3.1	1.3
128 0 128	39.5 64.4 -31.3	1.5 2.2 -1.5	3.1	1.5
128 128 0	58.6 -9.4 62.5	2.2 -1.1 1.6	2.9	2.1
128 128 128	60.6 -0.1 0.7	2.1 0.0 -0.6	2.2	1.9
128 128 255	64.8 19.6 -54.9	1.9 -1.2 2.9	3.7	1.7
128 255 128	88.6 -69.4 39.4	0.5 3.6 -3.1	4.8	1.1
170 0 255	53.8 83.6 -72.4	1.1 0.6 1.8	2.2	1.2
170 170 170	74.8 -0.0 0.2	1.7 -0.1 -0.2	1.7	1.3
170 255 0	90.4 -56.6 88.1	0.5 2.4 -0.8	2.5	0.7
170 255 255	93.5 -33.6 -10.3	0.6 2.0 0.5	2.1	0.9
255 0 0	62.7 89.4 73.5	0.0 0.1 -0.6	0.6	0.2
255 0 170	65.3 93.9 -12.9	0.3 0.3 -2.1	2.2	0.7
255 0 255	68.0 98.6 -48.8	0.2 -0.2 0.3	0.4	0.2
255 128 128	76.6 52.0 24.9	1.1 -2.4 -2.0	3.3	1.2
255 170 0	82.1 27.7 85.2	1.1 -3.0 -0.3	3.2	1.7
255 170 255	85.8 41.5 -21.3	1.1 -2.5 1.4	3.1	1.2
255 255 0	97.3 -15.5 95.8	0.2 -0.1 -1.1	1.1	0.3
255 255 170	98.7 -8.0 34.6	0.3 0.5 -2.2	2.3	0.9
255 255 255	100.0 0.0 0.0	0.4 -0.1 0.1	0.4	0.3
170 85 85	56.6 40.2 19.4	1.8 -0.6 -1.1	2.2	1.7
85 170 85	65.8 -53.6 30.3	1.7 1.0 -1.3	2.4	1.5
85 85 170	47.5 14.7 -42.1	2.1 -0.0 0.6	2.2	2.1
85 170 170	67.6 -38.9 -11.0	1.7 0.9 -0.1	2.0	1.4
170 85 170	58.9 47.0 -23.6	1.8 -0.4 0.2	1.8	1.6
170 170 85	73.2 -8.2 40.9	1.7 -0.2 -1.2	2.1	1.4
Average			2.4	1.2
Maximum			4.8	2.2

Gamut-Volume

These measurements are only informative.

ISO Coated v2 (FOGRA39L)	99 %
sRGB	99 %
AdobeRGB	97 %
ECI-RGB v2.0	88 %



AdobeRGB
sRGB
ISO Coated v2 (FOGRA39L)
Monitor

Softproof Quality

The measurements are converted to Lab values based on the measured whitepoint (xy: 0.3254 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	1.5
Maximum		4.0	3.7
Primaries		5.0	3.7
Composite Gray Max		3.0	2.2

Reference (Lab)	Measurement (Lab)	Measurement (Yxy)	dE76	dE00
55.0 -37.0 -50.0	54.1 -27.8 -49.5	22.06 0.1790 0.2481	9.3	3.7
66.9 -24.7 -37.1	65.1 -24.6 -38.8	34.11 0.2216 0.2860	2.5	1.6
79.7 -12.5 -21.8	77.8 -12.2 -23.9	52.95 0.2814 0.3198	2.9	1.7
87.7 -5.8 -11.8	86.3 -5.6 -12.9	68.63 0.3148 0.3394	1.7	1.1
91.5 -3.0 -7.0	90.3 -2.7 -7.7	76.97 0.3288 0.3471	1.4	1.0
48.0 74.0 -3.0	47.0 71.9 -1.1	16.00 0.5132 0.2630	3.0	1.3
60.8 50.6 -6.7	59.0 51.1 -5.9	27.03 0.4352 0.2907	2.1	1.7
76.4 25.8 -6.9	75.0 27.2 -6.7	48.26 0.3786 0.3211	2.0	1.3
86.2 12.0 -5.2	84.8 13.8 -5.8	65.61 0.3566 0.3367	2.3	1.7
90.7 5.9 -3.9	89.5 6.7 -4.2	75.25 0.3484 0.3459	1.4	1.1
89.0 -5.0 93.0	88.0 -2.8 88.5	71.97 0.4609 0.4870	5.1	1.6
90.3 -4.7 62.6	89.2 -4.1 65.0	74.68 0.4351 0.4637	2.7	1.0
92.2 -3.5 31.1	91.0 -2.7 32.5	78.48 0.3934 0.4151	2.0	1.2
93.6 -1.6 13.3	92.7 -1.5 14.5	82.31 0.3669 0.3841	1.5	1.0
94.3 -0.9 5.4	93.6 -1.0 5.8	84.30 0.3537 0.3690	0.8	0.5
89.0 0.0 -1.8	87.8 0.6 -1.8	71.60 0.3434 0.3548	1.3	1.1
82.8 0.0 -1.7	81.0 0.6 -1.9	58.52 0.3432 0.3544	1.9	1.5
69.3 0.0 -1.4	67.2 0.4 -1.4	36.94 0.3434 0.3550	2.1	1.7
54.1 0.0 -1.0	52.2 -0.3 -0.6	20.32 0.3434 0.3574	2.0	2.0
36.6 -0.0 -0.5	35.0 0.4 -0.9	8.51 0.3440 0.3547	1.7	1.5
16.0 0.0 0.0	15.0 -0.1 -0.8	1.91 0.3406 0.3536	1.3	1.1
10.4 13.9 1.4	10.0 13.5 0.2	1.13 0.4282 0.3156	1.3	0.9
33.4 25.4 20.9	31.6 24.7 19.4	6.92 0.4977 0.3671	2.4	1.6
34.4 -3.3 22.3	32.4 -2.4 20.5	7.26 0.4074 0.4374	2.9	2.0
24.0 22.0 -46.0	22.6 20.7 -44.7	3.69 0.2202 0.1607	2.3	1.1
40.9 17.9 -36.6	38.8 16.9 -35.9	10.54 0.2725 0.2297	2.4	1.9
63.7 10.3 -23.8	61.5 11.1 -24.8	29.82 0.3093 0.2908	2.5	1.9
79.4 5.1 -13.6	77.6 5.6 -14.4	52.56 0.3271 0.3256	2.0	1.4
87.2 2.6 -8.1	85.8 3.3 -8.8	67.60 0.3353 0.3400	1.7	1.3
47.0 68.0 48.0	45.9 67.0 48.1	15.21 0.6241 0.3306	1.5	1.1
58.5 47.1 37.9	56.6 48.3 37.7	24.55 0.5365 0.3617	2.2	1.8
74.2 22.9 21.4	72.6 24.4 23.4	44.52 0.4362 0.3757	3.0	1.6
85.0 10.0 9.8	83.4 11.6 10.0	62.99 0.3822 0.3659	2.2	1.7
90.0 4.7 3.7	88.6 5.9 3.4	73.40 0.3605 0.3595	1.8	1.6
50.0 -65.0 27.0	47.8 -63.0 26.3	16.61 0.2448 0.5542	3.1	2.3
62.1 -39.8 21.0	60.1 -40.4 21.7	28.20 0.3052 0.4697	2.3	1.8
77.0 -19.1 11.0	75.2 -19.1 12.0	48.56 0.3347 0.4031	2.0	1.4
86.3 -8.4 4.2	84.9 -8.2 4.6	65.77 0.3409 0.3743	1.5	1.1
90.8 -4.1 0.9	89.7 -4.1 1.0	75.74 0.3414 0.3637	1.1	0.7
88.5 -0.4 -3.1	87.0 0.8 -4.1	70.05 0.3399 0.3505	2.2	2.2

82.0 -0.9 -4.1	80.3 -0.1 -4.3	57.20 0.3375 0.3503	1.8	1.6
67.7 -2.0 -4.4	65.8 -2.1 -4.3	35.03 0.3324 0.3510	1.9	1.5
52.2 -2.5 -3.5	50.3 -3.1 -3.6	18.64 0.3289 0.3524	2.0	2.1
37.5 -3.9 -3.1	35.6 -3.6 -2.8	8.79 0.3251 0.3540	1.9	1.6
26.3 -6.8 -3.4	24.7 -6.1 -4.2	4.31 0.3041 0.3509	1.9	1.6
10.4 -8.2 -10.2	9.9 -7.7 -10.5	1.11 0.2335 0.2999	0.8	0.6
24.3 32.7 13.1	23.1 31.3 11.8	3.83 0.5233 0.3256	2.3	1.2
24.7 -17.0 7.5	23.0 -15.5 6.4	3.80 0.3092 0.4288	2.5	1.7
23.0 0.0 0.0	21.5 0.3 -0.5	3.37 0.3443 0.3553	1.6	1.3
38.5 6.6 3.9	36.3 5.9 2.7	9.18 0.3728 0.3580	2.6	2.2
61.5 5.4 3.8	59.2 5.7 4.6	27.20 0.3686 0.3627	2.5	2.2
78.1 2.9 0.9	76.4 3.1 0.8	50.47 0.3524 0.3572	1.8	1.3
86.6 1.5 -0.7	85.1 2.3 -1.1	66.22 0.3473 0.3545	1.7	1.5
53.1 37.7 28.9	51.2 39.2 28.7	19.42 0.5110 0.3621	2.4	2.0
41.5 22.7 16.8	39.7 22.5 16.3	11.09 0.4615 0.3659	1.9	1.6
31.9 40.0 24.0	30.3 38.7 22.1	6.35 0.5557 0.3387	2.8	1.6
32.5 44.4 -1.8	30.9 42.8 -2.1	6.60 0.4759 0.2773	2.3	1.4
51.3 1.3 44.5	49.4 1.4 43.7	17.88 0.4515 0.4612	2.1	1.9
34.6 -36.4 13.9	32.3 -34.0 12.4	7.22 0.2724 0.4822	3.6	2.1
36.0 -26.2 -20.9	33.6 -25.0 -20.4	7.83 0.2057 0.3095	2.7	2.0
20.9 9.6 -23.6	19.7 9.4 -23.1	2.91 0.2682 0.2326	1.4	0.9
71.2 18.8 17.3	69.5 19.5 19.3	40.02 0.4220 0.3750	2.8	1.8
71.2 22.2 73.1	69.5 24.4 72.6	40.04 0.5134 0.4392	2.9	1.9
47.7 71.2 16.2	46.5 69.6 17.3	15.66 0.5634 0.2933	2.2	1.4
38.0 55.4 -20.9	36.2 53.7 -20.3	9.10 0.4211 0.2299	2.6	1.6
73.7 -22.8 67.6	72.0 -22.4 67.2	43.59 0.4128 0.5140	1.8	1.3
52.3 -52.3 -20.2	50.2 -49.4 -19.0	18.62 0.1910 0.3503	3.7	2.3
43.3 -17.0 -48.6	41.5 -15.4 -48.5	12.16 0.1759 0.2213	2.5	1.9
95.0 0.0 -2.0	94.3 0.5 -2.2	85.90 0.3429 0.3545	0.9	0.9
15.7 -3.1 11.7	15.2 -3.3 10.7	1.94 0.3858 0.4315	1.1	0.9
34.7 28.5 -4.0	32.8 28.2 -4.3	7.46 0.4182 0.2974	1.9	1.5
25.8 -11.0 -14.4	24.3 -10.5 -14.3	4.21 0.2464 0.3080	1.6	1.2
Average			2.2	1.5
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	140.57 147.63 143.73	147.63 0.3254 0.3418
0 0 0	0.21 0.19 0.30	0.19 0.2952 0.2739
12 12 12	0.81 0.83 0.93	0.83 0.3164 0.3222
25 25 25	2.48 2.60 2.63	2.60 0.3215 0.3377
38 38 38	4.91 5.15 5.16	5.15 0.3228 0.3382
51 51 51	8.24 8.64 8.53	8.64 0.3243 0.3399
63 63 63	11.89 12.46 12.21	12.46 0.3252 0.3408
76 76 76	15.56 16.33 15.77	16.33 0.3264 0.3426
89 89 89	21.12 22.26 21.35	22.26 0.3263 0.3439
102 102 102	27.25 28.77 27.75	28.77 0.3253 0.3434
114 114 114	32.80 34.46 32.97	34.46 0.3272 0.3439
127 127 127	39.74 41.80 39.98	41.80 0.3270 0.3440
140 140 140	47.48 49.94 48.02	49.94 0.3264 0.3434
153 153 153	55.94 58.87 56.89	58.87 0.3258 0.3429
165 165 165	63.40 66.62 64.42	66.62 0.3260 0.3426
178 178 178	72.76 76.38 74.16	76.38 0.3258 0.3421
191 191 191	82.58 86.35 84.01	86.35 0.3265 0.3414
204 204 204	93.82 98.09 95.64	98.09 0.3263 0.3411
216 216 216	103.30 108.09 105.56	108.09 0.3259 0.3410
229 229 229	115.87 121.24 118.18	121.24 0.3261 0.3412
242 242 242	128.27 134.34 130.60	134.34 0.3262 0.3417
0 0 128	7.06 3.25 35.21	3.25 0.1551 0.0714
0 0 255	25.03 11.15 126.89	11.15 0.1535 0.0684
0 128 0	8.46 26.16 3.87	26.16 0.2197 0.6797
0 128 128	15.44 29.58 39.09	29.58 0.1835 0.3517
0 170 255	39.08 55.37 132.95	55.37 0.1719 0.2435
0 255 0	29.34 92.50 12.99	92.50 0.2176 0.6860
0 255 170	41.19 97.89 72.77	97.89 0.1944 0.4621
0 255 255	54.28 103.66 139.51	103.66 0.1825 0.3485
85 85 85	19.59 20.66 19.85	20.66 0.3259 0.3438
128 0 0	24.78 12.89 1.38	12.89 0.6344 0.3302
128 0 128	31.84 16.07 37.02	16.07 0.3749 0.1892
128 128 0	33.25 39.00 5.02	39.00 0.4303 0.5048
128 128 128	40.41 42.50 40.74	42.50 0.3268 0.3437
128 128 255	58.34 50.55 131.94	50.55 0.2422 0.2099
128 255 128	61.43 108.55 49.78	108.55 0.2795 0.4939
170 0 255	66.31 32.51 129.18	32.51 0.2908 0.1426
170 170 170	67.30 70.71 68.52	70.71 0.3259 0.3424
170 255 0	70.77 113.71 14.87	113.71 0.3550 0.5704
170 255 255	95.74 124.79 141.60	124.79 0.2644 0.3446
255 0 0	86.55 44.79 4.42	44.79 0.6375 0.3299
255 0 170	98.40 50.08 64.96	50.08 0.4610 0.2346
255 0 255	111.47 55.83 131.36	55.83 0.3732 0.1869
255 128 128	101.98 74.31 44.13	74.31 0.4627 0.3371
255 170 0	100.30 88.22 10.40	88.22 0.5042 0.4435
255 170 255	125.36 99.63 137.31	99.63 0.3460 0.2750
255 255 0	115.65 136.72 17.12	136.72 0.4291 0.5073
255 255 170	127.56 142.12 77.65	142.12 0.3673 0.4092
170 85 85	48.92 35.83 21.33	35.83 0.4611 0.3377
85 170 85	29.56 51.85 24.11	51.85 0.2802 0.4914
85 85 170	28.09 24.53 62.77	24.53 0.2435 0.2125

85 170 170	38.00 55.68 67.04	55.68 0.2365 0.3464
170 85 170	57.41 39.68 64.36	39.68 0.3556 0.2458
170 170 85	58.82 66.83 25.62	66.83 0.3888 0.4418
0 126 206	25.09 33.30 88.99	33.30 0.1702 0.2260
74 156 220	40.30 51.09 102.50	51.09 0.2079 0.2635
146 190 231	69.22 78.70 115.21	78.70 0.2631 0.2991
191 213 237	93.58 101.62 121.92	101.62 0.2951 0.3205
212 224 239	106.78 113.82 125.28	113.82 0.3087 0.3291
169 0 96	45.18 23.19 23.88	23.19 0.4897 0.2514
183 80 137	58.84 39.57 44.59	39.57 0.4114 0.2767
204 149 186	82.98 71.05 78.77	71.05 0.3564 0.3052
219 193 216	101.45 96.79 104.24	96.79 0.3354 0.3200
226 214 228	110.66 111.09 115.96	111.09 0.3277 0.3290
237 215 0	96.58 105.37 12.95	105.37 0.4494 0.4903
236 220 78	99.78 109.50 27.99	109.50 0.4205 0.4615
235 226 151	106.94 115.39 62.80	115.39 0.3750 0.4047
235 230 197	113.87 121.28 92.87	121.28 0.3471 0.3697
234 233 219	117.46 124.36 110.32	124.36 0.3336 0.3532
212 213 217	101.12 105.74 106.10	105.74 0.3231 0.3379
190 191 195	82.71 86.42 87.05	86.42 0.3229 0.3373
147 147 150	52.13 54.55 54.70	54.55 0.3230 0.3380
104 104 106	28.47 30.00 29.63	30.00 0.3232 0.3405
63 63 64	12.04 12.57 12.60	12.57 0.3236 0.3378
26 26 26	2.69 2.83 2.88	2.83 0.3203 0.3365
27 14 18	2.22 1.65 1.60	1.65 0.4056 0.3020
83 42 31	13.46 10.09 4.44	10.09 0.4807 0.3605
61 59 30	9.68 10.66 4.46	10.66 0.3904 0.4300
33 30 102	7.93 5.60 24.86	5.60 0.2065 0.1459
72 63 133	18.94 15.76 39.97	15.76 0.2537 0.2110
131 124 180	47.03 44.23 71.60	44.23 0.2888 0.2716
179 176 211	77.63 77.77 97.84	77.77 0.3065 0.3071
205 204 226	97.62 99.91 112.59	99.91 0.3148 0.3222
168 17 20	40.97 21.88 3.68	21.88 0.6158 0.3288
183 77 54	52.09 35.65 12.07	35.65 0.5219 0.3572
204 144 120	74.39 65.23 38.79	65.23 0.4170 0.3656
219 190 177	95.34 92.71 75.53	92.71 0.3617 0.3517
226 212 208	107.06 108.23 99.60	108.23 0.3400 0.3437
27 120 49	10.48 24.62 10.34	24.62 0.2307 0.5417
85 147 87	26.40 41.71 23.37	41.71 0.2886 0.4559
150 184 147	58.47 71.72 54.89	71.72 0.3159 0.3875
193 210 193	87.19 97.12 87.09	97.12 0.3213 0.3579
213 222 217	103.64 111.86 107.02	111.86 0.3213 0.3468
209 211 219	99.23 103.47 107.82	103.47 0.3196 0.3332
185 189 198	80.54 84.52 88.87	84.52 0.3172 0.3329
138 144 151	48.53 51.79 55.09	51.79 0.3123 0.3332
95 101 106	25.45 27.56 29.37	27.56 0.3090 0.3345
60 66 69	11.82 13.00 13.89	13.00 0.3053 0.3359
36 45 47	5.50 6.39 7.39	6.39 0.2850 0.3315
10 21 28	1.31 1.66 3.02	1.66 0.2187 0.2774
66 21 26	8.84 5.56 3.11	5.56 0.5049 0.3175
29 45 31	3.97 5.62 4.03	5.62 0.2916 0.4126
37 37 37	4.77 4.98 4.97	4.98 0.3240 0.3383
75 63 62	13.89 13.52 12.03	13.52 0.3520 0.3429
133 121 118	40.15 40.08 35.12	40.08 0.3481 0.3475
180 173 174	72.53 74.47 71.50	74.47 0.3320 0.3408
206 203 206	94.61 97.76 97.08	97.76 0.3269 0.3377

153 73 56	39.27 28.27 11.87	28.27 0.4945 0.3560
101 60 50	20.10 16.21 9.11	16.21 0.4426 0.3568
92 27 26	14.90 9.19 3.46	9.19 0.5408 0.3335
93 24 58	16.43 9.62 10.29	9.62 0.4521 0.2647
111 96 27	24.91 26.19 5.80	26.19 0.4377 0.4603
29 71 40	5.89 10.70 6.36	10.70 0.2567 0.4663
20 72 92	7.95 11.73 21.40	11.73 0.1936 0.2855
32 30 62	5.08 4.35 10.92	4.35 0.2498 0.2137
187 139 119	64.91 58.71 37.73	58.71 0.4023 0.3638
203 135 10	66.52 58.37 7.38	58.37 0.5029 0.4413
169 11 65	43.24 22.62 13.44	22.62 0.5453 0.2852
112 21 99	24.47 13.34 24.23	13.34 0.3945 0.2150
153 175 26	49.60 64.01 10.49	64.01 0.3997 0.5158
0 123 135	15.46 27.87 42.49	27.87 0.1802 0.3247
0 87 164	15.38 18.42 57.90	18.42 0.1677 0.2009
234 235 240	121.25 126.85 127.78	126.85 0.3226 0.3375
26 27 15	2.49 2.85 1.42	2.85 0.3680 0.4217
84 42 65	15.27 10.94 12.47	10.94 0.3948 0.2828
26 46 60	5.06 6.28 10.62	6.28 0.2305 0.2858