UGRA
Display Analysis & Certification Tool Report

Basics

Date:	2019-3-27 00:42:38
Report-Version:	v2.0.0
Monitor-Name:	\\.\DISPLAY1
EDID-Name:	EV2457
EDID-Serial:	
Profile:	C:/Windows/system32/spool/drivers/color/EV2457-5800K-18.icm
Created:	2019-3-27 0:35
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	no

The monitor has not passed the certification according to the UDACT v2.0 specifications.

Softproof quality (depends on the calibration verification)

ISO Coated v2 (FOGRA39L)	no
sRGB	no
AdobeRGB	no
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):	154.41 161.89 157.17
XYZ (normalized):	95.38 100.00 97.09
xy:	0.3261 0.3419
Luminance:	161.9 Cd/m2
Next Temperature:	5782 Kelvin
Reference Whitepoint:	5800.0 Kelvin
Deviation XYZ to Reference Whitepoint:	0.3 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)

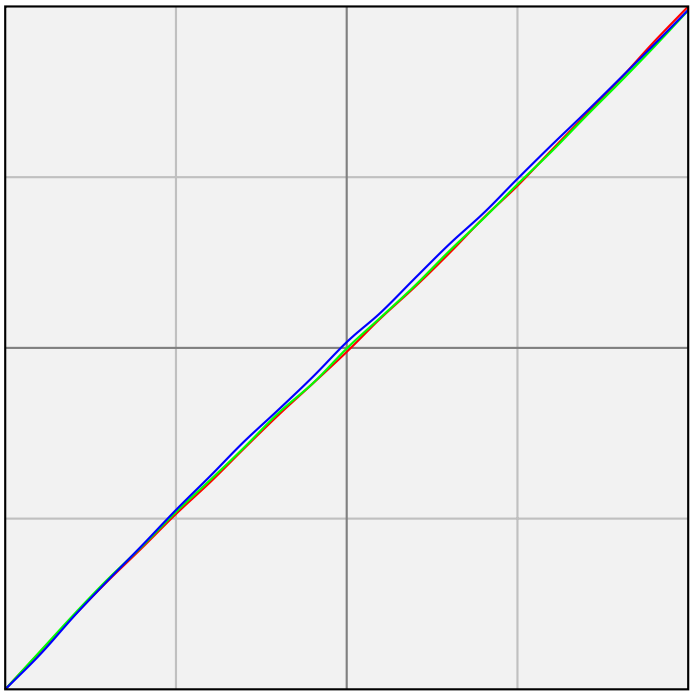
Gray balance

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	10789	0.22	1.25	1.42		
5	6123	0.95	5.31	0.71	1.82	+1.6
10	5833	2.66	13.49	0.35	1.83	+0.7
15	5737	5.36	21.25	0.15	1.82	+0.2
20	5757	8.98	28.23	0.37	1.82	+0.1
25	5846	13.10	34.17	0.30	1.83	+0.1
30	5795	18.17	39.96	0.70	1.82	-0.1
35	5756	24.45	45.78	0.43	1.81	+0.1
40	5754	31.30	51.08	0.18	1.80	+0.2
45	5819	37.76	55.40	0.65	1.82	-0.1
50	5773	46.54	60.56	0.24	1.81	+0.2
55	5798	55.10	64.99	0.13	1.81	+0.1
60	5839	64.43	69.32	0.54	1.80	-0.0
65	5813	74.06	73.38	0.28	1.82	+0.1
70	5737	84.75	77.49	0.45	1.82	+0.0
75	5818	96.90	81.76	0.33	1.79	+0.2
80	5795	108.55	85.53	0.60	1.78	+0.1
85	5791	120.82	89.22	0.21	1.81	+0.2
90	5781	133.94	92.90	0.02	1.80	+0.2
95	5781	147.41	96.43	0.21	1.81	+0.0
100	5782	161.89	100.00	0.00		
Average	5790			0.33	1.81	0.1
Max				0.70		0.2
Range				1.06		

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 = 97.6%

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: 0.3261 0.3419).

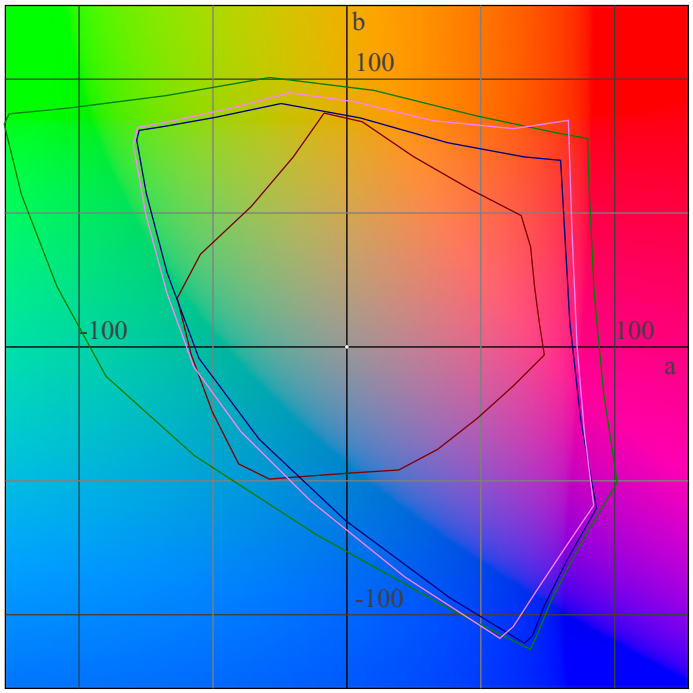
The assumed chromatic adaptation is: CAT02

RGB	Lab	deltaLab	dE76	dE00
0 0 0	1.2 0.2 -1.4	-1.2 -0.2 1.4	1.9	1.6
0 0 128	15.2 37.8 -71.7	0.2 1.2 -1.2	1.7	0.4
0 0 255	30.6 59.7 -110.7	0.8 -0.7 0.5	1.2	0.7
0 128 0	51.7 -52.6 54.1	0.7 -0.9 0.0	1.1	0.7
0 128 128	54.1 -35.5 -10.5	0.4 -0.1 -0.1	0.4	0.4
0 170 255	69.7 -24.8 -47.3	0.4 0.1 0.1	0.4	0.3
0 255 0	86.9 -80.9 83.8	0.4 0.0 -1.9	2.0	0.5
0 255 170	88.6 -66.9 18.3	0.3 0.1 0.0	0.3	0.2
0 255 255	90.2 -54.0 -15.9	0.4 0.2 -0.0	0.4	0.2
85 85 85	44.0 0.6 -0.3	-0.0 -0.6 0.3	0.6	0.9
128 0 0	30.2 54.3 47.0	0.5 1.1 3.2	3.4	1.2
128 0 128	34.5 60.7 -39.4	0.4 0.5 0.1	0.7	0.4
128 128 0	58.6 -9.8 65.1	0.3 0.6 -0.6	0.9	0.5
128 128 128	60.8 -0.6 -0.0	-0.1 0.6 0.0	0.6	0.8
128 128 255	65.0 17.4 -54.4	-0.2 0.7 -0.6	0.9	0.3
128 255 128	91.2 -49.0 41.2	0.1 -0.3 0.4	0.5	0.2
170 0 255	48.6 79.2 -80.2	0.5 -0.4 0.3	0.7	0.5
170 170 170	75.0 -0.2 -0.1	-0.1 0.2 0.1	0.2	0.3
170 255 0	92.1 -42.7 92.0	0.3 0.1 -2.2	2.3	0.5
170 255 255	95.2 -23.6 -7.8	0.1 -0.3 -0.1	0.3	0.2
255 0 0	54.6 83.9 84.6	-0.0 -0.1 0.5	0.5	0.2
255 0 170	57.7 88.5 -24.2	0.1 -0.3 0.4	0.5	0.2
255 0 255	60.7 93.2 -59.7	0.3 -0.6 0.3	0.8	0.3
255 128 128	73.5 42.5 19.9	-0.6 1.2 0.4	1.4	0.6
255 170 0	80.1 20.0 89.6	-0.2 0.3 -2.3	2.3	0.6
255 170 255	84.0 33.6 -23.7	-0.4 1.0 -0.6	1.2	0.5
255 255 0	97.2 -14.0 100.2	0.1 -0.0 -2.8	2.8	0.5
255 255 170	98.6 -6.8 33.6	-0.0 -0.1 0.9	0.9	0.4
255 255 255	100.0 -0.0 0.0	0.0 0.0 -0.0	0.0	0.0
170 85 85	53.6 34.2 15.5	-0.1 0.2 0.5	0.6	0.3
85 170 85	68.2 -38.2 32.8	-0.1 -0.6 0.0	0.6	0.2
85 85 170	47.3 14.5 -43.3	-0.1 -0.3 0.0	0.3	0.2
85 170 170	69.9 -26.9 -8.6	-0.1 -0.3 -0.0	0.4	0.2
170 85 170	56.0 41.4 -28.7	-0.0 0.2 0.3	0.4	0.2
170 170 85	73.5 -7.8 41.5	-0.1 0.1 0.0	0.2	0.1
Average			1.0	0.4
Maximum			3.4	1.6

Gamut-Volume

These measurements are only informative.

ISO Coated v2 (FOGRA39L)	93 %
sRGB	99 %
AdobeRGB	78 %
ECI-RGB v2.0	75 %



AdobeRGB
sRGB
ISO Coated v2 (FOGRA39L)
Monitor

Softproof Quality

The measurements are converted to Lab values based on the measured whitepoint (xy: 0.3261 0.3419) 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	0.8
Maximum		4.0	7.8
Primaries		5.0	7.8
Composite Gray Max		3.0	0.8

Reference (Lab)	Measurement (Lab)	Measurement (Yxy)	dE76	dE00
55.0 -37.0 -50.0	57.8 -18.9 -44.6	25.72 0.2092 0.2608	19.1	7.8
66.9 -24.7 -37.1	66.8 -24.5 -37.4	36.40 0.2267 0.2911	0.3	0.2
79.7 -12.5 -21.8	79.7 -12.2 -21.7	56.22 0.2865 0.3251	0.3	0.2
87.7 -5.8 -11.8	87.9 -6.0 -11.5	71.86 0.3170 0.3424	0.4	0.3
91.5 -3.0 -7.0	91.6 -3.2 -6.6	79.80 0.3302 0.3495	0.4	0.4
48.0 74.0 -3.0	48.0 74.0 -3.5	16.78 0.5078 0.2581	0.5	0.2
60.8 50.6 -6.7	60.9 50.1 -6.4	29.14 0.4299 0.2922	0.5	0.2
76.4 25.8 -6.9	76.6 25.7 -7.4	50.84 0.3741 0.3217	0.6	0.4
86.2 12.0 -5.2	86.2 12.1 -5.6	68.34 0.3544 0.3388	0.4	0.3
90.7 5.9 -3.9	90.9 5.8 -3.8	78.19 0.3479 0.3475	0.2	0.2
89.0 -5.0 93.0	89.1 -4.7 94.0	74.33 0.4612 0.4935	1.1	0.3
90.3 -4.7 62.6	90.6 -5.0 62.6	77.60 0.4301 0.4609	0.4	0.2
92.2 -3.5 31.1	92.3 -3.1 30.4	81.49 0.3890 0.4116	0.9	0.4
93.6 -1.6 13.3	93.6 -1.6 12.3	84.46 0.3631 0.3804	1.0	0.6
94.3 -0.9 5.4	94.3 -0.9 5.0	85.98 0.3524 0.3675	0.5	0.4
89.0 0.0 -1.8	89.3 -0.1 -1.7	74.70 0.3427 0.3557	0.3	0.3
82.8 0.0 -1.7	82.8 0.3 -2.5	61.78 0.3417 0.3536	0.9	0.9
69.3 0.0 -1.4	69.3 -0.1 -1.7	39.76 0.3420 0.3550	0.3	0.4
54.1 0.0 -1.0	54.2 0.6 -1.2	22.15 0.3439 0.3547	0.6	0.8
36.6 -0.0 -0.5	36.5 0.1 -0.9	9.29 0.3431 0.3553	0.4	0.4
16.0 0.0 0.0	16.7 0.4 0.0	2.24 0.3477 0.3575	0.8	0.8
10.4 13.9 1.4	11.6 13.7 1.0	1.35 0.4298 0.3217	1.3	0.8
33.4 25.4 20.9	33.4 25.4 20.2	7.74 0.4975 0.3679	0.7	0.4
34.4 -3.3 22.3	34.5 -3.4 22.5	8.26 0.4079 0.4432	0.2	0.1
24.0 22.0 -46.0	24.2 21.9 -45.7	4.16 0.2242 0.1626	0.3	0.2
40.9 17.9 -36.6	40.9 17.8 -36.4	11.81 0.2756 0.2317	0.2	0.1
63.7 10.3 -23.8	64.0 9.7 -23.4	32.83 0.3112 0.2969	0.8	0.5
79.4 5.1 -13.6	79.5 5.0 -13.8	55.81 0.3278 0.3279	0.2	0.2
87.2 2.6 -8.1	87.3 2.8 -8.0	70.56 0.3361 0.3421	0.2	0.3
47.0 68.0 48.0	46.8 67.5 47.3	15.84 0.6210 0.3303	0.9	0.3
58.5 47.1 37.9	58.5 47.0 37.3	26.44 0.5289 0.3641	0.5	0.2
74.2 22.9 21.4	74.4 22.7 20.8	47.26 0.4264 0.3732	0.7	0.3
85.0 10.0 9.8	85.1 10.0 9.8	66.13 0.3786 0.3669	0.1	0.1
90.0 4.7 3.7	90.3 4.4 3.9	77.00 0.3588 0.3616	0.5	0.5
50.0 -65.0 27.0	51.5 -48.2 30.4	19.67 0.2959 0.5285	17.2	6.0
62.1 -39.8 21.0	61.9 -39.3 21.0	30.31 0.3074 0.4630	0.6	0.3
77.0 -19.1 11.0	77.1 -19.0 10.9	51.68 0.3333 0.3999	0.1	0.1
86.3 -8.4 4.2	86.4 -8.0 3.5	68.70 0.3394 0.3719	0.7	0.6
90.8 -4.1 0.9	90.9 -4.1 0.6	78.21 0.3407 0.3630	0.3	0.2
88.5 -0.4 -3.1	88.6 -0.3 -3.2	73.23 0.3398 0.3532	0.1	0.1

82.0 -0.9 -4.1	82.2 -0.9 -4.3	60.71 0.3365 0.3512	0.3	0.3
67.7 -2.0 -4.4	67.5 -1.6 -4.9	37.32 0.3323 0.3492	0.7	0.7
52.2 -2.5 -3.5	52.3 -2.4 -3.5	20.39 0.3311 0.3519	0.1	0.1
37.5 -3.9 -3.1	37.6 -4.0 -3.5	9.88 0.3224 0.3524	0.4	0.4
26.3 -6.8 -3.4	26.4 -6.4 -2.6	4.88 0.3116 0.3594	0.9	0.8
10.4 -8.2 -10.2	11.7 -6.7 -9.1	1.37 0.2536 0.3124	2.4	1.8
24.3 32.7 13.1	24.5 32.0 12.2	4.27 0.5216 0.3268	1.2	0.6
24.7 -17.0 7.5	24.7 -16.2 7.0	4.30 0.3102 0.4306	0.9	0.6
23.0 0.0 0.0	23.0 0.4 0.1	3.79 0.3475 0.3580	0.4	0.6
38.5 6.6 3.9	38.7 7.0 4.0	10.49 0.3791 0.3603	0.5	0.4
61.5 5.4 3.8	61.8 5.0 3.6	30.18 0.3640 0.3612	0.5	0.5
78.1 2.9 0.9	78.1 3.0 1.1	53.39 0.3528 0.3579	0.2	0.2
86.6 1.5 -0.7	86.7 1.6 -0.5	69.43 0.3472 0.3562	0.2	0.2
53.1 37.7 28.9	53.3 37.9 28.6	21.35 0.5031 0.3646	0.4	0.3
41.5 22.7 16.8	41.6 22.4 16.3	12.23 0.4574 0.3661	0.6	0.3
31.9 40.0 24.0	32.0 39.1 23.4	7.10 0.5537 0.3419	1.1	0.4
32.5 44.4 -1.8	32.7 44.1 -2.3	7.39 0.4741 0.2775	0.6	0.3
51.3 1.3 44.5	51.4 1.2 45.1	19.58 0.4510 0.4619	0.7	0.2
34.6 -36.4 13.9	34.3 -33.4 14.3	8.13 0.2830 0.4847	3.1	1.4
36.0 -26.2 -20.9	36.0 -19.9 -20.2	9.03 0.2248 0.3081	6.3	3.2
20.9 9.6 -23.6	21.0 9.9 -23.5	3.26 0.2708 0.2345	0.4	0.4
71.2 18.8 17.3	71.2 19.1 16.7	42.46 0.4147 0.3707	0.6	0.5
71.2 22.2 73.1	71.2 21.8 74.6	42.48 0.5080 0.4450	1.5	0.6
47.7 71.2 16.2	47.7 71.2 15.9	16.58 0.5592 0.2906	0.4	0.2
38.0 55.4 -20.9	38.1 55.3 -20.8	10.15 0.4210 0.2307	0.2	0.1
73.7 -22.8 67.6	73.3 -22.4 68.6	45.56 0.4139 0.5139	1.1	0.5
52.3 -52.3 -20.2	54.5 -32.9 -15.8	22.41 0.2378 0.3480	20.0	7.0
43.3 -17.0 -48.6	44.4 -9.2 -45.9	14.11 0.1997 0.2308	8.3	4.6
95.0 0.0 -2.0	95.0 -0.2 -2.3	87.60 0.3418 0.3549	0.3	0.3
15.7 -3.1 11.7	16.2 -2.4 11.1	2.15 0.3914 0.4273	1.1	1.0
34.7 28.5 -4.0	34.9 28.2 -3.9	8.44 0.4168 0.3006	0.4	0.2
25.8 -11.0 -14.4	25.9 -11.0 -14.7	4.73 0.2469 0.3092	0.3	0.2
Average			1.6	0.8
Gamut-Volume				93 %

Measurement Data

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

RGB	XYZ	Yxy
255 255 255	154.41 161.89 157.17	161.89 0.3261 0.3419
0 0 0	0.23 0.22 0.36	0.22 0.2801 0.2777
12 12 12	0.91 0.95 0.99	0.95 0.3195 0.3328
25 25 25	2.52 2.66 2.57	2.66 0.3249 0.3434
38 38 38	5.12 5.36 5.18	5.36 0.3271 0.3423
51 51 51	8.53 8.98 8.61	8.98 0.3266 0.3436
63 63 63	12.46 13.10 12.80	13.10 0.3247 0.3415
76 76 76	17.44 18.17 17.90	18.17 0.3259 0.3395
89 89 89	23.43 24.45 23.83	24.45 0.3267 0.3410
102 102 102	29.87 31.30 30.25	31.30 0.3267 0.3424
114 114 114	36.13 37.76 37.15	37.76 0.3254 0.3400
127 127 127	44.33 46.54 44.99	46.54 0.3263 0.3426
140 140 140	52.54 55.10 53.64	55.10 0.3258 0.3416
153 153 153	61.44 64.43 63.24	64.43 0.3249 0.3407
165 165 165	70.61 74.06 72.28	74.06 0.3254 0.3414
178 178 178	81.09 84.75 82.06	84.75 0.3271 0.3419
191 191 191	92.27 96.90 94.45	96.90 0.3253 0.3417
204 204 204	103.82 108.55 106.20	108.55 0.3259 0.3407
216 216 216	115.09 120.82 117.21	120.82 0.3259 0.3422
229 229 229	127.75 133.94 130.00	133.94 0.3261 0.3420
242 242 242	140.75 147.41 143.38	147.41 0.3262 0.3416
0 0 128	7.36 3.54 38.60	3.54 0.1488 0.0714
0 0 255	25.60 11.88 136.36	11.88 0.1473 0.0683
0 128 0	16.22 31.98 4.88	31.98 0.3056 0.6025
0 128 128	23.82 35.93 44.39	35.93 0.2287 0.3450
0 170 255	53.23 66.41 145.43	66.41 0.2008 0.2505
0 255 0	56.68 112.58 16.42	112.58 0.3052 0.6063
0 255 170	69.45 118.82 83.64	118.82 0.2554 0.4370
0 255 255	82.81 125.11 154.63	125.11 0.2284 0.3451
85 85 85	21.53 22.42 21.97	22.42 0.3266 0.3401
128 0 0	19.65 9.95 0.54	9.95 0.6518 0.3302
128 0 128	27.31 13.51 39.65	13.51 0.3394 0.1679
128 128 0	36.28 42.60 5.15	42.60 0.4318 0.5070
128 128 128	44.65 47.05 45.69	47.05 0.3250 0.3425
128 128 255	63.47 56.09 143.27	56.09 0.2415 0.2134
128 255 128	85.42 127.35 58.36	127.35 0.3150 0.4697
170 0 255	59.48 28.89 137.58	28.89 0.2632 0.1279
170 170 170	74.52 78.23 76.04	78.23 0.3257 0.3419
170 255 0	90.63 130.04 16.86	130.04 0.3816 0.5475
170 255 255	117.71 143.05 155.99	143.05 0.2825 0.3433
255 0 0	70.65 35.54 1.10	35.54 0.6585 0.3313
255 0 170	83.20 41.35 68.04	41.35 0.4320 0.2147
255 0 255	96.39 47.38 138.89	47.38 0.3410 0.1676
255 128 128	95.85 73.61 47.73	73.61 0.4413 0.3389
255 170 0	98.51 90.90 8.94	90.90 0.4966 0.4583
255 170 255	125.14 104.06 148.19	104.06 0.3316 0.2757
255 255 0	127.71 149.06 17.26	149.06 0.4344 0.5070
255 255 170	141.02 155.57 87.04	155.57 0.3676 0.4055
170 85 85	45.59 34.67 22.48	34.67 0.4438 0.3374
85 170 85	41.48 61.70 27.96	61.70 0.3163 0.4705
85 85 170	30.65 26.81 69.53	26.81 0.2414 0.2111

85 170 170	50.45 65.95 75.49	65.95 0.2629 0.3437
170 85 170	54.60 38.92 70.11	38.92 0.3337 0.2379
170 170 85	65.50 73.98 28.38	73.98 0.3902 0.4407
0 131 207	34.97 42.46 99.43	42.46 0.1977 0.2401
37 160 221	47.34 59.78 114.70	59.78 0.2134 0.2695
137 194 232	80.66 91.61 127.85	91.61 0.2688 0.3052
189 216 238	107.34 116.68 136.12	116.68 0.2980 0.3240
212 227 240	121.18 129.39 139.31	129.39 0.3108 0.3319
203 15 105	52.60 26.84 29.00	26.84 0.4851 0.2475
212 88 144	68.57 46.95 52.81	46.95 0.4074 0.2789
223 155 191	94.83 82.24 91.60	82.24 0.3530 0.3061
229 197 219	114.69 110.65 117.89	110.65 0.3342 0.3224
233 217 231	125.52 126.61 130.54	126.61 0.3280 0.3309
242 219 0	108.03 119.09 13.34	119.09 0.4493 0.4953
240 224 87	113.30 124.60 35.24	124.60 0.4148 0.4562
238 229 158	121.73 131.29 75.39	131.29 0.3707 0.3998
237 233 202	128.36 136.44 108.56	136.44 0.3438 0.3654
236 235 222	131.72 139.07 124.88	139.07 0.3329 0.3515
215 216 220	115.37 120.97 120.67	120.97 0.3231 0.3388
194 195 199	95.73 100.06 101.43	100.06 0.3221 0.3367
152 153 155	61.41 64.40 64.65	64.40 0.3224 0.3381
110 110 112	34.42 35.87 35.85	35.87 0.3243 0.3379
68 68 69	14.38 15.05 15.02	15.05 0.3236 0.3385
30 30 30	3.48 3.62 3.51	3.62 0.3281 0.3410
34 17 21	2.87 2.17 1.99	2.17 0.4086 0.3090
99 47 37	16.48 12.38 5.42	12.38 0.4808 0.3611
67 65 34	11.95 13.29 5.32	13.29 0.3910 0.4350
42 33 108	9.89 7.00 29.86	7.00 0.2116 0.1497
82 68 138	23.36 19.43 47.76	19.43 0.2580 0.2145
140 130 184	56.02 53.48 82.46	53.48 0.2918 0.2786
185 181 214	90.05 90.60 111.55	90.60 0.3082 0.3101
210 208 228	111.46 114.39 126.43	114.39 0.3164 0.3247
200 27 33	46.75 25.08 4.53	25.08 0.6123 0.3284
211 85 64	60.41 42.20 14.92	42.20 0.5140 0.3591
223 151 128	85.50 76.00 48.45	76.00 0.4072 0.3620
230 195 182	108.67 106.76 87.46	106.76 0.3588 0.3525
233 216 211	122.09 124.51 113.48	124.51 0.3391 0.3458
0 125 53	17.23 31.78 12.50	31.78 0.2800 0.5167
59 152 91	31.82 49.03 28.70	49.03 0.2905 0.4475
142 188 152	68.63 83.61 65.75	83.61 0.3148 0.3835
191 213 197	100.28 111.21 101.61	111.21 0.3203 0.3552
213 225 220	117.57 126.63 121.66	126.63 0.3213 0.3461
211 215 221	113.04 118.64 121.26	118.64 0.3203 0.3361
188 193 201	93.40 98.38 102.88	98.38 0.3170 0.3339
141 149 156	57.06 60.50 64.81	60.50 0.3129 0.3317
99 107 111	30.83 33.06 34.99	33.06 0.3118 0.3343
63 72 75	14.54 16.02 17.36	16.02 0.3034 0.3344
37 50 51	6.82 7.93 8.52	7.93 0.2931 0.3408
7 24 31	1.83 2.24 3.62	2.24 0.2381 0.2912
82 25 31	10.76 6.82 3.78	6.82 0.5038 0.3191
25 50 35	4.93 6.97 4.94	6.97 0.2928 0.4138
41 41 41	5.89 6.13 5.94	6.13 0.3279 0.3414
84 69 67	17.60 16.94 14.47	16.94 0.3591 0.3457
142 127 124	48.56 48.78 43.75	48.78 0.3442 0.3457
187 178 178	84.22 86.38 82.24	86.38 0.3331 0.3416
211 207 209	108.37 112.39 110.14	112.39 0.3275 0.3397

177 81 65	46.42 34.15 14.84	34.15 0.4865 0.3579
117 66 57	24.15 19.63 11.27	19.63 0.4387 0.3565
112 33 32	18.10 11.31 4.16	11.31 0.5392 0.3369
115 29 65	20.13 11.86 12.60	11.86 0.4515 0.2659
120 102 33	29.88 31.40 7.11	31.40 0.4369 0.4592
0 77 43	7.50 13.17 7.44	13.17 0.2668 0.4684
0 77 97	10.97 14.81 26.04	14.81 0.2116 0.2858
38 34 67	6.26 5.36 13.06	5.36 0.2536 0.2171
203 145 127	75.33 68.36 46.92	68.36 0.3952 0.3586
223 142 26	75.69 67.89 8.75	67.89 0.4969 0.4457
203 22 75	50.47 26.39 16.38	26.39 0.5413 0.2830
138 27 106	29.90 16.41 29.18	16.41 0.3961 0.2174
148 179 32	57.05 73.16 12.39	73.16 0.4001 0.5131
0 128 139	25.14 36.61 50.76	36.61 0.2234 0.3254
0 92 167	20.95 23.42 66.17	23.42 0.1895 0.2118
235 237 242	135.29 141.87 142.64	141.87 0.3223 0.3380
29 30 18	3.10 3.46 1.74	3.46 0.3736 0.4166
100 48 71	18.72 13.61 15.12	13.61 0.3946 0.2868
21 51 65	6.23 7.73 12.90	7.73 0.2319 0.2879