UGRA
Display Analysis & Certification Tool Report

Basics

Date:	2022-7-27 10:54:31
Report-Version:	v2.0.0
Monitor-Name:	\\.\DISPLAY1
EDID-Name:	PA348CGV
EDID-Serial:	N5LMQS107442
Profile:	C:/.../PA348CGV-2022-07-27T105013-5800K-18-100%-trc.icm
Created:	2022-7-27 10:50
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	no

Diagram

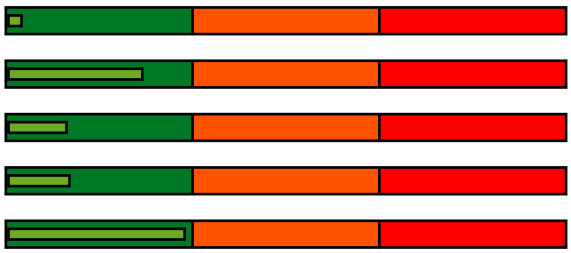
White-Point

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):	152.42 159.87 155.92
XYZ (normalized):	95.34 100.00 97.53
xy:	0.3255 0.3414
Luminance:	159.9 Cd/m2
Next Temperature:	5809 Kelvin
Reference Whitepoint:	5800.0 Kelvin
Deviation XYZ to Reference Whitepoint:	0.1 dE00
	0.1 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:	0.4 Chroma (Lab)

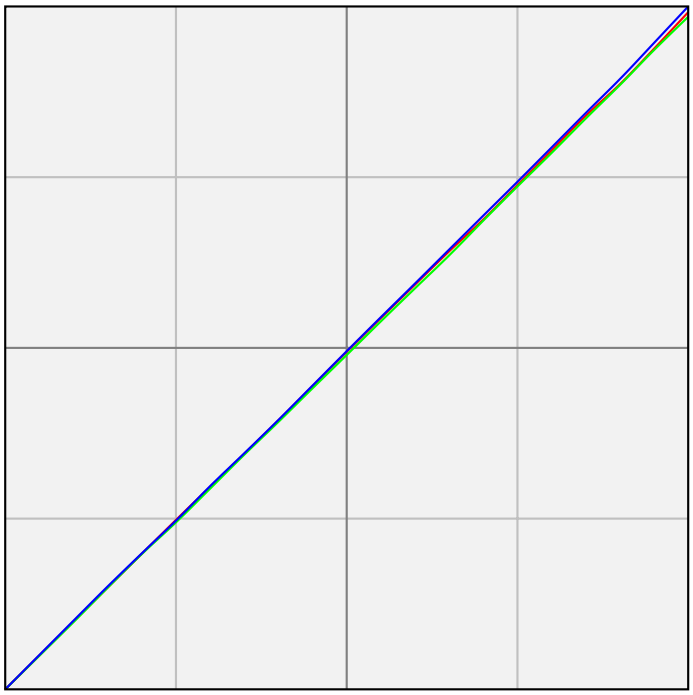
Gray balance

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	6060	0.18	1.03	0.37		
5	6502	0.68	3.87	0.76	1.91	+0.2
10	5898	2.52	13.10	0.59	1.83	+0.3
15	5922	5.22	21.07	0.67	1.82	+0.1
20	5974	8.78	28.09	0.67	1.81	-0.1
25	5838	12.64	33.78	0.70	1.83	-0.3
30	5819	17.93	39.94	0.57	1.82	-0.1
35	5802	23.95	45.61	0.39	1.81	-0.1
40	5837	30.67	50.90	0.64	1.81	-0.0
45	5861	37.55	55.57	0.40	1.82	+0.0
50	5839	45.26	60.17	0.59	1.82	-0.2
55	5770	54.35	64.96	0.61	1.80	+0.0
60	5823	63.81	69.41	0.33	1.80	+0.0
65	5789	72.80	73.25	0.78	1.82	-0.1
70	5842	83.97	77.60	0.28	1.81	+0.1
75	5797	95.25	81.61	0.68	1.82	+0.1
80	5833	106.67	85.37	0.35	1.81	-0.1
85	5778	118.77	89.06	0.40	1.83	+0.1
90	5806	131.80	92.77	0.05	1.83	+0.0
95	5831	145.25	96.35	0.32	1.84	-0.1
100	5809	159.87	100.00	0.00		
Average	5826			0.46	1.82	0.1
Max				0.78		0.3
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 = 98.4%

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: 0.3255 0.3414).

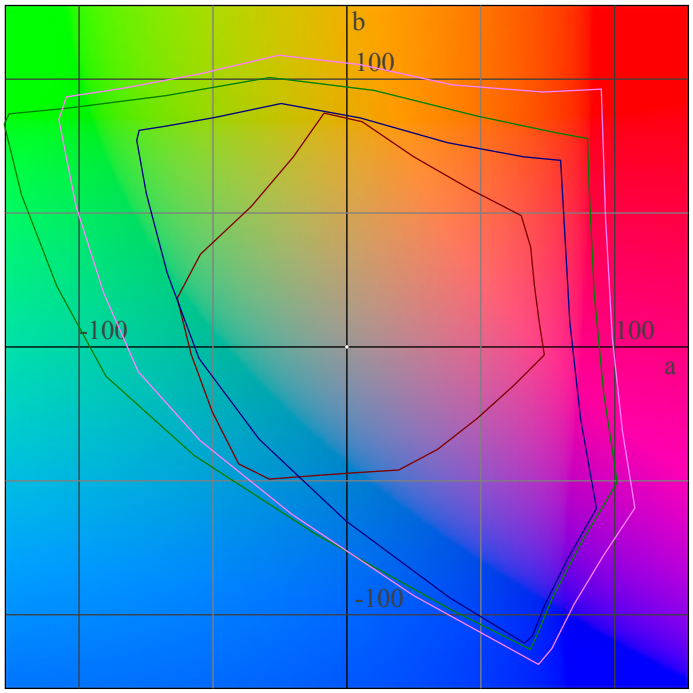
The assumed chromatic adaptation is: Bradford

RGB	Lab	deltaLab	dE76	dE00
0 0 0	1.0 -0.3 0.2	-1.0 0.3 -0.2	1.1	0.8
0 0 128	12.9 48.9 -80.0	-0.3 0.1 0.5	0.6	0.3
0 0 255	27.1 74.2 -120.3	0.2 -0.1 0.1	0.3	0.2
0 128 0	51.6 -71.4 60.7	0.4 -0.7 1.0	1.2	0.5
0 128 128	53.7 -49.0 -11.7	-0.1 0.4 -0.5	0.6	0.4
0 170 255	68.7 -35.9 -51.1	-0.2 0.7 -0.4	0.9	0.4
0 255 0	87.1 -109.5 93.5	-0.3 0.4 -0.2	0.6	0.2
0 255 170	88.2 -91.4 19.9	-0.2 0.9 -1.4	1.7	0.5
0 255 255	89.4 -74.2 -18.0	-0.1 0.6 -0.4	0.7	0.3
85 85 85	44.0 0.2 -0.4	-0.0 -0.2 0.4	0.4	0.5
128 0 0	32.9 63.8 55.2	-0.4 -0.2 0.2	0.5	0.4
128 0 128	36.0 71.9 -40.9	-0.4 -0.5 1.0	1.2	0.5
128 128 0	59.0 -8.6 73.7	0.3 -2.0 0.3	2.1	1.2
128 128 128	60.6 0.9 -0.3	0.1 -0.9 0.3	0.9	1.3
128 128 255	63.8 21.5 -58.9	0.0 -0.4 0.2	0.4	0.2
128 255 128	91.0 -64.5 45.7	-0.0 0.6 -1.2	1.4	0.4
170 0 255	48.9 93.5 -83.3	-0.2 -0.5 0.1	0.5	0.2
170 170 170	74.8 0.7 -0.5	0.1 -0.7 0.5	0.9	1.2
170 255 0	92.5 -53.4 103.1	-0.1 0.0 -0.3	0.3	0.1
170 255 255	94.7 -31.4 -9.1	0.0 0.2 0.1	0.2	0.1
255 0 0	57.4 96.3 97.1	-0.0 -0.2 -0.5	0.5	0.1
255 0 170	59.9 102.8 -24.2	-0.3 -0.7 1.7	1.9	0.6
255 0 255	62.2 108.5 -60.6	-0.1 -0.6 0.3	0.6	0.1
255 128 128	74.0 54.2 22.5	0.1 -1.3 0.5	1.4	0.6
255 170 0	80.9 27.8 101.3	0.3 -1.9 -0.4	2.0	0.9
255 170 255	84.0 42.7 -25.4	-0.0 -0.7 0.3	0.8	0.2
255 255 0	97.9 -15.6 112.7	0.0 -0.5 -0.7	0.8	0.3
255 255 170	98.9 -7.9 37.6	0.0 -0.2 -0.3	0.3	0.2
255 255 255	100.0 -0.0 0.0	-0.0 0.0 0.0	0.0	0.0
170 85 85	54.7 42.7 18.3	-0.1 -1.1 -0.1	1.1	0.4
85 170 85	67.7 -50.7 35.7	0.1 0.4 -0.6	0.7	0.2
85 85 170	46.6 17.0 -47.4	-0.2 -0.4 1.2	1.3	0.4
85 170 170	69.0 -36.5 -10.6	0.1 0.3 0.6	0.7	0.4
170 85 170	56.5 51.2 -30.1	-0.2 -1.2 0.9	1.5	0.4
170 170 85	73.7 -8.2 46.0	0.1 -0.6 -0.7	0.9	0.5
Average			0.9	0.4
Maximum			2.1	1.3

Gamut-Volume

These measurements are only informative.

ISO Coated v2 (FOGRA39L)	98 %
sRGB	100 %
AdobeRGB	94 %
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: 0.3255 0.3414) 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	0.6
Maximum		4.0	3.8
Primaries		5.0	3.8
Composite Gray Max		3.0	1.4

Reference (Lab)	Measurement (Lab)	Measurement (Yxy)	dE76	dE00
55.0 -37.0 -50.0	56.4 -27.6 -48.0	24.34 0.1864 0.2551	9.7	3.8
66.9 -24.7 -37.1	66.9 -25.2 -37.7	36.55 0.2251 0.2907	0.8	0.3
79.7 -12.5 -21.8	79.8 -13.0 -21.9	56.37 0.2850 0.3252	0.5	0.3
87.7 -5.8 -11.8	87.8 -6.3 -11.7	71.55 0.3163 0.3423	0.5	0.5
91.5 -3.0 -7.0	91.6 -2.9 -7.1	79.76 0.3299 0.3485	0.2	0.2
48.0 74.0 -3.0	48.0 74.8 -3.7	16.83 0.5088 0.2571	1.1	0.3
60.8 50.6 -6.7	61.0 51.2 -7.0	29.26 0.4304 0.2902	0.7	0.3
76.4 25.8 -6.9	76.5 26.6 -7.0	50.77 0.3764 0.3216	0.9	0.4
86.2 12.0 -5.2	86.3 11.7 -5.3	68.52 0.3543 0.3396	0.3	0.3
90.7 5.9 -3.9	90.7 5.9 -3.8	77.73 0.3480 0.3474	0.1	0.1
89.0 -5.0 93.0	89.1 -4.8 95.1	74.30 0.4617 0.4946	2.1	0.4
90.3 -4.7 62.6	90.5 -4.9 63.7	77.31 0.4316 0.4621	1.1	0.3
92.2 -3.5 31.1	92.2 -3.5 31.3	81.18 0.3898 0.4136	0.2	0.1
93.6 -1.6 13.3	93.6 -2.1 13.5	84.39 0.3643 0.3827	0.5	0.5
94.3 -0.9 5.4	94.3 -0.9 5.1	85.98 0.3527 0.3678	0.3	0.2
89.0 0.0 -1.8	89.1 0.4 -1.9	74.32 0.3431 0.3550	0.4	0.5
82.8 0.0 -1.7	82.8 -0.4 -1.8	61.81 0.3419 0.3555	0.4	0.6
69.3 0.0 -1.4	69.4 -0.2 -1.3	39.89 0.3425 0.3559	0.3	0.4
54.1 0.0 -1.0	54.1 0.0 -0.9	22.10 0.3434 0.3560	0.0	0.0
36.6 -0.0 -0.5	36.3 0.6 -1.0	9.15 0.3439 0.3539	0.8	1.0
16.0 0.0 0.0	16.2 0.2 -0.7	2.13 0.3428 0.3539	0.8	0.8
10.4 13.9 1.4	10.4 14.0 -0.2	1.18 0.4260 0.3124	1.6	1.1
33.4 25.4 20.9	33.3 24.9 20.8	7.67 0.4982 0.3704	0.4	0.2
34.4 -3.3 22.3	34.0 -2.5 21.8	8.00 0.4091 0.4394	1.1	0.9
24.0 22.0 -46.0	23.9 22.2 -46.7	4.05 0.2204 0.1588	0.7	0.3
40.9 17.9 -36.6	40.8 18.3 -37.7	11.73 0.2727 0.2279	1.2	0.5
63.7 10.3 -23.8	63.8 11.0 -24.2	32.60 0.3118 0.2941	0.8	0.5
79.4 5.1 -13.6	79.6 4.7 -14.0	56.05 0.3270 0.3278	0.6	0.7
87.2 2.6 -8.1	87.0 3.7 -8.4	70.08 0.3366 0.3406	1.1	1.3
47.0 68.0 48.0	47.1 69.0 48.2	16.10 0.6243 0.3287	1.0	0.3
58.5 47.1 37.9	58.6 48.2 38.3	26.61 0.5327 0.3634	1.2	0.4
74.2 22.9 21.4	74.3 24.0 21.3	47.10 0.4299 0.3726	1.1	0.7
85.0 10.0 9.8	85.1 9.8 9.9	66.28 0.3784 0.3672	0.3	0.2
90.0 4.7 3.7	90.0 5.1 3.4	76.28 0.3590 0.3602	0.4	0.5
50.0 -65.0 27.0	50.2 -63.4 28.7	18.57 0.2520 0.5558	2.3	1.0
62.1 -39.8 21.0	62.2 -40.2 21.1	30.64 0.3059 0.4642	0.4	0.1
77.0 -19.1 11.0	76.9 -19.3 11.0	51.43 0.3328 0.4002	0.2	0.2
86.3 -8.4 4.2	86.5 -8.8 4.7	68.90 0.3401 0.3747	0.7	0.5
90.8 -4.1 0.9	90.8 -4.2 0.9	78.08 0.3410 0.3636	0.1	0.1
88.5 -0.4 -3.1	88.7 -0.4 -3.0	73.51 0.3400 0.3536	0.2	0.2

82.0 -0.9 -4.1	82.0 -1.1 -3.8	60.36 0.3369 0.3523	0.4	0.4
67.7 -2.0 -4.4	67.6 -1.7 -4.9	37.39 0.3321 0.3493	0.6	0.6
52.2 -2.5 -3.5	52.2 -3.5 -3.2	20.34 0.3292 0.3540	1.1	1.4
37.5 -3.9 -3.1	37.5 -3.9 -2.9	9.79 0.3248 0.3545	0.3	0.2
26.3 -6.8 -3.4	26.5 -7.1 -3.9	4.91 0.3038 0.3545	0.6	0.5
10.4 -8.2 -10.2	10.8 -8.6 -10.4	1.23 0.2328 0.3048	0.6	0.5
24.3 32.7 13.1	24.3 33.1 12.8	4.20 0.5291 0.3254	0.5	0.3
24.7 -17.0 7.5	24.7 -17.3 6.9	4.32 0.3056 0.4331	0.7	0.5
23.0 0.0 0.0	22.7 0.2 -0.6	3.71 0.3437 0.3554	0.7	0.7
38.5 6.6 3.9	38.5 6.7 4.2	10.37 0.3789 0.3610	0.3	0.3
61.5 5.4 3.8	61.5 6.8 3.5	29.78 0.3675 0.3589	1.4	1.5
78.1 2.9 0.9	78.1 2.8 0.5	53.45 0.3513 0.3571	0.4	0.4
86.6 1.5 -0.7	86.6 2.0 -0.8	69.13 0.3474 0.3553	0.6	0.8
53.1 37.7 28.9	53.2 39.1 29.5	21.19 0.5079 0.3640	1.5	0.5
41.5 22.7 16.8	41.5 22.7 17.2	12.17 0.4610 0.3676	0.4	0.3
31.9 40.0 24.0	31.8 40.5 23.1	7.00 0.5582 0.3378	1.1	0.7
32.5 44.4 -1.8	32.7 44.8 -2.2	7.39 0.4768 0.2768	0.5	0.2
51.3 1.3 44.5	51.1 1.3 44.9	19.34 0.4511 0.4616	0.4	0.2
34.6 -36.4 13.9	34.3 -37.1 13.6	8.18 0.2688 0.4889	0.7	0.4
36.0 -26.2 -20.9	35.7 -26.4 -21.2	8.87 0.2048 0.3100	0.5	0.3
20.9 9.6 -23.6	20.7 9.6 -24.6	3.18 0.2642 0.2295	0.9	0.6
71.2 18.8 17.3	71.1 19.6 16.9	42.36 0.4160 0.3703	0.9	0.7
71.2 22.2 73.1	71.2 23.6 75.0	42.50 0.5118 0.4423	2.4	0.7
47.7 71.2 16.2	47.9 71.8 16.1	16.69 0.5609 0.2903	0.6	0.2
38.0 55.4 -20.9	38.3 56.0 -21.2	10.24 0.4213 0.2296	0.7	0.3
73.7 -22.8 67.6	73.7 -22.4 68.5	46.19 0.4137 0.5132	1.0	0.4
52.3 -52.3 -20.2	53.3 -45.1 -17.8	21.36 0.2076 0.3518	7.6	2.5
43.3 -17.0 -48.6	43.7 -15.7 -48.4	13.65 0.1806 0.2263	1.4	0.8
95.0 0.0 -2.0	94.9 0.2 -2.3	87.47 0.3424 0.3545	0.4	0.4
15.7 -3.1 11.7	15.8 -3.1 9.9	2.06 0.3827 0.4250	1.7	1.2
34.7 28.5 -4.0	34.6 28.8 -4.1	8.29 0.4180 0.2988	0.3	0.2
25.8 -11.0 -14.4	26.2 -11.3 -13.9	4.81 0.2495 0.3134	0.6	0.4
Average			1.0	0.6
Gamut-Volume				98 %

Measurement Data

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

RGB	XYZ	Yxy
255 255 255	152.42 159.87 155.92	159.87 0.3255 0.3414
0 0 0	0.16 0.18 0.16	0.18 0.3186 0.3611
12 12 12	0.63 0.68 0.70	0.68 0.3112 0.3402
25 25 25	2.42 2.52 2.54	2.52 0.3238 0.3372
38 38 38	4.99 5.22 5.24	5.22 0.3233 0.3376
51 51 51	8.34 8.78 8.78	8.78 0.3221 0.3389
63 63 63	12.13 12.64 12.55	12.64 0.3250 0.3386
76 76 76	17.19 17.93 17.70	17.93 0.3254 0.3395
89 89 89	22.93 23.95 23.50	23.95 0.3257 0.3404
102 102 102	29.06 30.67 29.72	30.67 0.3249 0.3428
114 114 114	35.67 37.55 36.74	37.55 0.3244 0.3415
127 127 127	43.28 45.26 44.65	45.26 0.3250 0.3398
140 140 140	52.09 54.35 53.13	54.35 0.3264 0.3406
153 153 153	60.93 63.81 62.59	63.81 0.3253 0.3406
165 165 165	69.80 72.80 71.49	72.80 0.3260 0.3401
178 178 178	79.96 83.97 82.22	83.97 0.3248 0.3411
191 191 191	90.50 95.25 92.08	95.25 0.3257 0.3428
204 204 204	101.76 106.67 104.64	106.67 0.3250 0.3407
216 216 216	113.53 118.77 115.72	118.77 0.3262 0.3413
229 229 229	125.70 131.80 128.54	131.80 0.3256 0.3414
242 242 242	138.53 145.25 142.37	145.25 0.3251 0.3408
0 0 128	7.56 2.83 42.91	2.83 0.1419 0.0530
0 0 255	25.36 9.35 144.28	9.35 0.1417 0.0522
0 128 0	12.37 31.60 3.13	31.60 0.2627 0.6709
0 128 128	19.93 35.02 44.59	35.02 0.2003 0.3518
0 170 255	46.49 63.44 149.71	63.44 0.1790 0.2444
0 255 0	43.73 112.18 10.73	112.18 0.2624 0.6732
0 255 170	55.64 116.47 78.90	116.47 0.2217 0.4640
0 255 255	68.84 121.01 155.02	121.01 0.1996 0.3509
85 85 85	21.16 22.13 21.82	22.13 0.3250 0.3399
128 0 0	24.63 11.59 0.19	11.59 0.6765 0.3183
128 0 128	32.27 14.39 43.65	14.39 0.3574 0.1594
128 128 0	36.89 42.90 3.14	42.90 0.4448 0.5173
128 128 128	44.29 46.08 45.24	46.08 0.3266 0.3398
128 128 255	62.43 52.94 148.60	52.94 0.2365 0.2006
128 255 128	74.58 125.39 51.32	125.39 0.2968 0.4990
170 0 255	66.50 28.60 146.02	28.60 0.2758 0.1186
170 170 170	73.62 76.77 75.64	76.77 0.3257 0.3396
170 255 0	83.75 130.32 10.72	130.32 0.3726 0.5797
170 255 255	108.92 139.45 155.69	139.45 0.2696 0.3451
255 0 0	83.65 39.20 0.32	39.20 0.6791 0.3183
255 0 170	97.03 44.17 73.24	44.17 0.4525 0.2060
255 0 255	109.83 48.84 146.42	48.84 0.3600 0.1601
255 128 128	104.16 73.88 45.74	73.88 0.4654 0.3301
255 170 0	104.77 91.85 5.25	91.85 0.5190 0.4550
255 170 255	130.54 102.25 151.20	102.25 0.3400 0.2663
255 255 0	127.04 150.19 10.68	150.19 0.4412 0.5217
255 255 170	139.21 154.86 80.32	154.86 0.3718 0.4136
170 85 85	50.44 35.74 21.74	35.74 0.4674 0.3312
85 170 85	35.61 60.01 24.64	60.01 0.2961 0.4990
85 85 170	30.26 25.59 73.44	25.59 0.2340 0.1979

85 170 170	44.47 63.30 75.57	63.30 0.2426 0.3453
170 85 170	59.44 39.06 73.10	39.06 0.3464 0.2276
170 170 85	64.70 73.49 24.73	73.49 0.3971 0.4511
0 130 204	30.19 39.72 100.94	39.72 0.1767 0.2325
73 159 218	46.71 59.24 115.28	59.24 0.2111 0.2678
149 193 230	79.44 90.67 127.86	90.67 0.2666 0.3043
194 216 237	105.33 114.71 134.99	114.71 0.2967 0.3231
215 227 240	119.84 127.71 139.17	127.71 0.3099 0.3302
182 35 103	52.30 26.44 29.17	26.44 0.4846 0.2450
195 95 142	68.44 46.42 53.46	46.42 0.4066 0.2758
212 158 190	94.01 80.97 90.29	80.97 0.3544 0.3052
224 199 218	113.17 109.48 116.85	109.48 0.3333 0.3225
230 218 230	123.25 124.25 128.86	124.25 0.3275 0.3301
237 217 37	106.53 117.78 11.87	117.78 0.4511 0.4987
237 222 97	111.53 122.77 33.14	122.77 0.4170 0.4591
236 228 162	119.33 129.28 72.62	129.28 0.3715 0.4024
236 233 203	126.18 134.67 105.30	134.67 0.3446 0.3678
236 235 223	130.02 137.35 123.41	137.35 0.3327 0.3515
215 216 220	113.66 118.85 119.50	118.85 0.3229 0.3376
194 195 199	94.06 98.85 99.48	98.85 0.3217 0.3381
152 153 155	60.73 63.78 63.89	63.78 0.3223 0.3385
110 110 112	33.72 35.34 35.28	35.34 0.3232 0.3387
68 68 69	14.07 14.64 14.78	14.64 0.3236 0.3366
30 30 30	3.27 3.41 3.45	3.41 0.3225 0.3365
31 17 21	2.54 1.88 1.88	1.88 0.4033 0.2984
91 49 37	16.03 12.11 5.14	12.11 0.4816 0.3639
66 64 36	11.56 12.73 5.17	12.73 0.3924 0.4319
41 36 105	9.58 6.68 30.10	6.68 0.2067 0.1440
80 71 136	23.06 18.99 48.79	18.99 0.2538 0.2091
139 132 181	55.52 52.35 82.76	52.35 0.2912 0.2746
185 182 213	89.08 89.81 111.70	89.81 0.3065 0.3091
210 208 227	109.94 112.15 125.67	112.15 0.3161 0.3225
180 39 34	47.31 25.10 4.42	25.10 0.6158 0.3267
194 90 66	60.50 41.88 14.40	41.88 0.5181 0.3586
211 152 129	84.88 74.77 47.17	74.77 0.4104 0.3615
224 196 183	107.35 105.66 86.76	105.66 0.3581 0.3525
230 216 212	119.92 121.80 112.35	121.80 0.3387 0.3440
0 121 57	13.04 29.78 11.95	29.78 0.2381 0.5438
82 149 95	31.56 49.05 28.48	49.05 0.2893 0.4496
151 186 154	67.32 82.26 64.69	82.26 0.3142 0.3839
195 212 198	98.69 110.17 99.03	110.17 0.3205 0.3578
215 225 220	115.77 124.87 119.88	124.87 0.3211 0.3464
212 215 221	111.91 117.58 120.43	117.58 0.3198 0.3360
189 193 201	91.48 96.57 100.69	96.57 0.3168 0.3345
143 149 156	56.39 59.85 64.48	59.85 0.3120 0.3312
100 107 111	29.99 32.56 34.41	32.56 0.3093 0.3358
65 72 74	14.24 15.68 16.74	15.68 0.3052 0.3360
40 50 51	6.70 7.87 8.94	7.87 0.2849 0.3348
11 24 31	1.54 1.99 3.53	1.99 0.2181 0.2817
75 28 31	10.64 6.61 3.57	6.61 0.5111 0.3175
30 49 36	4.79 6.92 4.91	6.92 0.2884 0.4164
41 41 41	5.67 5.93 5.94	5.93 0.3234 0.3380
81 70 67	17.13 16.54 14.12	16.54 0.3584 0.3460
140 127 124	48.05 47.52 42.91	47.52 0.3470 0.3431
185 178 178	83.10 85.42 82.52	85.42 0.3310 0.3403
210 207 209	106.86 110.50 109.33	110.50 0.3271 0.3382

163 84 66	45.92 33.42 14.09	33.42 0.4915 0.3577
109 68 57	23.78 19.27 10.72	19.27 0.4423 0.3584
102 36 33	17.95 10.98 4.10	10.98 0.5435 0.3325
104 35 64	20.01 11.66 12.50	11.66 0.4530 0.2640
116 101 39	29.15 30.67 6.80	30.67 0.4376 0.4604
25 75 45	7.04 13.12 7.59	13.12 0.2537 0.4727
15 76 96	9.71 14.38 26.26	14.38 0.1929 0.2856
37 35 66	6.02 5.15 13.29	5.15 0.2461 0.2104
194 146 128	74.45 67.33 46.16	67.33 0.3961 0.3582
210 143 38	75.74 67.11 8.14	67.11 0.5016 0.4445
182 38 74	50.26 26.12 16.32	26.12 0.5422 0.2818
125 37 104	29.90 16.26 29.60	16.26 0.3946 0.2146
154 176 47	57.21 73.43 12.05	73.43 0.4009 0.5146
0 126 138	20.66 34.55 50.55	34.55 0.1953 0.3267
0 92 164	18.70 22.36 67.79	22.36 0.1718 0.2054
236 237 241	133.68 139.89 141.39	139.89 0.3222 0.3371
29 30 19	2.89 3.28 1.75	3.28 0.3647 0.4140
93 50 70	18.30 13.17 14.90	13.17 0.3946 0.2840
29 51 64	6.23 7.76 12.69	7.76 0.2335 0.2909