

# UGRA

## Display Analysis & Certification Tool

### Report

#### Basics

Date: 2014-2-14 16:58:55  
Report-Version: v2.0.0  
Monitor-Name: \\.\DISPLAY1  
EDID-Name: DELL U2711  
EDID-Serial: G606T19U0AGL  
Profile: C:/Windows/system32/.../DELL U2711 ProfileMaker 14-02-2014 2.icc  
Created: 2014-2-14 16:48  
Measurement device: i1Pro, Rev. 3, Serial: 1006031  
Evaluation method: UDACT v2.0

#### Summary

WARNING: The monitor profile is a LookUpTable-Profile. Some applications do not support LUT-Profiles correctly.

**Calibration** (Reference Whitepoint: 5500.00 Kelvin)

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

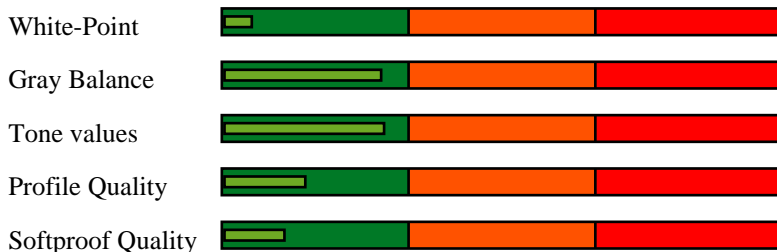


**The monitor has  
passed the certification  
according to the UDACT v2.0  
specifications.**

**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):	112.94 117.91 108.48
XYZ (normalized):	95.79 100.00 92.01
xy:	0.3328 0.3475
Luminance:	117.9 Cd/m2
Next Temperature:	5484 Kelvin
Reference Whitepoint:	5500.0 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:	0.1 Cd/m2
Chromaticity:	1.2 Chroma (Lab)

## Gray balance

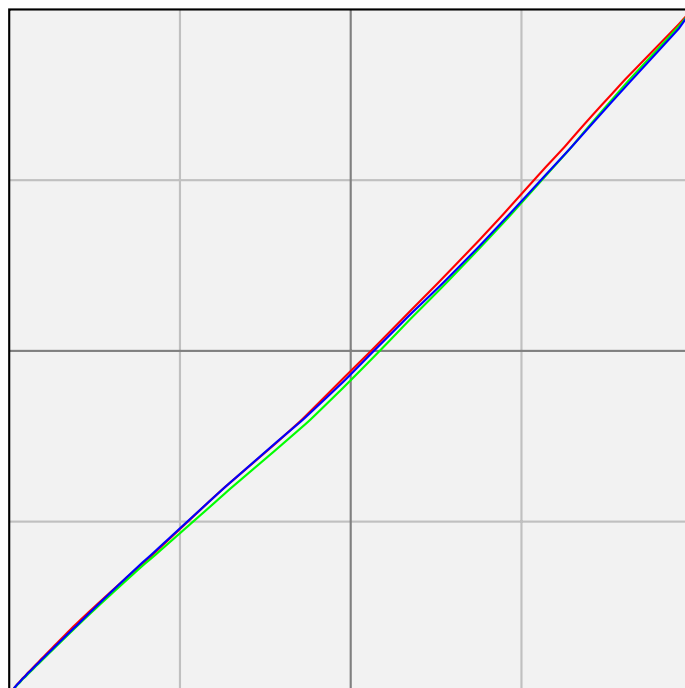
Average and maximum calculation will respect measurements with 1% minimum luminance only. The L-deviation shows the difference between the profile and measurement value.

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	10860	0.14	1.05	1.19		
5	7876	0.26	2.03	1.30	2.28	+1.0
10	5782	0.81	6.20	0.57	2.26	+0.8
15	5519	1.88	13.21	1.21	2.22	+0.6
20	5580	3.49	19.89	0.44	2.21	+0.4
25	5459	5.46	25.65	0.79	2.23	+0.2
30	5538	8.20	31.70	0.57	2.22	+0.1
35	5508	11.65	37.63	1.36	2.20	+0.1
40	5535	15.72	43.26	0.33	2.21	+0.1
45	5516	19.83	48.03	1.08	2.23	-0.1
50	5485	25.38	53.52	0.10	2.22	+0.0
55	5441	31.50	58.71	0.70	2.21	+0.1
60	5492	38.24	63.70	0.12	2.21	+0.0
65	5491	45.22	68.28	0.15	2.23	+0.1
70	5471	53.68	73.24	0.34	2.22	+0.2
75	5472	62.44	77.85	0.12	2.21	+0.1
80	5475	71.62	82.24	0.28	2.23	-0.2
85	5472	81.58	86.60	0.56	2.25	-0.1
90	5471	92.73	91.07	0.25	2.28	-0.1
95	5499	104.91	95.57	0.38	2.24	-0.0
100	5484	117.91	100.00	0.00		
Average	5493			0.45	2.23	0.1
Max				1.36		-0.4
Range				1.69		

## 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 = 95.7%

## 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: 0.3328 0.3475).

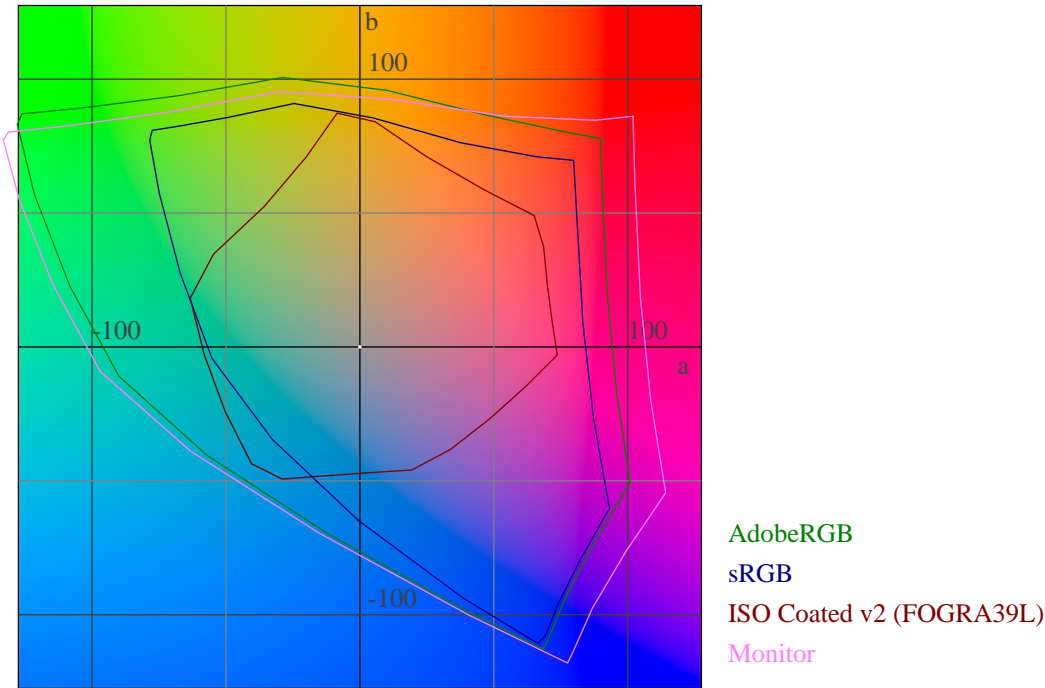
The assumed chromatic adaptation is: CAT02

RGB	Lab	deltaLab	dE76	dE00
0 0 0	1.0 -0.1 -1.2	-1.0 0.1 1.2	1.6	1.3
0 0 128	9.6 47.2 -71.0	-0.2 0.0 -0.4	0.5	0.2
0 0 255	25.7 81.0 -120.2	0.6 -2.5 1.4	3.0	0.8
0 128 0	44.8 -80.9 47.0	0.3 0.1 1.4	1.4	0.5
0 128 128	46.4 -55.4 -12.1	0.2 0.9 0.1	1.0	0.3
0 170 255	63.5 -35.7 -58.1	0.1 0.6 0.4	0.8	0.2
0 255 0	85.5 -136.0 79.8	0.1 1.8 0.5	1.8	0.4
0 255 170	86.5 -115.8 21.7	0.1 1.5 0.1	1.5	0.3
0 255 255	87.9 -91.6 -20.4	0.1 1.1 0.4	1.1	0.2
85 85 85	35.9 0.0 -0.6	-0.2 0.2 0.8	0.8	0.8
128 0 0	29.6 61.1 45.7	0.1 0.8 1.8	2.0	0.7
128 0 128	32.0 69.2 -33.3	0.2 -0.1 0.6	0.6	0.3
128 128 0	52.5 -9.6 58.9	0.2 -0.2 0.6	0.7	0.3
128 128 128	53.8 -0.0 -0.3	0.0 0.2 0.4	0.4	0.5
128 128 255	57.7 27.9 -66.9	-0.0 0.0 0.3	0.3	0.2
128 255 128	89.1 -87.0 46.6	0.0 0.5 0.5	0.7	0.2
170 0 255	47.0 96.9 -83.9	0.4 -1.1 1.0	1.5	0.5
170 170 170	70.0 0.2 -0.3	0.0 -0.1 0.3	0.4	0.4
170 255 0	91.0 -69.4 88.7	0.1 0.3 -0.3	0.4	0.1
170 255 255	93.1 -43.2 -11.5	0.1 0.1 0.2	0.3	0.2
255 0 0	59.8 102.7 92.0	-0.0 -0.1 -5.5	5.5	1.7
255 0 170	61.5 108.3 -10.1	0.1 -0.5 0.2	0.6	0.1
255 0 255	63.7 115.5 -55.2	0.3 -0.9 0.5	1.1	0.3
255 128 128	72.1 67.5 29.8	-0.1 -0.0 0.1	0.1	0.1
255 170 0	79.1 39.1 90.1	0.1 -0.5 -1.6	1.7	0.3
255 170 255	82.0 54.4 -26.7	-0.0 0.1 -0.1	0.2	0.0
255 255 0	98.0 -16.8 99.9	0.1 0.1 -1.1	1.1	0.2
255 255 170	98.8 -9.6 41.5	0.1 0.0 0.2	0.3	0.1
255 255 255	100.0 -0.0 0.0	0.0 -0.0 0.0	0.0	0.0
170 85 85	49.4 50.2 21.8	-0.1 0.1 0.6	0.6	0.3
85 170 85	62.0 -64.8 34.4	-0.0 0.5 0.8	1.0	0.4
85 85 170	38.6 21.0 -49.9	-0.1 -0.2 0.3	0.4	0.1
85 170 170	63.3 -46.9 -11.6	-0.0 0.5 0.4	0.6	0.2
170 85 170	51.1 58.9 -28.7	0.0 -0.1 0.3	0.4	0.1
170 170 85	69.0 -9.7 45.7	-0.0 0.3 0.6	0.7	0.3
Average			1.0	0.4
Maximum			5.5	1.7

# Gamut-Volume





These measurements are only informative.

ISO Coated v2 (FOGRA39L)	100 %
sRGB	100 %
AdobeRGB	99 %
ECI-RGB v2.0	93 %



## Softproof Quality

The measurements are converted to Lab values based on the measured whitepoint (xy: 0.3328 0.3475) 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	1.3
Primaries		5.0	1.1
Composite Gray Max		3.0	0.9

Reference (Lab)	Measurement (Lab)	Measurement (Yxy)	dE76	dE00
55.0 -37.0 -50.0	55.5 -34.5 -49.6	23.41 0.1710 0.2531	2.6	1.0
66.9 -24.7 -37.1	66.9 -25.1 -37.5	36.44 0.2256 0.2911	0.6	0.2
79.7 -12.5 -21.8	79.5 -12.1 -22.3	55.76 0.2853 0.3237	0.7	0.5
87.7 -5.8 -11.8	87.5 -5.2 -12.1	71.06 0.3171 0.3407	0.6	0.6
91.5 -3.0 -7.0	91.6 -2.9 -7.2	79.78 0.3297 0.3483	0.3	0.2
48.0 74.0 -3.0	47.8 74.2 -3.3	16.67 0.5092 0.2580	0.4	0.2
60.8 50.6 -6.7	60.8 51.4 -7.5	29.05 0.4297 0.2891	1.1	0.4
76.4 25.8 -6.9	76.6 25.7 -6.9	50.79 0.3753 0.3227	0.2	0.1
86.2 12.0 -5.2	86.2 12.1 -5.5	68.40 0.3545 0.3390	0.3	0.2
90.7 5.9 -3.9	90.7 5.3 -3.9	77.84 0.3468 0.3477	0.6	0.7
89.0 -5.0 93.0	88.8 -4.9 92.7	73.77 0.4600 0.4931	0.3	0.1
90.3 -4.7 62.6	90.4 -4.6 62.4	77.07 0.4305 0.4603	0.2	0.1
92.2 -3.5 31.1	92.2 -3.8 30.7	81.25 0.3884 0.4128	0.6	0.4
93.6 -1.6 13.3	93.4 -1.0 12.8	83.99 0.3648 0.3807	0.8	0.8
94.3 -0.9 5.4	93.9 -0.3 4.6	85.15 0.3526 0.3665	1.1	1.1
89.0 0.0 -1.8	89.0 0.5 -2.0	74.09 0.3430 0.3546	0.5	0.7
82.8 0.0 -1.7	82.5 0.2 -2.3	61.18 0.3419 0.3540	0.7	0.7
69.3 0.0 -1.4	69.4 -0.2 -1.5	39.87 0.3421 0.3554	0.3	0.3
54.1 0.0 -1.0	54.2 -0.5 -1.1	22.18 0.3419 0.3563	0.5	0.7
36.6 -0.0 -0.5	37.0 0.2 -1.3	9.53 0.3420 0.3538	0.9	0.8
16.0 0.0 0.0	16.5 -0.0 -0.4	2.19 0.3435 0.3565	0.6	0.5
10.4 13.9 1.4	11.3 13.1 0.7	1.30 0.4251 0.3210	1.4	1.0
33.4 25.4 20.9	33.5 24.7 20.1	7.76 0.4945 0.3692	1.1	0.5
34.4 -3.3 22.3	34.5 -3.1 21.2	8.25 0.4051 0.4386	1.1	0.5
24.0 22.0 -46.0	24.0 21.6 -46.2	4.11 0.2214 0.1611	0.4	0.3
40.9 17.9 -36.6	41.1 17.8 -36.7	11.90 0.2748 0.2312	0.2	0.2
63.7 10.3 -23.8	63.7 10.0 -24.4	32.46 0.3093 0.2943	0.7	0.6
79.4 5.1 -13.6	79.4 4.6 -13.8	55.64 0.3271 0.3280	0.5	0.6
87.2 2.6 -8.1	87.1 2.8 -8.6	70.27 0.3349 0.3409	0.5	0.4
47.0 68.0 48.0	47.1 67.8 47.8	16.10 0.6213 0.3306	0.4	0.1
58.5 47.1 37.9	58.5 46.9 36.8	26.44 0.5277 0.3636	1.1	0.5
74.2 22.9 21.4	74.1 22.2 20.6	46.91 0.4255 0.3734	1.0	0.4
85.0 10.0 9.8	84.9 10.4 8.9	65.80 0.3778 0.3650	1.0	0.9
90.0 4.7 3.7	89.8 4.7 3.1	75.93 0.3580 0.3600	0.6	0.5
50.0 -65.0 27.0	50.1 -65.3 25.9	18.47 0.2423 0.5488	1.1	0.5
62.1 -39.8 21.0	62.2 -41.0 20.2	30.61 0.3023 0.4629	1.5	0.7
77.0 -19.1 11.0	76.8 -18.6 10.3	51.19 0.3327 0.3982	0.9	0.5
86.3 -8.4 4.2	86.3 -8.1 3.8	68.61 0.3396 0.3724	0.5	0.4
90.8 -4.1 0.9	90.6 -3.7 0.4	77.60 0.3409 0.3622	0.7	0.7
88.5 -0.4 -3.1	88.4 -0.8 -3.4	72.94 0.3386 0.3531	0.6	0.7

82.0 -0.9 -4.1	81.7 -0.3 -4.5	59.77 0.3371 0.3503	0.8	0.9
67.7 -2.0 -4.4	67.8 -2.6 -4.7	37.65 0.3308 0.3506	0.8	0.9
52.2 -2.5 -3.5	52.3 -2.3 -4.2	20.39 0.3295 0.3499	0.7	0.6
37.5 -3.9 -3.1	37.7 -3.9 -4.0	9.91 0.3213 0.3506	0.9	0.7
26.3 -6.8 -3.4	26.3 -7.4 -4.3	4.85 0.3007 0.3532	1.1	0.9
10.4 -8.2 -10.2	11.4 -7.3 -10.8	1.31 0.2396 0.3006	1.4	1.2
24.3 32.7 13.1	24.6 31.9 11.9	4.28 0.5199 0.3264	1.5	0.7
24.7 -17.0 7.5	25.0 -18.0 6.7	4.40 0.3025 0.4330	1.3	0.9
23.0 0.0 0.0	23.4 -0.3 -1.1	3.92 0.3394 0.3541	1.2	1.2
38.5 6.6 3.9	38.6 5.9 3.0	10.45 0.3727 0.3587	1.1	0.9
61.5 5.4 3.8	61.6 5.5 3.0	29.95 0.3639 0.3594	0.7	0.7
78.1 2.9 0.9	78.4 3.0 0.7	53.89 0.3519 0.3572	0.4	0.3
86.6 1.5 -0.7	86.4 1.5 -1.4	68.80 0.3457 0.3548	0.7	0.7
53.1 37.7 28.9	53.1 38.0 27.8	21.11 0.5020 0.3630	1.2	0.7
41.5 22.7 16.8	41.8 22.1 16.9	12.38 0.4578 0.3682	0.7	0.5
31.9 40.0 24.0	32.1 39.0 22.4	7.12 0.5504 0.3403	1.9	0.8
32.5 44.4 -1.8	32.8 43.5 -3.6	7.43 0.4669 0.2754	2.1	1.0
51.3 1.3 44.5	51.2 1.2 43.8	19.42 0.4489 0.4599	0.7	0.3
34.6 -36.4 13.9	34.8 -35.9 13.1	8.39 0.2722 0.4830	1.0	0.4
36.0 -26.2 -20.9	36.1 -25.7 -21.8	9.06 0.2060 0.3076	1.1	0.6
20.9 9.6 -23.6	21.1 9.6 -24.3	3.28 0.2661 0.2316	0.7	0.5
71.2 18.8 17.3	71.3 18.6 16.9	42.69 0.4140 0.3716	0.4	0.2
71.2 22.2 73.1	71.0 21.8 73.3	42.18 0.5071 0.4439	0.5	0.3
47.7 71.2 16.2	47.9 70.8 16.1	16.70 0.5586 0.2917	0.5	0.2
38.0 55.4 -20.9	37.8 55.2 -21.6	9.99 0.4180 0.2285	0.7	0.4
73.7 -22.8 67.6	73.4 -23.0 67.4	45.81 0.4114 0.5133	0.4	0.2
52.3 -52.3 -20.2	52.3 -52.9 -20.3	20.45 0.1860 0.3493	0.6	0.2
43.3 -17.0 -48.6	43.2 -15.9 -49.9	13.26 0.1760 0.2214	1.7	0.7
95.0 0.0 -2.0	94.5 0.5 -3.1	86.56 0.3414 0.3529	1.3	1.3
15.7 -3.1 11.7	16.4 -3.7 11.6	2.18 0.3868 0.4348	0.9	0.9
34.7 28.5 -4.0	35.1 27.9 -5.1	8.53 0.4111 0.2980	1.3	0.8
25.8 -11.0 -14.4	25.9 -11.2 -15.5	4.73 0.2431 0.3055	1.1	0.7
Average			0.8	0.6
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	112.94 117.91 108.48	117.91 0.3328 0.3475
0 0 0	0.13 0.14 0.21	0.14 0.2733 0.2883
12 12 12	0.25 0.26 0.33	0.26 0.2946 0.3119
25 25 25	0.77 0.81 0.78	0.81 0.3261 0.3427
38 38 38	1.84 1.88 1.82	1.88 0.3320 0.3395
51 51 51	3.34 3.49 3.28	3.49 0.3306 0.3451
63 63 63	5.28 5.46 5.11	5.46 0.3334 0.3442
76 76 76	7.88 8.20 7.69	8.20 0.3315 0.3450
89 89 89	11.30 11.65 11.06	11.65 0.3322 0.3426
102 102 102	15.05 15.72 14.60	15.72 0.3316 0.3465
114 114 114	19.14 19.83 18.66	19.83 0.3321 0.3441
127 127 127	24.33 25.38 23.39	25.38 0.3328 0.3472
140 140 140	30.37 31.50 29.10	31.50 0.3338 0.3463
153 153 153	36.60 38.24 35.18	38.24 0.3326 0.3476
165 165 165	43.34 45.22 41.72	45.22 0.3327 0.3471
178 178 178	51.36 53.68 49.11	53.68 0.3332 0.3483
191 191 191	59.85 62.44 57.39	62.44 0.3331 0.3475
204 204 204	68.73 71.62 66.02	71.62 0.3330 0.3470
216 216 216	78.41 81.58 75.39	81.58 0.3331 0.3466
229 229 229	88.96 92.73 85.36	92.73 0.3331 0.3472
242 242 242	100.60 104.91 97.06	104.91 0.3325 0.3467
0 0 128	3.94 1.42 20.71	1.42 0.1512 0.0545
0 0 255	17.90 6.18 96.04	6.18 0.1490 0.0514
0 128 0	5.20 16.99 2.66	16.99 0.2092 0.6837
0 128 128	9.03 18.51 23.26	18.51 0.1777 0.3644
0 170 255	27.64 38.60 100.71	38.60 0.1656 0.2312
0 255 0	23.86 78.82 11.78	78.82 0.2084 0.6886
0 255 170	31.19 81.54 50.60	81.54 0.1910 0.4992
0 255 255	41.81 85.26 107.54	85.26 0.1782 0.3634
85 85 85	10.12 10.56 9.92	10.56 0.3308 0.3452
128 0 0	15.26 7.04 0.39	7.04 0.6724 0.3105
128 0 128	19.24 8.39 21.20	8.39 0.3940 0.1718
128 128 0	20.66 24.13 2.86	24.13 0.4336 0.5064
128 128 128	24.65 25.74 23.84	25.74 0.3321 0.3467
128 128 255	38.77 30.81 98.90	30.81 0.2301 0.1829
128 255 128	43.58 87.55 33.09	87.55 0.2654 0.5331
170 0 255	46.62 19.31 96.46	19.31 0.2871 0.1189
170 170 170	46.19 48.13 44.50	48.13 0.3327 0.3467
170 255 0	53.01 92.08 12.03	92.08 0.3374 0.5861
170 255 255	70.95 98.46 107.74	98.46 0.2560 0.3553
255 0 0	70.64 32.36 0.87	32.36 0.6801 0.3115
255 0 170	77.99 34.87 40.31	34.87 0.5092 0.2276
255 0 255	88.41 38.41 96.96	38.41 0.3951 0.1717
255 128 128	80.06 51.18 24.74	51.18 0.5133 0.3281
255 170 0	80.55 64.43 5.61	64.43 0.5349 0.4279
255 170 255	98.40 71.09 101.47	71.09 0.3632 0.2624
255 255 0	94.69 111.18 12.45	111.18 0.4337 0.5093
255 255 170	102.00 113.77 51.96	113.77 0.3810 0.4249
170 85 85	32.75 20.92 10.21	20.92 0.5127 0.3274
85 170 85	17.78 35.81 13.64	35.81 0.2644 0.5326
85 85 170	15.85 12.54 40.48	12.54 0.2301 0.1821

85 170 170	23.48 37.85 44.21	37.85 0.2225 0.3586
170 85 170	38.43 22.87 40.80	22.87 0.3764 0.2240
170 170 85	40.45 46.21 13.99	46.21 0.4019 0.4591
0 147 216	19.54 28.04 69.93	28.04 0.1663 0.2386
104 174 227	34.00 43.37 79.48	43.37 0.2168 0.2765
169 203 236	58.21 66.03 88.50	66.03 0.2736 0.3104
206 222 241	77.85 83.95 93.80	83.95 0.3046 0.3284
223 232 243	88.68 94.17 96.96	94.17 0.3169 0.3366
183 55 122	38.40 19.50 19.78	19.50 0.4943 0.2511
196 115 160	50.55 34.15 37.16	34.15 0.4148 0.2803
214 174 201	69.24 59.85 62.50	59.85 0.3614 0.3124
227 209 225	83.88 80.66 81.34	80.66 0.3411 0.3280
233 225 235	91.05 91.80 89.94	91.80 0.3338 0.3365
239 223 0	79.13 86.40 9.39	86.40 0.4524 0.4939
240 227 107	83.18 90.38 24.16	90.38 0.4207 0.4571
239 233 173	88.77 95.50 51.53	95.50 0.3765 0.4050
240 236 211	93.90 98.89 73.90	98.89 0.3521 0.3708
239 238 228	95.83 100.34 85.83	100.34 0.3398 0.3558
222 223 226	83.99 87.38 83.07	87.38 0.3301 0.3434
204 205 208	69.27 72.16 69.13	72.16 0.3290 0.3427
167 168 170	44.99 47.02 44.62	47.02 0.3293 0.3442
128 129 130	24.94 26.15 24.70	26.15 0.3290 0.3451
87 87 88	10.81 11.25 10.78	11.25 0.3291 0.3425
44 44 44	2.48 2.59 2.43	2.59 0.3306 0.3453
44 29 33	2.01 1.53 1.35	1.53 0.4111 0.3124
106 67 52	12.05 9.08 3.78	9.08 0.4837 0.3646
85 83 50	8.82 9.69 3.88	9.69 0.3940 0.4328
55 53 126	6.95 4.97 20.69	4.97 0.2131 0.1524
97 91 155	16.98 14.18 33.39	14.18 0.2631 0.2196
153 149 195	40.41 38.44 57.44	38.44 0.2965 0.2820
195 194 221	65.32 65.72 76.87	65.72 0.3142 0.3161
217 217 233	81.10 82.94 87.87	82.94 0.3219 0.3292
182 59 44	34.98 18.71 3.13	18.71 0.6157 0.3293
195 110 81	44.42 30.89 10.45	30.89 0.5180 0.3602
213 168 145	62.16 55.08 33.26	55.08 0.4130 0.3660
227 206 194	79.52 77.45 61.02	77.45 0.3648 0.3553
233 223 219	88.34 89.46 78.21	89.46 0.3451 0.3495
51 138 72	9.42 21.78 9.26	21.78 0.2328 0.5383
111 164 112	23.24 36.07 20.44	36.07 0.2914 0.4523
171 197 168	49.95 60.33 45.51	60.33 0.3206 0.3873
207 219 207	73.23 80.90 69.77	80.90 0.3271 0.3613
223 230 226	85.57 91.51 83.68	91.51 0.3282 0.3509
219 222 227	82.02 86.05 83.72	86.05 0.3258 0.3417
200 203 210	67.49 70.53 70.16	70.53 0.3242 0.3388
159 165 171	41.70 44.44 44.99	44.44 0.3180 0.3389
120 125 130	22.56 24.07 24.57	24.07 0.3168 0.3381
84 91 94	10.68 11.71 12.20	11.71 0.3087 0.3385
57 67 69	4.87 5.74 6.25	5.74 0.2887 0.3403
23 37 46	1.25 1.56 2.63	1.56 0.2300 0.2862
89 43 45	7.91 5.00 2.66	5.00 0.5082 0.3212
48 67 51	3.59 5.19 3.54	5.19 0.2912 0.4215
58 58 58	4.40 4.62 4.46	4.62 0.3265 0.3428
99 89 86	12.69 12.30 10.30	12.30 0.3596 0.3487
155 145 142	35.47 35.28 30.34	35.28 0.3508 0.3490
196 191 191	62.17 63.52 57.72	63.52 0.3390 0.3463
217 215 217	78.55 81.13 76.39	81.13 0.3328 0.3437

170 104 82	33.85 24.70 10.35	24.70 0.4912 0.3585
124 87 74	17.88 14.51 7.71	14.51 0.4458 0.3620
115 53 46	13.35 8.31 3.02	8.31 0.5408 0.3368
116 52 83	14.72 8.71 9.14	8.71 0.4518 0.2675
133 120 49	21.87 22.76 5.10	22.76 0.4397 0.4577
50 93 61	5.50 9.90 5.60	9.90 0.2619 0.4714
41 95 117	7.33 10.79 18.83	10.79 0.1984 0.2920
52 51 86	4.54 3.92 9.35	3.92 0.2549 0.2199
200 163 144	55.36 50.16 32.44	50.16 0.4013 0.3636
212 159 38	55.52 49.32 6.21	49.32 0.4999 0.4441
184 58 92	37.16 19.48 11.29	19.48 0.5470 0.2868
134 55 124	21.52 11.78 20.30	11.78 0.4015 0.2197
172 188 49	42.21 53.74 8.94	53.74 0.4024 0.5124
24 143 156	13.13 24.31 35.73	24.31 0.1795 0.3322
31 112 181	13.09 15.94 47.40	15.94 0.1712 0.2086
239 240 244	98.19 102.09 98.59	102.09 0.3285 0.3416
44 45 29	2.24 2.56 1.18	2.56 0.3754 0.4277
107 69 90	13.78 10.04 10.95	10.04 0.3964 0.2886
46 68 84	4.50 5.61 9.17	5.61 0.2333 0.2911