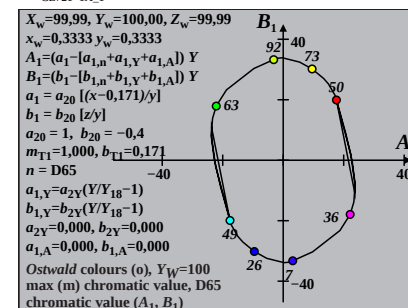
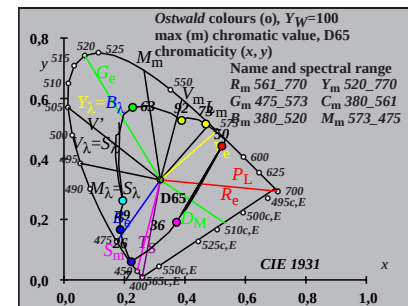


see similar files: <http://farbe.li-tu-berlin.de/CE72/CE72L0NP.PDF> / .PS
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, Y _w =100, Y _m =520_770													
i ₁ , λ ₁	i ₂ , λ ₂	Y	A	B	C _{AB}	a	b	h _{AB}	i _d , λ _d	i _c , λ _c	Code		
0 405	32 561	57.55	-22.49	-17.69	28.62	0.5596	-0.743	218.1	16 483	37 589	Cm		
7 435	32 562	58.04	-27.99	-6.64	28.77	0.4682	-0.55	193.3	17 488	-1 488c			
9 450	32 563	58.99	-31.59	1.12	31.61	0.4148	-0.4165	177.9	18 493	-1 493c			
11 460	33 565	60.01	-34.9	9.17	36.09	0.3687	-0.2826	165.2	20 501	-1 501c			
13 465	33 567	60.53	-37.02	15.95	40.31	0.3387	-0.172	156.6	22 512	-1 512c			
14 470	33 569	62.02	-37.72	19.11	42.28	0.3422	-0.1274	153.1	24 520	-1 520c			
15 475	34 573	64.56	-37.86	22.22	43.9	0.364	-0.0913	149.5	25 528	-1 528c	Gm		
16 480	36 580	69.17	-37.06	25.75	45.13	0.4146	-0.0632	145.2	27 537	-1 537c			
17 485	39 595	77.87	-32.37	30.66	44.58	0.5347	-0.0418	136.5	29 548	-1 548c			
18 490	-1 490c	92.76	-11.93	37.97	39.8	0.8218	-0.0261	107.4	33 565	11 459	max		
18 495	-1 494c	92.76	-11.93	37.97	39.8	0.8218	-0.0261	107.4	33 565	11 459			
20 500	-1 500c	89.41	-8.81	37.65	38.66	0.8518	-0.0144	103.1	33 567	12 464			
21 510	-1 509c	87.1	-6.65	37.02	37.61	0.874	-0.0105	100.1	33 568	13 467			
23 520	-1 519c	81.07	-1.24	34.85	34.87	0.935	-0.0056	92.0	34 570	14 471	Ym		
25 530	-1 529c	73.22	5.1	31.66	32.07	1.0201	-0.0031	80.8	34 573	15 475			
28 540	-1 540c	59.46	14.34	25.82	29.54	1.1917	-0.0012	60.9	35 579	15 479			
29 545	-1 545c	54.65	16.98	23.75	29.2	1.2613	-0.0009	54.4	36 582	16 480			
30 550	-1 550c	49.84	19.28	21.67	29.0	1.3372	-0.0007	48.3	36 584	16 481			
31 555	-1 555c	45.12	21.14	19.62	28.85	1.419	-0.0006	42.8	37 586	16 482			
31 560	-1 559c	45.12	21.14	19.62	28.85	1.419	-0.0006	42.8	37 586	16 482			
32 561	0 405	41.32	22.49	17.69	28.62	1.4947	-0.0072	38.1	37 589	16 483	Rm		
32 562	7 435	40.83	27.99	6.64	28.77	1.6359	-0.2728	13.3	-1 488c	17 488			
32 563	9 450	39.89	31.59	-1.12	31.61	1.7425	-0.4636	357.9	-1 493c	18 493			
33 565	11 460	38.86	34.9	-9.17	36.09	1.8485	-0.6716	345.2	-1 501c	20 501			
33 567	13 465	38.35	37.02	-15.95	40.31	1.9158	-0.8515	336.6	-1 512c	22 512			
33 569	14 470	36.85	37.72	-19.11	42.28	1.9738	-0.9541	333.1	-1 520c	24 520			
34 573	15 475	34.31	37.86	-22.22	43.9	2.0536	-1.083	329.5	-1 528c	25 528	Mm		
36 580	16 480	29.7	37.06	-25.75	45.13	2.1981	-1.3025	325.2	-1 537c	27 537			
39 595	17 485	21.0	32.37	-30.66	44.58	2.4913	-1.895	316.5	-1 548c	29 548			
-1 490c	18 490	6.12	11.93	-37.97	39.8	2.899	-6.6372	287.4	11 459	33 565	min		
-1 494c	18 495	6.12	11.93	-37.97	39.8	2.899	-6.6372	287.4	11 459	33 565			
-1 500c	20 500	9.47	8.81	-37.65	38.66	1.8814	-4.4106	283.1	12 464	33 567			
-1 509c	21 510	11.77	6.65	-37.02	37.61	1.5159	-3.5796	280.1	13 467	33 568			
-1 519c	23 520	17.8	1.24	-34.85	34.87	1.0204	-2.3925	272.0	14 471	34 570	Bm		
-1 529c	25 530	25.66	-5.1	-31.66	32.07	0.7516	-1.6693	260.8	15 475	34 573			
-1 540c	28 540	39.42	-14.34	-25.82	29.54	0.5865	-1.0906	240.9	15 479	35 579			
-1 545c	29 545	44.23	-16.98	-23.75	29.2	0.5663	-0.9725	234.4	16 480	36 582			
-1 550c	30 550	49.04	-19.28	-21.67	29.0	0.5572	-0.8774	228.3	16 481	36 584			
-1 555c	31 555	53.75	-21.14	-19.62	28.85	0.557	-0.8006	222.8	16 482	37 586			
-1 559c	31 560	53.75	-21.14	-19.62	28.85	0.557	-0.8006	222.8	16 482	37 586			
380	770	98.88	0.0	0.0	0.01	0.9504	-0.4355	0.0					

TUB-test chart CE72; CIE (x, y) and chromatic values (A_i, B_i)
Ostwald optimal colours for illuminant D65; diagram for illuminant D65, Y_w=100

input: w/rgb/cmyk -> rgb



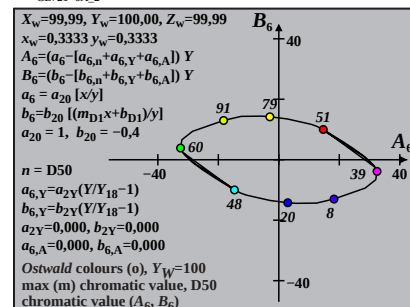
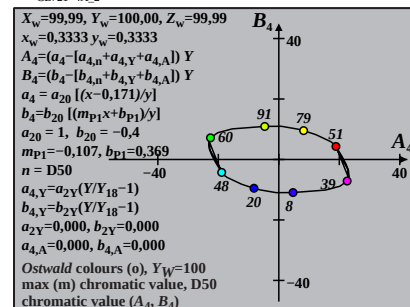
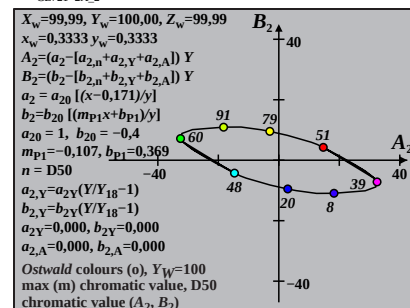
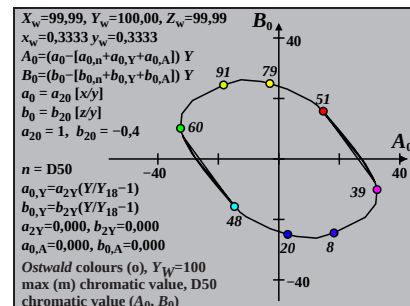
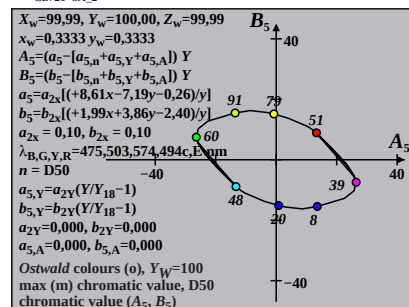
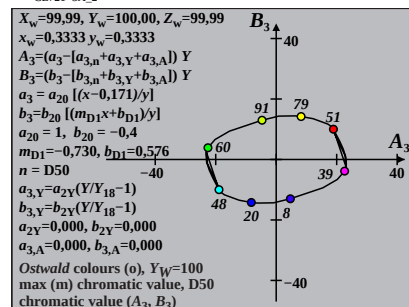
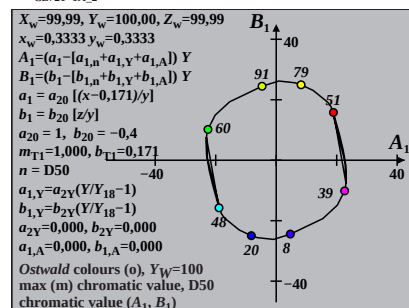
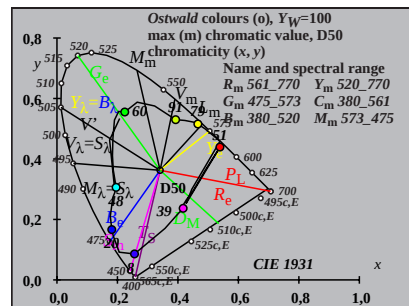
Ostwald optimal colours (o) of maximum (m) C_{AB} for D50, $Y_w=100$, $Y_m=520\text{--}770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{AB}	i_d, λ_d	i_c, λ_c	Code
0 405	32 564	56.83	-25.59	-13.49	28.93	0.5139	-0.5674	207.8	17 486	38 592	Cm
7 435	33 565	57.19	-29.26	-6.09	29.89	0.4526	-0.4365	191.7	18 490	46 634	
10 450	33 566	57.68	-32.97	2.33	33.06	0.3925	-0.2895	175.9	19 497	-1 497c	
11 460	33 567	58.57	-34.22	5.49	34.66	0.38	-0.2361	170.8	20 501	-1 501c	
13 465	33 568	58.93	-35.87	10.73	37.44	0.3555	-0.1478	163.3	22 511	-1 511c	
14 470	34 570	60.0	-36.36	13.09	38.65	0.3581	-0.1117	160.1	23 519	-1 519c	
15 475	34 573	61.82	-36.45	15.32	39.54	0.3745	-0.0821	157.2	25 527	-1 527c	Gm
15 480	35 578	65.77	-36.28	16.62	39.91	0.4125	-0.0772	155.3	26 531	-1 531c	
17 485	37 587	71.01	-33.74	20.55	39.51	0.489	-0.0405	148.6	28 544	-1 544c	
18 490	44 620	86.52	-18.93	26.37	32.46	0.7454	-0.0251	125.6	32 561	-1 561c	max
18 495	-1 494c	93.35	-8.27	28.62	29.79	0.8756	-0.0233	106.1	33 567	12 461	
19 500	-1 499c	92.06	-7.06	28.75	29.61	0.8874	-0.0176	103.8	33 568	12 463	
22 510	-1 510c	85.85	-1.21	27.71	27.74	0.95	-0.0071	92.5	34 571	14 471	
24 520	-1 520c	79.4	4.39	25.88	26.25	1.0196	-0.0039	80.3	34 573	15 475	Ym
26 530	-1 530c	71.26	10.66	23.36	25.68	1.1138	-0.0021	65.4	35 577	15 479	
28 540	-1 540c	62.26	16.57	20.47	26.34	1.2304	-0.0011	50.9	36 581	16 481	
29 545	-1 545c	57.55	19.22	18.94	26.99	1.2983	-0.0009	44.5	36 583	16 483	
29 550	-1 549c	57.55	19.22	18.94	26.99	1.2983	-0.0009	44.5	36 583	16 483	
31 555	-1 555c	48.11	23.48	15.84	28.32	1.4522	-0.0006	34.0	37 587	17 485	
32 560	-1 560c	43.52	24.94	14.33	28.77	1.5375	-0.0005	29.8	38 590	17 486	
32 564	0 405	41.46	25.59	13.49	28.93	1.5814	-0.0044	27.8	38 592	17 486	Rm
33 565	7 435	41.1	29.26	6.09	29.88	1.6761	-0.1817	11.7	46 634	18 490	
33 566	10 450	40.61	32.97	-2.33	33.06	1.7762	-0.3874	355.9	-1 497c	19 497	
33 567	11 460	39.72	34.22	-5.49	34.66	1.8258	-0.4683	350.8	-1 501c	20 501	
33 568	13 465	39.36	35.87	-10.73	37.44	1.8756	-0.6026	343.3	-1 511c	22 511	
34 570	14 470	38.29	36.36	-13.09	38.65	1.9139	-0.6719	340.1	-1 519c	23 519	
34 573	15 475	36.47	36.45	-15.32	39.54	1.9639	-0.7501	337.2	-1 527c	25 527	Mm
35 578	15 480	32.51	36.28	-16.62	39.91	2.08	-0.8412	335.3	-1 531c	26 531	
37 587	17 485	27.28	33.74	-20.55	39.51	2.201	-1.0832	328.6	-1 544c	28 544	
44 620	18 490	11.77	18.93	-26.37	32.46	2.572	-2.5696	305.6	-1 561c	32 561	min
-1 494c	18 495	4.94	8.27	-28.62	29.79	2.636	-6.1167	286.1	12 461	33 567	
-1 499c	19 500	6.23	7.06	-28.75	29.6	2.0975	-4.9398	283.8	12 463	33 568	
-1 510c	22 510	12.44	1.21	-27.71	27.74	1.0617	-2.5572	272.5	14 471	34 571	
-1 520c	24 520	18.89	-4.39	-25.88	26.25	0.7314	-1.6998	260.3	15 475	34 573	Bm
-1 530c	26 530	27.03	-10.66	-23.36	25.68	0.5697	-1.1942	245.4	15 479	35 577	
-1 540c	28 540	36.03	-16.57	-20.47	26.34	0.504	-0.8982	230.9	16 481	36 581	
-1 545c	29 545	40.74	-19.22	-18.94	26.99	0.4922	-0.7949	224.5	16 483	36 583	
-1 549c	29 550	40.74	-19.22	-18.94	26.99	0.4922	-0.7949	224.5	16 483	36 583	
-1 555c	31 555	50.18	-23.48	-15.84	28.32	0.4963	-0.6457	214.0	17 485	37 587	
-1 560c	32 560	54.77	-24.95	-14.33	28.77	0.5087	-0.5917	209.8	17 486	38 590	
380	770	98.29	0.0	0.0	0.01	0.9642	-0.3299	0.0			

TUB-test chart CE72; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant D50; diagram for illuminant D50, $Y_w=100$

input: w/rgb/cmyk -> rgb



TUB registration: 20170801-CE72/CE72L0NP.PDF /.PS
application for measurement of offset print output

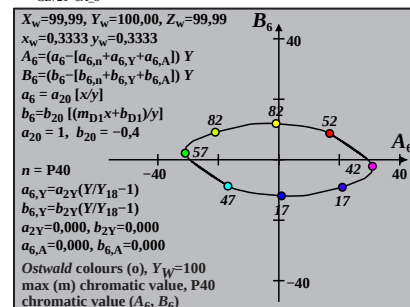
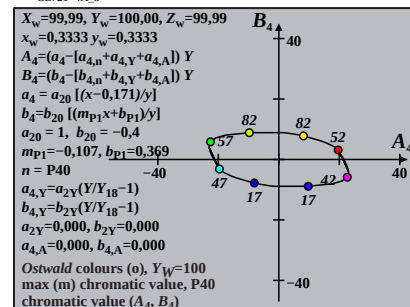
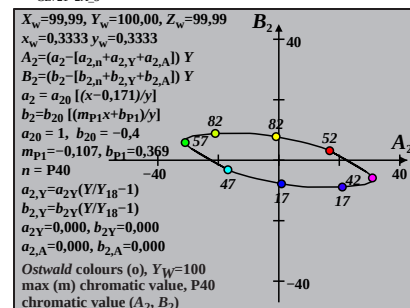
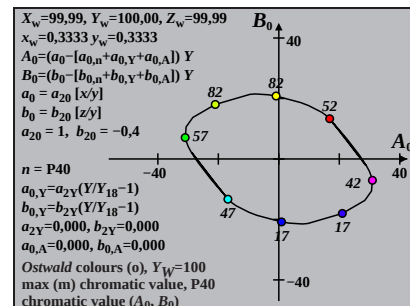
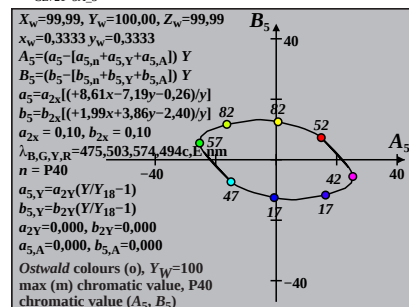
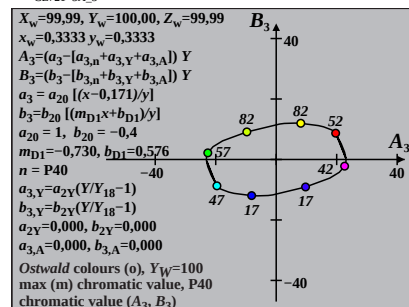
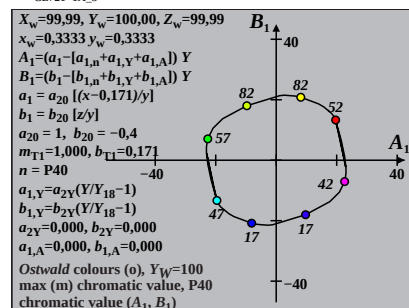
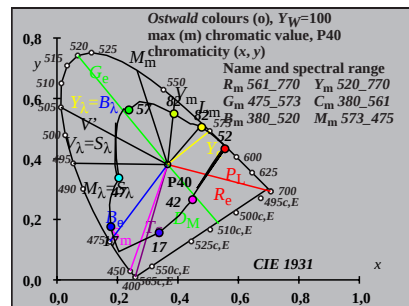
TUB material: code=rha4ta

Ostwald optimal colours (o) of maximum (m) C_{AB} for P40, $Y_w=100$, $Y_m=520\text{--}770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{AB}	i_d, λ_d	i_c, λ_c	Code
1 405	33 568	55.72	-27.98	-10.76	29.98	0.507	-0.4518	201.0	17 488	38 594	Cm
6 435	33 568	56.05	-30.18	-6.39	30.85	0.4707	-0.3729	191.9	18 491	42 614	
9 450	33 569	56.53	-32.95	-0.48	32.96	0.4263	-0.2672	180.8	19 497	-1 497c	
12 460	34 570	56.92	-35.33	5.79	35.8	0.3884	-0.1569	170.6	21 507	-1 507c	
13 465	34 571	57.42	-35.85	7.75	36.68	0.3848	-0.1237	167.7	22 512	-1 512c	
13 470	34 572	58.61	-35.96	8.06	36.85	0.3957	-0.1212	167.3	22 513	-1 513c	
15 475	34 574	59.76	-36.32	11.17	38.0	0.4015	-0.0717	162.8	25 527	-1 527c	Gm
16 480	35 578	62.31	-35.92	12.83	38.15	0.4327	-0.0527	160.3	27 535	-1 535c	
17 485	37 585	66.99	-34.57	14.82	37.61	0.4932	-0.0374	156.7	28 543	-1 543c	
18 490	40 600	76.97	-28.21	18.0	33.47	0.6427	-0.0248	147.4	31 555	-1 555c	max
19 495	-1 495c	93.44	-5.1	22.73	23.3	0.9546	-0.0154	102.6	34 571	12 464	
20 500	-1 500c	92.03	-3.69	22.74	23.04	0.9691	-0.0116	99.2	34 571	13 467	
22 510	-1 510c	87.99	0.27	22.2	22.2	1.0124	-0.0063	89.2	34 573	14 472	
24 520	-1 520c	82.15	5.62	20.96	21.7	1.0777	-0.0035	74.9	35 575	15 476	Ym
26 530	-1 530c	74.79	11.61	19.2	22.44	1.1646	-0.0019	58.8	35 578	16 480	
28 540	-1 540c	66.38	17.52	17.1	24.48	1.2733	-0.0011	44.2	36 582	16 483	
29 545	-1 545c	61.91	20.24	15.96	25.78	1.3362	-0.0008	38.2	36 584	16 484	
29 550	-1 549c	61.91	20.24	15.96	25.78	1.3362	-0.0008	38.2	36 584	16 484	
31 555	-1 555c	52.69	24.79	13.6	28.28	1.4798	-0.0005	28.7	37 588	17 486	
31 560	-1 559c	52.69	24.79	13.6	28.28	1.4798	-0.0005	28.7	37 588	17 486	
33 568	1 405	42.75	27.98	10.76	29.98	1.6638	-0.007	21.0	38 594	17 488	Rm
33 568	6 435	42.43	30.18	6.39	30.85	1.7207	-0.1079	11.9	42 614	18 491	
33 569	9 450	41.94	32.95	0.48	32.96	1.7949	-0.2472	0.8	-1 497c	19 497	
34 570	12 460	41.56	35.33	-5.79	35.8	1.8594	-0.3982	350.6	-1 507c	21 507	
34 571	13 465	41.05	35.85	-7.75	36.68	1.8827	-0.4476	347.7	-1 512c	22 512	
34 572	13 470	39.86	35.96	-8.06	36.85	1.9114	-0.4609	347.3	-1 513c	22 513	
34 574	15 475	38.71	36.32	-11.17	38.0	1.9474	-0.5474	342.8	-1 527c	25 527	Mm
35 578	16 480	36.17	35.92	-12.83	38.15	2.0025	-0.6136	340.3	-1 535c	27 535	
37 585	17 485	31.49	34.57	-14.82	37.61	2.107	-0.7294	336.7	-1 543c	28 543	
40 600	18 490	21.51	28.21	-18.0	33.47	2.3212	-1.0957	327.4	-1 555c	31 555	min
-1 495c	19 495	5.04	5.1	-22.73	23.3	2.0215	-4.7666	282.6	12 464	34 571	
-1 500c	20 500	6.45	3.69	-22.74	23.04	1.5816	-3.7821	279.2	13 467	34 571	
-1 510c	22 510	10.48	-0.27	-22.2	22.2	0.983	-2.3762	269.2	14 472	34 573	
-1 520c	24 520	16.33	-5.62	-20.96	21.7	0.665	-1.5424	254.9	15 476	35 575	Bm
-1 530c	26 530	23.68	-11.61	-19.2	22.44	0.5189	-1.0695	238.8	16 480	35 578	
-1 540c	28 540	32.1	-17.52	-17.1	24.48	0.4634	-0.7914	224.2	16 483	36 582	
-1 545c	29 545	36.57	-20.24	-15.96	25.78	0.4558	-0.6953	218.2	16 484	36 584	
-1 549c	29 550	36.57	-20.24	-15.96	25.78	0.4558	-0.6953	218.2	16 484	36 584	
-1 555c	31 555	45.78	-24.79	-13.6	28.28	0.4677	-0.5558	208.7	17 486	37 588	
-1 559c	31 560	45.78	-24.79	-13.6	28.28	0.4677	-0.5558	208.7	17 486	37 588	
380	770	98.48	0.0	0.0	0.01	1.0093	-0.2587	0.0			

TUB-test chart CE72; CIE (x, y) and chromatic values (A_i, B_i)
Ostwald optimal colours for illuminant P40; diagram for illuminant P40, $Y_w=100$

input: w/rgb/cmyk -> rgb



TUB registration: 20170801-CE72/CE72L0NP.PDF /.PS
application for measurement of offset print output

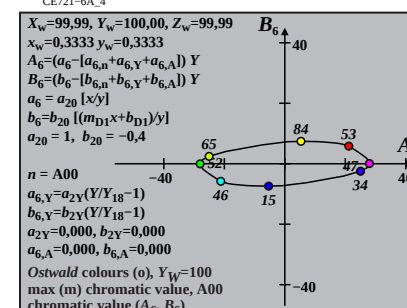
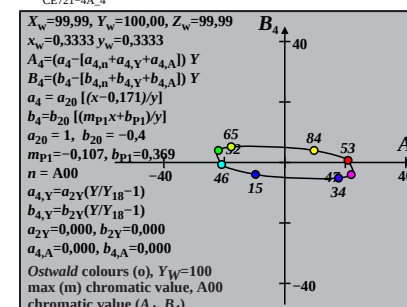
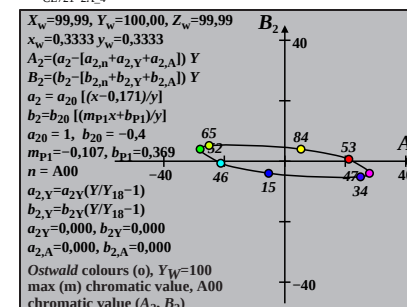
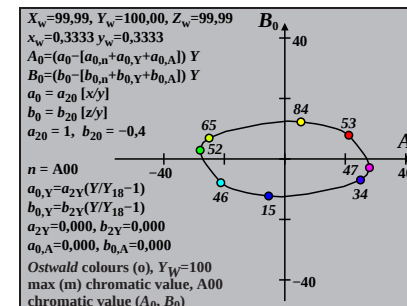
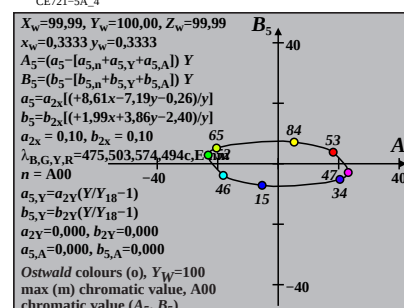
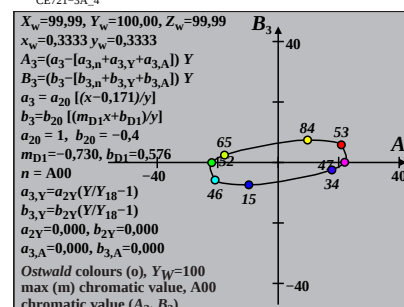
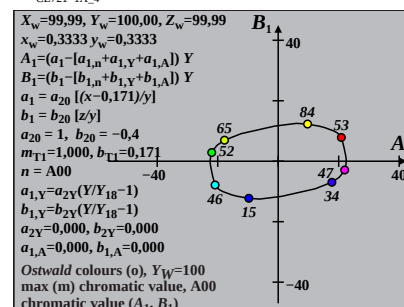
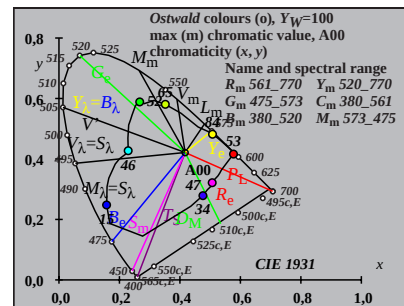
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Ostwald optimal colours (o) of maximum (m) C_{AB} for A00, $Y_w=100$, $Y_m=520\text{--}770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{AB}	i_d, λ_d	i_c, λ_c	Code
0 405	34 574	55.2	-32.74	-6.44	33.37	0.5053	-0.259	191.1	18 494	39 599	Cm
6 435	34 574	55.38	-33.75	-4.45	34.04	0.4891	-0.2227	187.5	19 496	42 611	
9 450	34 574	55.66	-35.13	-1.49	35.16	0.4673	-0.1692	182.4	20 501	-1 501c	
12 460	35 575	55.86	-36.42	1.99	36.47	0.4465	-0.1066	176.8	21 508	-1 508c	
13 465	35 575	56.14	-36.69	3.12	36.83	0.4448	-0.0866	175.1	22 512	-1 512c	
13 470	35 576	56.81	-36.72	3.22	36.86	0.452	-0.0856	174.9	22 513	-1 513c	
14 475	35 577	57.66	-36.89	4.3	37.14	0.4587	-0.0677	173.3	23 519	-1 519c	Gm
16 480	35 579	58.76	-36.7	5.92	37.18	0.4738	-0.0414	170.8	26 532	-1 532c	
17 485	36 582	61.14	-36.1	6.79	36.73	0.5079	-0.0312	169.3	28 540	-1 540c	
18 490	37 588	65.61	-34.54	7.85	35.42	0.572	-0.0226	167.1	29 548	-1 548c	max
19 495	40 601	75.2	-28.6	9.55	30.15	0.718	-0.0153	161.5	31 559	-1 559c	
20 500	-1 500c	96.6	-0.63	12.86	12.88	1.0918	-0.0091	92.8	35 576	13 469	
22 510	-1 510c	93.46	2.73	12.81	13.1	1.1277	-0.0052	77.9	35 577	15 475	
23 520	-1 519c	91.27	4.98	12.62	13.57	1.153	-0.0039	68.4	35 578	15 478	Ym
26 530	-1 530c	82.3	13.29	11.57	17.62	1.26	-0.0017	41.0	36 582	16 484	
28 540	-1 540c	74.64	19.34	10.54	22.03	1.3576	-0.001	28.6	37 585	17 487	
29 545	-1 545c	70.43	22.28	9.96	24.41	1.4148	-0.0007	24.1	37 586	17 489	
29 550	-1 549c	70.43	22.28	9.96	24.41	1.4148	-0.0007	24.1	37 586	17 489	
30 555	-1 554c	66.01	25.03	9.35	26.72	1.4777	-0.0006	20.4	37 588	18 490	
32 560	-1 560c	56.73	29.65	8.04	30.72	1.6212	-0.0004	15.1	38 593	18 492	
34 574	0 405	45.76	32.74	6.44	33.37	1.814	-0.0015	11.1	39 599	18 494	Rm
34 574	6 435	45.58	33.75	4.45	34.04	1.8389	-0.0445	7.5	42 611	19 496	
34 574	9 450	45.31	35.13	1.49	35.16	1.8738	-0.1092	2.4	-1 501c	20 501	
35 575	12 460	45.1	36.42	-1.99	36.47	1.906	-0.1865	356.8	-1 508c	21 508	
35 575	13 465	44.82	36.69	-3.12	36.83	1.9171	-0.212	355.1	-1 512c	22 512	
35 576	13 470	44.15	36.72	-3.22	36.86	1.9302	-0.2152	354.9	-1 513c	22 513	
35 577	14 475	43.3	36.89	-4.3	37.14	1.9503	-0.2416	353.3	-1 519c	23 519	Mm
35 579	16 480	42.2	36.7	-5.92	37.18	1.9681	-0.2827	350.8	-1 532c	26 532	
36 582	17 485	39.82	36.1	-6.79	36.73	2.005	-0.3129	349.3	-1 540c	28 540	
37 588	18 490	35.35	34.54	-7.85	35.42	2.0756	-0.3644	347.1	-1 548c	29 548	min
40 601	19 495	25.76	28.6	-9.55	30.15	2.2087	-0.5129	341.5	-1 559c	31 559	
-1 500c	20 500	4.36	0.63	-12.86	12.88	1.2447	-3.0904	272.8	13 469	35 576	
-1 510c	22 510	7.5	-2.73	-12.81	13.1	0.7345	-1.8499	257.9	15 475	35 577	
-1 519c	23 520	9.69	-4.98	-12.62	13.57	0.5846	-1.445	248.4	15 478	35 578	Bm
-1 530c	26 530	18.67	-13.29	-11.57	17.62	0.3863	-0.7621	221.0	16 484	36 582	
-1 540c	28 540	26.32	-19.34	-10.54	22.03	0.3634	-0.543	208.6	17 487	37 585	
-1 545c	29 545	30.53	-22.28	-9.96	24.41	0.3688	-0.4687	204.1	17 489	37 586	
-1 549c	29 550	30.53	-22.28	-9.96	24.41	0.3688	-0.4687	204.1	17 489	37 586	
-1 554c	30 555	34.95	-25.03	-9.35	26.72	0.3822	-0.4098	200.4	18 490	37 588	
-1 560c	32 560	44.23	-29.65	-8.04	30.72	0.4281	-0.3242	195.1	18 492	38 593	
380	770	100.97	0.0	0.0	0.01	1.0984	-0.1423	0.0			

TUB-test chart CE72; CIE (x, y) and chromatic values (A_i, B_i)
Ostwald optimal colours for illuminant A00; diagram for illuminant A00, $Y_w=100$

input: w/rgb/cmyk -> rgb

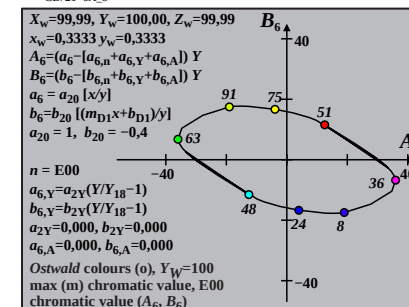
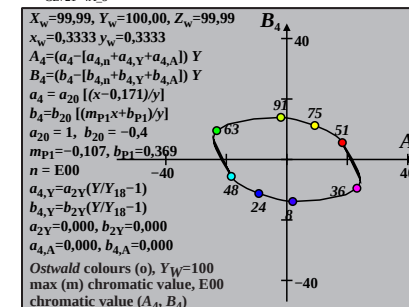
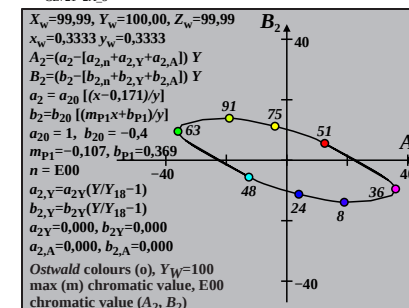
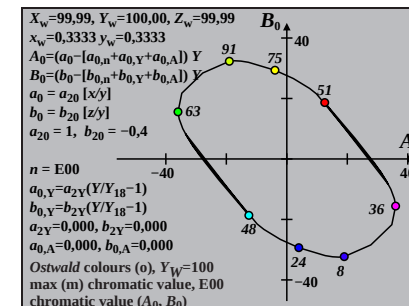
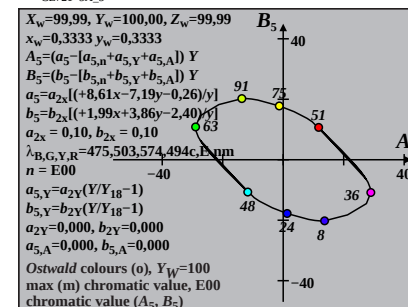
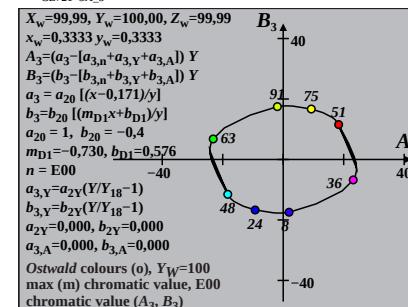
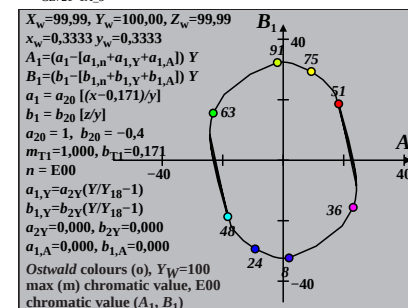
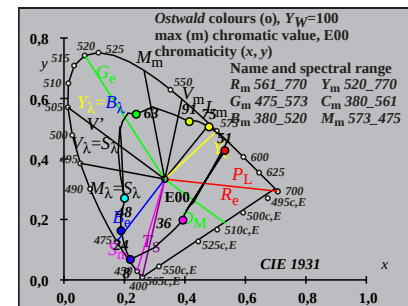


Ostwald optimal colours (o) of maximum (m) C_{AB} for E00, $Y_w=100$, $Y_m=520\text{--}770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{AB}	i_d, λ_d	i_c, λ_c	Code
1 405	32 564	57.42	-24.95	-16.34	29.83	0.5653	-0.6846	213.2	16 484	38 592	Cm
7 435	33 565	57.82	-30.63	-4.87	31.02	0.4701	-0.4843	189.0	17 489	-1 489c	
10 450	33 566	58.44	-35.13	5.29	35.53	0.3988	-0.3094	171.4	19 498	-1 498c	
11 460	33 568	59.59	-36.59	8.94	37.66	0.386	-0.2499	166.2	20 502	-1 502c	
13 465	33 569	60.14	-38.45	14.78	41.19	0.3606	-0.1541	158.9	22 514	-1 514c	
13 470	34 571	62.0	-38.63	15.53	41.63	0.3769	-0.1495	158.0	23 516	-1 516c	
14 475	35 575	64.53	-39.14	18.72	43.38	0.3934	-0.1099	154.4	25 525	-1 525c	Gm
15 480	36 581	68.93	-38.66	22.21	44.59	0.4391	-0.0777	150.1	27 536	-1 536c	
17 485	39 595	76.7	-34.16	27.66	43.96	0.5546	-0.0393	140.9	29 549	-1 549c	
18 490	-1 490c	94.54	-11.19	35.56	37.28	0.8815	-0.0238	107.4	33 568	11 459	max
19 495	-1 495c	93.18	-9.88	35.6	36.94	0.8939	-0.0179	105.5	33 568	12 461	
20 500	-1 500c	91.47	-8.19	35.37	36.3	0.9104	-0.0132	103.0	33 569	12 464	
21 510	-1 509c	89.34	-6.08	34.86	35.39	0.9318	-0.0097	99.9	34 570	13 466	
24 520	-1 520c	80.14	2.4	31.74	31.83	1.0299	-0.0038	85.6	34 574	14 473	Ym
25 530	-1 529c	76.26	5.63	30.28	30.8	1.0738	-0.0028	79.4	35 575	15 475	
28 540	-1 540c	63.21	15.04	25.21	29.35	1.2379	-0.0011	59.1	36 581	15 479	
29 545	-1 545c	58.59	17.8	23.38	29.39	1.3039	-0.0009	52.7	36 583	16 480	
29 550	-1 549c	58.59	17.8	23.38	29.39	1.3039	-0.0009	52.7	36 583	16 480	
30 555	-1 554c	53.92	20.26	21.53	29.56	1.3757	-0.0007	46.7	37 585	16 482	
32 560	-1 560c	44.64	23.98	17.83	29.88	1.5372	-0.0005	36.6	38 590	16 483	
32 564	1 405	42.57	24.95	16.34	29.83	1.5862	-0.0161	33.2	38 592	16 484	Rm
33 565	7 435	42.17	30.63	4.87	31.02	1.7264	-0.2843	9.0	-1 489c	17 489	
33 566	10 450	41.55	35.13	-5.29	35.53	1.8456	-0.5273	351.4	-1 498c	19 498	
33 568	11 460	40.4	36.59	-8.94	37.66	1.9056	-0.6213	346.2	-1 502c	20 502	
33 569	13 465	39.85	38.45	-14.78	41.19	1.9647	-0.771	338.9	-1 514c	22 514	
34 571	13 470	37.99	38.63	-15.53	41.63	2.0166	-0.8087	338.0	-1 516c	23 516	
35 575	14 475	35.46	39.14	-18.72	43.38	2.1036	-0.9278	334.4	-1 525c	25 525	Mm
36 581	15 480	31.06	38.66	-22.21	44.59	2.2447	-1.1152	330.1	-1 536c	27 536	
39 595	17 485	23.29	34.16	-27.66	43.96	2.4665	-1.5876	320.9	-1 549c	29 549	
-1 490c	18 490	5.45	11.19	-35.56	37.28	3.0513	-6.9152	287.4	11 459	33 568	min
-1 495c	19 495	6.81	9.88	-35.6	36.94	2.4491	-5.6211	285.5	12 461	33 568	
-1 500c	20 500	8.52	8.19	-35.37	36.3	1.9604	-4.548	283.0	12 464	33 569	
-1 509c	21 510	10.65	6.08	-34.86	35.39	1.5712	-3.6717	279.9	13 466	34 570	
-1 520c	24 520	19.85	-2.4	-31.74	31.83	0.879	-1.9985	265.6	14 473	34 574	Bm
-1 529c	25 530	23.73	-5.63	-30.28	30.8	0.7627	-1.6763	259.4	15 475	35 575	
-1 540c	28 540	36.78	-15.04	-25.21	29.35	0.591	-1.0854	239.1	15 479	36 581	
-1 545c	29 545	41.4	-17.8	-23.38	29.39	0.5699	-0.9647	232.7	16 480	36 583	
-1 549c	29 550	41.4	-17.8	-23.38	29.39	0.5699	-0.9647	232.7	16 480	36 583	
-1 554c	30 555	46.07	-20.26	-21.53	29.56	0.5601	-0.8673	226.7	16 482	37 585	
-1 560c	32 560	55.35	-23.98	-17.83	29.88	0.5668	-0.7221	216.6	16 483	38 590	
380	770	100.0	0.0	0.0	0.01	1.0	-0.4	0.0			

TUB-test chart CE72; CIE (x, y) and chromatic values (A_i, B_i)
Ostwald optimal colours for illuminant E00; diagram for illuminant E00, $Y_w=100$

input: w/rgb/cmyk -> rgb



Ostwald optimal colours (o) of maximum (m) C_{AB} for C00, $Y_w=100$, $Y_m=520\text{--}770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{AB}	i_d, λ_d	i_c, λ_c	Code
1 405	32 562	57.47	-21.98	-19.46	29.36	0.5982	-0.8115	221.5	16 482	37 589	Cm
7 435	32 563	58.03	-28.32	-6.7	29.1	0.4925	-0.5883	193.3	17 487	-1 487c	
10 450	32 564	58.88	-34.02	5.93	34.54	0.4027	-0.3721	170.1	19 496	-1 496c	
12 460	33 566	59.93	-37.02	14.05	39.6	0.3629	-0.2383	159.2	21 506	-1 506c	
12 465	33 568	61.46	-37.3	14.78	40.12	0.3738	-0.2324	158.3	21 507	-1 507c	
14 470	34 570	62.73	-38.86	21.33	44.33	0.3611	-0.1328	151.2	24 522	-1 522c	
15 475	35 575	65.69	-39.05	24.88	46.31	0.3861	-0.0941	147.4	26 530	-1 530c	Gm
16 480	36 582	70.82	-37.88	28.95	47.68	0.4457	-0.064	142.6	28 540	-1 540c	
16 485	40 602	82.26	-32.01	34.36	46.96	0.5915	-0.0552	132.9	30 551	-1 551c	
18 490	-1 490c	92.99	-13.08	41.58	43.59	0.8399	-0.0257	107.4	33 566	11 459	max
19 495	-1 495c	91.44	-11.61	41.51	43.11	0.8536	-0.0188	105.6	33 567	12 462	
20 500	-1 500c	89.57	-9.8	41.13	42.28	0.8712	-0.0137	103.4	33 567	12 464	
22 510	-1 510c	84.74	-5.18	39.46	39.8	0.9195	-0.0071	97.4	33 569	13 468	
23 520	-1 519c	81.72	-2.43	38.21	38.29	0.9508	-0.0053	93.6	34 571	14 470	Ym
26 530	-1 530c	70.43	6.71	33.15	33.82	1.076	-0.0021	78.5	35 575	15 475	
27 540	-1 539c	66.01	9.82	31.11	32.62	1.1295	-0.0016	72.4	35 577	15 477	
28 545	-1 544c	61.35	12.82	28.93	31.65	1.1898	-0.0012	66.0	35 579	15 478	
29 550	-1 549c	56.51	15.62	26.67	30.91	1.2572	-0.0009	59.6	36 581	15 479	
30 555	-1 554c	51.59	18.11	24.36	30.36	1.3318	-0.0007	53.3	36 584	16 480	
31 560	-1 559c	46.67	20.21	22.04	29.91	1.4138	-0.0006	47.4	37 586	16 481	
32 562	1 405	42.16	21.98	19.46	29.36	1.502	-0.0112	41.5	37 589	16 482	Rm
32 563	7 435	41.6	28.32	6.7	29.1	1.6615	-0.3118	13.3	-1 487c	17 487	
32 564	10 450	40.75	34.02	-5.93	34.54	1.8156	-0.6185	350.1	-1 496c	19 496	
33 566	12 460	39.7	37.02	-14.05	39.6	1.9132	-0.8269	339.2	-1 506c	21 506	
33 568	12 465	38.16	37.3	-14.78	40.12	1.958	-0.8601	338.3	-1 507c	21 507	
34 570	14 470	36.9	38.86	-21.33	44.33	2.0339	-1.051	331.2	-1 522c	24 522	
35 575	15 475	33.94	39.05	-24.88	46.31	2.1312	-1.2058	327.4	-1 530c	26 530	Mm
36 582	16 480	28.81	37.88	-28.95	47.68	2.2957	-1.4779	322.6	-1 540c	28 540	
40 602	16 485	17.37	32.01	-34.36	46.96	2.8233	-2.4505	312.9	-1 551c	30 551	
-1 490c	18 490	6.64	13.08	-41.57	43.59	2.9514	-6.7332	287.4	11 459	33 566	min
-1 495c	19 495	8.19	11.61	-41.51	43.11	2.3981	-5.5382	285.6	12 462	33 567	
-1 500c	20 500	10.06	9.8	-41.13	42.28	1.9552	-4.5604	283.4	12 464	33 567	
-1 510c	22 510	14.89	5.18	-39.46	39.8	1.3287	-3.1223	277.4	13 468	33 569	
-1 519c	23 520	17.91	2.43	-38.21	38.29	1.1167	-2.6063	273.6	14 470	34 571	Bm
-1 530c	26 530	29.2	-6.71	-33.15	33.82	0.7508	-1.608	258.5	15 475	35 575	
-1 539c	27 540	33.62	-9.82	-31.11	32.62	0.6885	-1.3981	252.4	15 477	35 577	
-1 544c	28 545	38.28	-12.82	-28.93	31.65	0.6456	-1.2287	246.0	15 478	35 579	
-1 549c	29 550	43.11	-15.62	-26.67	30.91	0.6183	-1.0915	239.6	15 479	36 581	
-1 554c	30 555	48.04	-18.12	-24.36	30.36	0.6035	-0.9799	233.3	16 480	36 584	
-1 559c	31 560	52.96	-20.21	-22.04	29.91	0.5989	-0.889	227.4	16 481	37 586	
380	770	99.63	0.0	0.0	0.01	0.9807	-0.4729	0.0			

TUB-test chart CE72; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant C00; diagram for illuminant C00, $Y_w=100$

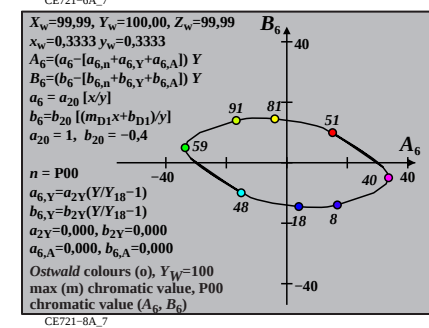
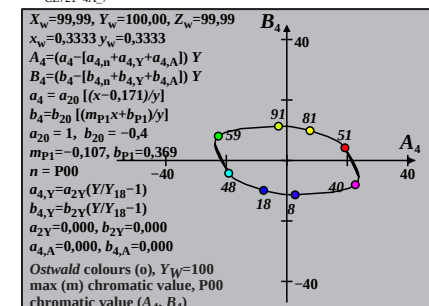
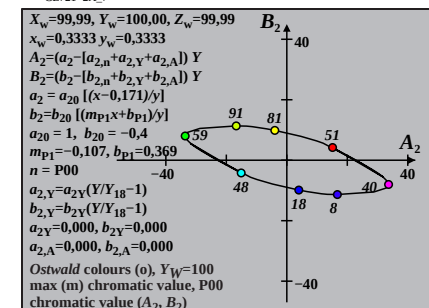
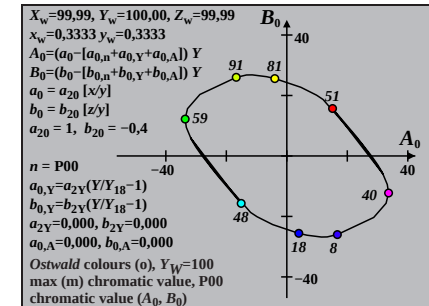
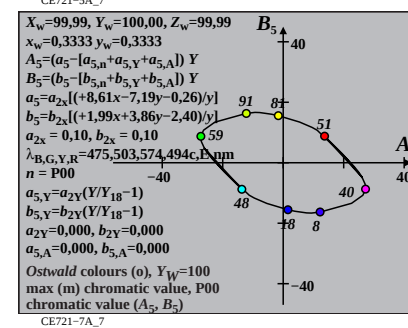
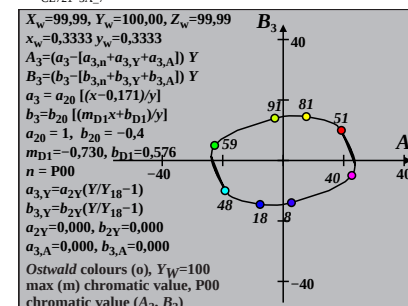
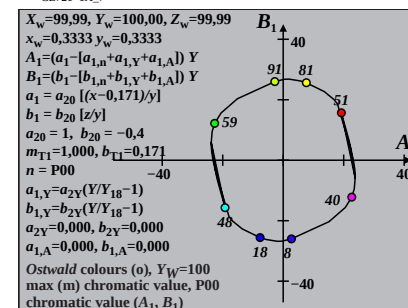
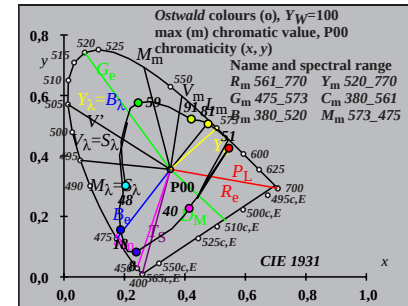
input: w/rgb/cmyk -> rgb

Ostwald optimal colours (o) of maximum (m) C_{AB} for P00, $Y_w=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{AB}	i_d, λ_d	i_c, λ_c	Code
0 405	33 567	56.84	-27.13	-13.72	30.4	0.5433	-0.5656	206.8	17 486	38 594	Cm
7 435	33 567	57.15	-31.58	-4.73	31.94	0.4679	-0.407	188.5	18 491	-1 491c	
10 450	33 568	57.66	-35.19	3.36	35.35	0.4103	-0.2659	174.5	19 499	-1 499c	
12 460	34 570	58.32	-37.16	8.65	38.15	0.3834	-0.1758	166.8	21 507	-1 507c	
13 465	34 571	58.97	-37.8	11.06	39.39	0.3796	-0.1366	163.6	22 513	-1 513c	
14 470	34 572	60.08	-38.21	13.25	40.44	0.3846	-0.1035	160.8	24 521	-1 521c	
14 475	35 575	62.5	-38.37	14.04	40.86	0.4067	-0.0995	159.8	24 524	-1 524c	Gm
16 480	36 580	65.38	-37.81	17.6	41.71	0.4422	-0.055	155.0	27 537	-1 537c	
17 485	37 589	71.73	-35.38	20.53	40.91	0.5273	-0.0379	149.8	29 547	-1 547c	
18 490	45 625	88.96	-18.57	26.79	32.6	0.8119	-0.023	124.7	32 564	-1 564c	max
19 495	-1 495c	94.19	-7.37	29.0	29.93	0.9423	-0.0162	104.2	34 570	12 462	
20 500	-1 500c	92.65	-5.82	28.91	29.49	0.9577	-0.0121	101.3	34 571	13 465	
22 510	-1 510c	88.34	-1.53	28.06	28.1	1.0033	-0.0066	93.1	34 573	14 470	
24 520	-1 520c	82.21	4.14	26.35	26.68	1.0711	-0.0036	81.0	35 575	14 474	Ym
25 530	-1 529c	78.56	7.26	25.26	26.28	1.1131	-0.0027	73.9	35 577	15 476	
27 540	-1 539c	70.41	13.55	22.72	26.46	1.2131	-0.0014	59.1	36 580	15 479	
29 545	-1 545c	61.51	19.35	19.89	27.75	1.3352	-0.0008	45.7	36 584	16 482	
29 550	-1 549c	61.51	19.35	19.89	27.75	1.3352	-0.0008	45.7	36 584	16 482	
30 555	-1 554c	56.9	21.86	18.41	28.58	1.4049	-0.0007	40.0	37 586	16 483	
32 560	-1 560c	47.62	25.77	15.41	30.03	1.5618	-0.0005	30.8	38 591	17 485	
33 567	0 405	43.19	27.13	13.72	30.4	1.6488	-0.0065	26.8	38 594	17 486	Rm
33 567	7 435	42.87	31.58	4.73	31.94	1.7573	-0.2139	8.5	-1 491c	18 491	
33 568	10 450	42.37	35.19	-3.36	35.35	1.8513	-0.4035	354.5	-1 499c	19 499	
34 570	12 460	41.71	37.16	-8.65	38.15	1.9116	-0.5317	346.8	-1 507c	21 507	
34 571	13 465	41.05	37.8	-11.06	39.39	1.9414	-0.5937	343.6	-1 513c	22 513	
34 572	14 470	39.95	38.21	-13.25	40.44	1.9771	-0.6561	340.8	-1 521c	24 521	
35 575	14 475	37.53	38.37	-14.04	40.85	2.043	-0.6983	339.8	-1 524c	24 524	Mm
36 580	16 480	34.65	37.81	-17.6	41.71	2.1119	-0.8322	335.0	-1 537c	27 537	
37 589	17 485	28.29	35.38	-20.53	40.91	2.2712	-1.05	329.8	-1 547c	29 547	
45 625	18 490	11.06	18.57	-26.79	32.59	2.6987	-2.7452	304.7	-1 564c	32 564	min
-1 495c	19 495	5.84	7.37	-29.0	29.92	2.2834	-5.2895	284.2	12 462	34 570	
-1 500c	20 500	7.37	5.82	-28.91	29.49	1.8106	-4.2445	281.3	13 465	34 571	
-1 510c	22 510	11.68	1.53	-28.06	28.1	1.1518	-2.7253	273.1	14 470	34 573	
-1 520c	24 520	17.82	-4.14	-26.35	26.68	0.7878	-1.8032	261.0	14 474	35 575	Bm
-1 529c	25 530	21.46	-7.26	-25.26	26.28	0.6822	-1.5008	253.9	15 476	35 577	
-1 539c	27 540	29.61	-13.55	-22.72	26.46	0.563	-1.0915	239.1	15 479	36 580	
-1 545c	29 545	38.52	-19.35	-19.89	27.75	0.5183	-0.8405	225.7	16 482	36 584	
-1 549c	29 550	38.52	-19.35	-19.89	27.75	0.5183	-0.8405	225.7	16 482	36 584	
-1 554c	30 555	43.12	-21.86	-18.41	28.58	0.5135	-0.7511	220.0	16 483	37 586	
-1 560c	32 560	52.41	-25.77	-15.41	30.03	0.5288	-0.6183	210.8	17 485	38 591	
380	770	100.03	0.0	0.0	0.01	1.0206	-0.3242	0.0			

[TUB-test chart CE72; CIE (x, y) and chromatic values (A_i, B_i)]

Ostwald optimal colours for illuminant P00; diagram for illuminant P00, $Y_w=100$



TUB registration: 20170801-CE72/CE72L0NP.PDF /.PS
application for measurement of offset print output

TUB material: code=rha4ta

input: w/rgb/cmyk $\rightarrow$ rgb

Ostwald optimal colours (o) of maximum (m) C_{AB} for Q00, $Y_w=100$, $Y_m=520\text{--}770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{AB}	i_d, λ_d	i_c, λ_c	Code
1 405	32 562	57.87	-22.38	-19.15	29.45	0.5925	-0.8068	220.5	16 482	38 590	Cm
6 435	32 562	58.48	-27.61	-8.76	28.97	0.5071	-0.6257	197.6	17 486	45 628	
10 450	32 564	59.17	-34.98	7.31	35.74	0.3881	-0.3521	168.1	19 497	-1 497c	
12 460	33 566	60.2	-37.86	15.09	40.76	0.3503	-0.225	158.2	21 507	-1 507c	
13 465	33 568	61.23	-38.9	18.65	43.14	0.3439	-0.1711	154.3	22 514	-1 514c	
13 470	34 570	63.49	-39.24	19.73	43.92	0.3613	-0.165	153.3	23 516	-1 516c	
15 475	35 575	65.88	-39.8	25.38	47.21	0.3751	-0.0905	147.4	26 530	-1 530c	Gm
16 480	36 582	71.08	-38.66	29.37	48.55	0.4354	-0.0625	142.7	27 539	-1 539c	
17 485	40 602	81.92	-31.74	35.67	47.75	0.5918	-0.0404	131.6	30 552	-1 552c	
18 490	-1 490c	93.68	-13.85	42.12	44.34	0.8314	-0.0262	108.2	33 565	11 458	max
18 495	-1 494c	93.68	-13.85	42.12	44.34	0.8314	-0.0262	108.2	33 565	11 458	
20 500	-1 500c	90.28	-10.6	41.65	42.98	0.8619	-0.0144	104.2	33 567	12 463	
22 510	-1 510c	85.13	-5.68	39.86	40.26	0.9125	-0.0076	98.1	33 569	13 468	
23 520	-1 519c	81.82	-2.67	38.47	38.56	0.9466	-0.0056	93.9	34 571	14 470	Ym
25 530	-1 529c	73.97	3.9	34.97	35.18	1.032	-0.003	83.6	34 574	14 474	
28 540	-1 540c	60.39	13.41	28.66	31.64	1.2014	-0.0012	64.9	36 580	15 478	
28 545	-1 544c	60.39	13.41	28.66	31.64	1.2014	-0.0012	64.9	36 580	15 478	
29 550	-1 549c	55.67	16.14	26.43	30.97	1.2693	-0.0009	58.5	36 582	15 479	
30 555	-1 554c	50.94	18.53	24.2	30.48	1.3431	-0.0007	52.5	36 584	16 480	
32 560	-1 560c	41.65	22.06	19.79	29.64	1.509	-0.0005	41.9	37 589	16 482	
32 562	1 405	42.09	22.38	19.15	29.45	1.511	-0.0207	40.5	38 590	16 482	Rm
32 562	6 435	41.48	27.61	8.76	28.97	1.6449	-0.2644	17.6	45 628	17 486	
32 564	10 450	40.79	34.98	-7.31	35.74	1.8369	-0.6552	348.1	-1 497c	19 497	
33 566	12 460	39.76	37.86	-15.09	40.76	1.9314	-0.8554	338.2	-1 507c	21 507	
33 568	13 465	38.73	38.9	-18.65	43.14	1.9838	-0.9575	334.3	-1 514c	22 514	
34 570	13 470	36.46	39.24	-19.73	43.92	2.0554	-1.017	333.3	-1 516c	23 516	
35 575	15 475	34.08	39.8	-25.38	47.21	2.1473	-1.2205	327.4	-1 530c	26 530	Mm
36 582	16 480	28.87	38.66	-29.37	48.55	2.318	-1.493	322.7	-1 539c	27 539	
40 602	17 485	18.03	31.74	-35.67	47.75	2.739	-2.4531	311.6	-1 552c	30 552	
-1 490c	18 490	6.28	13.85	-42.11	44.34	3.1842	-7.1782	288.2	11 458	33 565	min
-1 494c	18 495	6.28	13.85	-42.11	44.34	3.1842	-7.1782	288.2	11 458	33 565	
-1 500c	20 500	9.67	10.6	-41.65	42.98	2.0746	-4.7793	284.2	12 463	33 567	
-1 510c	22 510	14.82	5.68	-39.85	40.26	1.3629	-3.1641	278.1	13 468	33 569	
-1 519c	23 520	18.14	2.67	-38.47	38.56	1.1265	-2.5962	273.9	14 470	34 571	Bm
-1 529c	25 530	25.99	-3.9	-34.97	35.18	0.8291	-1.8213	263.6	14 474	34 574	
-1 540c	28 540	39.56	-13.41	-28.66	31.64	0.6402	-1.2003	244.9	15 478	36 580	
-1 544c	28 545	39.56	-13.41	-28.66	31.64	0.6402	-1.2003	244.9	15 478	36 580	
-1 549c	29 550	44.29	-16.14	-26.43	30.97	0.6148	-1.0727	238.5	15 479	36 582	
-1 554c	30 555	49.02	-18.53	-24.2	30.48	0.6011	-0.9695	232.5	16 480	36 584	
-1 560c	32 560	58.3	-22.06	-19.79	29.64	0.6008	-0.8153	221.9	16 482	37 589	
380	770	99.96	0.0	0.0	0.01	0.9793	-0.4758	0.0			

TUB-test chart CE72; CIE (x, y) and chromatic values (A_i, B_i)
Ostwald optimal colours for illuminant Q00; diagram for illuminant Q00, $Y_w=100$

input: w/rgb/cmyk -> rgb

