

Oswald optimal colours (o) of maximum (m) C _{AB} for D65, Y _w =100, Y _m =520_770, LINYAB data														%
i ₁ , λ ₁	i ₂ , λ ₂	Y ₁₀₀	A ₁₀₀	B ₁₀₀	C _{AB}	a	b	h _{AB}	i _d , λ _d	i _c , λ _c	Code		%	
0	405	32	561	58.2	-22.74	-17.89	28.94	0.5596	-0.743	218.1	16 483	37 589	Cm	%
6	435	32	562	58.79	-26.78	-9.88	28.55	0.4948	-0.6036	200.2	17 486	42 610		%
10	450	32	563	59.42	-33.54	4.93	33.9	0.3859	-0.3525	171.6	19 496	-1 496c		%
12	460	33	565	60.32	-36.45	12.66	38.58	0.3461	-0.2256	160.8	21 505	-1 505c		%
12	465	33	567	61.66	-36.65	13.24	38.97	0.356	-0.2207	160.1	21 506	-1 506c		%
14	470	33	569	62.72	-38.14	19.32	42.76	0.3422	-0.1274	153.1	24 520	-1 520c		%
15	475	34	573	65.29	-38.28	22.47	44.39	0.364	-0.0913	149.5	25 528	-1 528c	Gm	%
16	480	36	580	69.95	-37.48	26.04	45.64	0.4146	-0.0632	145.2	27 537	-1 537c		%
17	485	39	595	78.75	-32.73	31.0	45.09	0.5347	-0.0418	136.5	29 548	-1 548c		%
18	490	-1	490c	93.8	-12.06	38.4	40.25	0.8218	-0.0261	107.4	33 565	11 459	max	%
19	495	-1	495c	92.3	-10.68	38.39	39.85	0.8346	-0.0195	105.5	33 566	12 462		%
20	500	-1	500c	90.42	-8.91	38.07	39.1	0.8518	-0.0144	103.1	33 567	12 464		%
22	510	-1	510c	85.27	-4.15	36.48	36.72	0.9016	-0.0076	96.5	33 569	13 469		%
23	520	-1	519c	81.98	-1.26	35.24	35.26	0.935	-0.0056	92.0	34 570	14 471	Ym	%
25	530	-1	529c	74.04	5.15	32.02	32.43	1.0201	-0.0031	80.8	34 573	15 475		%
27	540	-1	539c	64.9	11.57	28.16	30.44	1.1288	-0.0016	67.6	35 577	15 478		%
28	545	-1	544c	60.13	14.5	26.11	29.87	1.1917	-0.0012	60.9	35 579	15 479		%
29	550	-1	549c	55.26	17.18	24.01	29.53	1.2613	-0.0009	54.4	36 582	16 480		%
30	555	-1	554c	50.4	19.49	21.91	29.33	1.3372	-0.0007	48.3	36 584	16 481		%
32	560	-1	560c	41.0	22.8	17.83	28.95	1.5064	-0.0005	38.0	37 589	16 483		%
380	770	100.0	0.0	0.0	0.01	0.9504	-0.4355	0.0						%
Oswald optimal colours (o) of maximum (m) C _{AB} for D65, Y _w =100, Y _m =770_520, LINYAB complementary														%
i ₁ , λ ₁	i ₂ , λ ₂	Y ₁₀₀	A ₁₀₀	B ₁₀₀	C _{AB}	a	b	h _{AB}	i _d , λ _d	i _c , λ _c	Code		%	
32	561	0	405	41.79	22.74	17.89	28.94	1.4946	-0.0072	38.1	37 589	16 483	Rm	%
32	562	6	435	41.2	26.78	9.88	28.55	1.6006	-0.1956	20.2	42 610	17 486		%
32	563	10	450	40.57	33.54	-4.93	33.9	1.7771	-0.557	351.6	-1 496c	19 496		%
33	565	12	460	39.67	36.45	-12.66	38.58	1.8691	-0.7547	340.8	-1 505c	21 505		%
33	567	12	465	38.33	36.65	-13.24	38.97	1.9064	-0.781	340.1	-1 506c	21 506		%
33	569	14	470	37.27	38.14	-19.32	42.76	1.9738	-0.954	333.1	-1 520c	24 520		%
34	573	15	475	34.7	38.28	-22.47	44.39	2.0536	-1.083	329.5	-1 528c	25 528	Mm	%
36	580	16	480	30.04	37.48	-26.04	45.64	2.1982	-1.3026	325.2	-1 537c	27 537		%
39	595	17	485	21.24	32.73	-31.0	45.09	2.4914	-1.8952	316.5	-1 548c	29 548		%
-1	490c	18	490	6.19	12.06	-38.4	40.25	2.899	-6.6372	287.4	11 459	33 565	min	%
-1	495c	19	495	7.69	10.68	-38.39	39.85	2.3392	-5.4245	285.5	12 462	33 566		%
-1	500c	20	500	9.57	8.91	-38.07	39.1	1.8814	-4.4105	283.1	12 464	33 567		%
-1	510c	22	510	14.72	4.15	-36.48	36.72	1.2328	-2.9143	276.5	13 469	33 569		%
-1	519c	23	520	18.01	1.26	-35.24	35.26	1.0204	-2.3925	272.0	14 471	34 570	Bm	%
-1	529c	25	530	25.95	-5.15	-32.02	32.43	0.7516	-1.6693	260.8	15 475	34 573		%
-1	539c	27	540	35.09	-11.57	-28.16	30.44	0.6205	-1.238	247.6	15 478	35 577		%
-1	544c	28	545	39.86	-14.5	-26.11	29.87	0.5865	-1.0906	240.9	15 479	35 579		%
-1	549c	29	550	44.73	-17.18	-24.01	29.53	0.5663	-0.9725	234.4	16 480	36 582		%
-1	554c	30	555	49.59	-19.49	-21.91	29.33	0.5572	-0.8774	228.3	16 481	36 584		%
-1	560c	32	560	58.99	-22.8	-17.83	28.95	0.5638	-0.7379	218.0	16 483	37 589		%
380	770	100.0	0.0	0.0	0.01	0.9504	-0.4355	0.0						%

rgb* _{AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																									
Yxy, <i>c</i> _{AB} , <i>ABC</i> _{AB} , <i>LabC</i> * _{ab} , <i>h</i> _{AB} data for relative spacing of elementary hue <i>h</i> _{AB} of <i>LIN</i> YAB for CIE 2 degree observer																									
Elementary hue circle with 4 intended elementary hue angles: <i>h</i> _{AB} = 17.7, 93.3, 159.1, 270.8 (LIN)YAB; 90 intended hue angles:																									
00.001, ..., 089, LINYAB data of CIE test colours 9 (R): 11.2 9.9 3.1, 10 (Y): 59.0 59.0 12.2 20.9, 11 (G): 20.3 -7.2 12.7, 12 (B): 6.4 0.1 -8.2																									
<i>no</i>	<i>no</i> _{AB}	<i>x</i>	<i>y</i>	<i>a</i>	<i>b</i>	<i>c</i> _{AB}	<i>A</i>	<i>B</i>	<i>C</i> _{AB}	<i>h</i> _{AB}	<i>L</i> *	<i>a</i> *	<i>b</i> *	<i>C</i> * _{ab}	<i>h</i> _{ab}	<i>rgb</i> * _{AB}	<i>Code</i> _{AB}								
000	40.7	0.447	0.259	1.727	-0.453	0.777	31.6	-0.7	31.6	358.7	70.0	81.6	-1.9	81.7	359.6	1.00	0.00	0.39	0.00						B80R
001	40.8	0.45	0.261	1.72	-0.44	0.77	31.4	-0.1	31.4	359.6	70.0	81.1	-0.5	81.1	359.6	1.00	0.00	0.37	0.00						B81R
002	40.8	0.453	0.264	1.714	-0.427	0.764	31.1	0.3	31.2	0.6	70.0	80.6	0.9	80.6	0.6	1.00	0.00	0.35	0.00						B82R
003	40.8	0.456	0.267	1.708	-0.414	0.758	30.9	0.8	30.9	1.6	70.0	80.0	2.4	80.1	1.7	1.00	0.00	0.33	0.00						B83R
004	40.8	0.459	0.269	1.701	-0.4	0.752	30.7	1.4	30.7	2.6	70.0	79.5	4.0	79.6	2.9	1.00	0.00	0.3	0.00						B84R
005	40.8	0.462	0.272	1.695	-0.387	0.746	30.4	1.9	30.5	3.6	70.1	78.9	5.6	79.1	4.0	1.00	0.00	0.28	0.00						B85R
006	40.9	0.465	0.275	1.689	-0.374	0.741	30.2	2.4	30.3	4.7	70.1	78.4	7.2	78.7	5.2	1.00	0.00	0.26	0.00						B86R
007	40.9	0.469	0.278	1.682	-0.361	0.736	29.9	3.0	30.1	5.7	70.1	77.8	8.9	78.3	6.5	1.00	0.00	0.24	0.00						B87R
008	40.9	0.481	0.287	1.675	-0.348	0.729	29.7	3.7	29.9	6.9	70.1	77.0	10.8	77.4	7.8	1.00	0.00	0.22	0.00						B88R
009	40.9	0.475	0.284	1.67	-0.335	0.726	29.4	4.1	29.7	7.9	70.1	76.7	12.3	77.7	9.1	1.00	0.00	0.19	0.00						B89R
010	40.9	0.479	0.288	1.663	-0.322	0.722	29.2	4.6	29.6	9.0	70.1	76.1	14.1	77.5	10.5	1.00	0.00	0.17	0.00						B90R
011	41.0	0.483	0.291	1.657	-0.309	0.718	28.9	5.1	29.4	10.1	70.1	75.6	15.9	77.3	11.9	1.00	0.00	0.15	0.00						B92R
012	41.0	0.486	0.294	1.65	-0.296	0.714	28.7	5.6	29.3	11.2	70.2	75.0	17.8	77.1	13.3	1.00	0.00	0.12	0.00						B93R
013	41.0	0.49	0.298	1.644	-0.283	0.71	28.5	6.2	29.1	12.3	70.2	74.5	19.7	77.0	14.8	1.00	0.00	0.1	0.00						B94R
014	41.0	0.493	0.301	1.638	-0.271	0.707	28.2	6.7	29.0	13.4	70.2	73.9	21.6	77.0	16.3	1.00	0.00	0.08	0.00						B95R
015	41.0	0.497	0.304	1.632	-0.258	0.704	28.0	7.2	28.9	14.5	70.2	73.3	23.6	77.1	17.8	1.00	0.00	0.06	0.00						B96R
016	41.0	0.501	0.308	1.626	-0.246	0.699	27.7	7.7	28.8	15.6	70.2	72.7	25.7	77.2	19.0	1.00	0.00	0.03	0.00						B97R
017	41.1	0.505	0.311	1.619	-0.234	0.699	27.5	8.2	28.7	16.7	70.2	72.3	27.7	77.4	21.0	1.00	0.00	0.01	0.00						B98R
018	41.1	0.509	0.315	1.613	-0.222	0.697	27.3	8.7	28.6	17.8	70.2	71.7	29.9	77.7	22.6	1.00	0.00	0.00	0.00						B90Y
019	41.1	0.513	0.319	1.607	-0.21	0.695	27.0	9.2	28.6	18.9	70.3	71.2	32.0	78.1	24.2	1.00	0.01	0.00	0.00						B91Y
020	41.1	0.517	0.322	1.602	-0.198	0.693	26.8	9.7	28.5	19.9	70.3	70.7	34.2	78.5	25.8	1.00	0.02	0.00	0.00						B92Y
021	41.2	0.521	0.327	1.594	-0.184	0.691	26.5	10.3	28.5	21.3	70.3	70.0	37.1	79.2	27.9	1.00	0.04	0.00	0.00						B94Y
022	41.2	0.527	0.332	1.586	-0.169	0.689	26.2	10.9	28.4	22.7	70.3	69.3	40.1	80.1	30.1	1.00	0.05	0.00	0.00						B95Y
023	41.2	0.532	0.337	1.578	-0.152	0.687	26.0	11.5	28.4	24.0	70.4	68.6	43.1	81.3	33.1	1.00	0.07	0.00	0.00						B97Y
024	41.3	0.537	0.341	1.57	-0.141	0.686	25.6	12.1	28.4	25.3	70.4	67.9	46.5	82.6	36.4	1.00	0.08	0.00	0.00						B98Y
025	41.4	0.542	0.346	1.563	-0.128	0.685	25.3	12.7	28.4	26.5	70.4	67.2	49.8	83.7	36.5	1.00	0.09	0.00	0.00						B99Y
026	41.4	0.546	0.351	1.556	-0.115	0.685	25.1	13.2	28.4	27.8	70.5	66.2	53.1	85.2	38.5	1.00	0.1	0.00	0.00						B10Y
027	41.5	0.551	0.355	1.549	-0.103	0.685	24.8	13.7	28.4	28.9	70.5	66.0	56.6	86.9	40.6	1.00	0.12	0.00	0.00						B12Y
028	41.5	0.556	0.36	1.543	-0.092	0.685	24.6	14.2	28.4	30.0	70.5	65.4	60.1	88.8	42.6	1.00	0.13	0.00	0.00						B13Y
029	41.5	0.56	0.364	1.537	-0.081	0.685	24.3	14.7	28.4	31.1	70.5	64.8	63.8	91.0	44.5	1.00	0.14	0.00	0.00						B14Y
030	41.6	0.565	0.369	1.531	-0.071	0.685	24.1	15.1	28.5	32.1	70.6	64.3	67.6	93.3	46.4	1.00	0.16	0.00	0.00						B16Y
031	41.6	0.569	0.373	1.525	-0.061	0.686	23.9	15.5	28.5	33.0	70.6	63.7	71.5	95.8	48.2	1.00	0.17	0.00	0.00						B17Y
032	41.7	0.573	0.377	1.52	-0.046	0.686	23.7	15.9	28.6	33.9	70.6	63.2	75.7	97.9	50.1	1.00	0.18	0.00	0.00						B18Y
033	41.7	0.577	0.381	1.515	-0.043	0.687	23.5	16.3	28.6	34.7	70.6	62.8	80.8	101.7	51.8	1.00	0.2	0.00	0.00						B20Y
034	41.7	0.581	0.384	1.51	-0.035	0.688	23.3	16.7	28.7	35.5	70.6	62.3	84.6	105.1	53.6	1.00	0.21	0.00	0.00						B21Y
035	41.7	0.584	0.388	1.506	-0.027	0.689	23.2	17.0	28.7	36.2	70.7	61.9	89.6	109.0	55.3	1.00	0.22	0.00	0.00						B22Y
036	41.7	0.588	0.391	1.502	-0.02	0.69	23.0	17.3	28.8	36.9	70.7	61.6	95.2	113.4	57.0	1.00	0.24	0.00	0.00						B24Y
037	41.7	0.591	0.394	1.498	-0.014	0.691	22.9	17.6	28.8	37.5	70.7	61.2	101.5	118.5	58.8	1.00	0.25	0.00	0.00						B25Y
038	41.7	0.594	0.397	1.495	-0.008	0.692	22.7	17.8	28.9	38.0	70.7	60.9	108.2	124.2	60.6	1.00	0.26	0.00	0.00						B26Y
039	41.6	0.598	0.401	1.491	0.0	0.694	22.5	18.1	28.9	38.7	70.6	60.5	121.1	135.4	63.4	1.00	0.28	0.00	0.00						B27Y
040	41.6	0.602	0.404	1.487	0.001	0.693	22.3	18.4	28.9	39.1	70.6	60.1	128.2	146.6	66.1	1.00	0.29	0.00	0.00						B28Y
041	43.3	0.593	0.406	1.458	0.0	0.669	22.0	18.8	29.0	40.5	71.7	58.0	123.3	136.3	64.8	1.00	0.3	0.00	0.00						B30Y
042	44.2	0.59	0.409	1.44	0.0	0.655	21.6	19.2	29.0	41.5	72.3	56.6	124.4	136.7	65.5	1.00	0.32	0.00	0.00						B32Y
043	45.1	0.587	0.412	1.423	0.0	0.642	21.3	19.6	29.0	42.6	73.0	55.2	125.4	137.0	66.2	1.00	0.33	0.00	0.00						B33Y
044	46.1	0.584	0.415	1.405	0.0																				

rgb _{AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																								
Yxy _{AB} ABC _{AB} LabC _{AB} ab _{AB} data for relative spacing of elementary hue h _{AB} of L _{IN} YAB for CIE 2 degree observer																								
Elementary hue circle with 4 intended elementary hue angles: h _{AB} = 17.7, 93.3, 159.1, 270.8 of L _{IN} YAB, and 90 intended hue angles:																								
090, 091, ..., 179, L _{IN} YAB data of CIE test colours 9 (R): 11.2 9.9 3.1, 10 (Y): 59.0 -1.2 20.9, 11 (G): 20.3 -7.2 12.7, 12 (B): 6.4 0.1 -8.2																								
no	AB	Y	x	y	a	b	c	AB	A	B	C	AB	h _{AB}	L*	a*	b*	C*	h _{AB}	rgb _{AB}	AB	Code _{AB}			
090	80.7	0.483	0.511	0.947	-0.005	0.43	-0.2	34.7	34.7	90.4	92.0	-0.4	143.5	143.5	90.1	1.00	0.95	0.00	0.00	0.95	R95Y			
091	81.3	0.481	0.511	0.941	-0.005	0.43	-0.7	35.0	35.0	91.2	92.3	-1.5	143.2	143.2	90.6	1.00	0.96	0.00	0.00	0.96	R96Y			
092	81.9	0.479	0.512	0.935	-0.005	0.43	-1.2	35.2	35.2	92.0	92.5	-2.4	143.0	143.0	90.9	1.00	0.98	0.00	0.00	0.98	R98Y			
093	82.8	0.477	0.515	0.926	-0.005	0.43	-1.9	35.5	35.6	93.2	92.9	-3.9	142.8	142.8	91.6	1.00	0.99	0.00	0.00	0.99	R99Y			
094	83.6	0.474	0.516	0.918	-0.006	0.43	-2.6	35.8	35.9	94.2	93.2	-5.2	142.4	142.5	92.1	0.98	1.00	0.00	0.00	1.00	Y01G			
095	84.2	0.472	0.518	0.911	-0.006	0.43	-3.2	36.1	36.2	95.1	93.5	-6.4	141.8	141.9	92.6	0.97	1.00	0.00	0.00	1.00	Y02G			
096	84.9	0.47	0.519	0.905	-0.007	0.43	-3.8	36.3	36.5	96.0	93.8	-7.6	140.8	141.0	93.1	0.95	1.00	0.00	0.00	1.00	Y05G			
097	85.6	0.468	0.521	0.897	-0.008	0.43	-4.5	36.6	36.8	97.0	94.1	-8.9	139.9	139.7	93.6	0.94	1.00	0.00	0.00	1.00	Y08G			
098	86.2	0.465	0.523	0.889	-0.008	0.43	-5.2	36.8	37.2	98.0	94.8	-10.3	139.3	139.4	94.0	0.92	1.00	0.00	0.00	1.00	Y10G			
099	87.2	0.462	0.524	0.881	-0.01	0.431	-5.9	37.1	37.6	99.1	94.8	-11.7	136.5	137.0	94.9	0.91	1.00	0.00	0.00	1.00	Y08G			
100	88.0	0.459	0.525	0.874	-0.011	0.431	-6.7	37.3	37.9	100.2	95.1	-13.1	135.1	135.8	95.5	0.89	1.00	0.00	0.00	1.00	Y10G			
101	88.8	0.456	0.527	0.866	-0.012	0.431	-7.4	37.6	38.3	101.2	95.5	-14.5	133.8	134.6	96.2	0.88	1.00	0.00	0.00	1.00	Y11G			
102	89.6	0.454	0.528	0.859	-0.013	0.432	-8.1	37.8	38.1	102.1	95.8	-15.9	132.5	133.5	96.8	0.86	1.00	0.00	0.00	1.00	Y13G			
103	90.3	0.451	0.529	0.852	-0.014	0.432	-8.8	38.0	39.0	103.0	96.1	-17.1	131.1	132.4	97.4	0.85	1.00	0.00	0.00	1.00	Y16G			
104	91.2	0.447	0.53	0.843	-0.016	0.432	-9.7	38.2	39.4	104.2	96.5	-18.8	129.3	130.4	98.3	0.83	1.00	0.00	0.00	1.00	Y16G			
105	92.0	0.444	0.53	0.837	-0.018	0.432	-10.4	38.3	39.7	105.0	96.6	-20.1	126.7	128.3	99.0	0.82	1.00	0.00	0.00	1.00	Y17G			
106	92.8	0.443	0.528	0.829	-0.019	0.432	-10.3	38.6	40.0	106.0	96.9	-20.7	124.9	126.9	99.2	0.82	1.00	0.00	0.00	1.00	Y19G			
107	94.3	0.44	0.527	0.836	-0.024	0.426	-10.7	38.8	40.2	105.4	97.7	-20.4	122.1	122.9	99.5	0.79	1.00	0.00	0.00	1.00	Y20G			
108	93.6	0.434	0.53	0.818	-0.026	0.43	-12.3	38.3	40.2	107.9	97.4	-23.8	118.7	121.1	101.3	0.77	1.00	0.00	0.00	1.00	Y22G			
109	93.2	0.431	0.532	0.811	-0.026	0.432	-12.9	38.1	40.2	108.8	97.3	-25.1	118.2	120.8	102.0	0.76	1.00	0.00	0.00	1.00	Y23G			
110	92.8	0.429	0.534	0.803	-0.027	0.434	-13.6	37.9	40.2	109.7	97.1	-26.5	117.6	120.6	102.6	0.74	1.00	0.00	0.00	1.00	Y25G			
111	92.3	0.426	0.536	0.796	-0.027	0.436	-14.2	37.6	40.3	110.7	96.9	-27.9	117.1	120.4	103.4	0.73	1.00	0.00	0.00	1.00	Y26G			
112	91.9	0.424	0.538	0.788	-0.027	0.438	-14.9	37.4	40.3	111.7	96.8	-29.4	116.5	120.2	104.1	0.71	1.00	0.00	0.00	1.00	Y28G			
113	91.6	0.423	0.540	0.780	-0.028	0.431	-15.6	37.3	40.3	112.7	96.6	-30.9	115.9	119.8	104.7	0.7	1.00	0.00	0.00	1.00	Y30G			
114	91.6	0.418	0.542	0.772	-0.028	0.431	-16.2	37.0	40.4	113.7	96.6	-32.5	114.4	119.9	105.8	0.68	1.00	0.00	0.00	1.00	Y31G			
115	90.5	0.415	0.544	0.762	-0.029	0.447	-16.9	36.7	40.5	114.7	96.2	-34.2	114.7	119.7	106.5	0.67	1.00	0.00	0.00	1.00	Y32G			
116	90.0	0.412	0.547	0.753	-0.029	0.451	-17.7	36.5	40.6	115.8	96.0	-35.9	114.1	119.6	107.4	0.65	1.00	0.00	0.00	1.00	Y34G			
117	89.5	0.409	0.549	0.744	-0.03	0.454	-18.4	36.3	40.7	116.9	95.8	-37.6	113.5	119.6	108.3	0.64	1.00	0.00	0.00	1.00	Y35G			
118	89.0	0.405	0.551	0.735	-0.03	0.458	-19.1	36.0	40.8	118.0	95.6	-39.4	112.9	119.6	109.2	0.62	1.00	0.00	0.00	1.00	Y37G			
119	88.5	0.402	0.554	0.725	-0.031	0.462	-19.9	35.8	40.9	119.0	95.3	-41.3	112.2	119.6	110.2	0.6	1.00	0.00	0.00	1.00	Y39G			
120	88.0	0.398	0.557	0.715	-0.031	0.467	-20.6	35.5	41.1	120.0	95.1	-43.2	111.6	119.7	111.1	0.59	1.00	0.00	0.00	1.00	Y40G			
121	87.4	0.394	0.559	0.705	-0.032	0.472	-21.4	35.2	41.2	121.2	94.9	-45.2	110.9	118.8	112.1	0.57	1.00	0.00	0.00	1.00	Y42G			
122	86.2	0.391	0.562	0.695	-0.032	0.477	-22.1	35	41.4	122.2	94.8	-47.2	110.2	119.1	113.2	0.56	1.00	0.00	0.00	1.00	Y43G			
123	86.3	0.387	0.565	0.684	-0.033	0.482	-22.9	34.6	41.6	123.4	94.4	-49.3	109.6	120.1	114.2	0.54	1.00	0.00	0.00	1.00	Y45G			
124	85.8	0.383	0.568	0.674	-0.033	0.487	-23.7	34.4	41.8	124.5	94.2	-51.4	108.9	120.4	115.2	0.53	1.00	0.00	0.00	1.00	Y46G			
125	85.2	0.379	0.571	0.663	-0.034	0.493	-24.4	34.2	42.0	125.5	93.9	-53.5	108.2	120.7	116.3	0.51	1.00	0.00	0.00	1.00	Y48G			
126	84.6	0.374	0.574	0.652	-0.034	0.499	-25.2	33.9	42.2	126.6	93.7	-55.7	107.5	121.1	117.3	0.5	1.00	0.00	0.00	1.00	Y49G			
127	84.1	0.37	0.577	0.641	-0.035	0.505	-25.9	33.6	42.5	127.6	93.5	-57.9	106.8	121.5	118.4	0.48	1.00	0.00	0.00	1.00	Y51G			
128	83.5	0.366	0.581	0.63	-0.036	0.511	-26.7	33.3	42.7	128.7	93.2	-60.2	106.1	122.0	119.5	0.47	1.00	0.00	0.00	1.00	Y52G			
129	82.9	0.361	0.584	0.619	-0.036	0.518	-27.4	33.0	43.0	129.7	93.0	-62.5	105.4	122.5	120.6	0.45	1.00	0.00	0.00	1.00	Y54G			
130	82.3	0.357	0.587	0.609	-0.037	0.523	-28.2	32.7	43.2	130.7	92.8	-64.8	104.7	123.1	121.8	0.43	1.00	0.00	0.00	1.00	Y56G			
131	81.8	0.352	0.591	0.596	-0.038	0.532	-28.9	32.5	43.5	131.6	92.5	-67.1	104.0	123.8	122.8	0.42	1.00	0.00	0.00	1.00	Y57G			
132	81.2	0.348	0.594	0.585	-0.038	0.539	-29.6	32.2	43.8	132.5	92.2	-69.5	103.3	124.5	123.9	0.41	1.00	0.00	0.00	1.00	Y58G			
133	80.7	0.343	0.597	0.574	-0.039	0.546	-30.3	31.9	44.0	133.5	92.0	-71.9	102.6	125.3	125.0	0.39	1.00	0.00	0.00	1.00	Y60G			
134	80.1	0.338	0.601	0.563	-0.04	0.553	-31.0	31.7	44.3	134.4	91.7	-74.3	101.8	126.1	126.1	0.38	1.00	0.00	0.00	1.00	Y61G			
135	79.6	0.333	0.604	0.551	-0.04	0.561	-31.7	31.4	44.6	135.2	91.5	-76.7	101.1	127.0	127.1	0.36	1.00	0.00	0.00	1.00	Y63G			
136	79.0	0.328	0.608	0.54	-0.041	0.568	-32.3	31.1	44.9	136.1	91.2	-79.1	100.4	127.9	128.2	0.35	1.00	0.00	0.00	1.00	Y64G			
137	78.1	0.321	0.612	0.524	-0.042	0.575	-33.2	30.8	45.2	137.2	90.8	-82.7	99.7	128.1	131.8	0.33	1.00	0.00	0.00	1.00	Y65G			
138	76.9	0.311	0.618	0.504	-0.044	0.593	-34.3	30.0	45.6	138.8	90.0	-87.2	97.2	130.6	131.2	0.32	1.00	0.00	0.00	1.00	Y67G			
139	75.7	0.302	0.623	0.485	-0.047	0.605	-35.1	29.4	45.8	140.1	89.7	-91.3	95.3	131.9	133.7	0.3	1.00	0.00	0.00	1.00	Y69G			

rgb* _{AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																			
Yxy, c _{AB} AB, ABC _{AB} , LabC* _{ab} AB data for relative spacing of elementary hue h _{AB} of L ₁ YAB for CIE 2 degree observer																			
Elementary hue circle with 4 intended elementary hue angles: h _{AB} = 17.7, 93.3, 159.1, 270.8 of L ₁ YAB; and 90 intended hue angles:																			
180, 181, ..., 269, L ₁ YAB data of CIE test colours 9 (R): 11.2 9.9 3.1, 10 (Y): 59.0 12.2 20.9, 11 (G): 20.3 -7.2 12.7, 12 (B): 6.4 0.1 -8.2																			
no.	AB _Y	x	y	a	b	c _{AB}	A	B	C _{AB}	h _{AB}	L*	a*	b*	C* _{ab}	h _{AB}	rgb* _{AB}	Code _{AB}		
180	59.2	0.167	0.404	0.415	-0.423	0.535	-31.6	0.7	31.6	178.7	81.4	-101.1	1.5	101.1	179.1	0.00	1.00	0.37	G180
181	59.1	0.167	0.399	0.419	-0.432	0.531	-31.4	0.1	31.4	179.6	81.4	-100.9	0.4	100.9	179.7	0.00	1.00	0.39	G181
182	59.1	0.167	0.395	0.423	-0.441	0.527	-31.1	-0.3	31.2	180.6	81.3	-99.2	-0.7	99.2	180.0	0.00	1.00	0.4	G208
183	59.1	0.167	0.391	0.427	-0.45	0.523	-30.9	-0.8	30.9	181.6	81.3	-98.2	-1.8	98.2	181.0	0.00	1.00	0.42	G218
184	59.1	0.167	0.387	0.431	-0.459	0.52	-30.7	-1.4	30.7	182.6	81.3	-97.2	-3.0	97.2	181.7	0.00	1.00	0.44	G228
185	59.1	0.166	0.383	0.434	-0.468	0.516	-30.4	-1.9	30.5	183.6	81.3	-96.2	-4.1	96.3	182.4	0.00	1.00	0.46	G238
186	59.0	0.166	0.379	0.438	-0.477	0.513	-30.2	-2.4	30.3	184.7	81.3	-95.2	-5.2	95.3	183.1	0.00	1.00	0.48	G248
187	59.0	0.166	0.375	0.442	-0.486	0.507	-29.9	-2.9	30.1	185.7	81.3	-94.2	-6.3	94.4	183.8	0.00	1.00	0.49	G258
188	59.0	0.166	0.372	0.445	-0.495	0.507	-29.7	-3.5	29.9	186.8	81.3	-93.2	-7.4	93.5	184.5	0.00	1.00	0.51	G268
189	59.0	0.166	0.368	0.45	-0.505	0.504	-29.4	-4.1	29.7	187.9	81.3	-92.2	-8.4	92.6	185.2	0.00	1.00	0.53	G278
190	59.0	0.166	0.364	0.454	-0.514	0.501	-29.2	-4.6	29.6	189.0	81.2	-91.3	-9.5	91.8	185.9	0.00	1.00	0.55	G278
191	58.9	0.165	0.361	0.458	-0.523	0.499	-28.9	-5.1	29.4	190.1	81.2	-90.3	-10.5	90.9	186.6	0.00	1.00	0.57	G288
192	58.9	0.165	0.357	0.462	-0.532	0.497	-28.7	-5.6	29.3	191.2	81.2	-89.3	-11.5	90.1	187.3	0.00	1.00	0.58	G298
193	58.9	0.165	0.354	0.466	-0.541	0.495	-28.5	-6.2	29.1	192.3	81.2	-88.4	-12.5	89.3	188.0	0.00	1.00	0.6	G308
194	58.9	0.165	0.351	0.47	-0.55	0.493	-28.2	-6.7	29.0	193.4	81.2	-87.4	-13.5	88.5	188.8	0.00	1.00	0.62	G318
195	58.9	0.165	0.348	0.474	-0.558	0.491	-28.0	-7.2	28.9	194.5	81.2	-86.5	-14.5	87.7	189.5	0.00	1.00	0.64	G328
196	58.8	0.165	0.345	0.478	-0.567	0.488	-27.7	-7.7	28.8	195.6	81.2	-85.5	-15.4	86.9	190.2	0.00	1.00	0.65	G338
197	58.8	0.165	0.342	0.482	-0.576	0.481	-27.5	-8.2	28.7	196.7	81.2	-84.7	-16.3	86.3	190.9	0.00	1.00	0.67	G338
198	58.8	0.164	0.339	0.486	-0.584	0.487	-27.3	-8.7	28.6	197.8	81.2	-83.8	-17.2	85.6	191.6	0.00	1.00	0.69	G348
199	58.8	0.164	0.336	0.49	-0.593	0.486	-27.0	-9.2	28.6	198.9	81.1	-82.9	-18.1	84.9	192.3	0.00	1.00	0.71	G358
200	58.8	0.164	0.333	0.493	-0.601	0.485	-26.8	-9.7	28.5	199.9	81.1	-82.1	-19.0	84.2	193.0	0.00	1.00	0.73	G368
201	58.7	0.164	0.33	0.498	-0.611	0.485	-26.5	-10.3	28.5	201.3	81.1	-81.0	-20.0	83.4	193.9	0.00	1.00	0.74	G378
202	58.7	0.164	0.326	0.503	-0.622	0.484	-26.2	-10.9	28.4	202.7	81.1	-79.9	-21.1	82.6	194.8	0.00	1.00	0.76	G388
203	58.6	0.164	0.323	0.507	-0.633	0.484	-25.9	-11.5	28.4	204.2	81.1	-78.8	-22.2	81.9	195.7	0.00	1.00	0.78	G398
204	58.6	0.164	0.32	0.512	-0.643	0.484	-25.6	-12.1	28.4	205.3	81.0	-77.8	-23.2	81.2	196.5	0.00	1.00	0.8	G408
205	58.5	0.164	0.317	0.516	-0.652	0.484	-25.3	-12.7	28.4	206.5	81.0	-76.8	-24.1	80.5	197.4	0.00	1.00	0.82	G418
206	58.5	0.164	0.314	0.521	-0.661	0.485	-25.1	-13.2	28.4	207.8	81.0	-75.9	-25.0	79.9	198.2	0.00	1.00	0.83	G418
207	58.4	0.164	0.312	0.525	-0.67	0.486	-24.8	-13.7	28.4	208.8	81.0	-75.0	-25.9	79.3	199.0	0.00	1.00	0.85	G428
208	58.4	0.163	0.309	0.529	-0.679	0.486	-24.6	-14.2	28.4	210.0	80.9	-74.1	-26.7	78.8	199.8	0.00	1.00	0.87	G438
209	58.4	0.163	0.307	0.532	-0.687	0.487	-24.3	-14.7	28.4	211.1	80.9	-73.3	-27.4	78.2	200.5	0.00	1.00	0.89	G448
210	58.3	0.163	0.305	0.536	-0.695	0.488	-24.1	-15.1	28.5	212.1	80.9	-72.5	-28.1	77.8	201.2	0.00	1.00	0.91	G458
211	58.3	0.163	0.303	0.539	-0.702	0.489	-23.9	-15.5	28.5	213.0	80.9	-71.7	-28.8	77.3	201.9	0.00	1.00	0.92	G468
212	58.3	0.163	0.301	0.543	-0.709	0.49	-23.7	-15.9	28.6	214.0	80.9	-71.0	-29.5	76.9	202.6	0.00	1.00	0.94	G478
213	58.2	0.163	0.299	0.546	-0.716	0.492	-23.5	-16.3	28.6	214.7	80.9	-70.3	-30.1	76.5	203.1	0.00	1.00	0.96	G488
214	58.2	0.163	0.298	0.549	-0.722	0.493	-23.3	-16.7	28.7	215.5	80.8	-69.7	-30.6	76.1	203.7	0.00	1.00	0.98	G498
215	58.2	0.163	0.296	0.552	-0.727	0.494	-23.2	-17.0	28.7	216.2	80.8	-69.1	-31.1	75.8	204.2	0.00	1.00	0.99	G508
216	58.2	0.163	0.295	0.554	-0.733	0.495	-23.0	-17.3	28.8	216.9	80.8	-68.6	-31.6	75.5	204.7	0.00	1.00	0.99	G508
217	58.2	0.163	0.293	0.557	-0.737	0.496	-22.9	-17.6	28.8	217.5	80.8	-68.1	-32.0	75.2	205.2	0.00	1.00	0.96	G518
218	58.2	0.163	0.292	0.559	-0.742	0.497	-22.7	-17.8	28.9	218.0	80.8	-67.6	-32.4	75.0	205.6	0.00	1.00	0.94	G528
219	58.3	0.164	0.291	0.563	-0.746	0.496	-22.5	-18.1	28.9	218.7	80.9	-66.8	-32.8	74.4	206.2	0.00	1.00	0.93	G538
220	57.5	0.162	0.289	0.562	-0.756	0.503	-22.3	-18.4	28.9	219.4	80.9	-66.0	-33.6	74.6	206.7	0.00	1.00	0.91	G548
221	56.6	0.161	0.287	0.562	-0.768	0.511	-22.0	-18.8	28.9	220.5	80.0	-66.4	-34.4	74.8	207.4	0.00	1.00	0.89	G558
222	55.7	0.159	0.284	0.561	-0.78	0.52	-21.6	-19.2	29.0	221.5	79.4	-66.2	-35.3	75.0	208.0	0.00	1.00	0.87	G568
223	54.8	0.158	0.281	0.56	-0.794	0.529	-21.3	-19.6	29.0	222.6	78.9	-65.9	-36.2	75.3	208.8	0.00	1.00	0.85	G578
224	53.8	0.156	0.279	0.56	-0.808	0.54	-21.0	-20.0	29.0	223.6	78.3	-65.7	-37.2	75.5	209.5	0.00	1.00	0.83	G588
225	52.8	0.154	0.276	0.559	-0.823	0.551	-20.6	-20.5	29.1	224.7	77.7	-65.4	-38.2	75.8	210.2	0.00	1.00	0.82	G588
226	51.8	0.152	0.273	0.558	-0.839	0.562	-20.3	-20.9	29.1	225.7	77.2	-65.2	-39.2	76.1	211.0	0.00	1.00	0.8	G598
227	50.7	0.15	0.27	0.557	-0.855	0.574	-19.9	-21.3	29.2	226.6	76.6	-64.9	-40.2	76.4	211.8	0.00	1.00	0.78	G608
228	49.9	0.149	0.267	0.557	-0.871	0.587	-19.6	-21.7	29.3	227.7	76.0	-64.6	-41.2	76.6	212.5	0.00	1.00	0.76	G618
229	48.9	0.147	0.264	0.557	-0.889	0.6	-19.2	-22.2	29.3	229.1	75.4	-64.1	-42.3	76.8	213.4	0.00	1.00	0.74	G628
230	48.0	0.146	0.261	0.558	-0.906	0.612	-18.8	-22.6	29.4	230.2	74.8	-63.6	-43.3	76.9	214.2	0.00	1.00	0.73	G638
231	47.1	0.144	0.258	0.559	-0.922	0.624	-18.4	-22.9	29.4	231.2	74.3	-63.0	-44.2	76.9	215.0	0.00	1.00	0.71	G648
232	46.4	0.143	0.256	0.561	-0.937	0.635	-18.0	-23.2	29.4	232.1	73.8	-62.3	-45.0	76.9	215.8	0.00	1.00	0.69	G658
233	45.7	0.142	0.253	0.563	-0.951	0.645	-17.7	-23.6	29.5	233.1	73.3	-61.6	-45.8	76.8	216.6	0.00	1.00	0.67	G668
234	45.0	0.141	0.251	0.565	-0.966	0.655	-17.3	-23.8	29.5	234.0	72.9	-60.9	-46.6	76.7	217.4	0.00	1.00	0.65	G678
235	44.3	0.141	0.248	0.567	-0.981	0.667	-16.9	-24.2	29.5	234.9	72.4	-60.1	-47.4	76.6	218.2	0.00	1.00	0.64	G678
236	43.5	0.14	0.245	0.57	-0.998	0.679	-16.5	-24.5	29.5	235.9	71.9	-59.3	-48.3	76.5	219.1	0.00	1.00	0.62	G688
237	42.8	0.139	0.243	0.572	-1.016	0.692	-16.1	-24.8	29.6	236.9	71.4	-							

rgb _{AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																			
Yxy, <i>abc</i> _{AB} , <i>ABC</i> _{AB} , <i>LabC</i> _{ab} <i>hAB</i> data for relative spacing of elementary hue <i>hAB</i> of <i>LIN</i> YAB for CIE 2 degree observer																			
Elementary hue circle with 4 divided elementary hue angles: <i>hAB</i> = 17.7, 93.3, 159.1, 270.8 of <i>LIN</i> YAB, and 90 intended hue angles:																			
270, 271, ..., 360, <i>LIN</i> YAB data of CIE test colours 9 (R): 11.2 9.9 3.1, 10 (Y): 59.0 59.2 20.9, 11 (G): 20.3 -7.2 12.7, 12 (B): 6.4 0.1 -8.2																			
<i>no.</i> _{AB}	<i>Y</i>	<i>x</i>	<i>y</i>	<i>a</i>	<i>b</i>	<i>c</i> _{AB}	<i>A</i>	<i>B</i>	<i>C</i> _{AB}	<i>hAB</i>	<i>L</i> [*]	<i>a</i> [*]	<i>b</i> [*]	<i>C</i> [*] _{ab}	<i>hAB</i>	<i>rgb</i> _{ab}	<i>AB</i>	<i>Code</i> _{AB}	
270	19.2	0.127	0.132	0.963	-2.244	1.889	0.2	-34.7	34.7	270.4	50.9	1.2	-83.9	83.9	270.8	0.00	0.01	1.00	% G99B
271	18.6	0.127	0.128	0.99	-2.316	1.881	0.7	-35.0	35.0	271.2	50.2	4.0	-85.1	85.2	272.6	0.0	0.0	1.00	% R00R
272	18.0	0.127	0.125	1.019	-2.389	1.954	1.2	-35.2	35.2	272.0	49.5	6.6	-86.2	86.5	274.4	0.02	0.0	1.00	% B01R
273	17.1	0.127	0.119	1.066	-2.512	2.08	1.9	-35.5	35.6	273.2	48.4	10.8	-88.1	88.8	277.0	0.04	0.0	1.00	% B02R
274	16.3	0.128	0.115	1.111	-2.627	2.197	2.6	-35.8	35.9	274.2	47.4	14.6	-89.7	90.9	279.2	0.05	0.0	1.00	% B02R
275	15.7	0.128	0.111	1.156	-2.736	2.309	3.2	-36.1	36.2	275.1	46.6	18.2	-91.1	93.0	281.3	0.07	0.0	1.00	% B03R
276	15.0	0.129	0.107	1.205	-2.85	2.428	3.8	-36.3	36.5	276.0	45.7	21.9	-92.6	95.1	283.3	0.09	0.0	1.00	% B04R
277	13.3	0.129	0.102	1.264	-2.989	2.575	4.5	-36.6	36.8	277.0	44.7	26.1	-94.2	97.7	285.5	0.11	0.0	1.00	% B05R
278	13.5	0.129	0.097	1.315	-3.115	2.706	5.2	-36.8	37.2	278.0	43.5	30.3	-96.2	109.9	287.8	0.13	0.0	1.00	% B06R
279	12.7	0.131	0.092	1.413	-3.249	2.951	5.9	-37.1	37.6	279.1	42.3	36.0	-99.7	104.3	290.1	0.15	0.0	1.00	% B07R
280	11.9	0.132	0.087	1.513	-3.567	3.182	6.7	-37.3	37.9	280.2	41.1	41.3	-99.9	108.1	292.4	0.17	0.0	1.00	% B08R
281	11.1	0.133	0.082	1.619	-3.809	3.44	7.4	-37.6	38.3	281.2	39.8	46.7	-102.0	112.2	294.6	0.19	0.0	1.00	% B09R
282	10.3	0.134	0.077	1.734	-4.075	3.723	8.1	-37.8	38.7	282.1	38.5	52.1	-104.0	116.4	296.6	0.2	0.0	1.00	% B10R
283	9.6	0.135	0.072	1.858	-4.357	4.025	8.8	-38.0	39.0	283.0	37.3	57.5	-106.0	120.6	298.4	0.22	0.0	1.00	% B11R
284	8.7	0.136	0.066	2.068	-4.831	4.535	9.7	-38.2	39.4	284.2	35.4	65.5	-109.0	127.2	301.8	0.24	0.0	1.00	% B12R
285	7.9	0.137	0.061	2.251	-5.235	4.973	10.4	-38.3	39.7	285.0	33.9	71.7	-111.2	132.3	303.8	0.26	0.0	1.00	% B13R
286	7.6	0.138	0.052	2.482	-5.602	5.396	10.3	-38.4	40.0	286.0	32.8	78.7	-113.6	137.6	305.5	0.28	0.0	1.00	% B14R
287	5.6	0.128	0.045	2.848	-7.295	7.117	10.7	-38.8	40.2	285.8	28.5	84.7	-115.6	146.5	305.3	0.3	0.0	1.00	% B15R
288	6.3	0.144	0.05	2.887	-6.421	6.291	12.3	-38.2	40.2	287.9	30.4	89.6	-115.1	146.6	307.6	0.32	0.0	1.00	% B16R
289	6.7	0.15	0.052	2.866	-6.055	5.937	12.9	-38.1	40.2	288.8	31.3	90.6	-114.5	146.0	308.3	0.34	0.0	1.00	% B17R
290	7.1	0.157	0.055	2.846	-5.713	5.697	13.6	-37.9	40.2	289.7	32.2	91.7	-112.8	145.4	309.0	0.35	0.0	1.00	% B17R
291	7.6	0.163	0.057	2.865	-5.395	5.362	14.2	-37.6	40.3	290.9	33.1	92.7	-111.2	144.8	309.8	0.37	0.0	1.00	% B18R
292	8.0	0.169	0.06	2.887	-5.099	5.02	14.9	-37.4	40.3	291.7	34.0	93.7	-109.6	144.2	310.5	0.39	0.0	1.00	% B19R
293	8.4	0.175	0.063	2.788	-4.826	4.64	15.6	-37.2	40.3	292.3	34.9	94.7	-108.0	143.7	311.2	0.41	0.0	1.00	% B20R
294	8.9	0.182	0.065	2.577	-4.572	4.512	16.2	-37.0	40.4	293.7	35.9	95.8	-106.4	143.1	311.7	0.43	0.0	1.00	% B21R
295	9.4	0.188	0.068	2.573	-4.338	4.298	16.9	-36.7	40.5	294.7	36.8	96.7	-104.8	142.6	312.7	0.45	0.0	1.00	% B22R
296	9.9	0.194	0.071	2.736	-4.12	4.095	17.7	-36.5	40.6	295.8	37.7	97.7	-103.2	142.1	313.4	0.47	0.0	1.00	% B23R
297	10.4	0.201	0.073	2.72	-3.919	3.997	18.4	-36.3	40.7	296.9	38.6	98.7	-101.6	141.4	314.1	0.48	0.0	1.00	% B24R
298	10.9	0.207	0.076	2.704	-3.733	3.735	19.1	-36.0	40.8	298.0	39.4	99.6	-100.0	141.2	314.8	0.5	0.0	1.00	% B25R
299	11.4	0.213	0.079	2.689	-3.56	3.576	19.9	-35.8	40.9	299.0	40.3	100.6	-98.5	140.8	315.6	0.52	0.0	1.00	% B26R
300	11.9	0.219	0.082	2.675	-3.4	3.429	20.6	-35.5	41.1	300.1	41.2	101.5	-96.9	140.4	316.3	0.54	0.0	1.00	% B27R
301	12.5	0.225	0.084	2.661	-3.251	3.294	21.4	-35.2	41.2	300.2	42.0	102.4	-95.4	140.0	316.9	0.56	0.0	1.00	% B28R
302	13.0	0.231	0.087	2.647	-3.113	3.17	22.1	-34.9	41.3	301.1	42.8	103.2	-94.0	139.6	317.5	0.58	0.0	1.00	% B29R
303	13.6	0.237	0.09	2.634	-2.985	3.055	22.9	-34.7	41.6	303.4	43.7	104.1	-92.5	139.3	318.3	0.6	0.0	1.00	% B30R
304	14.1	0.243	0.092	2.622	-2.865	2.949	23.7	-34.4	41.8	304.5	44.5	104.9	-91.1	138.9	319.0	0.62	0.0	1.00	% B31R
305	14.7	0.248	0.095	2.61	-2.754	2.851	24.4	-34.1	42.0	305.4	45.3	105.7	-89.7	138.6	319.6	0.63	0.0	1.00	% B31R
306	15.3	0.254	0.097	2.598	-2.65	2.761	25.2	-33.9	42.2	306.6	46.0	106.5	-88.3	138.3	320.3	0.65	0.0	1.00	% B32R
307	15.8	0.259	0.1	2.586	-2.554	2.677	25.9	-33.6	42.5	307.6	46.8	107.2	-86.9	138.0	320.9	0.67	0.0	1.00	% B33R
308	16.4	0.264	0.102	2.575	-2.464	2.599	26.7	-33.3	42.7	308.7	47.5	107.9	-85.6	137.8	321.5	0.69	0.0	1.00	% B34R
309	17.0	0.269	0.105	2.565	-2.379	2.527	27.4	-33.0	43.0	309.7	48.2	108.6	-84.3	137.5	322.1	0.71	0.0	1.00	% B35R
310	17.5	0.274	0.107	2.554	-2.291	2.474	28.1	-32.7	43.3	310.7	49.0	109.3	-83.0	137.3	322.7	0.73	0.0	1.00	% B36R
311	18.1	0.279	0.109	2.544	-2.227	2.398	28.9	-32.5	43.5	311.6	49.6	109.9	-81.8	137.0	323.3	0.75	0.0	1.00	% B37R
312	18.7	0.283	0.111	2.534	-2.158	2.34	29.6	-32.2	43.8	312.5	50.3	110.5	-80.6	136.8	323.9	0.77	0.0	1.00	% B38R
313	19.2	0.288	0.114	2.524	-2.093	2.286	30.3	-31.9	44.0	313.5	51.0	111.1	-79.4	136.6	324.4	0.78	0.0	1.00	% B39R
314	19.8	0.292	0.116	2.515	-2.033	2.236	31.0	-31.7	44.3	314.4	51.6	111.7	-78.2	136.4	324.9	0.8	0.0	1.00	% B40R
315	20.3	0.296	0.118	2.505	-1.976	2.189	31.7	-31.4	44.6	315.2	52.2	112.2	-77.1	136.2	325.4	0.82	0.0	1.00	% B41R
316	20.9	0.3	0.12	2.496	-1.923	2.145	32.3	-31.1	44.9	316.1	52.8	112.7	-76.0	136.0	325.9	0.84	0.0	1.00	% B42R
317	21.8	0.306	0.123	2.474	-1.841	2.073	33.2	-30.7	45.2	317.2	53.8	113.0	-74.3	135.2	326.6	0.86	0.0	1.00	% B43R
318	23.0	0.313	0.128	2.436	-1.736	1.974	34.3	-30.0	45.6	318.8	55.1	113.9	-71.8	133.9	327.5	0.88	0.0	1.00	% B44R
319	24.2	0.319	0.133	2.399	-1.646	1.888	35.1	-29.4	45.8	320.1	56.3	112.7	-69.5	132.5	328.3	0.9	0.0	1.00	% B45R
320	25.3	0.324	0.137	2.363	-1.57	1.812	35.8	-28.7	45.9	322.2	57.4	112.3	-67.5	131.0	328.9	0.91	0.0	1.00	% B46R
321	26.4	0.328	0.141	2.328	-1.504	1.744	36.4	-28.0	46.0	321.2	58.4	111.6	-65.6	129.5	329.5	0.93	0.0	1.00	% B47R
322	27.3	0.332	0.144	2.295	-1.446	1.682	36.8	-27.6	46.0	323.0	59.3	110.9	-63.8	127.9	330.0	0.95	0.0	1.00	% B47R
323	28.2	0.335	0.148	2.263	-1.395	1.626	37.1	-27.1	45.9	323.8	60.1	110.0	-62.2	126.4	330.5	0.97	0.0	1.00	% B48R
324	29.1	0.337	0.151	2.232	-1.35	1.575	37.3	-26.6	45.8	324.4	60.8	109.1	-60.7	124.8	330.9	1.00	0.0	1.0	% B49R
325	29.9	0.34	0.154	2.203	-1.31	1.528	37.4	-26.1	45.6	325.0	61.5	108.1	-59.3	123.3	331.2	1.00	0.0	0.98	% B50R
326	31.1	0.344	0.159	2.165	-1.248	1.462	38.0	-25.3	45.5	326.2	62.6	107.0	-58.0	121.2	331.7	1.00			

Oswald optimal colours (o) of maximum (m) C _{AB} for D65, Y _{w,10} =100, Y _m =520_770, LINYAB data														%
i ₁ , λ ₁	i ₂ , λ ₂	Y ₁₀₀	A ₁₀₀	B ₁₀₀	C _{AB}	a	b	h _{AB}	i _d , λ _d	i _c , λ _c	Code		%	
0 405	31 556	56.57	−21.89	−18.32	28.54	0.5611	−0.7532	219.9	15 476	37 585	Cm		%	
6 435	31 557	57.41	−26.44	−8.79	27.86	0.4876	−0.5825	198.4	16 480	44 621			%	
10 450	31 559	57.53	−32.48	6.09	33.05	0.3834	−0.3234	169.3	18 491	−1 491c			%	
11 460	32 562	59.27	−33.9	10.52	35.5	0.3761	−0.2517	162.7	19 498	−1 498c			%	
12 465	33 565	60.91	−34.93	14.56	37.84	0.3747	−0.1903	157.3	21 506	−1 506c			%	
14 470	34 570	63.07	−35.18	20.67	40.8	0.3903	−0.1016	149.5	24 522	−1 522c			%	
15 475	35 579	68.64	−33.55	24.85	41.75	0.4593	−0.0672	143.4	26 533	−1 533c	Gm		%	
16 480	41 606	81.94	−23.65	31.88	39.7	0.6594	−0.0401	126.5	30 550	−1 550c			%	
16 485	−1 484c	92.3	−10.45	36.33	37.8	0.8348	−0.0356	106.0	32 560	10 454			%	
18 490	−1 490c	89.06	−7.57	36.55	37.33	0.863	−0.0188	101.7	32 562	11 459	max		%	
19 495	−1 495c	87.05	−5.68	36.18	36.62	0.8828	−0.0136	98.9	32 563	12 461			%	
19 500	−1 499c	87.05	−5.68	36.18	36.62	0.8828	−0.0136	98.9	32 563	12 461			%	
22 510	−1 510c	79.1	1.43	33.55	33.58	0.9662	−0.0051	87.5	33 567	13 466			%	
23 520	−1 519c	75.81	4.11	32.27	32.53	1.0024	−0.0036	82.7	33 568	13 468	Ym		%	
26 530	−1 530c	64.17	12.31	27.48	30.11	1.14	−0.001	65.8	34 573	14 472			%	
27 540	−1 539c	59.9	14.81	25.68	29.65	1.1955	−0.0005	60.0	35 576	14 473			%	
28 545	−1 544c	55.54	17.09	23.83	29.32	1.2559	−0.0002	54.3	35 578	14 474			%	
29 550	−1 549c	51.12	19.09	21.94	29.08	1.3215	−0.0001	48.9	36 580	15 475			%	
31 555	−1 555c	42.37	21.98	18.19	28.53	1.4668	0.0	39.6	37 586	15 476			%	
32 560	10 451	40.04	32.52	−6.18	33.11	1.7604	−0.5838	349.2	−1 492c	18 492			%	
380	770	100.0	0.0	0.0	0.01	0.9481	−0.4293	0.0					%	
Oswald optimal colours (o) of maximum (m) C _{AB} for D65, Y _{w,10} =100, Y _m =770_520, LINYAB complementary														%
i ₁ , λ ₁	i ₂ , λ ₂	Y ₁₀₀	A ₁₀₀	B ₁₀₀	C _{AB}	a	b	h _{AB}	i _d , λ _d	i _c , λ _c	Code		%	
31 556	0 405	43.42	21.89	18.32	28.54	1.4522	−0.0074	39.9	37 585	15 476	Rm		%	
31 557	6 435	42.58	26.44	8.79	27.86	1.5691	−0.2226	18.4	44 621	16 480			%	
31 559	10 450	42.46	32.48	−6.09	33.05	1.713	−0.5727	349.3	−1 491c	18 491			%	
32 562	11 460	40.72	33.9	−10.52	35.5	1.7807	−0.6879	342.7	−1 498c	19 498			%	
33 565	12 465	39.08	34.93	−14.56	37.84	1.8419	−0.8019	337.3	−1 506c	21 506			%	
34 570	14 470	36.92	35.18	−20.67	40.8	1.901	−0.9891	329.5	−1 522c	24 522			%	
35 579	15 475	31.35	33.55	−24.85	41.75	2.0184	−1.2222	323.4	−1 533c	26 533	Mm		%	
41 606	16 480	18.05	23.65	−31.88	39.7	2.2587	−2.1959	306.5	−1 550c	30 550			%	
−1 484c	16 485	7.69	10.45	−36.33	37.8	2.306	−5.1484	286.0	10 454	32 560			%	
−1 490c	18 490	10.93	7.57	−36.55	37.33	1.6407	−3.7725	281.7	11 459	32 562	min		%	
−1 495c	19 495	12.94	5.68	−36.18	36.62	1.3873	−3.2239	278.9	12 461	32 563			%	
−1 499c	19 500	12.94	5.68	−36.18	36.62	1.3873	−3.2239	278.9	12 461	32 563			%	
−1 510c	22 510	20.89	−1.43	−33.55	33.58	0.8795	−2.035	267.5	13 466	33 567			%	
−1 519c	23 520	24.18	−4.12	−32.27	32.53	0.7777	−1.7639	262.7	13 468	33 568	Bm		%	
−1 530c	26 530	35.82	−12.31	−27.48	30.11	0.6044	−1.1965	245.8	14 472	34 573			%	
−1 539c	27 540	40.09	−14.81	−25.68	29.65	0.5785	−1.0699	240.0	14 473	35 576			%	
−1 544c	28 545	44.45	−17.09	−23.83	29.32	0.5635	−0.9653	234.3	14 474	35 578			%	
−1 549c	29 550	48.87	−19.09	−21.94	29.08	0.5575	−0.8782	228.9	15 475	36 580			%	
−1 555c	31 555	57.62	−21.98	−18.19	28.53	0.5667	−0.745	219.6	15 476	37 586			%	
10 451	32 560	59.95	−32.52	6.18	33.11	0.4056	−0.3261	169.2	18 492	−1 492c			%	
380	770	100.0	0.0	0.0	0.01	0.9481	−0.4293	0.0					%	

rgb _{LAB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																			
Yxy, abc _{AB} , ABC _{AB} , LabC _{ab} , h _{AB} data for relative spacing of elementary hue h _{AB} of L _{IN} YAB for CIE 10 degree observer																			
Elementary hue circle with 4 intended elementary hues 9 (R): 10.8 8.7 2.8, 10 (Y): 55.9 1.2 19.6, 11 (G): 20.4 -6.8 3.0, 12 (B): 7.8 -1.2 -7.2																			
no.	00, 001, ...,	X ₁₀	Y ₁₀	q ₁₀	b ₁₀	c _{AB} ,10	A ₁₀	B ₁₀	C _{AB} ,10	h _{AB} ,10	L*,10	a*,10	b*,10	C*,10	h _{AB} ,10	rgb _{AB} ,10	Code _{AB} ,10		
900	48.0	0.434	0.252	1.724	-0.497	0.779	31.0	-2.7	31.1	354.9	69.5	81.2	-7.3	81.6	354.7	1.00	0.00	0.36	B81R
901	48.0	0.436	0.253	1.719	-0.487	0.773	30.8	-2.3	30.9	355.7	69.5	80.8	-6.3	81.1	355.5	1.00	0.00	0.34	B82R
902	48.0	0.439	0.256	1.714	-0.476	0.768	30.7	-1.8	30.7	356.4	69.5	80.4	-5.2	80.6	356.3	1.00	0.00	0.32	B83R
903	48.0	0.441	0.258	1.709	-0.465	0.762	30.5	-1.4	30.5	357.2	69.5	80.0	-4.0	80.1	357.1	1.00	0.00	0.3	B84R
904	48.1	0.443	0.26	1.704	-0.454	0.757	30.3	-1.0	30.3	358.1	69.5	79.6	-2.8	79.6	357.9	1.00	0.00	0.28	B85R
905	48.1	0.446	0.262	1.699	-0.442	0.751	30.1	-0.5	30.1	358.9	69.5	79.1	-1.5	79.1	358.8	1.00	0.00	0.26	B86R
906	48.1	0.449	0.265	1.694	-0.431	0.745	29.9	0.0	29.9	359.8	69.5	78.7	-0.2	78.7	359.8	1.00	0.00	0.24	B87R
907	48.1	0.451	0.267	1.688	-0.419	0.737	29.7	0.4	29.7	0.7	69.6	78.2	1.1	78.2	0.8	1.00	0.00	0.22	B88R
908	48.2	0.454	0.27	1.682	-0.408	0.734	29.5	0.8	29.5	1.0	69.7	77.2	2.7	77.2	1.8	1.00	0.00	0.2	B89R
909	48.2	0.457	0.272	1.676	-0.394	0.729	29.3	1.3	29.3	2.7	69.6	77.2	4.0	77.3	3.0	1.00	0.00	0.18	B90R
910	48.2	0.46	0.275	1.67	-0.382	0.724	29.1	1.9	29.1	3.7	69.6	76.7	5.6	76.9	4.1	1.00	0.00	0.16	B91R
911	48.3	0.463	0.278	1.664	-0.369	0.719	28.8	2.4	28.9	4.7	69.6	76.2	7.2	76.5	5.4	1.00	0.00	0.14	B92R
912	48.3	0.467	0.281	1.658	-0.356	0.714	28.6	2.9	28.8	5.8	69.7	75.6	8.8	76.2	6.7	1.00	0.00	0.12	B93R
913	48.3	0.47	0.284	1.652	-0.343	0.709	28.4	3.4	28.6	6.9	69.7	75.1	10.6	75.8	8.0	1.00	0.00	0.1	B94R
914	48.4	0.474	0.288	1.645	-0.33	0.704	28.1	4.0	28.4	8.0	69.7	74.5	12.3	75.6	9.4	1.00	0.00	0.08	B95R
915	48.4	0.477	0.291	1.638	-0.316	0.7	27.9	4.5	28.3	9.2	69.8	74.0	14.2	75.3	10.8	1.00	0.00	0.06	B96R
916	48.5	0.481	0.294	1.632	-0.303	0.695	27.7	5.0	28.5	10.4	69.8	73.5	16.1	75.2	12.3	1.00	0.00	0.04	B97R
917	48.5	0.485	0.298	1.625	-0.29	0.691	27.4	5.6	28.0	11.6	69.8	72.8	18.1	75.0	13.9	1.00	0.00	0.02	B98R
918	48.6	0.489	0.302	1.618	-0.276	0.687	27.2	6.2	27.9	12.8	69.9	72.2	20.1	75.0	15.6	1.00	0.00	0.0	B99R
919	48.6	0.493	0.305	1.611	-0.263	0.684	27.0	6.7	27.8	14.0	69.9	71.6	22.3	75.0	17.2	1.00	0.01	0.00	R01Y
920	48.7	0.497	0.309	1.605	-0.249	0.681	26.7	7.3	27.7	15.3	70.0	71.0	24.5	75.2	19.0	1.00	0.02	0.00	R02Y
921	48.8	0.501	0.313	1.598	-0.235	0.678	26.5	7.8	27.6	16.5	70.0	70.4	26.8	75.4	20.8	1.00	0.04	0.00	R04Y
922	48.8	0.505	0.317	1.591	-0.222	0.675	26.2	8.4	27.6	17.8	70.0	69.8	29.2	75.7	22.6	1.00	0.05	0.00	R05Y
923	48.9	0.509	0.321	1.583	-0.208	0.673	26.0	9.0	27.7	19.1	70.1	69.2	31.7	75.6	24.6	1.00	0.06	0.00	R06Y
924	48.9	0.514	0.326	1.575	-0.195	0.67	25.7	9.5	27.5	20.4	70.1	68.6	34.3	75.7	26.5	1.00	0.08	0.00	R07Y
925	49.0	0.519	0.33	1.569	-0.181	0.669	25.5	10.1	27.4	21.7	70.2	68.0	37.0	77.4	28.5	1.00	0.09	0.00	R09Y
926	49.1	0.523	0.335	1.562	-0.168	0.667	25.2	10.7	27.4	23.0	70.2	67.3	39.8	78.2	30.6	1.00	0.11	0.00	R11Y
927	49.1	0.528	0.339	1.555	-0.155	0.666	25.0	11.3	27.4	24.3	70.3	66.7	42.8	79.3	32.6	1.00	0.12	0.00	R12Y
928	49.2	0.533	0.344	1.548	-0.141	0.665	24.7	11.8	27.4	25.6	70.3	66.1	45.9	80.5	34.8	1.00	0.14	0.00	R14Y
929	49.3	0.538	0.349	1.541	-0.128	0.664	24.5	12.4	27.5	26.8	70.4	65.4	49.2	81.9	36.9	1.00	0.15	0.00	R15Y
930	49.4	0.543	0.354	1.533	-0.115	0.664	24.2	13.0	27.5	28.1	70.4	64.8	52.7	83.6	39.1	1.00	0.17	0.00	R17Y
931	49.5	0.548	0.359	1.526	-0.102	0.664	24.0	13.5	27.6	29.4	70.5	64.2	56.5	85.5	41.3	1.00	0.18	0.00	R18Y
932	49.6	0.553	0.364	1.519	-0.09	0.664	23.7	14.1	27.6	30.6	70.6	63.5	60.5	87.8	43.6	1.00	0.2	0.00	R20Y
933	49.7	0.558	0.369	1.512	-0.077	0.665	23.5	14.6	27.7	31.9	70.6	62.9	64.9	90.4	45.8	1.00	0.23	0.00	R21Y
934	49.8	0.564	0.374	1.505	-0.065	0.665	23.3	15.2	27.8	33.1	70.7	62.3	69.7	93.5	48.2	1.00	0.24	0.00	R23Y
935	49.9	0.569	0.38	1.498	-0.053	0.666	23.0	15.7	27.9	34.3	70.8	61.6	75.0	97.1	50.5	1.00	0.24	0.00	R24Y
936	49.9	0.574	0.385	1.491	-0.041	0.667	22.8	16.3	28.0	35.5	70.8	61.0	81.1	101.5	53.0	1.00	0.26	0.00	R26Y
937	49.0	0.58	0.39	1.484	-0.029	0.669	22.5	16.8	28.1	36.6	70.9	60.4	88.4	107.1	55.6	1.00	0.27	0.00	R27Y
938	49.2	0.585	0.396	1.477	-0.017	0.67	22.3	17.3	28.3	37.8	71.0	59.7	97.8	114.6	58.5	1.00	0.29	0.00	R29Y
939	49.3	0.591	0.401	1.471	-0.006	0.672	22.1	17.8	28.4	38.9	71.0	59.1	111.4	126.1	62.0	1.00	0.3	0.00	R30Y
940	49.4	0.597	0.407	1.465	0.007	0.673	21.7	18.6	28.5	40.5	71.3	58.0	134.8	146.7	66.7	1.00	0.31	0.00	R31Y
941	49.5	0.602	0.413	1.458	0.02	0.663	21.2	19.5	28.8	42.7	71.9	56.2	159.4	169.0	70.5	1.00	0.33	0.00	R33Y
942	49.4	0.604	0.426	1.416	0.029	0.655	20.7	20.3	29.0	44.7	72.5	54.5	175.2	183.5	72.7	1.00	0.34	0.00	R34Y
943	49.3	0.603	0.431	1.397	0.032	0.644	20.4	20.9	29.2	45.7	73.1	53.0	183.4	199.9	73.8	1.00	0.36	0.00	R36Y
944	49.3	0.6	0.434	1.381	0.032	0.633	20.0	21.3	29.3	46.7	73.7	51.7	184.9	192.0	74.3	1.00	0.37	0.00	R37Y
945	49.3	0.595	0.435	1.366	0.028	0.62	19.8	21.6	29.3	47.5	74.3	50.5	180.9	187.8	74.4	1.00	0.39	0.00	R39Y
946	48.2	0.589	0.435	1.353	0.022	0.607	19.5	21.8	29.3	48.1	75.0	49.4	172.5	179.5	74.0	1.00	0.4	0.00	R40Y
947	48.2	0.582	0.434	1.341	0.015	0.584	19.3	21.9	29.2	48.5	75.6	48.4	160.8	167.9	73.2	1.00	0.42	0.00	R41Y
948	48.2	0.575	0.432	1.331	0.007	0.581	19.2	21.9	29.1	48.7	76.2	47.5	146.8	154.3	72.0	1.00	0.43	0.00	R43Y
949	51.1	0.569	0.43	1.321	0.0	0.568	19.0	21.9	29.0	49.0	76.7	46.7	132.1	140.9	71.5	1.00	0.45	0.00	R45Y
950	52.1	0.566	0.433	1.306	0.0	0.559	18.6	22.3	29.1	50.1	77.3	45.3	133.1	140.6	71.1	1.00	0.46	0.00	R46Y
951	53.0	0.563	0.436	1.292	0.0	0.55	18.2	22.7	29.2	51.2	77.9	44.0	134.0	141.0	71.7	1.00	0.48	0.00	R48Y
952	53.8	0.561	0.438	1.281	0.0	0.543	17.9	23.1	29.2	52.1	78.3	42.9	134.7	141.4	72.3	1.00	0.49	0.00	R49Y
953	54.6	0.559	0.44	1.269	0.0	0.536	17.5	23.4	29.2	53.1	78.8	41.8	135.4	141.7	72.8	1.00	0.51	0.00	R51Y
954	55.3	0.557	0.442	1.259	0.0	0.53	17.2	23.7	29.3	54.0	79.2	40.7	135.9	141.9	73.3	1.00	0.52	0.00	R52Y
955	56.0	0.555	0.444	1.248	0.0	0.523	16.8	24.0	29.3	54.9	79.6	39.6	136.6	142.2	73.8	1.00	0.53	0.00	R53Y
956	56.8	0.552	0.446	1.237	0.0	0.517	16.4	24.3	29.4	55.9	80.0	38.4	137.2	142.5	74.3	1.00	0.55	0.00	R55Y
957	57.5	0.55	0.448	1.227	0.0	0.511	16.0	24.7	29.4	56.9	80.5	<							

rgb _{LAB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																				
Yxy, c _{AB} _{AB} , ABC _{AB} , LabC _{ab} _{ab} data for relative spacing of elementary hue h _{AB} of L _{IN} YAB for CIE 10 degree observer																				
Elementary hue circle with 4 intended elementary hue angles: h _{AB} = 18.2, 86.3, 156.2, 260.1 of L _{IN} YAB, and 90 intended hue angles:																				
Elementary hue circle with 4 intended elementary hue angles: h _{AB} = 18.2, 86.3, 156.2, 260.1 of L _{IN} YAB, and 90 intended hue angles:																				
no.	AB ₁₀	x ₁₀	y ₁₀	q ₁₀	b ₁₀	c _{AB10}	A ₁₀	B ₁₀	C _{AB10}	h _{AB10}	L* ₁₀	a* ₁₀	b* ₁₀	C* _{AB10}	h _{AB10}	rgb _{AB10}	Code _{AB10}			
990	88.8	0.481	0.509	0.936	-0.007	0.422	-0.1	34.1	34.1	90.1	92.0	-0.2	138.8	138.8	90.0	0.94	1.00	0.00	0.00	Y05G
991	81.5	0.479	0.51	0.948	-0.007	0.421	-0.7	34.1	34.4	91.3	92.4	-1.5	137.5	137.5	90.6	0.93	1.00	0.00	0.00	Y06G
992	82.3	0.476	0.512	0.93	-0.008	0.421	-1.4	34.6	34.6	92.4	92.7	-2.9	136.3	136.3	91.2	0.91	1.00	0.00	0.00	Y08G
993	83.1	0.473	0.513	0.922	-0.009	0.42	-2.1	34.8	34.9	93.4	93.0	-4.2	135.1	135.2	91.8	0.9	1.00	0.00	0.00	Y09G
994	83.8	0.471	0.515	0.914	-0.01	0.42	-2.7	35.1	35.2	94.4	93.3	-5.5	134.1	134.2	92.3	0.88	1.00	0.00	0.00	Y11G
995	84.5	0.468	0.516	0.907	-0.011	0.42	-3.4	35.3	35.5	95.5	93.6	-6.8	133.1	133.3	92.9	0.87	1.00	0.00	0.00	Y12G
996	85.2	0.466	0.518	0.9	-0.011	0.42	-4.0	35.5	35.8	96.5	93.9	-8.0	132.3	132.5	93.4	0.86	1.00	0.00	0.00	Y13G
997	85.9	0.464	0.519	0.883	-0.012	0.42	-4.6	35.8	36.1	97.4	94.2	-9.2	131.5	131.8	94.0	0.84	1.00	0.00	0.00	Y15G
998	86.5	0.462	0.52	0.887	-0.013	0.42	-5.2	36.0	36.3	98.2	94.2	-10.3	130.8	131.3	94.5	0.83	1.00	0.00	0.00	Y16G
999	87.0	0.46	0.521	0.882	-0.013	0.42	-5.7	36.1	36.6	98.9	94.7	-11.2	130.3	130.7	94.9	0.81	1.00	0.00	0.00	Y18G
1000	87.6	0.458	0.522	0.876	-0.014	0.42	-6.2	36.3	36.8	99.7	95.0	-12.2	129.1	129.7	95.4	0.8	1.00	0.00	0.00	Y19G
101	88.4	0.454	0.523	0.869	-0.016	0.42	-6.9	36.4	37.1	100.8	95.3	-13.6	128.8	127.6	96.1	0.78	1.00	0.00	0.00	Y21G
102	89.4	0.451	0.522	0.862	-0.019	0.418	-7.6	36.6	37.3	101.7	95.7	-14.9	128.3	124.2	96.8	0.77	1.00	0.00	0.00	Y22G
103	90.5	0.448	0.52	0.86	-0.023	0.414	-7.9	36.7	37.5	102.1	96.2	-15.3	119.5	120.5	97.3	0.76	1.00	0.00	0.00	Y23G
104	91.5	0.444	0.519	0.856	-0.028	0.411	-8.3	36.7	37.6	102.8	96.6	-16.1	119.5	117.0	97.9	0.74	1.00	0.00	0.00	Y25G
105	92.2	0.44	0.518	0.848	-0.031	0.409	-9.1	36.6	37.7	103.4	96.9	-17.6	118.2	114.1	98.0	0.73	1.00	0.00	0.00	Y26G
106	92.9	0.434	0.518	0.839	-0.033	0.409	-9.9	36.7	37.8	104.3	96.9	-19.0	116.9	111.6	100.3	0.71	1.00	0.00	0.00	Y28G
107	92.0	0.432	0.521	0.829	-0.035	0.411	-10.9	36.2	37.8	106.8	96.8	-21.2	109.4	111.4	109.9	0.7	1.00	0.00	0.00	Y29G
108	91.7	0.43	0.522	0.823	-0.036	0.412	-11.4	36.6	37.8	107.6	96.7	-22.3	109.1	111.3	101.5	0.68	1.00	0.00	0.00	Y31G
109	91.4	0.428	0.524	0.816	-0.036	0.414	-12.0	35.9	37.8	108.5	96.5	-23.5	108.8	111.3	102.2	0.67	1.00	0.00	0.00	Y32G
110	91.0	0.425	0.526	0.809	-0.036	0.416	-12.6	35.7	37.9	109.4	96.4	-24.8	108.5	111.3	102.9	0.66	1.00	0.00	0.00	Y33G
111	90.6	0.423	0.527	0.802	-0.036	0.418	-13.2	35.5	37.9	110.3	96.2	-26.1	108.2	111.3	103.5	0.64	1.00	0.00	0.00	Y35G
112	90.2	0.421	0.529	0.794	-0.036	0.421	-13.8	35.4	38.0	111.3	96.0	-27.5	107.9	111.3	104.3	0.63	1.00	0.00	0.00	Y36G
113	89.7	0.418	0.531	0.787	-0.037	0.424	-14.4	35.2	38.0	112.3	95.9	-29.0	106.6	111.4	105.0	0.61	1.00	0.00	0.00	Y38G
114	89.3	0.416	0.534	0.779	-0.037	0.427	-15.0	35.0	38.1	113.3	95.7	-30.4	107.3	111.5	105.8	0.6	1.00	0.00	0.00	Y39G
115	88.8	0.413	0.536	0.77	-0.037	0.43	-15.7	34.8	38.2	114.3	95.5	-32.0	107.0	111.7	106.6	0.58	1.00	0.00	0.00	Y41G
116	88.3	0.41	0.538	0.762	-0.037	0.433	-16.4	34.6	38.2	115.3	95.3	-33.6	106.7	111.8	107.4	0.57	1.00	0.00	0.00	Y42G
117	87.7	0.407	0.541	0.753	-0.037	0.437	-17.0	34.3	38.3	116.4	95.0	-35.2	106.3	112.0	108.3	0.56	1.00	0.00	0.00	Y43G
118	87.2	0.404	0.543	0.744	-0.037	0.441	-17.7	34.1	38.4	117.4	94.8	-36.9	106.0	112.2	109.2	0.54	1.00	0.00	0.00	Y45G
119	86.6	0.401	0.546	0.735	-0.038	0.445	-18.4	33.9	38.6	118.5	94.6	-38.7	105.6	112.5	110.1	0.53	1.00	0.00	0.00	Y46G
120	86.0	0.398	0.549	0.725	-0.038	0.449	-19.1	33.6	38.7	119.6	94.3	-40.5	105.2	112.8	111.0	0.51	1.00	0.00	0.00	Y48G
121	85.4	0.395	0.551	0.716	-0.038	0.454	-19.8	33.4	38.8	120.6	94.1	-42.3	104.8	113.1	111.9	0.5	1.00	0.00	0.00	Y49G
122	84.8	0.391	0.554	0.706	-0.038	0.459	-20.5	33.2	38.9	121.6	93.9	-44.2	104.4	113.4	112.9	0.48	1.00	0.00	0.00	Y51G
123	84.2	0.388	0.557	0.696	-0.038	0.464	-21.2	32.8	39.1	122.8	93.5	-46.1	103.9	113.7	113.9	0.47	1.00	0.00	0.00	Y52G
124	83.6	0.384	0.56	0.686	-0.039	0.469	-21.9	32.6	39.2	123.8	93.2	-48.1	103.5	114.1	114.9	0.46	1.00	0.00	0.00	Y53G
125	82.9	0.38	0.563	0.675	-0.039	0.475	-22.5	32.3	39.4	124.9	93.0	-50.1	103.0	114.5	115.9	0.44	1.00	0.00	0.00	Y55G
126	82.3	0.376	0.566	0.665	-0.039	0.481	-23.2	32.0	39.6	125.9	92.7	-52.1	102.4	114.9	116.9	0.43	1.00	0.00	0.00	Y56G
127	81.6	0.372	0.569	0.654	-0.04	0.487	-23.9	31.7	39.7	127.0	92.4	-54.3	101.7	115.2	118.1	0.41	1.00	0.00	0.00	Y58G
128	80.7	0.367	0.572	0.642	-0.041	0.493	-24.6	31.3	39.8	128.9	92.2	-56.6	100.6	115.4	119.3	0.4	1.00	0.00	0.00	Y59G
129	79.9	0.362	0.575	0.63	-0.042	0.495	-25.4	30.9	40.0	129.9	91.6	-59.0	99.5	115.7	120.6	0.38	1.00	0.00	0.00	Y61G
130	79.3	0.359	0.578	0.618	-0.043	0.507	-26.2	30.4	40.1	131.5	91.3	-61.8	98.3	116.3	121.3	0.37	1.00	0.00	0.00	Y62G
131	78.3	0.352	0.581	0.606	-0.045	0.514	-26.7	30.0	40.2	133.6	90.9	-63.8	97.2	116.2	122.2	0.36	1.00	0.00	0.00	Y63G
132	77.4	0.347	0.584	0.594	-0.046	0.521	-27.4	29.6	40.3	132.7	90.5	-66.2	96.0	116.6	124.6	0.34	1.00	0.00	0.00	Y65G
133	76.6	0.341	0.587	0.581	-0.048	0.528	-28.0	29.2	40.5	133.8	90.1	-68.7	94.7	117.0	125.9	0.33	1.00	0.00	0.00	Y66G
134	75.8	0.336	0.59	0.569	-0.049	0.536	-28.7	28.7	40.6	134.9	89.7	-71.2	93.5	117.5	127.2	0.31	1.00	0.00	0.00	Y68G
135	75.0	0.33	0.593	0.557	-0.051	0.543	-29.3	28.3	40.7	135.9	89.4	-73.7	92.2	118.0	128.6	0.3	1.00	0.00	0.00	Y69G
136	74.2	0.325	0.596	0.545	-0.052	0.551	-29.9	27.9	40.9	136.9	89.0	-76.2	90.9	118.6	129.9	0.28	1.00	0.00	0.00	Y71G
137	73.4	0.319	0.598	0.533	-0.054	0.558	-30.4	27.5	41.0	137.9	88.6	-78.7	89.6	119.3	131.3	0.27	1.00	0.00	0.00	Y72G
138	72.6	0.313	0.601	0.521	-0.056	0.567	-31.0	27.0	41.1	138.8	88.0	-81.2	88.3	120.0	132.6	0.26	1.00	0.00	0.00	Y73G
139	71.8	0.307	0.604	0.509	-0.058	0.574	-31.5	26.6	41.2	139.7	87.9	-83.8	87.0	120.8	133.9	0.24	1.00	0.00	0.00	Y75G
140	71.0	0.301	0.606	0.497	-0.06	0.582	-32.0	26.2	41.4	140.6	87.5	-86.2	85.7	121.6	135.1	0.23	1.00	0.00	0.00	Y76G
141	70.3	0.296	0.609	0.486	-0.062	0.59	-32.5	25.8	41.5	141.5	87.1	-88.7	84.4	122.5	136.4	0.21	1.00	0.00	0.00	Y78G
142	69.6	0.29	0.611	0.475	-0.064	0.597	-32.9	25.4	41.6	142.3	86.8	-91.1	83.1	123.4	137.6	0.2	1.00	0.00	0.00	Y79G
143	68.9	0.284	0.613	0.464	-0.066	0.605	-33.3	25.0	41.7	143.1	86.4	-93.5	81.9	124.3	138.7	0.18	1.00	0.00	0.00	Y81G
144	68.2	0.279	0.617	0.453	-0.068	0.614	-33.7	24.6	41.8	144.0	86.0	-95.8	80.7	125.2	139.8	0.17	1.00	0.00	0.00	Y82G
145	67.5	0.272	0.621	0.442	-0.07	0.623	-34.1													

rgb _{AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																									
Yxy _{AB} , abc _{AB} , ABC _{AB} , LabC _{AB} , a _{hAB} data for relative spacing of elementary hue h _{AB} of LINYAB for CIE 10 degree observer																									
Elementary hue circle with 4 divided elementary hue angles: h _{AB} = 18.2, 86.3, 156.2, 260.1 of LINYAB, and 90 intended hue angles:																									
180, 181, ..., 269, LINYAB data of CIE test colours 9 (R): 10.8 8.7 2.8, 10 (Y): 55.9 1.2 19.6, 11 (G): 20.4 -6.8 3.0, 12 (B): 7.8 -1.2 -7.2																									
no.	AB	X ₁₀	Y ₁₀	a ₁₀	b ₁₀	C _{AB} 10	A ₁₀	B ₁₀	C _{AB} 10	h _{AB} 10	L* ₁₀	a* ₁₀	b* ₁₀	C* _{AB} 10	h _{AB} 10	rgb _{AB}	AB	10	Code	AB	10				
180	41.8	0.485	0.304	1.593	-0.274	0.664	27.0	6.4	27.7	13.4	70.7	70.6	29.6	73.6	16.2	0.00	1.00	0.45	G22B	10					
181	41.8	0.485	0.304	1.595	-0.276	0.664	27.0	6.3	27.7	13.2	70.7	70.7	29.6	73.6	16.0	0.00	1.00	0.47	G23B	10					
182	41.7	0.484	0.303	1.596	-0.279	0.665	27.0	6.2	27.8	13.0	70.7	70.8	19.9	73.6	15.7	0.00	1.00	0.49	G24B	10					
183	41.7	0.484	0.302	1.597	-0.281	0.666	27.1	6.1	27.8	12.8	70.7	70.9	19.6	73.6	15.4	0.00	1.00	0.51	G25B	10					
184	41.7	0.483	0.302	1.598	-0.283	0.666	27.1	6.0	27.8	12.6	70.7	71.0	19.3	73.6	15.2	0.00	1.00	0.53	G26B	10					
185	41.7	0.482	0.301	1.599	-0.285	0.667	27.2	6.0	27.8	12.4	70.7	71.1	19.0	73.6	14.9	0.00	1.00	0.55	G27B	10					
186	41.7	0.482	0.301	1.6	-0.287	0.667	27.2	5.9	27.8	12.2	70.7	71.2	18.6	73.6	14.6	0.00	1.00	0.57	G28B	10					
187	41.7	0.481	0.3	1.601	-0.289	0.668	27.2	5.8	27.9	12.0	70.6	71.3	18.3	73.6	14.4	0.00	1.00	0.59	G29B	10					
188	41.7	0.481	0.3	1.603	-0.291	0.668	27.3	5.7	27.9	11.8	70.6	71.4	18.0	73.7	14.2	0.00	1.00	0.61	G30B	10					
189	41.6	0.48	0.299	1.604	-0.294	0.669	27.3	5.6	27.9	11.6	70.6	71.5	17.7	73.7	13.9	0.00	1.00	0.63	G31B	10					
190	41.6	0.479	0.298	1.605	-0.296	0.67	27.4	5.5	27.9	11.4	70.6	71.6	17.3	73.7	13.6	0.00	1.00	0.64	G32B	10					
191	41.6	0.479	0.298	1.606	-0.298	0.671	27.4	5.4	27.9	11.2	70.6	71.7	17.0	73.7	13.3	0.00	1.00	0.66	G33B	10					
192	41.6	0.478	0.297	1.607	-0.3	0.672	27.4	5.3	28.0	11.0	70.6	71.8	16.7	73.7	13.1	0.00	1.00	0.68	G34B	10					
193	41.6	0.478	0.297	1.608	-0.302	0.672	27.5	5.2	28.0	10.8	70.6	71.9	16.4	73.8	12.8	0.00	1.00	0.7	G35B	10					
194	41.6	0.477	0.296	1.609	-0.304	0.673	27.5	5.1	28.0	10.6	70.6	72.0	16.1	73.8	12.6	0.00	1.00	0.72	G36B	10					
195	41.6	0.476	0.296	1.611	-0.306	0.674	27.6	5.1	28.0	10.4	70.6	72.1	15.8	73.8	12.3	0.00	1.00	0.74	G37B	10					
196	41.6	0.476	0.295	1.612	-0.308	0.674	27.6	5.0	28.0	10.2	70.6	72.2	15.5	73.9	12.1	0.00	1.00	0.76	G38B	10					
197	41.6	0.475	0.294	1.613	-0.311	0.675	27.6	4.9	28.1	10.0	70.6	72.3	15.1	73.9	11.8	0.00	1.00	0.78	G39B	10					
198	41.5	0.475	0.294	1.614	-0.313	0.676	27.7	4.8	28.1	9.8	70.6	72.4	14.8	73.9	11.6	0.00	1.00	0.8	G40B	10					
199	41.5	0.474	0.293	1.615	-0.315	0.677	27.7	4.7	28.1	9.6	70.5	72.5	14.5	74.0	11.3	0.00	1.00	0.82	G41B	10					
200	41.5	0.474	0.293	1.616	-0.317	0.677	27.7	4.6	28.1	9.4	70.5	72.6	14.2	74.0	11.1	0.00	1.00	0.84	G42B	10					
201	41.5	0.473	0.292	1.617	-0.319	0.678	27.8	4.5	28.2	9.3	70.5	72.7	13.9	74.0	10.8	0.00	1.00	0.86	G43B	10					
202	41.5	0.472	0.292	1.619	-0.321	0.679	27.8	4.4	28.2	9.1	70.5	72.8	13.6	74.1	10.6	0.00	1.00	0.88	G44B	10					
203	41.5	0.472	0.291	1.62	-0.323	0.68	27.9	4.3	28.2	8.9	70.5	72.9	13.3	74.1	10.3	0.00	1.00	0.9	G45B	10					
204	41.5	0.471	0.291	1.621	-0.326	0.681	27.9	4.2	28.2	8.7	70.5	73.0	13.0	74.1	10.1	0.00	1.00	0.91	G46B	10					
205	41.5	0.471	0.29	1.622	-0.328	0.681	27.9	4.2	28.3	8.5	70.5	73.1	12.7	74.2	9.9	0.00	1.00	0.93	G46B	10					
206	41.5	0.47	0.289	1.623	-0.33	0.682	28.0	4.1	28.3	8.3	70.5	73.2	12.4	74.2	9.6	0.00	1.00	0.95	G47B	10					
207	41.4	0.47	0.289	1.624	-0.332	0.683	28.0	4.0	28.3	8.1	70.5	73.3	12.1	74.3	9.4	0.00	1.00	0.97	G48B	10					
208	41.4	0.469	0.288	1.625	-0.334	0.684	28.1	3.9	28.3	7.9	70.5	73.4	11.9	74.3	9.2	0.00	1.0	0.99	G49B	10					
209	41.4	0.469	0.288	1.626	-0.336	0.685	28.1	3.8	28.4	7.7	70.5	73.5	11.6	74.4	8.9	0.00	0.98	1.00	G50B	10					
210	41.4	0.468	0.287	1.628	-0.338	0.686	28.1	3.7	28.4	7.5	70.4	73.6	11.3	74.4	8.7	0.00	0.96	1.00	G51B	10					
211	41.4	0.467	0.287	1.629	-0.34	0.686	28.2	3.6	28.4	7.4	70.4	73.7	11.0	74.5	8.5	0.00	0.94	1.00	G52B	10					
212	41.4	0.467	0.286	1.63	-0.342	0.687	28.2	3.5	28.4	7.2	70.4	73.8	10.7	74.5	8.2	0.00	0.92	1.00	G53B	10					
213	41.4	0.466	0.286	1.631	-0.345	0.688	28.3	3.4	28.5	7.0	70.4	73.9	10.4	74.6	8.0	0.00	0.9	1.00	G54B	10					
214	41.4	0.466	0.285	1.632	-0.347	0.689	28.3	3.4	28.5	6.8	70.4	73.9	10.1	74.6	7.8	0.00	0.88	1.00	G55B	10					
215	41.3	0.465	0.285	1.633	-0.349	0.69	28.3	3.3	28.5	6.6	70.4	74.0	9.9	74.7	7.6	0.00	0.86	1.00	G56B	10					
216	41.3	0.465	0.284	1.634	-0.351	0.691	28.4	3.2	28.5	6.4	70.4	74.1	9.6	74.8	7.3	0.00	0.84	1.00	G57B	10					
217	41.3	0.464	0.284	1.635	-0.353	0.692	28.4	3.1	28.6	6.2	70.4	74.2	9.3	74.8	7.1	0.00	0.83	1.00	G58B	10					
218	41.3	0.464	0.283	1.637	-0.355	0.692	28.4	3.0	28.6	6.1	70.4	74.3	9.0	74.9	6.9	0.00	0.81	1.00	G59B	10					
219	41.3	0.463	0.283	1.638	-0.357	0.693	28.5	2.9	28.6	5.9	70.4	74.4	8.7	74.9	6.7	0.00	0.79	1.00	G60B	10					
220	41.3	0.463	0.282	1.639	-0.359	0.694	28.5	2.8	28.7	5.7	70.4	74.5	8.4	75.0	6.5	0.00	0.77	1.00	G61B	10					
221	41.3	0.462	0.282	1.64	-0.361	0.695	28.6	2.7	28.7	5.5	70.4	74.6	8.2	75.1	6.2	0.00	0.75	1.00	G62B	10					
222	41.3	0.462	0.281	1.641	-0.364	0.696	28.6	2.6	28.7	5.3	70.3	74.7	7.9	75.1	6.0	0.00	0.73	1.00	G63B	10					
223	41.2	0.461	0.281	1.642	-0.366	0.697	28.6	2.6	28.8	5.2	70.3	74.7	7.7	75.2	5.8	0.00	0.71	1.00	G64B	10					
224	41.2	0.461	0.28	1.643	-0.368	0.698	28.7	2.5	28.8	5.0	70.3	74.9	7.4	75.3	5.6	0.00	0.69	1.00	G65B	10					
225	41.2	0.46	0.28	1.644	-0.37	0.699	28.7	2.4	28.8	4.8	70.3	75.0	7.1	75.3	5.4	0.00	0.67	1.00	G66B	10					
226	41.2	0.46	0.279	1.646	-0.372	0.7	28.7	2.3	28.8	4.6	70.3	75.1	6.8	75.4	5.2	0.00	0.65	1.00	G67B	10					
227	41.2	0.459	0.278	1.647	-0.374	0.701	28.8	2.2	28.9	4.4	70.3	75.2	6.6	75.5	5.0	0.00	0.63	1.00	G68B	10					
228	41.2	0.459	0.278	1.648	-0.376	0.702	28.8	2.1	28.9	4.3	70.3	75.3	6.3	75.5	4.8	0.00	0.61	1.00	G69B	10					
229	41.2	0.458	0.278	1.649	-0.378	0.703	28.9	2.0	28.9	4.1	70.3	75.4	6.1	75.6	4.6	0.00	0.59	1.00	G70B	10					
230	41.2	0.458	0.277	1.65	-0.38	0.704	28.9	2.0	29.0	3.9	70.3	75.5	5.8	75.7	4.4	0.00	0.57	1.00	G71B	10					
231	41.2	0.457	0.277	1.651	-0.382	0.705	28.9	1.9	29.0	3.7	70.3	75.6	5.5	75.7	4.2	0.00	0.55	1.00	G72B	10					

rgb _{AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																											
Yxy, abc _{AB} , ABC _{AB} , LabC _{ab} _{AB} data for relative spacing of elementary hue h _{AB} of L ₁ YAB for CIE 10 degree observer																											
Elementary hue circle with 4 intended elementary hues angles: h _{AB} = 18.2, 86.3, 156.2, 260.1 of L ₁ YAB, and 90 intended hue angles:																											
270, 271, ..., 360, L ₁ YAB data of CIE test colours 9 (R): 10.8 8.7 2.8, 10 (Y): 55.9 1.2 19.6, 11 (G): 20.4 -6.8 3.0, 12 (B): 7.8 -1.2 -7.2																											
no.	AB	X ₁₀	Y ₁₀	a ₁₀	b ₁₀	C _{AB} 10	A ₁₀	B ₁₀	C _{AB} 10	h _{AB} 10	L* ₁₀	a*	b*	C _{AB} 10	h _{AB} 10	rgb ^a ·AB10	Code ^a ·AB10										
276	48.7	0.44	0.26	1.693	-0.46	0.745	30.3	-1.2	30.3	357.6	70.0	79.0	-3.4	79.1	357.4	0.16	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
271	48.7	0.44	0.259	1.694	-0.462	0.746	30.4	-1.3	30.4	357.4	70.0	79.1	-3.6	79.2	357.3	0.18	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
272	48.7	0.439	0.259	1.695	-0.464	0.747	30.4	-1.4	30.4	357.3	70.0	79.2	-3.8	79.3	357.1	0.2	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
273	48.7	0.439	0.259	1.696	-0.465	0.749	30.4	-1.4	30.5	357.2	69.9	79.2	-4.0	79.3	357.0	0.21	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	48.7	0.438	0.258	1.697	-0.467	0.75	30.5	-1.5	30.5	357.0	69.9	79.3	-4.2	79.4	356.9	0.23	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
275	48.7	0.438	0.258	1.698	-0.469	0.751	30.5	-1.6	30.5	356.9	69.9	79.4	-4.4	79.5	356.7	0.25	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
276	48.6	0.438	0.257	1.699	-0.471	0.752	30.5	-1.7	30.6	356.7	69.9	79.5	-4.6	79.6	356.6	0.26	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
277	48.6	0.437	0.257	1.7	-0.473	0.753	30.6	-1.7	30.6	356.6	69.9	79.6	-4.8	79.7	356.4	0.28	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
278	48.6	0.437	0.257	1.701	-0.475	0.754	30.6	-1.8	30.6	356.6	69.9	79.7	-5.0	79.8	356.3	0.3	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
279	48.6	0.437	0.256	1.702	-0.476	0.755	30.6	-1.9	30.7	356.3	69.9	79.7	-5.2	79.9	356.2	0.31	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
280	48.6	0.436	0.256	1.703	-0.478	0.756	30.6	-2.0	30.7	356.2	69.9	79.8	-5.4	80.0	356.0	0.33	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
281	48.6	0.436	0.256	1.704	-0.48	0.757	30.7	-2.0	30.8	356.1	69.9	79.9	-5.6	80.1	355.9	0.35	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
282	48.6	0.435	0.255	1.705	-0.482	0.758	30.7	-2.1	30.8	355.9	69.9	80.0	-5.8	80.2	355.8	0.37	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
283	48.6	0.435	0.255	1.706	-0.484	0.76	30.7	-2.2	30.8	355.8	69.9	80.0	-6.0	80.3	355.6	0.38	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
284	48.6	0.435	0.254	1.707	-0.486	0.761	30.8	-2.3	30.9	355.7	69.9	80.1	-6.2	80.4	355.5	0.4	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285	48.6	0.434	0.254	1.708	-0.487	0.762	30.8	-2.3	30.9	355.6	69.9	80.2	-6.4	80.5	355.4	0.42	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
286	48.5	0.434	0.254	1.709	-0.489	0.763	30.8	-2.4	30.9	355.4	69.8	80.3	-6.6	80.6	355.2	0.43	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
287	48.5	0.434	0.253	1.71	-0.491	0.764	30.9	-2.5	31.0	355.3	69.8	80.4	-6.8	80.6	355.1	0.45	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
288	48.5	0.433	0.253	1.71	-0.493	0.765	30.9	-2.5	31.0	355.2	69.8	80.4	-6.9	80.7	355.0	0.47	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
289	48.5	0.433	0.253	1.711	-0.494	0.766	30.9	-2.6	31.0	355.0	69.8	80.5	-7.1	80.8	354.9	0.48	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
290	48.5	0.433	0.252	1.712	-0.496	0.767	31.0	-2.7	31.1	354.9	69.8	80.6	-7.3	80.9	354.7	0.5	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
291	48.5	0.432	0.252	1.713	-0.498	0.768	31.0	-2.7	31.1	354.8	69.8	80.7	-7.5	81.0	354.6	0.52	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292	48.5	0.432	0.252	1.714	-0.5	0.769	31.0	-2.8	31.2	354.7	69.8	80.7	-7.7	81.1	354.5	0.53	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293	48.5	0.432	0.251	1.715	-0.501	0.771	31.1	-2.9	31.2	354.6	69.8	80.8	-7.9	81.2	354.4	0.55	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
294	48.5	0.431	0.251	1.716	-0.503	0.772	31.1	-3.0	31.2	354.4	69.8	80.9	-8.0	81.3	354.2	0.57	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
295	48.5	0.431	0.251	1.717	-0.505	0.773	31.1	-3.0	31.3	354.3	69.8	81.0	-8.2	81.4	354.1	0.59	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
296	48.4	0.431	0.25	1.718	-0.507	0.774	31.1	-3.1	31.3	354.2	69.8	81.0	-8.4	81.5	354.0	0.6	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
297	48.4	0.43	0.25	1.719	-0.508	0.775	31.2	-3.2	31.3	354.1	69.8	81.1	-8.6	81.6	353.9	0.62	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
298	48.4	0.43	0.25	1.72	-0.51	0.776	31.2	-3.2	31.4	354.0	69.8	81.2	-8.7	81.7	353.8	0.64	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
299	48.4	0.43	0.249	1.721	-0.512	0.777	31.2	-3.3	31.4	353.8	69.8	81.3	-8.9	81.8	353.7	0.65	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	48.4	0.429	0.249	1.722	-0.513	0.778	31.3	-3.4	31.4	353.7	69.7	81.3	-9.1	81.8	353.6	0.67	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
301	48.4	0.429	0.248	1.723	-0.515	0.779	31.3	-3.4	31.5	353.6	69.7	81.4	-9.2	81.9	353.4	0.69	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
302	48.4	0.429	0.248	1.723	-0.517	0.78	31.3	-3.5	31.5	353.5	69.7	81.5	-9.4	82.0	353.3	0.7	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
303	48.4	0.428	0.248	1.724	-0.518	0.781	31.3	-3.6	31.6	353.4	69.7	81.6	-9.6	82.1	353.2	0.72	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
304	48.4	0.428	0.248	1.725	-0.52	0.782	31.4	-3.6	31.6	353.3	69.7	81.6	-9.7	82.2	353.1	0.74	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
305	48.4	0.428	0.248	1.726	-0.521	0.784	31.4	-3.7	31.6	353.2	69.7	81.7	-9.9	82.3	353.0	0.75	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
306	48.3	0.427	0.247	1.727	-0.523	0.785	31.4	-3.8	31.7	353.1	69.7	81.8	-10.1	82.4	352.9	0.77	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
307	48.3	0.427	0.247	1.728	-0.525	0.786	31.5	-3.8	31.7	352.9	69.7	81.8	-10.2	82.5	352.8	0.79	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
308	48.3	0.427	0.247	1.729	-0.526	0.787	31.5	-3.9	31.7	352.8	69.7	81.9	-10.4	82.6	352.7	0.81	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
309	48.3	0.427	0.246	1.73	-0.528	0.788	31.5	-3.9	31.8	352.7	69.7	82.0	-10.5	82.7	352.6	0.82	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
310	48.3	0.426	0.246	1.731	-0.529	0.789	31.5	-4.0	31.8	352.6	69.7	82.0	-10.7	82.7	352.5	0.84	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
311	48.3	0.426	0.246	1.731	-0.531	0.79	31.6	-4.1	31.8	352.5	69.7	82.1	-10.9	82.8	352.4	0.86	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
312	48.3	0.426	0.245	1.732	-0.533	0.791	31.6	-4.1	31.9	352.4	69.7	82.2	-11														

Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, Y _w =100, Y _m =520_770, CIELAB data														%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code		%	
0 405	32 561	80.85	−67.55	−32.54	74.98	0.1805	−0.1029	205.7	16 483	37 589	Cm		%	
6 435	32 562	81.18	−81.89	−19.25	84.12	0.1732	−0.096	193.2	17 486	42 610			%	
10 450	32 563	81.52	−109.06	11.43	109.66	0.1595	−0.0803	174.0	19 496	−1 496c			%	
12 460	33 565	82.01	−120.74	33.26	125.23	0.1538	−0.0692	164.5	21 505	−1 505c			%	
12 465	33 567	82.73	−118.76	34.5	123.67	0.1552	−0.0687	163.8	21 506	−1 506c			%	
14 470	33 569	83.3	−123.47	57.53	136.22	0.1532	−0.0572	155.0	24 520	−1 520c			%	
15 475	34 573	84.63	−118.73	70.39	138.03	0.1564	−0.0512	149.3	25 528	−1 528c	Gm		%	
16 480	36 580	86.98	−107.21	84.2	136.33	0.1633	−0.0452	141.8	27 537	−1 537c			%	
17 485	39 595	91.12	−80.53	100.07	128.45	0.1778	−0.0394	128.8	29 548	−1 548c			%	
18 490	−1 490c	97.55	−23.15	119.05	121.28	0.2052	−0.0337	101.0	33 565	11 459	max		%	
19 495	−1 495c	96.94	−20.63	125.42	127.1	0.2062	−0.0306	99.3	33 566	12 462			%	
20 500	−1 500c	96.17	−17.33	131.15	132.29	0.2076	−0.0277	97.5	33 567	12 464			%	
22 510	−1 510c	94.0	−8.24	140.17	140.41	0.2116	−0.0224	93.3	33 569	13 469			%	
23 520	−1 519c	92.57	−2.53	142.99	143.01	0.2142	−0.0202	91.0	34 570	14 471	Ym		%	
25 530	−1 529c	88.94	10.79	144.39	144.79	0.2205	−0.0165	85.7	34 573	15 475			%	
27 540	−1 539c	84.43	25.54	141.4	143.69	0.2281	−0.0134	79.7	35 577	15 478			%	
28 545	−1 544c	81.91	33.05	138.34	142.24	0.2322	−0.0121	76.5	35 579	15 479			%	
29 550	−1 549c	79.2	40.58	134.51	140.5	0.2367	−0.0111	73.2	36 582	16 480			%	
30 555	−1 554c	76.32	47.96	130.1	138.66	0.2413	−0.0103	69.7	36 584	16 481			%	
32 560	−1 560c	70.18	61.63	120.13	135.02	0.2511	−0.0093	62.8	37 589	16 483			%	
380	770	100.0	0.0	0.0	0.0	0.2154	−0.0861	0.0					%	
Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, Y _w =100, Y _m =770_520, CIELAB complementary														%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code		%	
32 561	0 405	70.73	60.88	110.08	125.79	0.2505	−0.022	61.0	37 589	16 483	Rm		%	
32 562	6 435	70.32	70.58	34.83	78.71	0.2562	−0.0659	26.2	42 610	17 486			%	
32 563	10 450	69.88	85.85	−12.65	86.78	0.2653	−0.0935	351.6	−1 496c	19 496			%	
33 565	12 460	69.24	92.89	−29.55	97.48	0.2698	−0.1035	342.3	−1 505c	21 505			%	
33 567	12 465	68.27	94.84	−31.22	99.85	0.2716	−0.1046	341.7	−1 506c	21 506			%	
33 569	14 470	67.49	99.24	−42.98	108.15	0.2748	−0.1119	336.5	−1 520c	24 520			%	
34 573	15 475	65.52	102.87	−49.85	114.31	0.2784	−0.1167	334.1	−1 528c	25 528	Mm		%	
36 580	16 480	61.69	107.96	−59.02	123.05	0.2848	−0.1241	331.3	−1 537c	27 537			%	
39 595	17 485	53.22	112.99	−75.47	135.88	0.297	−0.1406	326.2	−1 548c	29 548			%	
−1 490c	18 490	29.91	89.01	−117.0	147.01	0.3124	−0.2136	307.2	11 459	33 565	min		%	
−1 495c	19 495	33.36	74.42	−112.09	134.55	0.2908	−0.1997	303.5	12 462	33 566			%	
−1 500c	20 500	37.09	58.44	−106.44	121.43	0.2704	−0.1864	298.7	12 464	33 567			%	
−1 510c	22 510	45.26	23.9	−93.37	96.38	0.2349	−0.1623	284.3	13 469	33 569			%	
−1 519c	23 520	49.52	6.76	−86.32	86.58	0.2205	−0.152	274.4	14 471	34 570	Bm		%	
−1 529c	25 530	58.0	−23.98	−72.06	75.95	0.1992	−0.1348	251.5	15 475	34 573			%	
−1 539c	27 540	65.83	−46.7	−58.75	75.05	0.1868	−0.122	231.5	15 478	35 577			%	
−1 544c	28 545	69.38	−54.68	−52.68	75.93	0.1833	−0.117	223.9	15 479	35 579			%	
−1 549c	29 550	72.72	−60.59	−46.95	76.65	0.1812	−0.1126	217.7	16 480	36 582			%	
−1 554c	30 555	75.82	−64.5	−41.62	76.77	0.1803	−0.1088	212.8	16 481	36 584			%	
−1 560c	32 560	81.29	−66.96	−32.22	74.32	0.181	−0.1027	205.6	16 483	37 589			%	
380	770	100.0	0.0	0.0	0.0	0.2154	−0.0861	0.0					%	

rgb _{cab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																								
Yxy _{cabAB} ABC _{AB} LabC _{ab} h _{ab} data for relative spacing of elementary hue h _{ab} of CIELAB for CIE 2 degree observer																								
Elementary hue circle with 4 intended elementary hue angles: h _{ab} = 25.6, 92.4, 162.1, 271.5 of CIELAB, and 90 intended hue angles:																								
000, 001, ..., 089, CIELAB data of CIE test colours 9 (R): 40.0 58.9 28.3, 10 (Y): 81.3 -3.0 71.8, 11 (G): 52.2 -42.3 13.6, 12 (B): 30.5 1.2 -46.3																								
no.	ab	Y	x	y	a	b	c	ab	A	B	C _{ab}	h _{ab}	L*	a*	b*	C _{ab}	h _{ab}	rgb _{cab}	Code _{ab}					
000	40.7	0.443	0.255	1.735	-0.47	0.785	31.9	-1.4	32.0	357.4	70.0	82.3	-3.8	82.4	357.3	1.00	0.00	0.58	#B79R					
001	40.7	0.445	0.257	1.73	-0.459	0.78	31.7	-0.9	31.8	358.2	70.0	81.9	-2.6	81.9	358.1	1.00	0.00	0.55	#B72R					
002	40.7	0.448	0.259	1.725	-0.448	0.774	31.6	-0.5	31.6	359.0	70.0	81.5	-1.5	81.5	358.9	1.00	0.00	0.53	#B73R					
003	40.8	0.45	0.262	1.719	-0.438	0.769	31.4	-0.1	31.4	359.8	70.0	81.0	-0.2	81.0	359.7	1.00	0.00	0.51	#B74R					
004	40.8	0.453	0.264	1.714	-0.427	0.764	31.2	0.3	31.2	0.6	70.0	80.6	0.9	80.6	0.6	1.00	0.00	0.48	#B75R					
005	40.8	0.455	0.266	1.709	-0.416	0.759	31.0	0.7	31.0	1.4	70.0	80.1	2.2	80.2	1.5	1.00	0.00	0.46	#B76R					
006	40.8	0.458	0.268	1.704	-0.405	0.754	30.8	1.2	30.8	2.2	70.0	79.7	3.5	79.8	2.5	1.00	0.00	0.44	#B77R					
007	40.8	0.461	0.271	1.698	-0.394	0.749	30.6	1.6	30.6	3.4	70.0	79.2	4.8	79.4	3.4	1.00	0.00	0.42	#B78R					
008	40.8	0.463	0.273	1.693	-0.383	0.743	30.4	2.0	30.4	4.6	70.0	78.7	6.1	78.9	4.4	1.00	0.00	0.39	#B79R					
009	40.9	0.466	0.276	1.688	-0.372	0.74	30.1	2.5	30.3	4.8	70.1	78.3	7.5	78.7	5.4	1.00	0.00	0.37	#B81R					
010	40.9	0.469	0.278	1.683	-0.361	0.736	29.9	3.0	30.1	5.7	70.1	77.9	8.9	78.4	6.5	1.00	0.00	0.35	#B82R					
011	40.9	0.471	0.281	1.677	-0.35	0.732	29.7	3.4	29.9	6.6	70.1	77.4	10.3	78.1	7.5	1.00	0.00	0.33	#B83R					
012	40.9	0.474	0.283	1.672	-0.34	0.728	29.5	3.9	29.8	7.5	70.1	76.9	11.7	77.8	8.6	1.00	0.00	0.3	#B84R					
013	40.9	0.477	0.286	1.667	-0.329	0.724	29.3	4.3	29.7	8.4	70.1	76.5	13.2	77.6	9.8	1.00	0.00	0.28	#B85R					
014	41.0	0.48	0.289	1.662	-0.318	0.721	29.1	4.7	29.5	9.3	70.1	76.0	14.7	77.4	10.9	1.00	0.00	0.26	#B86R					
015	41.1	0.483	0.291	1.656	-0.308	0.717	28.9	5.2	29.4	10.2	70.1	75.5	16.2	77.3	12.1	1.00	0.00	0.24	#B87R					
016	41.0	0.486	0.294	1.65	-0.297	0.713	28.7	5.7	29.3	11.1	70.1	75.0	17.7	77.1	13.3	1.00	0.00	0.21	#B89R					
017	41.0	0.489	0.297	1.646	-0.286	0.711	28.5	6.1	29.2	12.0	70.2	74.6	19.2	77.1	14.4	1.00	0.00	0.19	#B90R					
018	41.0	0.492	0.3	1.641	-0.276	0.709	28.3	6.5	29.1	12.9	70.2	74.2	20.8	77.1	15.7	1.00	0.00	0.17	#B91R					
019	41.0	0.495	0.302	1.636	-0.266	0.706	28.1	6.9	29.0	13.8	70.2	73.7	22.4	77.1	16.9	1.00	0.00	0.15	#B92R					
020	41.1	0.498	0.305	1.631	-0.256	0.704	27.9	7.3	28.9	14.7	70.2	73.3	24.1	77.1	18.1	1.00	0.00	0.12	#B93R					
021	41.1	0.501	0.308	1.626	-0.246	0.701	27.7	7.7	28.8	15.6	70.2	72.8	25.7	77.3	19.4	1.00	0.00	0.1	#B94R					
022	41.1	0.504	0.311	1.621	-0.236	0.699	27.5	8.1	28.7	16.5	70.2	72.4	27.4	77.4	20.7	1.00	0.00	0.08	#B95R					
023	41.1	0.507	0.314	1.616	-0.226	0.697	27.4	8.6	28.6	17.4	70.2	72.0	29.1	77.6	22.0	1.00	0.00	0.06	#B96R					
024	41.1	0.51	0.317	1.611	-0.216	0.696	27.2	9.0	28.6	18.3	70.3	71.5	30.8	77.7	23.3	1.00	0.00	0.03	#B98R					
025	41.1	0.514	0.319	1.606	-0.207	0.694	27.0	9.3	28.6	19.1	70.3	71.1	32.5	78.2	24.6	1.00	0.00	0.01	#B99R					
026	41.2	0.517	0.322	1.601	-0.198	0.693	26.8	9.7	28.5	20.0	70.3	70.7	34.3	78.6	25.9	1.00	0.0	0.00	#00Y					
027	41.2	0.52	0.326	1.597	-0.187	0.692	26.6	10.2	28.5	20.9	70.3	70.3	36.4	79.2	27.4	1.00	0.02	0.00	#B02Y					
028	41.2	0.525	0.329	1.593	-0.176	0.692	26.5	10.6	28.5	21.9	70.3	69.9	38.7	79.9	28.9	1.00	0.03	0.00	#B03Y					
029	41.2	0.528	0.332	1.588	-0.165	0.693	26.3	11.1	28.6	22.8	70.3	69.5	40.9	80.7	30.4	1.00	0.05	0.00	#B05Y					
030	41.3	0.532	0.336	1.584	-0.155	0.693	26.2	11.5	28.6	23.8	70.3	69.1	43.2	81.5	31.9	1.00	0.06	0.00	#B06Y					
031	41.3	0.536	0.339	1.58	-0.145	0.693	26.0	11.9	28.6	24.6	70.4	68.8	45.5	82.5	33.4	1.00	0.08	0.00	#B08Y					
032	41.4	0.54	0.342	1.576	-0.136	0.694	25.8	12.2	28.6	25.5	70.4	68.4	47.8	83.5	34.9	1.00	0.09	0.00	#B09Y					
033	41.4	0.544	0.345	1.572	-0.127	0.694	25.7	12.7	28.7	26.3	70.4	68.1	50.1	84.5	36.3	1.00	0.11	0.00	#B11Y					
034	41.3	0.547	0.348	1.569	-0.118	0.695	25.6	13.1	28.7	27.1	70.4	67.7	52.4	85.6	37.7	1.00	0.12	0.00	#B12Y					
035	41.4	0.55	0.351	1.565	-0.11	0.695	25.4	13.4	28.8	27.8	70.4	67.4	54.7	86.8	39.0	1.00	0.13	0.00	#B13Y					
036	41.4	0.554	0.354	1.561	-0.102	0.696	25.3	13.8	28.8	28.5	70.4	67.1	57.0	88.1	40.3	1.00	0.15	0.00	#B15Y					
037	41.4	0.557	0.357	1.558	-0.094	0.696	25.1	14.1	28.8	29.2	70.4	66.7	59.4	89.3	41.6	1.00	0.16	0.00	#B16Y					
038	41.4	0.56	0.36	1.554	-0.087	0.697	25.0	14.4	28.9	29.9	70.5	66.4	61.7	90.7	42.9	1.00	0.18	0.00	#B18Y					
039	41.5	0.563	0.363	1.55	-0.08	0.697	24.9	14.7	28.9	30.5	70.5	66.1	64.0	92.0	44.0	1.00	0.19	0.00	#B19Y					
040	41.5	0.565	0.365	1.547	-0.073	0.697	24.8	15.0	28.9	31.2	70.5	65.8	66.3	93.2	45.1	1.00	0.21	0.00	#B21Y					
041	41.5	0.568	0.368	1.544	-0.068	0.698	24.6	15.2	29.0	31.7	70.5	65.5	68.7	94.9	46.3	1.00	0.22	0.00	#B22Y					
042	41.5	0.571	0.37	1.54	-0.062	0.698	24.5	15.4	29.0	32.2	70.5	65.2	71.0	96.4	47.4	1.00	0.24	0.00	#B24Y					
043	41.5	0.573	0.372	1.537	-0.057	0.698	24.4	15.7	29.0	32.7	70.5	64.9	73.2	97.9	48.4	1.00	0.25	0.00	#B25Y					
044	41.6	0.575	0.375	1.534	-0.052	0.698	24.3	15.9	29.0	33.2	70.5	64.6	75.5	99.4	49.4	1.00	0.27	0.00	#B27Y					
045	41.6	0.577	0.377	1.531	-0.047	0.698	24.1	16.1	29.0	33.7	70.6	64.3	77.8	100.9	50.4	1.00	0.28	0.00	#B28Y					
046	41.6	0.579	0.379	1.528	-0.043	0.698	24.0	16.3	29.0	34.1	70.6	64.0	80.0	102.5	51.3	1.00	0.3	0.00	#B30Y					
047	41.6	0.581	0.381	1.525	-0.039	0.698	2																	

rgb* _{cab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																								
Yxy, rgb* _{AB} , ABC _{AB} , LabC* _{ahb} data for relative spacing of elementary hue h _{ab} of CIELAB for CIE 2 degree observer																								
Elementary hue circle with 4 intended elementary hue angles: h _{ab} = 25.6, 92.4, 162.1, 271.5 of CIELAB, and 90 intended hue angles:																								
0.901, ..., 179, CIELAB data of CIE test colours 9 (R): 40.0 58.9 28.3, 10 (Y): 81.3 -3.0 71.8, 11 (G): 52.2 -42.3 13.6, 12 (B): 30.5 1.2 -46.3																								
no.	ab	Y	x	y	a	b	c	ab	A	B	C	ab	h _{AB}	L*	a*	b*	C*	ab	h _{AB}	rgb*	ab	Code	ab	
990	80.7	0.483	0.509	0.938	-0.005	0.43	-0.1	34.7	34.7	90.3	92.0	-0.3	143.4	143.4	90.1	1.00	0.96	0.00	0.00	0.96	0.00	R95Y	0.00	
991	81.9	0.479	0.512	0.935	-0.005	0.43	-1.2	35.2	35.2	92.0	92.5	-2.5	143.0	143.0	91.0	1.00	0.97	0.00	0.00	0.97	0.00	R97Y	0.00	
992	83.5	0.474	0.516	0.919	-0.006	0.43	-2.6	35.8	35.9	94.1	93.2	-5.2	142.2	142.3	92.1	1.00	0.99	0.00	0.00	0.99	0.00	R99Y	0.00	
993	84.8	0.47	0.519	0.906	-0.007	0.43	-3.7	36.3	36.5	95.8	93.8	-7.4	140.8	141.0	93.0	0.99	1.00	0.00	0.00	1.00	0.00	R90G	0.00	
994	86.0	0.466	0.522	0.893	-0.008	0.43	-4.8	36.7	37.0	97.5	94.3	-9.6	138.9	139.2	93.9	0.97	1.00	0.00	0.00	1.00	0.00	R92G	0.00	
995	87.3	0.462	0.524	0.881	-0.009	0.431	-6.0	37.1	37.6	99.2	94.8	-11.9	136.8	137.3	94.9	0.96	1.00	0.00	0.00	1.00	0.00	R93G	0.00	
996	88.6	0.457	0.526	0.868	-0.011	0.432	-7.2	37.5	38.2	100.9	95.9	-14.1	134.5	135.3	96.0	0.94	1.00	0.00	0.00	1.00	0.00	R95G	0.00	
997	89.8	0.453	0.528	0.857	-0.013	0.432	-8.3	37.9	38.8	102.6	95.9	-16.3	132.3	133.3	97.0	0.93	1.00	0.00	0.00	1.00	0.00	R96G	0.00	
998	91.1	0.448	0.530	0.846	-0.015	0.432	-9.5	38.2	39.4	104.0	96.4	-18.5	130.4	131.4	98.0	0.91	1.00	0.00	0.00	1.00	0.00	R97G	0.00	
999	92.0	0.444	0.53	0.836	-0.018	0.432	-10.4	38.8	39.7	105.2	96.8	-20.2	128.6	129.0	99.0	0.9	1.00	0.00	0.00	1.00	0.00	R99G	0.00	
100	93.8	0.445	0.526	0.846	-0.021	0.426	-9.8	38.8	40.0	104.1	97.5	-18.6	126.3	125.0	98.5	0.89	1.00	0.00	0.00	1.00	0.00	Y10G	0.00	
101	93.8	0.435	0.529	0.822	-0.026	0.429	-12.0	38.4	40.2	107.3	97.5	-23.0	119.1	121.3	100.9	0.87	1.00	0.00	0.00	1.00	0.00	Y12G	0.00	
102	93.4	0.432	0.532	0.813	-0.026	0.431	-12.8	38.2	40.2	108.5	97.3	-24.7	118.5	121.0	101.8	0.86	1.00	0.00	0.00	1.00	0.00	Y13G	0.00	
103	92.9	0.429	0.534	0.804	-0.027	0.434	-13.6	37.9	40.3	109.7	97.2	-26.4	117.9	120.8	102.6	0.84	1.00	0.00	0.00	1.00	0.00	Y15G	0.00	
104	92.5	0.426	0.536	0.794	-0.027	0.436	-14.4	37.9	40.4	110.8	97.0	-28.2	117.3	120.6	103.5	0.83	1.00	0.00	0.00	1.00	0.00	Y16G	0.00	
105	92.0	0.423	0.539	0.785	-0.027	0.44	-15.2	37.5	40.5	112.0	96.8	-30.0	116.7	120.5	104.4	0.81	1.00	0.00	0.00	1.00	0.00	Y18G	0.00	
106	91.5	0.419	0.541	0.775	-0.028	0.443	-16.0	37.2	40.6	113.2	96.6	-31.8	115.9	120.4	105.3	0.8	1.00	0.00	0.00	1.00	0.00	Y19G	0.00	
107	91.0	0.416	0.544	0.765	-0.028	0.447	-16.8	37.0	40.7	114.4	96.4	-33.8	115.4	120.3	106.5	0.79	1.00	0.00	0.00	1.00	0.00	Y20G	0.00	
108	90.5	0.412	0.547	0.754	-0.029	0.451	-17.7	36.8	40.8	115.7	96.2	-35.7	114.8	120.2	107.3	0.77	1.00	0.00	0.00	1.00	0.00	Y22G	0.00	
109	90.0	0.409	0.549	0.744	-0.029	0.455	-18.5	36.5	40.9	116.9	96.0	-37.7	114.2	120.2	108.3	0.76	1.00	0.00	0.00	1.00	0.00	Y23G	0.00	
110	89.5	0.405	0.552	0.733	-0.03	0.459	-19.4	36.2	41.1	118.1	95.8	-39.8	113.5	120.3	109.3	0.74	1.00	0.00	0.00	1.00	0.00	Y25G	0.00	
111	88.9	0.401	0.555	0.722	-0.03	0.464	-20.2	36.0	41.3	119.3	95.5	-41.9	112.8	120.4	110.3	0.73	1.00	0.00	0.00	1.00	0.00	Y26G	0.00	
112	88.4	0.397	0.558	0.712	-0.031	0.469	-21.0	35.7	41.5	120.5	95.3	-44.0	112.0	120.5	111.4	0.71	1.00	0.00	0.00	1.00	0.00	Y28G	0.00	
113	87.8	0.393	0.561	0.701	-0.032	0.474	-21.9	35.4	41.6	121.6	95.1	-46.1	111.5	120.5	112.4	0.7	1.00	0.00	0.00	1.00	0.00	Y29G	0.00	
114	87.2	0.389	0.564	0.69	-0.032	0.479	-22.7	35.2	41.8	122.8	94.8	-48.3	111.0	120.8	113.5	0.69	1.00	0.00	0.00	1.00	0.00	Y30G	0.00	
115	86.7	0.385	0.567	0.679	-0.032	0.485	-23.5	34.9	42.1	123.9	94.6	-50.5	110.1	121.1	114.6	0.67	1.00	0.00	0.00	1.00	0.00	Y32G	0.00	
116	86.1	0.381	0.57	0.668	-0.033	0.491	-24.3	34.6	42.3	125.0	94.3	-52.7	109.3	121.4	115.7	0.66	1.00	0.00	0.00	1.00	0.00	Y33G	0.00	
117	85.5	0.377	0.573	0.657	-0.034	0.497	-25.0	34.3	42.5	126.1	94.1	-54.9	108.6	121.7	116.8	0.64	1.00	0.00	0.00	1.00	0.00	Y35G	0.00	
118	84.9	0.372	0.577	0.646	-0.034	0.503	-25.8	34.0	42.7	127.1	93.8	-57.1	107.9	122.1	117.8	0.63	1.00	0.00	0.00	1.00	0.00	Y36G	0.00	
119	84.3	0.368	0.58	0.635	-0.035	0.509	-26.5	33.7	42.9	128.2	93.6	-59.3	107.2	122.5	118.9	0.61	1.00	0.00	0.00	1.00	0.00	Y38G	0.00	
120	83.8	0.364	0.583	0.624	-0.035	0.515	-27.3	33.4	43.2	129.2	93.3	-61.5	106.5	123.0	120.0	0.6	1.00	0.00	0.00	1.00	0.00	Y39G	0.00	
121	83.2	0.359	0.586	0.613	-0.036	0.522	-28.0	33.2	43.4	130.3	93.1	-63.8	105.7	123.5	121.0	0.59	1.00	0.00	0.00	1.00	0.00	Y40G	0.00	
122	82.6	0.355	0.589	0.603	-0.037	0.528	-28.7	32.9	43.6	131.4	92.9	-66.0	105.0	124.0	122.1	0.57	1.00	0.00	0.00	1.00	0.00	Y42G	0.00	
123	82.0	0.351	0.592	0.592	-0.037	0.535	-29.3	32.6	43.9	131.9	92.8	-68.2	104.3	124.6	123.1	0.56	1.00	0.00	0.00	1.00	0.00	Y43G	0.00	
124	81.4	0.346	0.595	0.582	-0.038	0.541	-30.0	32.3	44.1	132.8	92.3	-70.3	103.5	125.2	124.1	0.54	1.00	0.00	0.00	1.00	0.00	Y45G	0.00	
125	80.8	0.342	0.598	0.572	-0.039	0.548	-30.6	32.0	44.3	133.6	92.0	-72.5	102.8	125.8	125.0	0.53	1.00	0.00	0.00	1.00	0.00	Y46G	0.00	
126	80.3	0.338	0.601	0.561	-0.039	0.554	-31.2	31.7	44.5	134.4	91.8	-74.6	102.1	126.5	126.1	0.51	1.00	0.00	0.00	1.00	0.00	Y48G	0.00	
127	79.7	0.333	0.604	0.552	-0.04	0.561	-31.7	31.5	44.7	135.2	91.5	-76.7	101.3	127.1	127.1	0.5	1.00	0.00	0.00	1.00	0.00	Y49G	0.00	
128	79.2	0.329	0.607	0.542	-0.041	0.567	-32.3	31.2	44.9	135.9	91.3	-78.8	100.6	127.8	128.0	0.48	1.00	0.00	0.00	1.00	0.00	Y51G	0.00	
129	78.6	0.325	0.61	0.532	-0.042	0.574	-32.8	30.9	45.1	136.7	91.0	-81.0	99.8	128.6	128.0	0.47	1.00	0.00	0.00	1.00	0.00	Y52G	0.00	
130	78.1	0.321	0.614	0.519	-0.043	0.583	-33.5	30.6	45.3	137.5	90.7	-83.9	98.5	129.4	130.4	0.46	1.00	0.00	0.00	1.00	0.00	Y53G	0.00	
131	76.9	0.312	0.617	0.506	-0.045	0.591	-34.1	30.0	45.4	138.6	90.2	-86.7	97.2	139.2	137.7	0.44	1.00	0.00	0.00	1.00	0.00	Y55G	0.00	
132	76.1	0.307	0.62	0.494	-0.046	0.599	-34.6	29.6	45.6	139.5	89.9	-89.2	95.9	131.0	132.9	0.43	1.00	0.00	0.00	1.00	0.00	Y56G	0.00	
133	75.3	0.301	0.623	0.483	-0.048	0.606	-35.1	29.2	45.7	140.2	89.5	-91.6	94.7	131.8	134.0	0.41	1.00	0.00	0.00	1.00	0.00	Y58G	0.00	
134	74.6	0.296	0.625	0.473	-0.049	0.613	-35.5	28.8	45.7	141.0	89.2	-93.9	93.4	132.5	135.1	0.4	1.00	0.00	0.00	1.00	0.00	Y59G	0.00	
135	73.9	0.291	0.627	0.464	-0.051	0.619	-35.9	28.4	45.8	141.8	88.9	-96.0	92.2	133.1	136.1	0.38	1.00	0.00	0.00	1.00	0.00	Y61G	0.00	
136	73.3	0.286	0.629	0.455	-0.052	0.625	-36.2	28.0	45.8	142.2	88.5	-98.0	91.0	133.7	137.1	0.37	1.00	0.00	0.00	1.00	0.00	Y62G	0.00	
137	72.6	0.282	0.631	0.447	-0.054	0.631	-36.5	27.6	45.8	142.8	88.2	-100.9	90.0	134.3	138.0	0.36	1.00	0.00	0.00	1.00	0.00	Y63G	0.00	
138	72.0	0.278	0.632	0.439	-0.056	0.636	-36.8	27.3	45.8	143.4	87.9	-103.6	88.6	13										

rgb _{cab} and CIE data of a elementary hci color according to CIE R1-47 for Ostwald colours for CIE illuminant D65																					
Yxy, cab _{AB} , ABC _{AB} , LabC _{ab} h _{ab} data for relative spacing of elementary hue h _{ab} of CIELAB for CIE 2 degree observer																					
Elementary hue circle with 4 centered elementary hue angles: h _{ab} = 25.6, 92.4, 162.1, 271.5 of CIELAB, and 90 intended hue angles:																					
180, 181, ..., 269, CIELAB data of CIE test colours 9 (R): 40.0 58.9 28.3, 10 (Y): 81.3 -3.0 71.8, 11 (G): 52.2 -42.3 13.6, 12 (B): 30.5 1.2 -46.3																					
no.	ab	Y	x	y	a	b	c	ab	A	B	C	ab	h _{ab}	L*	a*	b*	C _{ab}	h _{ab}	rgb _{cab}	Code	
180	59.2	0.168	0.394	0.416	-0.423	0.534	-31.6	0.7	31.6	178.6	81.4	-100.9	1.5	100.9			179.0	0.00	1.00	0.32	G168
181	59.1	0.168	0.397	0.422	-0.436	0.528	-31.2	0.8	31.2	180.0	81.3	-99.4	0.0	99.4			180.0	0.00	1.00	0.34	G178
182	59.1	0.167	0.391	0.427	-0.449	0.522	-30.9	-0.8	30.9	181.5	81.3	-98.0	-1.7	98.0			181.0	0.00	1.00	0.36	G188
183	59.1	0.167	0.386	0.433	-0.462	0.517	-30.5	-1.6	30.5	183.0	81.3	-96.5	-3.4	96.6			182.0	0.00	1.00	0.38	G198
184	59.0	0.167	0.38	0.439	-0.476	0.512	-30.1	-2.4	30.2	184.5	81.3	-95.0	-5.0	95.2			183.0	0.00	1.00	0.39	G198
185	59.0	0.166	0.374	0.445	-0.489	0.507	-29.8	-3.2	29.9	186.1	81.3	-93.6	-6.7	93.8			184.0	0.00	1.00	0.41	G208
186	59.0	0.166	0.368	0.451	-0.503	0.503	-29.4	-4.0	29.7	187.7	81.3	-92.1	-8.3	92.5			185.1	0.00	1.00	0.43	G218
187	58.9	0.166	0.363	0.457	-0.517	0.495	-29.0	-4.8	29.4	189.3	81.2	-90.6	-9.9	91.2			186.2	0.00	1.00	0.45	G228
188	58.9	0.166	0.358	0.463	-0.531	0.496	-28.7	-5.6	29.2	191.0	81.1	-89.2	-11.5	89.9			187.3	0.00	1.00	0.47	G238
189	58.9	0.165	0.352	0.469	-0.545	0.493	-28.3	-6.4	29.0	192.8	81.2	-87.7	-13.0	88.7			188.4	0.00	1.00	0.49	G248
190	58.9	0.165	0.347	0.475	-0.559	0.49	-27.9	-7.3	28.8	194.6	81.2	-86.3	-14.5	87.5			189.5	0.00	1.00	0.5	G258
191	58.8	0.165	0.343	0.481	-0.573	0.488	-27.5	-8.1	28.7	196.3	81.2	-84.9	-16.0	86.4			190.7	0.00	1.00	0.52	G268
192	58.8	0.165	0.338	0.487	-0.587	0.487	-27.2	-8.9	28.6	198.1	81.2	-83.5	-17.5	85.3			191.8	0.00	1.00	0.54	G278
193	58.8	0.164	0.333	0.493	-0.6	0.485	-26.8	-9.7	28.5	199.8	81.1	-82.2	-18.9	84.3			192.9	0.00	1.00	0.56	G288
194	58.7	0.164	0.328	0.5	-0.616	0.485	-26.4	-10.6	28.4	201.8	81.1	-80.6	-20.5	83.2			194.2	0.00	1.00	0.58	G298
195	58.6	0.164	0.323	0.507	-0.631	0.484	-26.0	-11.5	28.4	203.8	81.1	-79.0	-22.1	82.0			195.6	0.00	1.00	0.6	G308
196	58.6	0.164	0.318	0.513	-0.646	0.483	-25.6	-12.4	28.4	205.8	81.0	-77.4	-23.6	80.8			196.9	0.00	1.00	0.61	G308
197	58.5	0.163	0.315	0.52	-0.66	0.485	-25.2	-13.1	28.4	207.6	81.0	-76.1	-24.9	80.1			198.1	0.00	1.00	0.63	G318
198	58.5	0.163	0.311	0.525	-0.673	0.486	-24.8	-13.9	28.4	209.2	81.0	-74.8	-26.1	79.2			199.2	0.00	1.00	0.65	G328
199	58.4	0.163	0.308	0.531	-0.685	0.488	-24.4	-14.6	28.5	210.8	80.9	-73.6	-27.3	78.5			200.3	0.00	1.00	0.67	G338
200	58.3	0.163	0.304	0.536	-0.697	0.489	-24.1	-15.2	28.5	212.3	80.9	-72.4	-28.3	77.8			201.3	0.00	1.00	0.69	G348
201	58.3	0.163	0.302	0.541	-0.707	0.491	-23.8	-15.8	28.6	213.6	80.9	-71.4	-29.3	77.1			202.3	0.00	1.00	0.71	G358
202	58.3	0.163	0.299	0.546	-0.716	0.492	-23.5	-16.3	28.7	214.8	80.9	-70.4	-30.1	76.6			203.1	0.00	1.00	0.72	G368
203	58.2	0.163	0.297	0.551	-0.725	0.493	-23.2	-16.8	28.7	216.0	80.8	-69.5	-30.9	76.1			204.0	0.00	1.00	0.74	G378
204	58.2	0.163	0.295	0.554	-0.732	0.495	-23.0	-17.2	28.8	216.8	80.8	-68.7	-31.6	75.6			204.6	0.00	1.00	0.76	G388
205	58.2	0.163	0.293	0.557	-0.738	0.496	-22.8	-17.6	28.9	217.6	80.8	-68.0	-32.1	75.2			205.3	0.00	1.00	0.78	G398
206	58.6	0.164	0.292	0.563	-0.741	0.493	-22.6	-17.9	28.9	218.3	81.1	-66.9	-32.5	74.3			205.9	0.00	1.00	0.8	G408
207	57.5	0.162	0.289	0.562	-0.756	0.503	-22.3	-18.4	28.9	219.6	80.4	-66.6	-33.6	74.6			206.7	0.00	1.00	0.82	G418
208	56.2	0.16	0.286	0.561	-0.773	0.515	-22.1	-19.0	28.9	221.0	79.7	-66.3	-34.8	74.9			207.7	0.00	1.00	0.83	G418
209	54.9	0.158	0.282	0.56	-0.792	0.528	-21.4	-19.6	29.0	222.5	78.9	-66.0	-36.2	75.3			208.7	0.00	1.00	0.85	G428
210	53.5	0.155	0.278	0.559	-0.813	0.543	-20.9	-20.2	29.0	224.0	78.1	-65.6	-37.6	75.6			209.7	0.00	1.00	0.87	G438
211	52.0	0.153	0.274	0.558	-0.835	0.55	-20.4	-20.8	29.1	225.6	77.3	-65.2	-39.0	76.0			210.8	0.00	1.00	0.89	G448
212	50.7	0.15	0.269	0.557	-0.858	0.569	-19.9	-21.4	29.2	227.1	76.4	-64.8	-40.4	76.4			211.9	0.00	1.00	0.91	G458
213	49.3	0.148	0.265	0.557	-0.881	0.594	-19.4	-22.0	29.3	228.5	75.6	-64.4	-41.8	76.8			213.0	0.00	1.00	0.92	G468
214	48.2	0.146	0.262	0.558	-0.902	0.609	-18.9	-22.5	29.4	229.9	74.9	-63.7	-43.0	76.9			214.0	0.00	1.00	0.94	G478
215	47.2	0.144	0.258	0.559	-0.921	0.623	-18.4	-22.9	29.4	231.2	74.3	-63.0	-44.2	76.9			215.0	0.00	1.00	0.96	G488
216	46.2	0.143	0.255	0.561	-0.94	0.637	-17.9	-23.3	29.4	232.3	73.7	-62.1	-45.2	76.9			216.0	0.00	1.00	0.98	G498
217	45.4	0.142	0.252	0.564	-0.958	0.65	-17.5	-23.7	29.5	233.5	73.1	-61.3	-46.2	76.7			216.9	0.00	0.99	1.00	G508
218	44.5	0.141	0.249	0.566	-0.976	0.662	-17.0	-24.0	29.5	234.6	72.6	-60.4	-47.1	76.6			217.9	0.00	0.97	1.00	G518
219	43.7	0.14	0.246	0.569	-0.993	0.675	-16.6	-24.4	29.5	235.6	72.0	-59.5	-48.0	76.5			218.8	0.00	0.96	1.00	G528
220	42.9	0.139	0.243	0.572	-1.012	0.689	-16.2	-24.7	29.6	236.6	71.4	-58.6	-48.9	76.4			219.8	0.00	0.94	1.00	G528
221	42.1	0.138	0.24	0.575	-1.031	0.703	-15.8	-25.1	29.6	237.6	71.0	-57.7	-49.9	76.3			220.8	0.00	0.92	1.00	G538
222	41.3	0.137	0.237	0.578	-1.05	0.718	-15.3	-25.4	29.7	238.8	70.4	-56.7	-50.8	76.2			221.8	0.00	0.9	1.00	G548
223	40.6	0.136	0.234	0.582	-1.07	0.734	-14.9	-25.8	29.8	239.9	69.9	-55.7	-51.7	76.0			222.9	0.00	0.88	1.00	G558
224	39.8	0.135	0.231	0.586	-1.091	0.75	-14.4	-26.1	29.8	240.9	69.3	-54.6	-52.7	75.9			223.9	0.00	0.86	1.00	G568
225	39.3	0.135	0.229	0.589	-1.105	0.761	-14.2	-26.3	29.9	241.6	68.8	-53.9	-53.3	75.8			224.6	0.00	0.85	1.00	G578
226	38.7	0.134	0.227	0.591	-1.12	0.773	-13.9	-26.5	30.0	242.3	68.6	-53.2	-54.0	75.8			225.4	0.00	0.83	1.00	G588
227	38.0	0.134	0.225	0.59	-1.136	0.786	-13.5	-26.8	30.0	243.3	68.2	-52.4	-54.5	75.7			226.2	0.00	0.81	1.00	G598
228	37.6	0.133	0.222	0.599	-1.154	0.8	-13.2	-27.0	30.1	243.9	67.7	-51.4	-55.4	75.6			227.1	0.00	0.79	1.00	G608
229	37.0	0.133	0.22	0.603	-1.174	0.816	-12.8	-27.3	30.2	244.8	67.2	-50.3	-56.2	75.5			228.0	0.00	0.77	1.00	G618
230	36.3	0.132	0.217	0.609	-1.197	0.834	-12.3	-27.6	30.2	245.8	66.7	-49.0	-57.1	75.3			229.3	0.00	0.75	1.00	G628
231	35.5	0.131	0.213	0.616	-1.222	0.855	-11.8	-27.9	30.3	247.0	66.1	-47.5	-58.1	75.1			230.7	0.00	0.74	1.00	G638
232	34.9	0.131	0.211	0.622	-1.244	0.873	-11.4	-28.2	30.4	247.9	65.6	-46.3	-59.0	75.0			231.8	0.00	0.72	1.00	G638
233	34.4	0.131	0.209	0.626	-1.259	0.885	-11.1	-28.4	30.5	248.5	65.3	-45.4	-59.5	74.9			232.6	0.00	0.7	1.00	G648
234	34.0	0.13	0.207	0.631	-1.275	0.898	-10.8	-28.6	30.6	249.1	65.0	-44.5	-60.1	74.8			233.4	0.00	0.68	1.00	G658
235	33.6	0.13	0.205	0.635	-1.291	0.91															

rgb* _{cab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																			
Yxy, cab _{AB} , ABC _{AB} , LabC* _{ab} h _{ab} data for relative spacing of elementary hue h _{ab} of CIELAB for CIE 2 degree observer																			
Elementary hue circle with 4 intended elementary hue angles: h _{ab} = 25.6, 92.4, 162.1, 271.5 of CIELAB, and 90 intended hue angles:																			
270, 271, ..., 360, CIELAB data of CIE test colours 9 (R): 40.0 58.9 28.3, 10 (Y): 81.3 -3.0 71.8, 11 (G): 52.2 -42.3 13.6, 12 (B): 30.5 1.2 -46.3																			
no.	ab	Y	x	y	a	b	c	ab	A	B	C _{ab}	h _{ab}	L*	a*	b*	C* _{ab}	h _{ab}	rgb*	Code _{ab}
276	19	2	0.127	0.132	0.961	-2.238	1.893	0.2	-34.7	34.7	270.3	51.0	1.1	-83.8	83.8	270.7	0.00	0.02	1.00 % G98B
271	18	x	0.127	0.13	0.974	-2.272	1.837	0.4	-34.8	34.8	270.7	50.6	2.4	-84.4	84.4	271.6	0.00	0.0	1.00 % G98B
272	18	6	0.127	0.128	0.987	-2.307	1.871	0.6	-34.9	34.9	271.1	50.3	3.7	-84.4	85.0	272.4	0.0	0.00	1.00 % B00R
273	18	4	0.127	0.127	1.0	-2.341	1.906	0.9	-35.0	35.1	271.5	49.9	4.9	-85.5	85.6	273.3	0.02	0.00	1.00 % B01R
274	18	1	0.127	0.125	1.014	-2.375	1.94	1.1	-35.1	35.2	271.8	49.6	6.1	-86.6	86.2	274.1	0.04	0.00	1.00 % B02R
275	17	8	0.127	0.123	1.03	-2.419	1.985	1.4	-35.3	35.3	272.3	49.2	7.7	-86.7	87.1	275.0	0.06	0.00	1.00 % B03R
276	17	4	0.127	0.121	1.05	-2.471	2.038	1.7	-35.4	35.5	272.8	48.7	9.5	-87.5	88.0	276.1	0.07	0.00	1.00 % B05R
277	0	0.127	0.119	0.107	1.08	-2.521	2.089	2.0	-35.6	35.6	273.3	48.3	11.1	-88.2	88.9	277.2	0.09	0.00	1.00 % B08R
278	16	17	0.127	0.107	1.089	-2.579	2.139	2.3	-35.7	35.8	273.7	47.9	12.8	-89.8	89.8	278.1	0.11	0.00	1.00 % B10R
279	16	4	0.128	0.115	1.088	-2.618	2.188	2.6	-35.8	35.9	274.1	47.5	14.4	-89.6	90.7	279.1	0.13	0.00	1.00 % B06R
280	16	1	0.128	0.113	1.128	-2.667	2.238	2.8	-35.9	36.1	274.5	47.1	16.0	-90.3	91.7	280.0	0.14	0.00	1.00 % B07R
281	15	8	0.128	0.111	1.149	-2.717	2.29	3.1	-36.1	36.2	274.9	46.7	17.6	-90.9	92.6	280.9	0.16	0.00	1.00 % B08R
282	15	5	0.128	0.109	1.171	-2.769	2.344	3.4	-36.2	36.3	275.4	46.3	19.3	-91.6	93.6	281.9	0.18	0.00	1.00 % B09R
283	15	1	0.129	0.107	1.195	-2.826	2.403	3.7	-36.3	36.5	275.8	45.8	21.2	-92.3	94.7	282.9	0.2	0.00	1.00 % B10R
284	14	8	0.129	0.105	1.222	-2.888	2.468	4.0	-36.4	36.6	276.3	45.4	23.1	-93.0	95.9	283.9	0.21	0.00	1.00 % B18R
285	14	4	0.129	0.103	1.252	-2.96	2.542	4.3	-36.5	36.8	276.8	44.9	25.3	-93.9	97.2	285.0	0.23	0.00	1.00 % B11R
286	0	0.129	0.098	0.081	1.281	-3.038	2.618	4.6	-36.6	37.0	277.3	44.5	27.2	-94.8	98.7	286.1	0.25	0.00	1.00 % B12R
287	13	7	0.13	0.098	1.322	-3.121	2.712	5.0	-36.8	37.1	277.8	43.8	29.9	-95.7	100.2	287.3	0.27	0.00	1.00 % B13R
288	13	3	0.13	0.096	1.36	-3.21	2.804	5.4	-36.9	37.3	278.3	43.2	32.4	-96.6	101.9	288.5	0.28	0.00	1.00 % B14R
289	12	9	0.131	0.093	1.4	-3.303	2.902	5.8	-37.0	37.5	278.9	42.6	34.8	-97.5	103.6	289.6	0.3	0.00	1.00 % B15R
290	12	5	0.131	0.091	1.442	-3.401	3.005	6.1	-37.2	37.7	279.4	42.0	37.3	-98.5	105.3	290.7	0.32	0.00	1.00 % B16R
291	12	1	0.132	0.088	1.486	-3.503	3.114	6.5	-37.3	37.8	279.9	41.4	39.8	-99.4	107.1	291.8	0.34	0.00	1.00 % B17R
292	11	7	0.132	0.086	1.532	-3.609	3.226	6.8	-37.4	38.0	280.3	40.8	42.3	-100.4	108.9	292.8	0.35	0.00	1.00 % B18R
293	11	3	0.133	0.084	1.58	-3.719	3.344	7.2	-37.5	38.2	280.8	40.3	44.8	-101.6	110.8	293.8	0.37	0.00	1.00 % B19R
294	11	0	0.133	0.081	1.629	-3.833	3.465	7.5	-37.6	38.3	281.3	39.8	47.2	-102.7	112.6	294.8	0.39	0.00	1.00 % B19R
295	10	7	0.133	0.079	1.68	-3.95	3.589	7.8	-37.7	38.5	281.7	39.1	49.7	-103.1	114.5	295.7	0.41	0.00	1.00 % B20R
296	10	4	0.134	0.077	1.732	-4.069	3.716	8.1	-37.8	38.7	282.1	38.5	52.1	-104.0	116.4	296.6	0.42	0.00	1.00 % B21R
297	10	1	0.134	0.075	1.785	-4.19	3.846	8.4	-37.9	38.8	282.5	38.0	54.4	-104.9	118.2	297.4	0.44	0.00	1.00 % B22R
298	9	8	0.135	0.073	1.839	-4.312	3.977	8.7	-38.0	39.0	282.9	37.4	56.7	-105.8	120.0	298.2	0.46	0.00	1.00 % B23R
299	9	4	0.135	0.071	1.906	-4.465	4.141	9.0	-38.1	39.1	283.3	36.8	59.4	-106.8	122.2	299.1	0.48	0.00	1.00 % B24R
300	8	9	0.136	0.067	2.013	-4.707	4.401	9.5	-38.2	39.3	283.8	35.8	63.6	-108.3	125.6	300.4	0.49	0.00	1.00 % B24R
301	8	5	0.136	0.064	2.07	-4.925	4.637	9.8	-38.3	39.5	284.5	35.0	67.1	-109.5	128.4	301.4	0.51	0.00	1.00 % B25R
302	8	1	0.137	0.062	2.202	-5.123	4.852	10.2	-38.3	39.6	284.9	34.4	70.1	-110.6	131.6	302.3	0.53	0.00	1.00 % B26R
303	7	8	0.138	0.06	2.287	-5.31	5.055	10.5	-38.3	39.8	285.3	33.7	72.9	-111.5	133.2	303.1	0.55	0.00	1.00 % B27R
304	7	2	0.136	0.056	2.409	-5.715	5.477	10.6	-38.5	39.9	285.4	32.4	75.9	-113.5	136.5	303.7	0.56	0.00	1.00 % B28R
305	6	4	0.131	0.05	2.589	-6.422	6.297	10.5	-38.7	40.1	285.3	30.5	79.6	-116.5	141.1	304.3	0.58	0.00	1.00 % B29R
306	6	0	0.131	0.047	2.758	-6.887	6.7	10.8	-38.7	40.2	285.6	29.4	83.4	-118.2	144.7	305.2	0.6	0.00	1.00 % B30R
307	6	0	0.138	0.048	2.878	-6.779	6.629	11.7	-38.5	40.2	286.9	29.5	87.7	-117.6	146.7	306.7	0.62	0.00	1.00 % B31R
308	6	4	0.146	0.05	2.886	-6.338	6.212	12.5	-38.2	40.2	288.1	30.5	90.0	-115.7	146.6	307.8	0.63	0.00	1.00 % B31R
309	6	8	0.153	0.053	2.876	-5.951	5.844	13.2	-38.0	40.2	289.2	31.5	91.3	-114.0	146.1	308.7	0.65	0.00	1.00 % B32R
310	6	16	0.156	0.052	2.856	-5.572	5.479	14.0	-37.7	40.3	290.3	32.5	92.5	-112.2	145.1	309.6	0.67	0.00	1.00 % B33R
311	7	8	0.168	0.059	2.836	-5.207	5.13	14.8	-37.5	40.3	291.5	33.7	94.1	-110.2	145.0	310.5	0.69	0.00	1.00 % B34R
312	8	4	0.176	0.062	2.815	-4.857	4.799	15.7	-37.2	40.4	292.8	34.8	95.6	-108.2	144.3	311.4	0.7	0.00	1.00 % B35R
313	9	0	0.184	0.066	2.794	-4.527	4.487	16.6	-36.9	40.5	294.2	36.0	97.0	-106.0	143.7	312.4	0.72	0.00	1.00 % B36R
314	9	6	0.193	0.069	2.771	-4.215	4.196	17.6	-36.6	40.6	295.7	37.2	98.4	-103.8	143.1	313.4	0.74	0.00	1.00 % B37R
315	10	3	0.202	0.073	2.748	-3.925	3.925	18.6	-36.2	40.7	297.2	38.5	99.8	-101.6	142.4	314.4	0.76	0.00	1.00 % B38R
316	11	1	0.211	0.077	2.724	-3.654	3.675	19.7	-35.8	40.9	298.8	39.8	101.1	-99.3	141.8	315.5	0.77	0.00	1.00 % B38R
317	11	9	0.221	0.081	2.7	-3.405	3.446	20.9	-35.4	41.2	300.5	41.1	102.5	-96.0	141.1	316.6	0.78	0.00	1.00 % B39R
318	12	8	0.23	0.086	2.676	-3.174	3.237	22.1	-35.0	41.4	302.2	42.4	103.8	-94.6	140.5	317.6	0.81	0.00	1.00 % B40R
319	13	7	0.239	0.09	2.652	-2.963	3.047	23.3	-34.6	41.7	303.9	43.8	105.1	-92.2	139.9	318.7	0.83	0.00	1.00 % B41R
320	14	6	0.249	0.094	2.628	-2.769	2.874	24.5	-34.1	42.1	305.7	45.1	106.4	-89.8	139.3	319.8	0.84	0.00	1.00 % B42R
321	15	6	0.258	0.099	2.605	-2.592	2.718	25.8	-33.7	42.4	307.5	46.4	107.6	-87.5	138.7	320.8	0.86	0.00	1.00 % B43R
322	16	6	0.267	0.103	2.582	-2.431	2.578	27.1	-33.2	42.9	309.2	47.8	108.7	-85.1	138.1	321.9	0.88	0.00	1.00 % B44R
323	17	6	0.276	0.107	2.56	-2.284	2.511	28.4	-32.7	43.3	311.0	49.1	109.8	-82.8	137.5	322.9	0.9	0.00	1.00 % B45R
324	18	7	0.284	0.112	2.538	-2.151	2.337	29.8	-32.2	43.8	312.7	50.4	110.9	-80.4	137.0	324.0	0.91	0.00	1.00 % B45R
325	19	8	0.292	0.116	2.516	-2.03	2.235	31.1	-31.6	44.4	314.4	51.6	111.8	-78.2	136.5	325.0	0.93	0.00	1.00 % B46R
326	20	3	0.3	0.12	2.496	-1.922	2.143	32.4	-31.1	44.9	316.1	52.9	112.7	-76.0	136	326.0	0.95	0.00	1.00 % B47R
327	23	0	0.313	0.															

Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, Y _{w,10} =100, Y _m =520_770, CIELAB data														%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code		%	
0 405	31 556	79.94	−66.31	−34.08	74.56	0.1807	−0.1034	207.2	15 476	37 585	Cm		%	
6 435	31 557	80.42	−82.6	−17.8	84.5	0.1724	−0.0949	192.1	16 480	44 621			%	
10 450	31 559	80.48	−108.29	14.97	109.32	0.1591	−0.078	172.1	18 491	−1 491c			%	
11 460	32 562	81.44	−111.37	27.39	114.69	0.1581	−0.0717	166.1	19 498	−1 498c			%	
12 465	33 565	82.34	−112.77	40.26	119.75	0.1579	−0.0653	160.3	21 506	−1 506c			%	
14 470	34 570	83.48	−109.79	65.41	127.8	0.1601	−0.053	149.2	24 522	−1 522c			%	
15 475	35 579	86.33	−94.64	81.3	124.77	0.169	−0.0462	139.3	26 533	−1 533c	Gm		%	
16 480	41 606	92.55	−53.33	102.14	115.22	0.1907	−0.0389	117.5	30 550	−1 550c			%	
16 485	−1 484c	96.94	−20.21	109.71	111.55	0.2063	−0.0374	100.4	32 560	10 454			%	
18 490	−1 490c	95.61	−14.83	124.45	125.34	0.2086	−0.0302	96.7	32 562	11 459	max		%	
19 495	−1 495c	94.76	−11.22	130.34	130.82	0.2101	−0.0271	94.9	32 563	12 461			%	
19 500	−1 499c	94.76	−11.22	130.34	130.82	0.2101	−0.0271	94.9	32 563	12 461			%	
22 510	−1 510c	91.28	2.92	142.55	142.58	0.2166	−0.0195	88.8	33 567	13 466			%	
23 520	−1 519c	89.77	8.54	144.07	144.32	0.2192	−0.0174	86.6	33 568	13 468	Ym		%	
26 530	−1 530c	84.06	27.32	142.33	144.93	0.2288	−0.0115	79.1	34 573	14 472			%	
27 540	−1 539c	81.79	33.86	139.63	143.68	0.2325	−0.0095	76.3	35 576	14 473			%	
28 545	−1 544c	79.35	40.37	136.19	142.05	0.2363	−0.0075	73.4	35 578	14 474			%	
29 550	−1 549c	76.75	46.79	132.12	140.16	0.2404	−0.0054	70.4	36 580	15 475			%	
31 555	−1 555c	71.13	58.79	122.64	136.0	0.2489	0.0	64.3	37 586	15 476			%	
32 560	10 451	69.5	84.42	−15.9	85.9	0.2645	−0.095	349.3	−1 492c	18 492			%	
380	770	100.0	0.0	0.0	0.0	0.2152	−0.0857	0.0					%	
Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, Y _{w,10} =100, Y _m =770_520, CIELAB complementary														%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code		%	
31 556	0 405	71.84	57.81	111.35	125.47	0.2481	−0.0221	62.5	37 585	15 476	Rm		%	
31 557	6 435	71.27	68.77	29.56	74.85	0.2546	−0.0689	23.2	44 621	16 480			%	
31 559	10 450	71.19	81.9	−15.15	83.29	0.2621	−0.0944	349.5	−1 491c	18 491			%	
32 562	11 460	69.98	86.63	−25.22	90.23	0.2655	−0.1003	343.7	−1 498c	19 498			%	
33 565	12 465	68.81	90.56	−33.85	96.68	0.2685	−0.1056	339.5	−1 506c	21 506			%	
34 570	14 470	67.22	93.6	−46.01	104.3	0.2714	−0.1132	333.8	−1 522c	24 522			%	
35 579	15 475	62.81	97.27	−56.68	112.58	0.2768	−0.1215	329.7	−1 533c	26 533	Mm		%	
41 606	16 480	49.57	94.8	−81.7	125.15	0.2874	−0.1477	319.2	−1 550c	30 550			%	
−1 484c	16 485	33.36	73.3	−109.63	131.88	0.2894	−0.1962	303.7	10 454	32 560			%	
−1 490c	18 490	39.48	47.93	−101.69	112.42	0.2584	−0.1769	295.2	11 459	32 562	min		%	
−1 495c	19 495	42.69	34.2	−96.93	102.79	0.2443	−0.1679	289.4	12 461	32 563			%	
−1 499c	19 500	42.69	34.2	−96.93	102.79	0.2443	−0.1679	289.4	12 461	32 563			%	
−1 510c	22 510	52.84	−7.33	−80.67	81.0	0.2099	−0.144	264.8	13 466	33 567			%	
−1 519c	23 520	56.28	−19.89	−74.95	77.55	0.2014	−0.1373	255.1	13 468	33 568	Bm		%	
−1 530c	26 530	66.39	−49.47	−57.84	76.11	0.1852	−0.1206	229.4	14 472	34 573			%	
−1 539c	27 540	69.54	−55.96	−52.46	76.71	0.1825	−0.1162	223.1	14 473	35 576			%	
−1 544c	28 545	72.53	−60.74	−47.32	77.0	0.1809	−0.1123	217.9	14 474	35 578			%	
−1 549c	29 550	75.38	−63.87	−42.44	76.68	0.1803	−0.1088	213.6	15 475	36 580			%	
−1 555c	31 555	80.53	−65.58	−33.56	73.67	0.1813	−0.103	207.1	15 476	37 586			%	
10 451	32 560	81.82	−103.91	14.76	104.95	0.1621	−0.0782	171.9	18 492	−1 492c			%	
380	770	100.0	0.0	0.0	0.0	0.2152	−0.0857	0.0					%	

rgb _{cab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																			
Yxy, abc _{AB} , ABC _{AB} , LabC _{ab} , h _{AB} data for relative spacing of elementary hue h _{AB} of CIELAB for CIE 10 degree observer																			
Elementary hue circle with 4 intended elementary hues 9 angles: h _{ab} = 25.9, 87.3, 158.8, 252.1 of CIELAB, and 90 intended hue angles:																			
000, 001, ..., 089, CIELAB data of CIE test colours 9 (R): 39.2 54.5 26.4, 10 (Y): 79.5 3.2 71.0, 11 (G): 52.3 -39.6 15.3, 12 (B): 33.6 -12.8 -39.9																			
no. _{AB} , h _{AB}	x ₁₀	y ₁₀	a ₁₀	b ₁₀	C _{AB} , 10	A ₁₀	B ₁₀	C _{AB} , 10	h _{AB} , 10	L [*] ₁₀	a [*] ₁₀	b [*] ₁₀	C [*] _{ab} , 10	h _{ab} , 10	rgb [*] _{cab} , 10	Code _{ab} , 10			
000	40.0	0.447	0.257	1.737	-0.458	0.789	31.5	-0.1	31.6	357.8	69.4	82.4	-3.2	82.4	357.7	1.00 0.00 0.48	B75R		
001	40.0	0.45	0.259	1.734	-0.445	0.786	31.4	-0.6	31.4	358.8	69.4	82.2	-1.8	82.2	358.7	1.00 0.00 0.46	B76R		
002	40.0	0.454	0.262	1.731	-0.432	0.783	31.3	-0.1	31.3	359.7	69.5	81.9	-0.3	81.9	359.7	1.00 0.00 0.44	B77R		
003	40.0	0.457	0.264	1.728	-0.419	0.78	31.2	0.3	31.2	0.7	69.5	81.7	-0.1	81.7	0.7	1.00 0.00 0.42	B78R		
004	40.0	0.461	0.267	1.725	-0.406	0.778	31.1	0.9	31.1	1.6	69.5	81.4	2.6	81.4	1.8	1.00 0.00 0.4	B79R		
005	40.0	0.464	0.269	1.722	-0.393	0.775	31.0	1.4	31.0	2.6	69.5	81.1	4.2	81.3	2.9	1.00 0.00 0.38	B80R		
006	40.0	0.468	0.272	1.719	-0.38	0.773	30.9	1.9	30.9	3.6	69.5	80.8	5.7	81.1	4.0	1.00 0.00 0.36	B81R		
007	40.0	0.472	0.275	1.716	-0.367	0.77	30.7	2.4	30.8	4.5	69.5	80.6	7.4	80.9	5.2	1.00 0.00 0.35	B82R		
008	40.0	0.475	0.277	1.713	-0.354	0.768	30.6	2.9	30.8	5.5	69.5	80.3	9.0	80.8	6.4	1.00 0.00 0.33	B83R		
009	40.1	0.479	0.28	1.709	-0.342	0.766	30.5	3.5	30.7	6.5	69.5	80.0	10.7	80.7	7.6	1.00 0.00 0.31	B84R		
010	40.1	0.483	0.283	1.706	-0.329	0.764	30.4	4.0	30.6	7.5	69.5	79.7	12.4	80.7	8.8	1.00 0.00 0.29	B85R		
011	40.1	0.487	0.286	1.702	-0.316	0.762	30.2	4.5	30.6	8.4	69.5	79.4	14.2	80.7	10.1	1.00 0.00 0.27	B86R		
012	40.1	0.491	0.289	1.699	-0.304	0.761	30.1	5.0	30.5	9.4	69.5	79.1	15.9	80.7	11.4	1.00 0.00 0.25	B87R		
013	40.1	0.494	0.291	1.695	-0.292	0.759	30.0	5.5	30.5	10.4	69.5	78.8	17.7	80.8	12.7	1.00 0.00 0.23	B88R		
014	40.1	0.498	0.294	1.691	-0.279	0.758	29.8	6.0	30.4	11.3	69.6	78.5	19.6	80.9	14.0	1.00 0.00 0.22	B88R		
015	40.2	0.502	0.297	1.687	-0.268	0.757	29.7	6.4	30.4	12.2	69.6	78.2	21.4	81.1	15.3	1.00 0.00 0.2	B89R		
016	40.2	0.506	0.299	1.683	-0.256	0.756	29.6	6.9	30.4	13.2	69.6	77.8	23.3	81.3	16.6	1.00 0.00 0.18	B90R		
017	40.2	0.51	0.303	1.68	-0.244	0.754	29.4	7.4	30.3	14.1	69.6	77.5	25.2	81.5	18.0	1.00 0.00 0.16	B91R		
018	40.2	0.514	0.306	1.676	-0.233	0.753	29.3	7.8	30.3	15.0	69.6	77.2	27.1	81.8	19.3	1.00 0.00 0.14	B92R		
019	40.2	0.517	0.309	1.672	-0.222	0.752	29.1	8.3	30.3	15.9	69.6	76.8	29.0	82.1	20.6	1.00 0.00 0.12	B93R		
020	40.3	0.521	0.312	1.667	-0.211	0.752	29.0	8.7	30.3	16.8	69.6	76.5	30.9	82.5	22.0	1.00 0.00 0.1	B94R		
021	40.3	0.525	0.315	1.663	-0.201	0.751	28.8	9.1	30.2	17.6	69.7	76.1	32.9	82.9	23.4	1.00 0.00 0.09	B95R		
022	40.3	0.528	0.318	1.659	-0.191	0.75	28.7	9.6	30.2	18.5	69.7	75.8	34.9	83.4	24.7	1.00 0.00 0.07	B96R		
023	40.3	0.532	0.321	1.655	-0.181	0.749	28.6	10.0	30.2	19.3	69.7	75.5	36.9	84.0	26.0	1.00 0.00 0.06	B97R		
024	40.4	0.536	0.324	1.651	-0.171	0.748	28.4	10.4	30.2	20.1	69.7	75.0	38.9	84.4	27.4	1.00 0.00 0.05	B98R		
025	40.4	0.539	0.327	1.646	-0.162	0.748	28.2	10.8	30.2	20.9	69.7	74.7	41.0	85.2	28.7	1.00 0.00 0.01	B99R		
026	40.4	0.542	0.33	1.642	-0.152	0.747	28.1	11.1	30.2	21.7	69.8	74.3	43.0	85.9	30.0	1.00 0.00 0.00	R00Y		
027	40.5	0.546	0.333	1.638	-0.144	0.746	27.9	11.5	30.2	22.4	69.8	73.9	45.1	86.6	31.3	1.00 0.01 0.00	R01Y		
028	40.5	0.549	0.336	1.633	-0.135	0.745	27.7	11.9	30.2	23.1	69.8	73.5	47.1	87.4	32.6	1.00 0.03 0.00	R03Y		
029	40.5	0.552	0.339	1.629	-0.127	0.745	27.6	12.2	30.2	23.8	69.8	73.2	49.2	88.2	33.9	1.00 0.05 0.00	R05Y		
030	40.5	0.555	0.342	1.624	-0.119	0.744	27.4	12.5	30.2	24.5	69.8	72.8	51.3	89.1	35.1	1.00 0.06 0.00	R06Y		
031	40.6	0.558	0.344	1.62	-0.112	0.743	27.3	12.8	30.2	25.2	69.9	72.4	53.4	90.0	36.4	1.00 0.08 0.00	R08Y		
032	40.6	0.561	0.347	1.615	-0.104	0.742	27.1	13.1	30.1	25.9	69.9	72.0	55.5	90.9	37.7	1.00 0.11 0.00	R09Y		
033	40.7	0.564	0.35	1.611	-0.097	0.741	26.9	13.4	30.1	26.5	69.9	71.6	57.6	91.9	38.8	1.00 0.11 0.00	R11Y		
034	40.7	0.566	0.352	1.606	-0.091	0.74	26.8	13.7	30.1	27.1	69.9	71.2	59.8	93.0	40.0	1.00 0.13 0.00	R13Y		
035	40.7	0.569	0.355	1.602	-0.084	0.739	26.6	14.0	30.1	27.7	70.0	70.8	61.9	94.1	41.1	1.00 0.14 0.00	R14Y		
036	40.8	0.571	0.357	1.597	-0.078	0.738	26.5	14.3	30.1	28.3	70.0	70.4	64.0	95.2	42.2	1.00 0.16 0.00	R16Y		
037	40.8	0.573	0.36	1.592	-0.072	0.736	26.3	14.5	30.0	28.9	70.0	70.0	66.2	96.3	43.3	1.00 0.18 0.00	R18Y		
038	40.9	0.576	0.362	1.588	-0.067	0.735	26.1	14.8	30.0	29.4	70.1	69.6	68.3	97.5	44.4	1.00 0.19 0.00	R19Y		
039	40.9	0.578	0.365	1.583	-0.062	0.733	26.0	15.0	30.0	30.0	70.1	69.2	70.5	98.6	45.5	1.00 0.21 0.00	R21Y		
040	41.0	0.58	0.367	1.578	-0.057	0.732	25.8	15.2	30.0	30.6	70.1	68.8	72.6	99.6	46.6	1.00 0.22 0.00	R23Y		
041	41.0	0.581	0.369	1.574	-0.052	0.73	25.6	15.4	29.9	31.0	70.1	68.4	74.8	101.3	47.5	1.00 0.24 0.00	R24Y		
042	41.0	0.583	0.371	1.569	-0.048	0.728	25.5	15.6	29.9	31.5	70.2	67.9	76.9	102.6	48.5	1.00 0.26 0.00	R26Y		
043	41.1	0.584	0.373	1.564	-0.044	0.727	25.3	15.8	29.9	31.9	70.2	67.5	79.0	104.0	49.4	1.00 0.27 0.00	R27Y		
044	41.1	0.586	0.375	1.56	-0.04	0.725	25.1	16.0	29.8	32.4	70.2	67.1	81.2	105.3	50.4	1.00 0.29 0.00	R29Y		
045	41.2	0.587	0.377	1.555	-0.036	0.723	25.0	16.1	29.8	32.8	70.3	66.7	83.3	106.7	51.3	1.00 0.31 0.00	R31Y		
046	41.2	0.588	0.379	1.55	-0.033	0.721	24.8	16.3	29.7	33.3	70.3	66.3	85.4	108.2	52.1	1.00 0.32 0.00	R32Y		
047	41.3	0.589	0.381	1.546	-0.03	0.72	24.7	16.5	29.7	33.7	70.4	65.9	87.6	109.6	53.0	1.00 0.34 0.00	R34Y		
048	41.3	0.59	0.383	1.541	-0.027	0.718	24.5	16.6	29.6	34.1	70.4	65.5	89.7	111.0	53.8	1.00 0.35 0.00	R35Y		
049	41.4	0.591	0.384	1.536	-0.024	0.714	24.3	16.7	29.5	34.5	70.4	65.0	91.8	112.5	54.6	1.00 0.37 0.00	R37Y		
050	41.4	0.592	0.386	1.532	-0.021	0.712	24.2	16.9	29.5	34.9	70.5	64.6	93.9	114.0	55.4	1.00 0.39 0.00	R39Y		
051	41.5	0.592	0.388	1.527	-0.019	0.709	24.0	17.0	29.4	35.2	70.5	64.2	96.0	115.5	56.2	1.00 0.4	0.00	R40Y	
052	41.5	0.593	0.389	1.522	-0.017	0.707	23.8	17.1	29.4	35.6	70.5	63.8	98.1	117.0	56.9	1.00 0.42 0.00	R42Y		
053	41.6	0.593	0.391	1.518	-0.015	0.704	23.7	17.2	29.3	35.9	70.6	63.4	100.1	118.5	57.6	1.00 0.44 0.00	R44Y		
054	41.7	0.594	0.392	1.513	-0.013	0.701	23.5	17.3	29.2	36.3	70.6	63.0	102.2	120.0	58.3	1.00 0.45 0.00	R45Y		
055	41.7	0.594	0.393	1.508	-0.011	0.699	23.4	17.4	29.1	36.6	70.7	62.6	104.2	121.6	59.0	1.00 0.47 0.00	R47Y		
056	41.8	0.594	0.395	1.504	-0.01	0.696	23.2	17.5	29.1	36.9	70.7	62.1	106.3	123.1	59.6	1.00 0.48 0.00	R48Y		
057	41.8	0.594	0.396	1.499	-0.009	0.693	23.1	17.6	29.0	37.3	70.7	61.7	108.3	124.7	60.3	1.00 0.5	0.00	R50Y	
058	41.9	0.594	0.397	1.495	-0.007	0.69	22.9	17.6	28.9	37.6	70.8	61.3	110.3	126.2	60.9	1.00 0.52 0.00	R52Y		
059	42.0	0.594	0.398	1.49	-0.006	0.687	22.7	17.7	28.9	37.9	70.8	60.9	112.2	127.7	61.5	1.00 0.53 0.00	R53Y		
060	42.0	0.594	0.4	1.486	-0.005	0.685	22.6	17.8	28.8	38.2	70.9	60.5	114.2	129.3	62.0	1.00 0.55 0.00	R55Y		
06																			

$rgb^*_{c,ab}$ and CIE data of a elementary hue circle according to CIE R1-47 for *Ostwald* colours for CIE illuminant D65

Yxy, abc_{AB}, ABC_{AB}, LabC^{}_{ab}h_{ab}* data for relative spacing of elementary hue *h_{ab}* of CIELAB for CIE 10 degree observer

Elementary hue circle with 4 intended elementary hue angles: $h_{ab} = 25.9, 87.3, 158.8, 252.1$ of *CIELAB*, and 90 intended hue angles:

270, 271, ..., 360, CIELAB data of CIE test colours 9 (R): 39.2 54.5 26.4, 10 (Y): 79.5 3.2 71.0, 11 (G): 52.3 -39.6 15.3, 12 (B): 33.6 -12.8 -39.9

	a ₁₀	x ₁₀	y ₁₀	a ₁₀	b ₁₀	CAB ₁₀	A ₁₀	B ₁₀	CAB ₁₀	L*	I*	g*	b ₁₉	C*	a ₁₀ h ₂₁₀	rgb*	e _{ab10}	Code	
276	40.8	481	0.285	1.686	-0.326	7.445	30.1	4.1	30.4	7.9	70.8	78.4	12.9	79.5	9.3	0.26	0.00	1.00	B13R
277	40.8	48	0.284	1.687	-0.329	7.445	30.1	4.0	30.4	7.6	70.8	78.5	12.4	79.5	9.0	0.28	0.00	1.00	B14R
278	40.7	479	0.283	1.688	-0.333	7.474	30.2	3.9	30.4	7.4	70.8	78.6	12.0	79.5	8.6	0.29	0.00	1.00	B14R
279	40.7	478	0.283	1.689	-0.336	7.477	30.2	3.7	30.4	7.1	70.8	78.7	11.5	79.5	8.3	0.31	0.00	1.00	B15R
280	40.7	477	0.282	1.69	-0.339	7.477	30.2	3.6	30.4	6.8	70.8	78.8	11.1	79.6	8.0	0.32	0.00	1.00	B16R
281	40.7	476	0.281	1.693	-0.342	7.493	30.3	3.5	30.4	6.6	70.8	78.9	10.6	79.7	7.7	0.34	0.00	1.00	B17R
282	40.7	475	0.279	1.695	-0.346	7.499	30.3	3.4	30.5	6.3	70.8	79.0	10.2	79.7	7.3	0.35	0.00	1.00	B18R
283	40.7	474	0.28	1.693	-0.349	7.5	30.2	3.2	30.5	6.1	69.9	79.1	9.8	79.7	7.0	0.37	0.00	1.00	B18R
284	40.7	473	0.279	1.695	-0.352	7.5	30.4	3.1	30.5	5.8	69.9	79.1	9.3	79.7	6.7	0.38	0.00	1.00	B19R
285	40.7	472	0.278	1.696	-0.356	7.51	30.4	2.9	30.6	5.5	69.9	79.2	8.9	79.7	6.4	0.4	0.00	1.00	B20R
286	40.6	471	0.278	1.697	-0.359	7.52	30.4	2.8	30.6	5.3	69.9	79.3	8.5	79.8	6.1	0.41	0.00	1.00	B20R
287	40.6	471	0.277	1.698	-0.362	7.53	30.5	2.7	30.6	5.0	69.9	79.4	8.0	79.8	5.8	0.43	0.00	1.00	B21R
288	40.6	47	0.276	1.699	-0.366	7.53	30.5	2.5	30.6	4.8	69.9	79.5	7.6	79.9	5.4	0.44	0.00	1.00	B22R
289	40.6	469	0.275	1.7	-0.369	7.54	30.5	2.4	30.6	4.5	69.9	79.6	7.2	79.9	5.1	0.46	0.00	1.00	B23R
290	40.6	468	0.274	1.701	-0.372	7.54	30.5	2.2	30.6	4.2	69.9	79.7	6.7	79.9	4.7	0.47	0.00	1.00	B24R
291	40.6	467	0.274	1.702	-0.376	7.55	30.6	2.1	30.7	4.0	69.9	79.8	6.3	80.0	4.5	0.49	0.00	1.00	B24R
292	40.6	466	0.273	1.703	-0.379	7.57	30.7	2.0	30.7	3.7	69.9	79.8	5.9	80.1	4.2	0.5	0.00	1.00	B25R
293	40.6	465	0.273	1.704	-0.382	7.58	30.7	1.8	30.7	3.5	69.9	79.9	5.5	80.1	3.9	0.52	0.00	1.00	B26R
294	40.6	464	0.272	1.705	-0.386	7.58	30.7	1.7	30.8	3.2	69.9	80.0	5.1	80.2	3.6	0.53	0.00	1.00	B26R
295	40.6	463	0.271	1.706	-0.389	7.59	30.8	1.6	30.8	2.9	69.9	80.1	4.7	80.2	3.3	0.55	0.00	1.00	B27R
296	40.5	462	0.27	1.707	-0.393	7.6	30.8	1.4	30.8	2.7	69.8	80.2	4.2	80.3	3.0	0.56	0.00	1.00	B28R
297	40.5	461	0.27	1.708	-0.396	7.61	30.8	1.3	30.9	2.4	69.8	80.3	3.8	80.4	2.7	0.58	0.00	1.00	B29R
298	40.5	46	0.269	1.709	-0.399	7.61	30.8	1.2	30.9	2.2	69.8	80.4	3.4	80.4	2.4	0.6	0.00	1.00	B30R
299	40.5	46	0.268	1.71	-0.403	7.63	30.9	1.0	30.9	1.9	69.8	80.4	3.0	80.5	2.1	0.61	0.00	1.00	B30R
300	40.5	459	0.268	1.712	-0.406	7.64	30.9	0.9	30.9	1.7	69.8	80.5	2.6	80.6	1.8	0.62	0.00	1.00	B31R
301	40.5	458	0.267	1.713	-0.41	7.65	31.0	0.7	31.0	1.4	69.8	80.6	2.2	80.6	1.5	0.64	0.00	1.00	B32R
302	40.5	457	0.266	1.714	-0.413	7.66	31.0	0.6	31.0	1.1	69.8	80.7	1.8	80.7	1.3	0.65	0.00	1.00	B32R
303	40.5	456	0.266	1.715	-0.416	7.67	31.0	0.5	31.0	0.9	69.8	80.8	1.4	80.8	1.0	0.67	0.00	1.00	B33R
304	40.5	455	0.265	1.716	-0.42	7.68	31.1	0.3	31.1	0.6	69.8	80.9	1.0	80.9	0.7	0.68	0.00	1.00	B34R
305	40.5	454	0.264	1.717	-0.423	7.69	31.1	0.2	31.1	0.4	69.8	80.9	0.6	80.9	0.4	0.7	0.00	1.00	B35R
306	40.4	453	0.263	1.718	-0.427	7.7	31.1	0.0	31.1	0.2	69.8	81.0	0.2	81.0	0.1	0.71	0.00	1.00	B36R
307	40.4	452	0.263	1.719	-0.43	7.71	31.2	-0.1	31.2	359.9	69.8	81.1	-0.1	81.1	359.9	0.73	0.00	1.00	B36R
308	40.4	452	0.262	1.72	-0.432	7.72	31.2	-0.1	31.2	359.6	69.8	81.2	-0.1	81.2	359.6	0.74	0.00	1.00	B37R
309	40.4	451	0.262	1.721	-0.437	7.73	31.2	-0.3	31.2	359.4	69.7	81.3	-0.8	81.3	359.3	0.76	0.00	1.00	B38R
310	40.4	45	0.261	1.722	-0.44	7.74	31.3	-0.4	31.3	359.1	69.7	81.3	-1.2	81.3	359.0	0.77	0.00	1.00	B38R
311	40.4	449	0.26	1.723	-0.443	7.75	31.3	-0.5	31.3	358.9	69.7	81.4	-1.6	81.4	358.8	0.79	0.00	1.00	B39R
312	40.4	448	0.26	1.723	-0.447	7.76	31.3	-0.7	31.3	358.6	69.7	81.5	-2.0	81.5	358.5	0.8	0.00	1.00	B40R
313	40.4	447	0.259	1.724	-0.45	7.77	31.4	-0.8	31.4	358.4	69.7	81.6	-2.4	81.6	358.3	0.82	0.00	1.00	B41R
314	40.4	425	0.258	1.725	-0.454	7.78	31.4	-1.0	31.4	358.1	69.7	81.6	-2.7	81.6	358.0	0.83	0.00	1.00	B41R
315	40.4	446	0.258	1.726	-0.455	7.79	31.4	-1.1	31.4	357.9	69.7	81.7	-3.1	81.7	357.7	0.85	0.00	1.00	B42R
316	40.3	445	0.257	1.727	-0.46	7.78	31.4	-1.2	31.5	357.6	69.7	81.8	-3.5	81.9	357.5	0.86	0.00	1.00	B43R
317	40.3	444	0.257	1.728	-0.464	7.81	31.5	-1.4	31.5	357.4	69.7	81.9	-3.8	82.0	357.2	0.88	0.00	1.00	B44R
318	40.3	443	0.256	1.729	-0.467	7.82	31.5	-1.5	31.5	357.2	69.7	82.0	-4.2	82.1	357.0	0.89	0.00	1.00	B44R
319	40.3	442	0.255	1.73	-0.47	7.83	31.5	-1.6	31.6	356.9	69.7	82.0	-4.6	82.2	356.7	0.91	0.00	1.00	B45R
320	40.3	442	0.255	1.731	-0.474	7.84	31.6	-1.8	31.6	356.7	69.7	82.1	-5.0	82.3	356.5	0.92	0.00	1.00	B46R
321	40.3	441	0.254	1.732	-0.477	7.85	31.6	-1.9	31.7	356.4	69.7	82.2	-5.3	82.3	356.2	0.94	0.00	1.00	B47R
322	40.3	44	0.254	1.733	-0.48	7.87	31.7	-2.0	31.7	356.2	69.7	82.2	-5.6	82.4	356.0	0.95	0.00	1.00	B47R
323	40.3	439	0.254	1.734	-0.482	7.88	31.7	-2.2	31.7	356.0	69.7	82.3	-6.0	82.4	355.8	0.96	0.00	1.00	B48R
324	40.3	438	0.252	1.735	-0.487	7.89	31.7	-2.3	31.8	355.7	69.6	82.4	-6.3	82.6	355.5	0.98	0.00	1.00	B49R
325	40.3	438	0.252	1.736	-0.49	7.79	31.7	-2.4	31.8	355.5	69.6	82.5	-6.7	82.7	355.3	1.00	0.00	1.00	B49R
326	40.2	437	0.251	1.737	-0.494	7.91	31.7	-2.6	31.8	355.3	69.6	82.5	-7.0	82.8	355.0	1.00	0.00	0.98	B50R
327	40.2	436	0.251	1.737	-0.497	7.92	31.8	-2.7	31.9	355.0	69.6	82.6	-7.4	82.9	354.8	1.00	0.00	0.97	B51R
328	40.2	435	0.25	1.738	-0.5	7.93	31.8	-2.8	31.9	354.8	69.6	82.7	-7.7	83.0	354.6	1.00	0.00	0.95	B52R
329	40.2	434	0.25	1.739	-0.503	7.95	31.8	-3.0	32.0	354.6	69.6	82.7	-8.0	83.1	354.4	1.00	0.00	0.94	B52R
330	40.2	434	0.249	1.74	-0.507	7.96	31.9	-3.1	32.0	354.3	69.6	82.8	-8.4	83.2	354.1	1.00	0.00	0.92	B53R
331	40.2	433	0.248	1.741	-0.51	7.97	31.9	-3.2	32.1	354.0	69.6	82.9	-8.7	83.3	353.8	1.00	0.00	0.91	B54R
332	40.2	432	0.248	1.742	-0.513	7.99	31.9	-3.3	32.1	353.9	69.6	82.9	-9.0	83.4	353.7	1.00	0.00	0.89	B55R
333	40.2	431	0.247	1.743	-0.516	7.99	31.9	-3.5	32.1	353.7	69.6	83.0	-9.4	83.5	353.5	1.00	0.00	0.88	B55R
334	40.2	431	0.247	1.743	-0.52	8.01	32.0	-3.6	32.2	353.4	69.6	83.1	-9.7	83.7	353.3	1.00	0.00	0.86	B56R
335	40.2	43	0.246	1.744	-0.523	8.02	32.0	-3.7	32.2	353.2	69.6	83.2	-10.0	83.8	353.1	1.00	0.00	0.85	B57R
336	40.2	429	0.246	1.745	-0.526	8.03	32.0	-3.9	32.3	353.0	69.6	83.2	-10.3	83.9	352.8	1.00	0.00	0.83	B58R
337	40.1	429	0.245	1.746	-0.529	8.04	32.0	-4.0	32.3	352.8	69.6	83.3	-10.6	84.0	352.6	1.00	0.00	0.82	B58R
338	40.1	428	0.245	1.747	-0.532	8.05	32.1	-4.1	32.3	352.6	69.6	83.3	-10.9	84.1	352.4	1.00	0.00	0.8	B59R
339	40.1	428	0.244	1.748	-0.535	8.06	32.1	-4.2	32.4	352.4	69.6	83.4	-11.2	84.2	352.2	1.00	0.00	0.79	B60R
340	40.1	426	0.244	1.748	-0.538	8.08	32.1	-4.3	32.4	352.2	69.5	83.5	-11.6	84.3	352.0	1.00	0.00	0.77	B61R
341	40.1	426	0.243	1.749	-0.541	8.09	32.1	-4.5	32.5	352.0	69.5	83.5	-11.9	84.4	351.8	1.00	0.00	0.76	B61R
342	40.1	425	0.243	1.75	-0.544	8.1	32.2	-4.6	32.5	351.7	69.5	83.6	-12.2	84.5	351.6	1.00	0.00	0.74	B62R

357	40.0	0.437	0.25	1.744	-0.496	0.799	31.8	-2.6	32.0	355.2	69.4	83.0	-7.2	83.4	354.9	1.00	0.00	0.43	% B78R #
358	40.0	0.44	0.253	1.742	-0.483	0.796	31.8	-2.1	31.8	356.0	69.4	82.8	-5.9	83.0	355.8	1.00	0.00	0.41	% B79R #