

Ostwald 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						%	
Ostwald 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} _{AB} , <i>ABC</i> _{AB} , <i>LabC</i> * _{ab} _{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 of <i>LIN</i> YAB, and 90 intended hue angles:																			
00.001, ..., 089, <i>LIN</i> 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																			
<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	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	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	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	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	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	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	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	B87R
008	40.9	0.481	0.287	1.676	-0.348	0.731	29.7	3.5	29.9	6.9	70.1	77.3	10.8	78.0	7.7	1.00	0.00	0.22	B88R
009	40.9	0.477	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	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	R91R
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	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	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	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	B95R
015	41.0	0.497	0.304	1.632	-0.258	0.704	28.0	7.2	28.9	14.5	70.2	73.4	23.6	77.1	17.8	1.00	0.00	0.06	B96R
016	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	77.2	19.4	1.00	0.00	0.03	B98R
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	B99R
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	0.0	0.00	R00Y
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	R01Y
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	R02Y
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	R04Y
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	R05Y
023	41.3	0.532	0.337	1.578	-0.155	0.687	25.9	11.5	28.4	24.0	70.4	68.6	43.1	81.1	32.2	1.00	0.06	0.00	R06Y
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	82.1	34.4	1.00	0.08	0.00	R08Y
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	R09Y
026	41.4	0.546	0.351	1.556	-0.115	0.685	25.1	13.2	28.4	27.8	70.5	66.6	53.1	85.2	38.5	1.00	0.1	0.00	R10Y
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	R12Y
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	R13Y
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	R14Y
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	R16Y
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	R17Y
032	41.6	0.573	0.377	1.52	-0.052	0.686	23.7	15.9	28.6	33.9	70.6	63.2	75.7	98.6	50.1	1.00	0.18	0.00	R18Y
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	R20Y
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	R21Y
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	R22Y
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	R24Y
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	R25Y
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	R26Y
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	R27Y
040	42.4	0.595	0.403	1.475	0.0	0.682	22.2	18.4	28.9	39.6	71.1	59.3	122.2	135.9	64.1	1.00	0.29	0.00	R29Y
041	43.3	0.593	0.406	1.458	0.0	0.669	22.0	18.8	28.9	40.5	71.7	58.0	123.3	136.3	64.8	1.00	0.3	0.00	R30Y
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	R32Y
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	R33Y
044	46.1	0.584	0.415	1.405	0.0	0.63	21.0	20.0	29.0	43.6	73.6	53.8	126.4	137.4	66.9	1.00	0.34	0.00	R34Y
045	47.1	0.581	0.418	1.388	0.0	0.617	20.6	20.5	29.1	44.7	74.2	52.4	127.3	137.7	67.6	1.00	0.36	0.00	R36Y
046	48.1	0.578	0.421	1.372	0.0	0.606	20.3	20.9	29.1	45.8	74.9	51.0	128.2	138.0	68.2	1.00	0.37	0.00	R37Y
047	49.1	0.575	0.424	1.356	0.0	0.595	19.9	21.3	29.2	46.9	75.5	49.7	129.0	138.3	68.9	1.00	0.38	0.00	R38Y
048	50.0	0.572	0.426	1.342	0.0	0.585	19.6	21.7	29.3	47.9	76.1	48.3	129.8	138.5	69.5	1.00	0.4	0.00	R40Y
049	51.0	0.569	0.429	1.326	0.0	0.575	19.2	22.2	29.3	49.1	76.7	47.0	130.7	138.9	70.2	1.00	0.41	0.00	R41Y
050	51.9	0.567	0.432	1.312	0.0	0.565	18.8	22.6	29.4	50.2	77.2	45.6	131.6	139.3	70.8	1.00	0.42	0.00	R42Y
051	52.9	0.564	0.434	1.299	0.0	0.557	18.4	22.9	29.4	51.2	77.7	44.2	132.5	139.6	71.4	1.00	0.43	0.00	R43Y
052	53.5	0.562	0.436	1.287	0.0	0.55	18.0	23.2	29.4	52.1	78.2	43.2	133.0	139.9	71.9	1.00	0.45	0.00	R45Y
053	54.2	0.56	0.438	1.276	0.0	0.543	17.7	23.6	29.4	53.1	78.6	42.1	133.6	140.1	72.5	1.00	0.46	0.00	R46Y
054	54.9	0.558	0.44	1.265	0.0	0.537	17.3	23.8	29.5	54.0	79.0	41.0	134.2	140.4	73.0	1.00	0.47	0.00	R47Y
055	56.6	0.555	0.443	1.254	0.0	0.53	16.9	24.2	29.5	54.9	79.4	39.9	134.8	140.6	73.5	1.00	0.49	0.00	R49Y
056	56.4	0.553	0.445	1.243	-0.001	0.524	16.5	24.5	29.5	55.9	79.8	38.7	135.5	140.9	74.0	1.00	0.5	0.00	R50Y
057	57.1	0.551	0.447	1.233	-0.001	0.518	16.1	24.8	29.6	56.9	80.2	37.6	136.1	141.2	74.5	1.00	0.51		

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 L ¹ YAB for CIE 2 degree observer																										
Elementary hue circle with 4 extended elementary hue angles (R): h _{AB} = 17.7, 93.3, 159.1, 270.8 of L ¹ YAB, and 90 intended hue angles:																										
090, 091, ..., 179, L ¹ 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}	abc _{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	93.0	-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	86.4	0.465	0.522	0.889	-0.009	0.43	-5.2	36.8	37.2	98.0	94.8	-10.3	139.3	139.4	94.2	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	38.7	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	131.3	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	129.1	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	0.839	-0.02	0.429	-10.3	38.6	40.0	106.0	96.9	-19.7	124.2	125.9	99.0	0.8	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	40.1	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	91.5	0.421	0.54	0.779	-0.028	0.441	-15.6	37.2	40.3	112.7	96.6	-30.9	115.9	120.0	104.9	0.7	1.00	0.00	0.00	1.00	Y30G					
114	91.0	0.418	0.542	0.771	-0.028	0.444	-16.2	37.0	40.4	113.7	96.4	-32.5	115.4	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	120.1	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	119.8	112.1	0.57	1.00	0.00	0.00	1.00	Y42G					
122	86.9	0.391	0.562	0.695	-0.032	0.477	-22.1	35.0	41.4	122.3	94.7	-47.2	110.2	119.9	113.1	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	34.7	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	82.4	0.357	0.587	0.609	-0.037	0.525	-28.2	32.8	43.2	130.7	92.8	-64.8	104.7	123.1	121.7	0.44	1.00	0.00	0.00	1.00	Y55G					
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					
140	74.6	0.294	0.627	0.469	-0.049	0.616	-35.8	28.7	45.9	141.2	89.2	-94.9	93.4	133.1	135.4	0.29	1.00	0.00	0.00	1.00	Y70G					
141	73.5	0.287	0.63	0.455	-0.052	0.626	-36.4	28.2	46.0	142.2	88.7	-98.1	91.5	134.2	136.9	0.27	1.00	0.00	0.00	1.00	Y72G					
142	72.6	0.28	0.632	0.443																						

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} h _{ab} data for relative spacing of elementary hue h _{AB} of L ¹ Y ¹ AB 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 Y ¹ AB, and 90 intended hue angles:																						
180, 181, ..., 269, L ¹ Y ¹ AB data of CIE test colours 9 (R): 11.2 9.9 3.1, 10 (Y): 59.0 25.0 12.2 0.9, 11 (G): 20.3 -7.2 7.2 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	181.1	179.7	1.00	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	180.1	179.7	1.00	1.00	0.39	G198			
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	180.4	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	-2.8	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	-3.0	30.2	186.8	81.3	-93.2	-7.4	93.7	184.5	0.00	1.00	0.51	G268			
189	59.0	0.166	0.368	0.45	-0.505	0.504	-29.4	-3.1	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	-3.6	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	58.8	0.165	0.348	0.474	-0.558	0.491	-28.0	-7.2	28.8	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	0.48	-0.567	0.488	-27.7	-7.7	28.8	195.6	81.2	-85.5	-15.5	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	204.0	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	-23.3	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	208.9	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	213.9	80.9	-71.0	-29.5	76.9	202.5	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	0.99	1.00	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	0.98	1.00	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	0.96	1.00	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	0.94	1.00	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	0.92	1.00	G538			
220	57.5	0.162	0.289	0.562	-0.756	0.503	-22.3	-18.4	28.9	219.4	80.9	-66.6	-33.3	74.6	206.7	0.00	0.91	1.00	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	0.89	1.00	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	0.87	1.00	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	0.85	1.00	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	0.83	1.00	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	0.82	1.00	G598			
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	0.8	1.00	G598			
227	50.7	0.15	0.27	0.557	-0.855	0.563	-20.0	-21.3	29.2	226.9	76.6	-64.9	-40.2	76.4	211.8	0.00	0.78	1.00	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	0.76	1.00	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	0.74	1.00	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	0.73	1.00	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	0.71	1.00	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	0.69	1.00	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	0.67	1.00	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	0.65	1.00	G678			
235	44.3	0.141	0.248	0.567	-0.981	0.66																

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} b _{hAB} data for relative spacing of elementary hue a _{hAB} of L ₁ Y ₁ AB 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 Y ₁ AB, and 90 intended hue angles:																			
270, 271, ..., 360, L ₁ Y ₁ AB 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}	Code _{AB}	
276	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	0.00	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	0.00	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	0.00	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	0.00	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	0.00	1.00	% B04R	
277	14.3	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	0.00	1.00	% B05R	
278	13.5	0.13	0.097	1.336	-3.157	2.749	5.2	-36.8 37.2	278.0	43.5	30.9	-96.0	100.9	287.8	0.13	0.00	1.00	% B06R	
279	12.7	0.131	0.092	1.419	-3.349	2.951	5.9	-37.1 37.6	279.1	42.3	36.9	-99.7	104.3	290.1	0.15	0.00	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	0.00	1.00	% B08R	
281	11.1	0.133	0.082	1.616	-3.899	3.44	7.4	-37.6 38.3	281.2	39.8	46.7	-102.0	112.2	294.6	0.19	0.00	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	0.00	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	0.00	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	0.00	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	-112.1	132.3	305.8	0.26	0.00	1.00	% B13R	
286	7.2	0.138	0.052	2.482	-5.692	5.398	10.3	-38.6 40.0	286.0	32.5	78.7	-115.6	138.8	308.5	0.28	0.00	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	-119.6	146.5	305.3	0.3	0.00	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	-116.1	146.6	307.6	0.32	0.00	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	0.00	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	0.00	1.00	% B17R	
291	7.6	0.163	0.057	2.826	-5.395	5.362	14.2	-37.6 40.3	290.9	33.1	92.7	-111.2	144.8	309.8	0.37	0.00	1.00	% B18R	
292	8.0	0.169	0.06	2.807	-5.099	5.02	14.9	-37.4 40.3	291.7	34.0	93.7	-109.6	144.2	311.3	0.39	0.00	1.00	% B19R	
293	8.4	0.175	0.063	2.788	-4.826	4.64	15.6	-37.2 40.3	292.7	34.9	94.7	-108.0	143.7	312.2	0.41	0.00	1.00	% B20R	
294	8.9	0.182	0.065	2.77	-4.572	4.52	16.2	-37.0 40.4	293.3	35.9	95.8	-106.4	143.1	311.9	0.43	0.00	1.00	% B21R	
295	9.4	0.188	0.068	2.753	-4.338	4.298	16.9	-36.7 40.5	294.7	36.8	96.7	-104.8	142.6	312.7	0.45	0.00	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	0.00	1.00	% B23R	
297	10.4	0.201	0.073	2.72	-3.919	3.907	18.4	-36.3 40.7	296.9	38.6	98.7	-101.6	141.4	314.1	0.48	0.00	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	0.00	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	0.00	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	0.00	1.00	% B27R	
301	12.5	0.225	0.084	2.661	-3.251	3.294	21.4	-35.2 41.2	301.2	42.0	102.4	-95.4	140.0	316.9	0.56	0.00	1.00	% B28R	
302	13.0	0.231	0.087	2.647	-3.113	3.17	22.1	-35.0 41.4	302.3	42.8	103.2	-94.0	139.6	317.5	0.58	0.00	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	-92.9	139.3	318.3	0.6	0.00	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	0.00	1.00	% B31R	
305	14.7	0.248	0.095	2.61	-2.754	2.851	24.4	-34.1 42.0	305.5	45.3	105.7	-89.7	138.6	319.6	0.63	0.00	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	0.00	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	0.00	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	0.00	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	0.00	1.00	% B35R	
310	17.5	0.274	0.107	2.554	-2.298	2.454	28.1	-32.8 43.2	310.7	49.0	109.3	-83.0	137.2	322.7	0.73	0.00	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	0.00	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	0.00	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	0.00	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	0.00	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	0.00	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	0.00	1.00	% B42R	
317	21.3	0.296	0.123	2.484	-1.861	2.173	33.0	-30.7 45.2	317.0	53.5	113.0	-74.7	135.5	326.6	0.86	0.00	1.00	% B43R	
318	21.8	0.313	0.128	2.436	-1.786	1.974	34.3	-30.0 45.6	318.8	55.1	113.9	-71.8	135.0	327.5	0.88	0.00	1.00	% B44R	
319	24.2	0.319	0.133	2.399	-1.646	1.888	35.1	-29.4 45.5	320.1	56.3	112.7	-69.5	132.5	328.3	0.9	0.00	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	0.00	1.00	% B46R	
321	26.4	0.328	0.141	2.328	-1.504	1.744	36.4	-28.0 46.2	321.2	58.4	111.6	-65.6	129.5	329.5	0.93	0.00	1.00	% B46R	
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	0.00	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	0.00	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	0.00	1.00	% 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	0.00	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	-57.5.9</							

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					%	
1-001000-L0										VE400-7X				

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.	AB	X ₁₀	Y ₁₀	A ₁₀	q ₁₀	b ₁₀	c _{AB} ₁₀	A ₁₀	B ₁₀	C _{AB} ₁₀	h _{YAB} ₁₀	L* ₁₀	a*	b*	b ¹⁰	C* _{AB}	h _{AB}	rgb ^a	AB ₁₀	Code	AB ₁₀			
000	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				
001	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				
002	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				
003	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				
004	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				
005	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				
006	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				
007	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				
008	48.2	0.454	0.269	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				
009	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				
010	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				
011	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				
012	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				
013	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				
014	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				
015	48.4	0.477	0.291	1.639	-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				
016	48.5	0.481	0.294	1.632	-0.303	0.695	27.7	5.0	28.7	10.4	69.8	73.5	16.1	75.2	12.3	1.00	0.00	0.04	%	B97R				
017	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				
018	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				
019	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	%	B01Y				
020	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	%	B02Y				
021	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	%	B04Y				
022	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	%	B05Y				
023	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	%	B06Y				
024	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	%	B07Y				
025	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	%	B09Y				
026	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	%	B11Y				
027	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	%	B12Y				
028	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	%	B14Y				
029	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	%	B15Y				
030	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	%	B17Y				
031	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	%	B18Y				
032	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	%	B20Y				
033	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	%	B21Y				
034	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	%	B23Y				
035	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	%	B24Y				
036	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	%	B26Y				
037	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	%	B27Y				
038	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	%	B29Y				
039	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	%	B30Y				
040	49.4	0.597	0.407	1.465	0.007	0.673	21.9	18.3	28.5	40.0	71.1	58.4	124.8	131.9	64.7	1.00	0.31	0.00	%	B31Y				
041	49.5	0.602	0.413	1.458	0.02	0.663	21.2	19.5	28.8	42.2	71.9	56.2	159.2	169.0	70.5	1.00	0.33	0.00	%	B33Y				
042	44.4	0.64	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	%	B34Y				
043	45.3	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	%	B36Y				
044	46.3	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	%	B37Y				
045	47.3	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	%	B39Y				
046	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	%	B40Y				
047	49.2	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	%	B41Y				
048	50.2	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	%	B43Y				
049	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	%	B45Y				
050	52.1	0.566	0.433	1.306	0.0	0.559	18.8	22.3	29.1	50.1	77.3	45.3	133.1	140.6	71.1	1.00	0.46	0.00	%	B46Y				
051	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	%	B48Y				
052	53.8	0.561																						

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>ab</i> _{ab} data for relative spacing of elementary hue <i>h</i> _{AB} of <i>LIN</i> YAB for CIE 10 degree observer																			
Elementary hue circle with 40 divided elementary hues (R): <i>h</i> _{AB} = 18.2, 86.3, 156.2, 260.1 of <i>LIN</i> YAB, and 90 intended hue angles:																			
180, 181, ..., 269, <i>LIN</i> 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																			
<i>no.</i>	<i>AB</i> ₁₀	<i>X</i> ₁₀	<i>Y</i> ₁₀	<i>a</i> ₁₀	<i>b</i> ₁₀	<i>C</i> _{AB} 10	<i>A</i> ₁₀	<i>B</i> ₁₀	<i>C</i> _{AB} 10	<i>h</i> _{AB} 10	<i>L</i> * ₁₀	<i>a</i> * ₁₀	<i>b</i> * ₁₀	<i>C</i> * _{ab} 10	<i>h</i> _{ab} 10	<i>rgb</i> * _{AB} 10	<i>Code</i> _{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	
181	41.8	0.485	0.304	1.595	-0.276	0.664	27.0	6.3	27.7	13.2	70.7	70.6	29.6	73.6	16.0	0.00	1.00	0.47 G23B	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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 G47B	
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 G48B	
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 G49B	
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	1.00	0.99 G49B	
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	1.00	0.98 G50B	
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	1.00	0.96 G51B	
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	1.00	0.94 G52B	
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	1.00	0.92 G53B	
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	1.00	0.9 G54B	
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	1.00	0.88 G55B	
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	1.00	0.86 G56B	
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	1.00	0.84 G57B	
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	1.00	0.83 G58B	
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	1.00	0.81 G59B	
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	1.00	0.79 G60B	
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	1.00	0.77 G61B	
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	1.00	0.75 G62B	
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	1.00	0.73 G63B	
223	41.2	0.461	0.281	1.642	-0.366	0.697	28.6	2.6	28.8	5.2	70.3	74.8	7.7	75.2	5.8	0.00	1.00	0.71 G64B	
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	1.00	0.69 G65B	
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	1.00	0.67 G66B	
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	1.00	0.65 G67B	
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	1.00	0.63 G68B	
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	1.00	0.61 G69B	
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	1.00	0.59 G70B	
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	1.00	0.57 G71B	
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	75.8	4.2	0.00	1.00	0.56 G71B	
232	41.1	0.457	0.276	1.652	-0.384	0.706	29.0	1.8	29.0	3.6	70.3	75.6	5.3	75.8	4.0	0.00	1.00	0.54 G72B	
233	41.1	0.456	0.276	1.653	-0.386	0.707	29.0	1.7	29.1	3.4	70.3	75.7	5.0	75.9	3.8	0.00	1.00	0.52 G73B	
234	41.1	0.456	0.275	1.654	-0.388	0.708	29.0	1.6	29.1	3.2	70.2	75.8	4.8	76.0	3.6	0.00	1.00	0.5 G74B	
235	41.1	0.455	0.275	1.656	-0.39	0.709	29.1	1.5	29.1	3.1	70.2	75.9	4.5	76.1	3.4	0.00	1.00	0.48 G75B	
236	41.1	0.455	0.274	1.657	-0.393	0.71	29.1	1.4	29.2	2.9	70.2	76.0	4.3	76.1	3.2	0.00	1.00	0.46 G76B	
237	41.1	0.454	0.274	1.658	-0.395	0.711	29.2	1.4	29.2	2.7	70.2	76.1	4.0	76.2	3.0	0.00	1.00	0.44 G77B	
238	41.1	0.454	0.273	1.659	-0.397	0.712	29.2	1.3	29.2	2.5	70.2	76.2	3.8	76.3	2.8	0.00	1.00	0.42 G78B	
239	41.1	0.453	0.273	1.66	-0.399	0.713	29.2	1.2	29.3	2.4	70.2	76.3	3.5	76.4	2.6	0.00	1.00	0.4 G79B	
240	41.0	0.453	0.272	1.661	-0.401	0.714	29.3												

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 hue 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 ₁₀	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*	AB ₁₀	Code	AB ₁₀
270	40.7	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	008R
271	40.7	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	009R
272	40.7	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	010R
273	40.7	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	010R
274	40.7	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	011R
275	40.7	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	012R
276	40.6	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	013R
277	40.6	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	014R
278	40.6	0.437	0.257	1.701	-0.475	0.754	30.6	-1.8	30.6	356.5	69.9	79.7	-5.0	79.8	356.3	0.3	0.00	1.00	015R
279	40.6	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	015R
280	40.6	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	016R
281	40.6	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	017R
282	40.6	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	018R
283	40.6	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	019R
284	40.6	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	020R
285	40.6	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	021R
286	40.5	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	021R
287	40.5	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	022R
288	40.5	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	023R
289	40.5	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	024R
290	40.5	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	025R
291	40.5	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	026R
292	40.5	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	026R
293	40.5	0.432	0.251	1.715	-0.501	0.771	31.1	-2.8	31.2	354.6	69.8	80.7	-7.9	81.2	354.4	0.55	0.00	1.00	027R
294	40.5	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	028R
295	40.5	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	029R
296	40.4	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	030R
297	40.4	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	031R
298	40.4	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	032R
299	40.4	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	033R
300	40.4	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	033R
301	40.4	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	034R
302	40.4	0.429	0.248	1.723	-0.517	0.78	31.3	-3.5	31.5	353.5	69.7	81.5	-9.4	81.9	353.3	0.7	0.00	1.00	035R
303	40.4	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	036R
304	40.4	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	037R
305	40.4	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	037R
306	40.3	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	038R
307	40.3	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	039R
308	40.3	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	040R
309	40.3	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	041R
310	40.3	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	042R
311	40.3	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	043R
312	40.3	0.426	0.245	1.732	-0.533	0.791	31.6	-4.1	31.9	352.4	69.7	82.2	-11.0	82.9	352.3	0.87	0.00	1.00	044R
313	40.3	0.425	0.245	1.733	-0.534	0.792	31.6	-4.2	31.9	352.3	69.7	82.2	-11.2	83.0	352.2	0.89	0.00	1.00	044R
314	40.3	0.425	0.245	1.734	-0.536	0.793	31.7	-4.3	31.9	352.2	69.7	82.3	-11.3	83.1	352.1	0.91	0.00	1.00	045R
315	40.3	0.425	0.245	1.735	-0.537	0.794	31.7	-4.3	32.0	352.1	69.7	82.4	-11.5	83.2	352.0	0.92	0.00	1.00	046R
316	40.3	0.425	0.244	1.736	-0.539	0.795	31.7	-4.4	32.0	352.0	69.6	82.4	-11.6	83.3	351.9	0.94	0.00	1.00	047R
317	40.2	0.424	0.244	1.736	-0.54	0.796	31.7	-4.4	32.0	351.9	69.6	82.5	-11.8	83.4	351.8	0.96	0.00	1.00	048R
318	40.2	0.424	0.244	1.737	-0.542	0.797	31.8	-4.5	32.1	351.8	69.6	82.6	-11.9	83.4	351.7	0.97	0.00	1.00	048R
319	40.2	0.424	0.244	1.738	-0.543	0.798	31.8	-4.6	32.1	351.7	69.6	82.6	-12.1	83.5	351.6	0.99	0.00	1.00	049R
320	40.2	0.423	0.243	1.739	-0.545	0.799	31.8	-4.6	32.2	351.6	69.6	82.7	-12.2	83.6	351.5	1.00	0.00	0.98	050R
321	40.2	0.423	0.243	1.74	-0.546	0.8	31.8	-4.7	32.2	351.5	69.6	82.8	-12.3	83.7	351.4	1.00	0.00	0.96	051R
322	40.2	0.423	0.243	1.74	-0.548	0.801	31.9	-4.7	32.2	351.4	69.6	82.8	-12.5	83.8	351.4	1.00	0.00	0.95	052R
323	40.2	0.423	0.242	1.741	-0.549	0.802	31.9	-4.8	32.3	351.3	69.6	82.9	-12.6	83.9	351.3	1.00	0.00	0.93	053R
324	40.2	0.422	0.242	1.742	-0.551	0.803	31.9	-4.9	32.3	351.2	69.6	83.0	-12.8	83.9	351.2	1.00	0.00	0.91	054R
325	40.2	0.422	0.242	1.743	-0.552	0.804	31.9	-4.9	32.3	351.1	69.6	83.0	-12.9	84.0	351.1	1.00	0.00	0.9	054R
326	40.2	0.422	0.242	1.744	-0.553	0.805	32.0	-5.0	32.4	351.0	69.6	83.1	-13.0	84.1	351.0	1.00	0.00	0.88	055R
327	40.2	0.422	0.241	1.744	-0.														

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 _{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} 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}	Y	a*	b*	C*	ab	rgb _{ab}	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	0.457	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	3.1	70.0	79.2	4.8	79.4	3.4	1.00	0.00	0.42	#B78R
008	40.9	0.463	0.273	1.693	-0.383	0.745	30.4	2.1	30.4	4.0	70.1	78.8	6.1	79.0	4.4	1.00	0.00	0.39	#B80R
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	5.5	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	6.3	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	41.0	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	1.651	-0.297	0.713	28.7	5.6	29.3	11.1	70.2	75.1	17.7	77.2	13.2	1.00	0.00	0.21	#B89R
017	41.0	0.489	0.297	1.646	-0.286	0.71	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	28.7	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	0.00	0.00	#R00Y
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	#R02Y
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	#R03Y
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	#R05Y
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	#R06Y
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	#R08Y
032	41.4	0.54	0.342	1.576	-0.136	0.694	25.9	12.3	28.7	25.5	70.4	68.4	47.8	83.5	34.9	1.00	0.09	0.00	#R09Y
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	#R11Y
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	#R12Y
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	#R13Y
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	#R15Y
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	#R16Y
038	41.4	0.56	0.36	1.554	-0.087	0.697	25.0	14.4	28.9	29.9	70.4	66.4	61.7	90.7	42.9	1.00	0.18	0.00	#R18Y
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	44.2	1.00	0.19	0.00	#R19Y
040	41.5	0.566	0.365	1.547	-0.074	0.697	24.7	14.9	28.9	31.1	70.5	65.8	66.3	93.4	45.2	1.00	0.21	0.00	#R21Y
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	#R22Y
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	#R24Y
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	#R25Y
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	#R27Y
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	#R28Y
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	#R30Y
047	41.6	0.581	0.381	1.525	-0.039	0.697	23.9	16.5	29.0	34.5	70.6	63.8	82.2	104.1	52.2	1.00	0.31	0.00	#R31Y
048	41.6	0.583	0.382	1.523	-0.035	0.698	23.8	16.6	29.1	34.9	70.6	63.5	84.4	105.7	53.0	1.00	0.33	0.00	#R33Y
049	41.6	0.584	0.384	1.52	-0.032	0.698	23.7	16.8	29.1	35.2	70.6	63.3	86.6	107.3	53.8	1.00	0.34	0.00	#R34Y
050	41.7	0.585	0.386	1.517	-0.029	0.697	23.6	16.9	29.1	35.6	70.6	63.0	88.8	108.9	54.6	1.00	0.36	0.00	#R36Y
051	41.7	0.587	0.387	1.515	-0.026	0.697	23.5	17.0	29.0	35.9	70.6	62.8	90.9	110.5	55.3	1.00	0.37	0.00	#R37Y
052	41.7	0.588	0.388	1.512	-0.023	0.697	23.4	17.1	29.0	36.2	70.6	62.6	93.0	112.1	56.0	1.00	0.39	0.00	#R39Y
053	41.7	0.589	0.39	1.51	-0.02	0.696	23.3	17.3	29.0	36.5	70.6	62.3	95.0	113.7	56.7	1.00	0.4	0.00	#R40Y
054	41.7	0.59	0.391	1.508	-0.018	0.696	23.2	17.4	29.0	36.7	70.7	62.1	97.0	115.2	57.3	1.00	0.42	0.00	#R42Y
055	41.7	0.591	0.392	1.505	-0.016	0.695	23.1	17.4	29.0	37.0	70.7	61.9	99.0	116.8	57.9	1.00	0.43	0.00	#R43Y
056	41.7	0.591	0.393	1.503	-0.014	0.695	23.1	17.5	29.0	37.2	70.7	61.7	100.9	118.3	58.5	1.00	0.45	0.00	#R45Y
057	41.7	0.592	0.394	1.501	-0.013	0.694	23.0	17.6	29.0	37.4	70.7	61.5	102.8	119.9	59.1	1.00	0.46	0.00	#R46Y
058	41.7	0																	

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}							
090	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	0.00	0.00	0.00	0.00	0.00
091	81.1	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	0.00	0.00	0.00	0.00	0.00
092	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	0.00	0.00	0.00	0.00	0.00
093	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	0.00	0.00	0.00	0.00	0.00
094	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	0.00	0.00	0.00	0.00	0.00
095	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	0.00	0.00	0.00	0.00	0.00
096	88.6	0.457	0.526	0.868	-0.011	0.432	-7.2	37.5	38.2	100.9	95.6	-14.1	134.5	135.3	96.0	0.94	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
097	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	0.00	0.00	0.00	0.00	0.00
098	91.1	0.448	0.530	0.845	-0.015	0.432	-9.5	38.2	39.4	104.0	96.4	-18.5	129.5	130.8	98.1	0.91	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
099	92.0	0.444	0.53	0.836	-0.018	0.432	-10.4	38.3	39.7	105.2	96.8	-20.2	126.4	128.0	99.0	0.9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	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	123.6	125.0	98.5	0.89	1.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00
106	91.5	0.421	0.541	0.775	-0.028	0.443	-16.0	37.2	40.6	113.2	96.6	-31.8	116.1	120.4	105.3	0.8	1.00	0.00	0.00	0.00	0.00	0.00	0.00	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	106.3	0.79	1.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00
113	87.8	0.393	0.561	0.701	-0.031	0.474	-21.9	35.4	41.6	121.6	95.1	-46.1	111.0	120.6	112.4	0.7	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	87.2	0.389	0.564	0.69	-0.032	0.48	-22.7	35.2	41.8	122.8	94.8	-48.3	110.8	120.8	113.5	0.69	1.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	104.9	124.0	121.7	0.57	1.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	125.1	0.53	1.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	129.0	0.47	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	77.7	0.318	0.614	0.519	-0.043	0.583	-33.5	30.6	45.3	137.5	90.8	-83.9	98.5	129.4	130.4	0.46	1.00	0.00	0.00	0.00	0.00	0.00	0.00	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	130.2	131.7	0.44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00
135	73.9	0.291	0.627	0.464	-0.051	0.619	-35.9	28.4	45.8	141.6	88.9	-96.0	92.2	133.1	136.1	0.38	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	73.3	0.286	0.629	0.455	-0.052	0.625	-36.2	28.0																

rgb _{cab} and CIE data of a elementary hci color according to CIE R1-47 for Ostwald colours for CIE illuminant D65																			
Xyy, cab _{AB} , ABC _{AB} , LabC _{ab} h _{ab} data for relative spacing of elementary hci 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:																			
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	cab	A	B	C	h _{ab}	L*	a*	b*	C _{ab}	h _{ab}	rgb _{cab}	Code _{ab}
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	0.5	190.9	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	189.0	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	187.8	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	0.499	-29.0	-4.8	29.4	189.4	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	0.486	-28.7	-5.6	29.2	191.8	81.2	-89.2	-11.5	90.7	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	-12.3	28.4	205.8	81.0	-77.5	-23.5	81.0	196.8	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	203.9	0.00	1.00	0.73	G378
204	58.2	0.163	0.295	0.554	-0.734	0.495	-23.0	-17.2	28.7	217.1	80.8	-68.7	-31.6	75.6	204.7	0.00	1.00	0.74	G388
205	58.2	0.163	0.293	0.557	-0.738	0.496	-22.8	-17.6	28.9	218.3	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	0.577	-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	0.99	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	236.7	71.4	-58.6	-48.9	76.4	219.7	0.00	0.94	1.00	G538
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	245.6	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	G628
232	34.9	0.131	0.211	0.622	-1.244	0.873	-11.4	-28.2	30.4	247.9	65.5	-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	0.911	-10.5	-28.7	30.6	249.8	64.6	-43.6	-60.7	74.7	234.2	0.00	0.66	1.00	G668
236	33.2	0.13	0.203	0.64	-1.308	0.926	-10.2	-28.9	30.7	250.9	64.3	-42.6	-61.3	74.7	235.1	0.00	0.64	1.00	G678
237	32.7	0.13	0.201	0.645	-1.325	0.941	-9.9	-29.1	30.8	251.0	63.9	-41.6	-61.9	74.6	236.0	0.00			

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				%	
1-001000-L0										VE400-7X			

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, ..., 099, 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	hA ₁₀ ,10	L ₁₀	a*	b*	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	-1.1	31.6	357.8	69.4	82.4	-3.2	82.4	357.7	1.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	1.1	81.7	0.7	1.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
006	40.0	0.468	0.272	1.719	-0.38	0.773	30.9	1.9	30.9	3.6	69.5	80.9	5.7	81.1	4.0	1.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
008	40.0	0.477	0.277	1.713	-0.354	0.768	30.6	2.9	30.8	5.5	69.5	80.3	9.2	80.8	6.4	1.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
014	40.1	0.498	0.294	1.691	-0.279	0.758	29.8	6.0	30.4	11.3	69.5	78.5	19.6	80.9	14.0	1.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	84.5	27.4	1.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	98.5	45.5	1.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
040	40.9	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	77.6	102.6	48.5	1.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	79.9	104.0	49.4	1.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
045	41.2	0.587	0.377	1.555	-0.036	0.723	25.0	16.1																	

rgb _{tab} 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} tab 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:																			
180, 181, ..., 269, 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. _{tab}	h _{ab}	X ₁₀	Y ₁₀	a ₁₀	b ₁₀	abc _{AB}	A ₁₀	B ₁₀	C _{AB}	h _{AB}	L ₁₀	a ₁₀	b ₁₀	C _{ab}	h _{ab}	rgb _{tab}	Code _{tab}		
180	41.9	0.557	0.353	1.577	-0.1	0.71	26.4	13.8	29.8	27.5	70.8	69.2	57.5	90.0	39.7	0.00	1.00	0.45	G22B
181	41.9	0.557	0.352	1.579	-0.101	0.71	26.4	13.7	29.8	27.4	70.8	69.3	57.0	89.8	39.4	0.00	1.00	0.47	G23B
182	41.9	0.556	0.352	1.58	-0.103	0.711	26.5	13.6	29.8	27.2	70.8	69.4	56.5	89.5	39.1	0.00	1.00	0.49	G24B
183	41.9	0.555	0.351	1.581	-0.105	0.711	26.5	13.5	29.8	27.0	70.8	69.5	55.9	89.3	38.8	0.00	1.00	0.51	G25B
184	41.9	0.555	0.35	1.582	-0.107	0.711	26.6	13.5	29.8	26.9	70.8	69.6	55.4	89.0	38.5	0.00	1.00	0.53	G26B
185	41.9	0.554	0.35	1.583	-0.108	0.712	26.6	13.4	29.8	26.7	70.8	69.8	54.9	88.8	38.2	0.00	1.00	0.56	G28B
186	41.8	0.553	0.349	1.585	-0.11	0.712	26.6	13.3	29.8	26.5	70.7	69.9	54.4	88.6	37.9	0.00	1.00	0.58	G29B
187	41.8	0.553	0.348	1.586	-0.112	0.712	26.7	13.2	29.8	26.4	70.7	70.0	53.9	88.3	37.6	0.00	1.00	0.6	G30B
188	41.8	0.552	0.348	1.587	-0.114	0.713	26.7	13.1	29.8	26.2	70.7	70.1	53.4	88.1	37.2	0.00	1.00	0.62	G31B
189	41.8	0.551	0.347	1.588	-0.115	0.713	26.8	13.1	29.8	26.0	70.7	70.2	52.8	87.9	36.9	0.00	1.00	0.64	G32B
190	41.8	0.551	0.346	1.59	-0.117	0.713	26.8	13.0	29.8	25.8	70.7	70.3	52.3	87.7	36.6	0.00	1.00	0.66	G33B
191	41.8	0.55	0.345	1.591	-0.119	0.713	26.9	12.9	29.8	25.7	70.7	70.4	51.8	87.4	36.3	0.00	1.00	0.68	G34B
192	41.8	0.549	0.345	1.592	-0.121	0.714	26.9	12.8	29.8	25.5	70.7	70.5	51.3	87.2	36.0	0.00	1.00	0.71	G35B
193	41.7	0.549	0.344	1.593	-0.123	0.714	26.9	12.7	29.8	25.3	70.7	70.6	50.8	87.0	35.7	0.00	1.00	0.73	G36B
194	41.7	0.548	0.343	1.595	-0.125	0.714	27.0	12.7	29.8	25.1	70.7	70.7	50.3	86.8	35.4	0.00	1.00	0.75	G37B
195	41.7	0.547	0.343	1.596	-0.127	0.715	27.0	12.6	29.8	24.9	70.7	70.8	49.8	86.6	35.0	0.00	1.00	0.77	G38B
196	41.7	0.546	0.342	1.597	-0.129	0.715	27.1	12.5	29.8	24.8	70.7	70.9	49.2	86.4	34.7	0.00	1.00	0.79	G39B
197	41.7	0.546	0.341	1.598	-0.131	0.715	27.1	12.4	29.8	24.6	70.6	71.0	48.7	86.2	34.4	0.00	1.00	0.81	G40B
198	41.7	0.545	0.34	1.599	-0.133	0.715	27.2	12.3	29.8	24.4	70.6	71.1	48.2	86.0	34.1	0.00	1.00	0.83	G41B
199	41.7	0.544	0.34	1.601	-0.135	0.716	27.2	12.2	29.8	24.2	70.6	71.2	47.7	85.8	33.8	0.00	1.00	0.86	G43B
200	41.7	0.543	0.339	1.602	-0.137	0.716	27.2	12.1	29.8	24.0	70.6	71.4	47.2	85.6	33.4	0.00	1.00	0.88	G44B
201	41.6	0.543	0.338	1.603	-0.139	0.716	27.3	12.0	29.8	23.8	70.6	71.5	46.7	85.4	33.1	0.00	1.00	0.9	G45B
202	41.6	0.542	0.337	1.604	-0.141	0.717	27.3	11.9	29.8	23.6	70.6	71.6	46.2	85.2	32.8	0.00	1.00	0.92	G46B
203	41.6	0.541	0.337	1.605	-0.143	0.717	27.4	11.9	29.8	23.4	70.6	71.7	45.6	85.0	32.4	0.00	1.00	0.94	G47B
204	41.6	0.54	0.336	1.607	-0.145	0.717	27.4	11.8	29.8	23.2	70.6	71.8	45.1	84.8	32.1	0.00	1.00	0.96	G48B
205	41.6	0.54	0.335	1.608	-0.147	0.717	27.4	11.7	29.8	23.0	70.6	71.9	44.6	84.6	31.8	0.00	1.00	0.98	G49B
206	41.6	0.539	0.335	1.609	-0.15	0.718	27.5	11.6	29.8	22.8	70.6	72.0	44.1	84.4	31.5	0.00	0.98	1.00	G50B
207	41.6	0.538	0.334	1.61	-0.152	0.718	27.5	11.5	29.8	22.6	70.6	72.1	43.6	84.3	31.1	0.00	0.96	1.00	G51B
208	41.5	0.537	0.333	1.612	-0.154	0.718	27.6	11.4	29.8	22.4	70.5	72.2	43.1	84.1	30.8	0.00	0.94	1.00	G52B
209	41.5	0.536	0.332	1.613	-0.156	0.719	27.6	11.3	29.9	22.2	70.5	72.3	42.6	83.9	30.4	0.00	0.92	1.00	G53B
210	41.5	0.536	0.332	1.614	-0.158	0.719	27.7	11.2	29.9	22.0	70.5	72.4	42.1	83.8	30.1	0.00	0.9	1.00	G54B
211	41.5	0.535	0.331	1.615	-0.161	0.719	27.7	11.1	29.9	21.8	70.5	72.5	41.5	83.6	29.8	0.00	0.88	1.00	G55B
212	41.5	0.534	0.33	1.617	-0.163	0.719	27.7	11.0	29.9	21.6	70.5	72.6	41.0	83.4	29.4	0.00	0.86	1.00	G56B
213	41.5	0.533	0.329	1.618	-0.165	0.72	27.8	10.9	29.9	21.4	70.5	72.7	40.5	83.3	29.1	0.00	0.83	1.00	G58B
214	41.5	0.532	0.328	1.619	-0.168	0.72	27.8	10.8	29.9	21.2	70.5	72.8	40.0	83.1	28.7	0.00	0.81	1.00	G59B
215	41.5	0.531	0.328	1.62	-0.17	0.72	27.9	10.7	29.9	21.0	70.5	72.9	39.5	83.0	28.4	0.00	0.79	1.00	G60B
216	41.4	0.531	0.327	1.622	-0.172	0.721	27.9	10.6	29.9	20.8	70.5	73.0	39.0	82.8	28.1	0.00	0.77	1.00	G61B
217	41.4	0.53	0.326	1.623	-0.175	0.721	28.0	10.5	29.9	20.6	70.5	73.2	38.5	82.7	27.7	0.00	0.75	1.00	G62B
218	41.4	0.529	0.325	1.624	-0.177	0.721	28.0	10.4	29.9	20.4	70.5	73.3	38.0	82.5	27.4	0.00	0.73	1.00	G63B
219	41.4	0.528	0.325	1.625	-0.179	0.722	28.0	10.3	29.9	20.2	70.4	73.4	37.5	82.4	27.0	0.00	0.71	1.00	G64B
220	41.4	0.527	0.324	1.626	-0.182	0.722	28.1	10.2	29.9	20.0	70.4	73.5	37.0	82.3	26.7	0.00	0.69	1.00	G65B
221	41.4	0.526	0.323	1.628	-0.184	0.722	28.1	10.1	29.9	19.7	70.4	73.6	36.5	82.1	26.3	0.00	0.66	1.00	G66B
222	41.4	0.525	0.322	1.629	-0.187	0.723	28.2	10.0	29.9	19.5	70.4	73.7	36.0	82.0	26.0	0.00	0.64	1.00	G67B
223	41.4	0.525	0.322	1.63	-0.189	0.723	28.2	9.9	29.9	19.3	70.4	73.8	35.4	81.9	25.6	0.00	0.62	1.00	G68B
224	41.3	0.524	0.321	1.633	-0.192	0.723	28.2	9.8	29.9	19.1	70.4	73.9	34.9	81.7	25.3	0.00	0.6	1.00	G69B
225	41.3	0.523	0.32	1.633	-0.194	0.724	28.3	9.6	29.9	18.8	70.4	74.0	34.4	81.6	24.9	0.00	0.58	1.00	G70B
226	41.3	0.522	0.319	1.634	-0.197	0.724	28.3	9.5	29.9	18.6	70.4	74.1	33.9	81.5	24.6	0.00	0.56	1.00	G71B
227	41.3	0.521	0.318	1.635	-0.199	0.724	28.4	9.4	29.9	18.4	70.4	74.2	33.4	81.4	24.2	0.00	0.53	1.00	G73B
228	41.3	0.52	0.318	1.636	-0.202	0.725	28.4	9.3	29.9	18.2	70.4	74.3	32.9	81.3	23.9	0.00	0.51	1.00	G74B
229	41.3	0.519	0.317	1.637	-0.205	0.725	28.5	9.2	29.9	17.9	70.4	74.4	32.4	81.2	23.5	0.00	0.49	1.00	G75B
230	41.3	0.518	0.316	1.639	-0.207	0.725	28.5	9.1	29.9	17.7	70.4	74.5	31.9	81.1	23.2	0.00	0.47	1.00	G76B
231	41.2	0.518	0.315	1.64	-0.21	0.726	28.5	9.0	29.9	17.5	70.3	74.6	31.4	81.0	22.8	0.00	0.45	1.00	G77B
232	41.2	0.517	0.315	1.641	-0.213	0.726	28.6	8.9	29.9	17.3	70.3	74.7	30.9	80.9	22.5	0.00	0.43	1.00	G78B
233	41.2	0.516	0.314	1.642	-0.215	0.726	28.6	8.8	29.9	17.0	70.3	74.8	30.4	80.8	22.1	0.00	0.41	1.00	G79B
234	41.2	0.515	0.313	1.643	-0.218	0.727	28.7	8.6	29.9	16.8	70.3	74.9	30.0	80.7	21.8	0.00	0.38	1.00	G80B
235	41.2	0.514	0.312	1.645	-0.221	0.727	28.7	8.5	30.0	16.6	70.3	75.0	29.5	80.6	21.4	0.00	0.36	1.00	G81B
236	41.2	0.513	0.311	1.646	-0.224	0.727	28.7	8.4	30.0	16.3	70.3	75.1	29.0	80.5	21.1	0.00	0.34	1.00	G82B
237	41.1	0.512	0.31	1.647	-0.227	0.728	28.8	8.3	30.0	16.0	70.3	75.2	28.5	80.4	20.8	0.00	0.32	1.00	G83B
238	41.2	0.511	0.31	1.648	-0.229	0.728	28.8	8.2	30.0	15.9	70.3	75.3	28.0	80.4	20.4	0.00	0.3	1.00	G84B

rgb _{cab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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270	ab	0.8	0.481	0.285	1.686	-0.326	0.745	30.1	4.1	30.4	7.9	70.0	78.4	12.9	79.5	9.3	0.26	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00