

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

rgb _{AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																								
Yxy _{AB} abc _{AB} ABC _{AB} LabC _{AB} a _{hAB} data for relative spacing of elementary hue h _{AB} of L _{IN} YAB for CIE 2 degree observer																								
Elementary hue circle with 4 divided elementary hue angles: h _{AB} = 17.7, 93.3, 159.1, 270.8 of L _{IN} YAB, and 90 intended hue angles:																								
090, 091, ..., 179, L _{IN} YAB data of CIE test colours 9 (R): 11.2 9.9 3.1, 10 (Y): 59.0 -1.2 20.9, 11 (G): 20.3 -7.2 12.7, 12 (B): 6.4 0.1 -8.2																								
no	AB	Y	x	y	a	b	c	AB	A	B	C	AB	h _{AB}	L*	a*	b*	C*	h _{AB}	rgb _{AB}	abc _{AB}	Code _{AB}			
090	80.7	x	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	R95Y			
091	81.1	x	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	R96Y			
092	81.9	x	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	R98Y			
093	82.8	x	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	R99Y			
094	83.6	x	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	Y01G			
095	84.2	x	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	Y02G			
096	84.9	x	0.47	0.519	0.905	-0.007	0.43	-3.8	36.3	36.5	96.0	93.8	-7.6	140.8	141.0	93.1	0.95	1.00	0.00	0.00	Y04G			
097	85.6	x	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	Y05G			
098	86.2	x	0.465	0.523	0.889	-0.009	0.43	-5.2	36.9	37.2	98.0	94.8	-10.3	139.3	139.4	94.2	0.92	1.00	0.00	0.00	Y06G			
099	87.2	x	0.462	0.524	0.881	-0.01	0.431	-5.9	37.1	37.6	99.1	94.8	-11.7	138.5	138.7	94.9	0.91	1.00	0.00	0.00	Y08G			
100	88.0	x	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	Y10G			
101	88.8	x	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	Y11G			
102	89.6	x	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	Y13G			
103	90.3	x	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	Y14G			
104	91.2	x	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	Y16G			
105	92.0	x	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	Y17G			
106	92.8	x	0.443	0.528	0.829	-0.019	0.432	-10.3	38.6	40.0	106.0	96.9	-21.2	125.2	127.2	99.4	0.82	1.00	0.00	0.00	Y19G			
107	94.3	x	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	Y20G			
108	93.6	x	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	Y22G			
109	93.2	x	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	Y23G			
110	92.8	x	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	Y25G			
111	92.3	x	0.426	0.536	0.796	-0.027	0.436	-14.2	37.6	40.3	110.7	96.9	-27.9	117.1	120.4	103.4	0.73	1.00	0.00	0.00	Y26G			
112	91.9	x	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	Y28G			
113	91.6	x	0.423	0.540	0.780	-0.028	0.431	-15.6	37.3	40.3	112.7	96.6	-30.9	115.9	119.8	105.0	0.7	1.00	0.00	0.00	Y30G			
114	91.6	x	0.418	0.542	0.772	-0.028	0.431	-16.2	37.0	40.4	113.7	96.6	-32.5	115.4	119.9	105.7	0.68	1.00	0.00	0.00	Y31G			
115	90.5	x	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	Y32G			
116	90.0	x	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	Y34G			
117	89.5	x	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	Y35G			
118	89.0	x	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	Y37G			
119	88.5	x	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	Y39G			
120	88.0	x	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	Y40G			
121	87.4	x	0.394	0.559	0.705	-0.032	0.472	-21.4	35.2	41.2	121.2	94.9	-45.2	110.9	118.8	112.1	0.57	1.00	0.00	0.00	Y42G			
122	86.2	x	0.391	0.562	0.695	-0.032	0.477	-22.1	35	41.4	122.2	94.8	-47.2	110.2	119.1	113.2	0.56	1.00	0.00	0.00	Y43G			
123	86.3	x	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	Y45G			
124	85.8	x	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	Y46G			
125	85.2	x	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	Y48G			
126	84.6	x	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	Y49G			
127	84.1	x	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	Y51G			
128	83.5	x	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	Y52G			
129	82.9	x	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	Y54G			
130	82.3	x	0.357	0.587	0.608	-0.037	0.524	-28.1	32.7	43.2	130.7	92.8	-64.8	104.7	123.1	121.8	0.43	1.00	0.00	0.00	Y56G			
131	81.8	x	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	Y57G			
132	81.2	x	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	Y58G			
133	80.7	x	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	Y60G			
134	80.1	x	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	Y61G			
135	79.6	x	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	Y63G			
136	79.0	x	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	Y64G			
137	78.1	x	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	Y66G			
138	76.9	x	0.311	0.618	0.504	-0.044	0.593	-34.3	30.0	45.6	138.8	90.0	-87.2	99.2	130.6	133.2	0.32	1.00	0.00	0.00	Y67G			
139	75.7	x	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	Y69G			
140	74.6	x	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	0.0					

rgb* _{AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																				
Yxy, c _{AB} AB, ABC _{AB} , LabC* _{ab} AB data for relative spacing of elementary hue h _{AB} of L ₁ Y ₁ AB for CIE 2 degree observer																				
Elementary hue circle with 4 extended elementary hue angles: h _{AB} = 17.7, 93.3, 159.1, 270.8 of L ₁ Y ₁ AB, and 90 inteded 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 20.9, 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	1.04	180.1	179.7	1.00	1.00	0.39	G181	
182	59.1	0.167	0.395	0.423	-0.441	0.527	-31.1	-0.3	31.2	180.6	81.3	-99.2	-0.7	99.2	180.4	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	-3.0	30.1	185.8	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	-3.7	29.9	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	-4.1	29.7	187.9	81.3	-92.2	-8.4	92.6	185.2	0.00	1.00	0.53	G278	
190	59.0	0.166	0.364	0.454	-0.514	0.501	-29.2	-4.6	29.6	189.0	81.2	-91.3	-9.5	91.8	185.9	0.00	1.00	0.55	G278	
191	58.9	0.165	0.361	0.458	-0.523	0.499	-28.9	-5.1	29.4	190.1	81.2	-90.3	-10.5	90.9	186.6	0.00	1.00	0.57	G288	
192	58.9	0.165	0.357	0.462	-0.532	0.497	-28.7	-5.6	29.3	191.2	81.2	-89.3	-11.5	90.1	187.3	0.00	1.00	0.58	G298	
193	58.9	0.165	0.354	0.466	-0.541	0.495	-28.5	-6.2	29.1	192.3	81.2	-88.4	-12.5	89.3	188.0	0.00	1.00	0.6	G308	
194	58.9	0.165	0.351	0.47	-0.55	0.493	-28.2	-6.7	29.0	193.4	81.2	-87.4	-13.5	88.5	188.8	0.00	1.00	0.62	G318	
195	58.8	0.165	0.348	0.474	-0.558	0.491	-28.0	-7.2	28.9	194.5	81.2	-86.5	-14.5	87.7	189.5	0.00	1.00	0.64	G328	
196	58.8	0.163	0.345	0.48	-0.567	0.488	-27.7	-7.7	28.8	195.6	81.2	-85.5	-15.5	86.9	190.5	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	58.7	0.163	0.323	0.507	-0.632	0.484	-25.9	-11.5	28.4	204.0	81.1	-78.9	-22.2	81.9	195.7	0.00	1.00	0.78	G398	
204	58.6	0.164	0.32	0.512	-0.643	0.483	-25.6	-12.1	28.4	205.3	81.1	-77.8	-23.3	81.0	196.6	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	81.0	-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	28.3	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	28.3	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	28.3	214.0	80.9	-71.0	-29.5	76.9	202.6	0.00	1.00	0.94	G478	
213	58.2	0.163	0.299	0.546	-0.716	0.492	-23.5	-16.3	28.6	214.7	80.9	-70.3	-30.1	76.5	203.1	0.00	1.00	0.96	G488	
214	58.2	0.163	0.298	0.549	-0.722	0.493	-23.3	-16.7	28.7	215.5	80.8	-69.7	-30.6	76.1	203.7	0.00	1.00	0.98	G498	
215	58.2	0.163	0.296	0.552	-0.727	0.494	-23.2	-17.0	28.7	216.2	80.8	-69.1	-31.1	75.8	204.2	0.00	1.00	0.99	G508	
216	58.2	0.163	0.295	0.554	-0.733	0.495	-23.0	-17.3	28.8	216.9	80.8	-68.6	-31.6	75.5	204.7	0.00	1.00	0.99	G508	
217	58.2	0.163	0.293	0.557	-0.737	0.496	-22.9	-17.6	28.8	217.5	80.8	-68.1	-32.0	75.2	205.2	0.00	1.00	0.96	G518	
218	58.2	0.163	0.292	0.559	-0.742	0.497	-22.7	-17.8	28.9	218.0	80.8	-67.6	-32.4	75.0	205.6	0.00	1.00	0.94	G528	
219	58.3	0.164	0.291	0.563	-0.746	0.496	-22.5	-18.1	28.9	218.7	80.9	-66.8	-32.8	74.4	206.2	0.00	1.00	0.93	G538	
220	58.3	0.163	0.289	0.567	-0.751	0.497	-22.3	-18.4	28.9	219.4	80.9	-66.0	-33.2	73.8	206.8	0.00	1.00	0.92	G548	
221	56.6	0.161	0.287	0.562	-0.768	0.511	-22.0	-18.8	28.9	220.5	80.0	-66.4	-34.4	74.8	207.4	0.00	1.00	0.99	G558	
222	55.7	0.159	0.284	0.561	-0.78	0.52	-21.6	-19.2	29.0	221.5	79.4	-66.2	-35.3	75.0	208.0	0.00	1.00	0.87	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	1.00	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	1.00	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	1.00	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	1.00	0.8	1.00	G598
227	50.7	0.15	0.27	0.557	-0.855	0.563	-20.0	-21.3	29.2	226.6	76.6	-64.9	-40.2	76.4	211.8	0.00	1.00	0.78	1.00	G608
228	49.9	0.149	0.267	0.557	-0.871	0.587	-19.6	-21.7	29.3	227.6	76.0	-64.6	-41.2	76.6	212.5	0.00	1.00	0.76	1.00	G618
229	49.9	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	213.5	0.00	1.00	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	1.00	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	1.00	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	1.00	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	1.00	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	1.00	0.65	1.00	G678
235	44.3	0.141	0.248	0.567	-0.981	0.667	-16.9	-24.2	29.5	234.9	72.4	-60.1	-47.4	76.6	218.2	0.00	1.00	0.64	1.00	G678
236	43.5	0.14	0.245	0.57	-0.998	0.679	-16.5	-24.5	29.5	235.9	71.9	-59.3	-48.3	76.5	219.1	0.00	1.00	0.62	1.00	G688
237	42.8	0.139	0.243	0.572	-1.016	0.692	-16.1	-24.8	29.6	236.9	71.4	-58.5	-49.1	76.4	220.0	0.00	1.00	0.6	1.00	G698
238	42.0	0.138	0.24	0.575	-1.034	0.706	-15.7	-25.1	29											

rgb _{AB} and CIE data of a elementary hue circle according to CIE R1-47 for <i>Ostwald</i> colours for CIE illuminant D65																			
Yxy, <i>abc</i> _{AB} , <i>ABC</i> _{AB} , <i>LabC</i> _{ab} <i>hAB</i> data for relative spacing of elementary hue <i>hAB</i> of <i>LIN</i> YAB for CIE 2 degree observer																			
Elementary hue circle with 4 divided elementary hue angles: <i>hAB</i> = 17.7, 93.3, 159.1, 270.8 of <i>LIN</i> YAB, and 90 intended hue angles:																			
270, 271, ..., 360, <i>LIN</i> YAB data of CIE test colours 9 (R): 11.2 9.9 3.1, 10 (Y): 59.0 59.0 1.2 20.9, 11 (G): 20.3 -7.2 12.7, 12 (B): 6.4 0.1 -8.2																			
<i>no.</i> _{AB}	<i>Y</i>	<i>x</i>	<i>y</i>	<i>a</i>	<i>b</i>	<i>c</i> _{AB}	<i>A</i>	<i>B</i>	<i>C</i> _{AB}	<i>hAB</i>	<i>L</i> [*]	<i>a</i> [*]	<i>b</i> [*]	<i>C</i> [*] _{ab}	<i>hAB</i>	<i>rgb</i> _{ab}	<i>AB</i>	<i>Code</i> _{AB}	
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	% B00R
272	18.0	0.127	0.125	1.019	-2.389	1.954	1.2	-35.2	35.2	272.0	49.5	6.6	-86.2	86.5	274.4	0.02	0.0	1.00	% B01R
273	17.1	0.127	0.119	1.066	-2.512	2.08	1.9	-35.5	35.6	273.2	48.4	10.8	-88.1	88.8	277.0	0.04	0.0	1.00	% B02R
274	16.3	0.128	0.115	1.111	-2.627	2.197	2.6	-35.8	35.9	274.2	47.4	14.6	-89.7	90.9	279.2	0.05	0.0	1.00	% B02R
275	15.7	0.128	0.111	1.156	-2.736	2.309	3.2	-36.1	36.2	275.1	46.6	18.2	-91.1	93.0	281.3	0.07	0.0	1.00	% B03R
276	15.0	0.129	0.107	1.205	-2.85	2.428	3.8	-36.3	36.5	276.0	45.7	21.9	-92.6	95.1	283.3	0.09	0.0	1.00	% B04R
277	13.3	0.129	0.102	1.264	-2.989	2.574	4.5	-36.6	36.8	277.0	44.7	26.1	-94.2	101.7	285.5	0.11	0.0	1.00	% B04R
278	13.5	0.129	0.097	1.315	-3.125	2.729	5.2	-36.8	37.0	278.0	43.7	30.2	-96.2	109.9	287.8	0.13	0.0	1.00	% B05R
279	12.7	0.131	0.092	1.414	-3.349	2.951	5.9	-37.1	37.6	279.1	42.3	36.0	-99.7	104.3	290.1	0.15	0.0	1.00	% B07R
280	11.9	0.132	0.087	1.513	-3.567	3.182	6.7	-37.3	37.9	280.2	41.1	41.3	-99.9	108.1	292.4	0.17	0.0	1.00	% B08R
281	11.1	0.133	0.082	1.619	-3.809	3.44	7.4	-37.6	38.3	281.2	39.8	46.7	-102.0	112.2	294.6	0.19	0.0	1.00	% B09R
282	10.3	0.134	0.077	1.734	-4.075	3.723	8.1	-37.8	38.7	282.1	38.5	52.1	-104.0	116.4	296.6	0.2	0.0	1.00	% B10R
283	9.6	0.135	0.072	1.858	-4.357	4.025	8.8	-38.0	39.0	283.0	37.3	57.5	-106.0	120.6	298.4	0.22	0.0	1.00	% B11R
284	8.7	0.136	0.066	1.988	-4.631	4.335	9.7	-38.2	39.4	284.2	35.4	65.5	-108.0	127.2	300.8	0.24	0.0	1.00	% B12R
285	7.9	0.137	0.061	2.125	-4.905	4.673	10.4	-38.3	39.7	285.0	33.9	71.7	-110.2	132.3	302.8	0.26	0.0	1.00	% B13R
286	7.2	0.138	0.052	2.262	-5.182	5.007	10.3	-38.4	40.0	286.0	32.5	78.4	-112.6	138.0	305.0	0.28	0.0	1.00	% B14R
287	5.6	0.128	0.045	2.488	-5.729	5.177	10.7	-38.8	40.2	285.8	28.9	84.7	-115.6	146.5	305.3	0.3	0.0	1.00	% B15R
288	6.3	0.144	0.05	2.887	-6.421	6.291	12.3	-38.2	40.2	287.9	30.4	89.6	-116.1	146.6	307.6	0.32	0.0	1.00	% B16R
289	6.7	0.15	0.052	2.866	-6.055	6.397	12.9	-38.1	40.2	288.8	31.3	90.6	-114.5	146.0	308.3	0.34	0.0	1.00	% B17R
290	7.1	0.157	0.055	2.846	-5.713	6.367	13.6	-37.9	40.2	289.7	32.2	91.7	-112.8	145.4	309.0	0.35	0.0	1.00	% B17R
291	7.6	0.163	0.057	2.826	-5.395	6.302	14.2	-37.6	40.3	290.9	33.1	92.7	-111.2	144.8	309.8	0.37	0.0	1.00	% B18R
292	8.0	0.169	0.06	2.807	-5.099	6.162	14.9	-37.4	40.3	291.7	34.0	93.8	-109.6	144.2	311.3	0.39	0.0	1.00	% B19R
293	8.4	0.175	0.063	2.788	-4.826	6.04	15.6	-37.2	40.3	292.6	34.9	95.0	-108.0	145.7	312.2	0.42	0.0	1.00	% B20R
294	8.9	0.18	0.065	2.769	-4.555	5.915	16.2	-37.0	40.4	293.7	35.8	96.7	-106.4	149.0	313.1	0.43	0.0	1.00	% B21R
295	9.4	0.188	0.068	2.753	-4.338	5.298	16.9	-36.7	40.5	294.7	36.8	96.7	-104.8	142.6	312.7	0.45	0.0	1.00	% B22R
296	9.9	0.194	0.071	2.736	-4.12	4.095	17.7	-36.5	40.6	295.8	37.7	97.7	-103.2	142.1	313.4	0.47	0.0	1.00	% B23R
297	10.4	0.201	0.073	2.72	-3.919	3.997	18.4	-36.3	40.7	296.9	38.6	98.7	-101.6	141.4	314.1	0.48	0.0	1.00	% B24R
298	10.9	0.207	0.076	2.704	-3.733	3.735	19.1	-36.0	40.8	298.0	39.4	99.6	-100.0	141.2	314.8	0.5	0.0	1.00	% B25R
299	11.4	0.213	0.079	2.689	-3.56	3.576	19.9	-35.8	40.9	299.0	40.3	100.6	-98.5	140.8	315.6	0.52	0.0	1.00	% B26R
300	11.9	0.219	0.082	2.675	-3.4	3.429	20.6	-35.5	41.1	300.1	41.2	101.5	-96.9	140.4	316.3	0.54	0.0	1.00	% B27R
301	12.5	0.225	0.084	2.661	-3.251	3.294	21.4	-35.2	41.2	301.2	42.0	102.4	-95.4	140.0	316.9	0.56	0.0	1.00	% B28R
302	13.0	0.231	0.087	2.647	-3.113	3.17	22.1	-35.0	41.4	302.4	42.9	103.2	-94.0	139.6	317.5	0.58	0.0	1.00	% B29R
303	13.6	0.237	0.09	2.634	-2.985	3.055	22.9	-34.7	41.6	303.4	43.7	104.1	-92.9	139.3	318.3	0.6	0.0	1.00	% B30R
304	14.1	0.243	0.092	2.622	-2.865	2.949	23.7	-34.4	41.8	304.5	44.5	104.9	-91.1	138.9	319.0	0.62	0.0	1.00	% B31R
305	14.7	0.248	0.095	2.61	-2.754	2.851	24.4	-34.1	42.0	305.4	45.3	105.7	-89.7	138.6	319.6	0.63	0.0	1.00	% B31R
306	15.3	0.254	0.097	2.598	-2.65	2.761	25.2	-33.9	42.2	306.6	46.0	106.5	-88.3	138.3	320.3	0.65	0.0	1.00	% B32R
307	15.8	0.259	0.1	2.586	-2.554	2.677	25.9	-33.8	42.5	307.6	46.8	107.2	-86.9	138.0	320.9	0.67	0.0	1.00	% B33R
308	16.4	0.264	0.102	2.575	-2.464	2.599	26.7	-33.3	42.7	308.7	47.5	107.9	-85.6	137.8	321.5	0.69	0.0	1.00	% B34R
309	17.0	0.269	0.105	2.565	-2.379	2.527	27.4	-33.0	43.0	309.7	48.2	108.6	-84.3	137.5	322.1	0.71	0.0	1.00	% B35R
310	17.6	0.274	0.107	2.554	-2.294	2.456	28.1	-32.8	43.2	310.7	49.0	109.3	-83.0	137.2	322.6	0.73	0.0	1.00	% B36R
311	18.1	0.279	0.109	2.544	-2.227	2.398	28.9	-32.5	43.5	311.6	49.6	109.9	-81.8	137.0	323.3	0.75	0.0	1.00	% B37R
312	18.7	0.283	0.111	2.534	-2.158	2.34	29.6	-32.2	43.8	312.5	50.3	110.5	-80.6	136.8	323.9	0.77	0.0	1.00	% B38R
313	19.2	0.288	0.114	2.524	-2.093	2.286	30.3	-31.9	44.0	313.5	51.0	111.1	-79.4	136.6	324.4	0.78	0.0	1.00	% B39R
314	19.8	0.292	0.116	2.515	-2.033	2.236	31.0	-31.7	44.3	314.4	51.6	111.7	-78.2	136.4	324.9	0.8	0.0	1.00	% B40R
315	20.3	0.296	0.118	2.505	-1.976	2.189	31.7	-31.4	44.6	315.2	52.2	112.2	-77.1	136.2	325.4	0.82	0.0	1.00	% B41R
316	20.9	0.3	0.12	2.496	-1.923	2.145	32.3	-31.1	44.9	316.1	52.8	112.7	-76.0	136.0	325.9	0.84	0.0	1.00	% B42R
317	21.23	0.266	0.123	2.484	-1.861	2.173	33.0	-30.7	45.2	317.0	53.8	113.4	-75.0	135.5	326.6	0.86	0.0	1.00	% B43R
318	20.9	0.313	0.128	2.436	-1.801	1.974	34.3	-30.0	45.6	318.8	55.1	113.9	-71.8	133.9	327.5	0.88	0.0	1.00	% B44R
319	24.2	0.313	0.123	2.399	-1.646	1.888	35.1	-29.4	45.8	320.1	56.3	112.7	-69.5	132.5	328.3	0.9	0.0	1.00	% B45R
320	25.3	0.324	0.137	2.363	-1.57	1.812	35.8	-28.7	45.9	322.2	57.4	112.3	-67.5	131.0	328.9	0.91	0.0	1.00	% B46R
321	26.4	0.328	0.141	2.328	-1.504	1.744	36.4	-28.0	46.0	321.2	58.4	111.6	-66.5	129.5	329.5	0.93	0.0	1.00	% B47R
322	27.3	0.332	0.144	2.295	-1.446	1.682	36.8	-27.6	46.0	323.0	59.3	110.9	-63.8	127.9	330.0	0.95	0.0	1.00	% B47R
323	28.2	0.335	0.148	2.263	-1.395	1.626	37.1	-27.1	45.9	323.8	60.1	110.0	-62.2	126.4	330.5	0.97	0.0	1.00	% B48R
324	29.1	0.337	0.151	2.232	-1.35	1.575	37.3	-26.6	45.8	324.4	60.8	109.1	-60.7	124.8	330.9	1.00	0.0	1.0	% B49R
325	29.9	0.34	0.154	2.203	-1.31	1.528	37.4	-26.1	45.6	325.0	61.5	108.1	-59.3	123.3	331.2	1.00	0.0	0.98	% B50R
326	31.1	0.344	0.159	2.165	-1.248	1.462	38.0	-25.3	45.5	326.2	62.6	107.0	-58.0	121.2	331.7	1.00	0.0	0.96	% B51R
327	32.3	0.348	0.163	2.129	-1.192	1.4	38.1	-24.4	45.2	327.3	63.6	105.6	-54.7	119.1	332.6	1.00	0.0	0.94	% B52R
328	33.3	0.351	0.167	2.097	-														

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

rgb* _{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} _{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 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																					
00.00	00.01	...	08.9	LIN	YAB	data of CIE test colours 9 (R):				10 (Y):				11 (G):				12 (B):			
<i>no.</i>	<i>AB</i>	<i>X</i>	<i>Y</i>	<i>q</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> *	<i>b</i> *	<i>b</i> ₁₀	<i>C</i> * _{AB,10}	<i>h</i> _{AB,10}	<i>rgb</i> * _{AB,10}	<i>Code</i> _{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	0.27	1.682	-0.408	0.734	29.5	0.8	29.5	1.0	69.7	77.2	2.7	77.2	1.8	1.00	0.00	0.2	B89R		
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	28.8	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	28.9	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	1.638	-0.316	0.7	27.9	4.5	28.3	9.2	69.8	74.0	14.2	75.3	10.8	1.00	0.00	0.06	B96R		
016	48.5	0.48	0.294	1.632	-0.303	0.695	27.7	5.0	28.7	10.4	69.8	73.5	16.1	75.0	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	R01Y		
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	R02Y		
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	R04Y		
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	R05Y		
023	48.9	0.51	0.321	1.583	-0.208	0.673	26.0	9.0	27.7	19.1	70.1	69.2	31.7	75.6	24.2	1.00	0.06	0.00	R06Y		
024	48.9	0.514	0.326	1.575	-0.195	0.67	25.7	9.5	27.8	20.4	70.1	68.6	34.3	75.7	26.5	1.00	0.08	0.00	R07Y		
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	R09Y		
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	R11Y		
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	R12Y		
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	R14Y		
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	R15Y		
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	R17Y		
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	R18Y		
032	49.6	0.553	0.364	1.519	-0.089	0.664	23.7	14.0	27.6	30.6	70.5	63.5	59.7	87.1	43.5	1.00	0.2	0.00	R20Y		
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	89.4	45.8	1.00	0.23	0.00	R21Y		
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	0.23	0.00	R23Y		
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	R24Y		
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	R26Y		
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	R27Y		
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	R29Y		
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	R30Y		
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	118.8	133.2	64.9	1.00	0.31	0.00	R31Y		
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	159.4	169.0	70.5	1.00	0.33	0.00	R33Y		
042	49.4	0.604	0.426	1.416	0.029	0.655	20.7	20.3	29.0	44.7	72.5	54.5	175.2	183.5	72.7	1.00	0.34	0.00	R34Y		
043	49.5	0.603	0.431	1.397	0.032	0.644	20.4	20.9	29.2	45.7	73.1	53.0	183.4	199.0	73.8	1.00	0.36	0.00	R36Y		
044	49.3	0.6	0.434	1.381	0.032	0.633	20.0	21.3	29.3	46.7	73.7	51.7	184.9	192.0	74.3	1.00	0.37	0.00	R37Y		
045	49.3	0.595	0.435	1.366	0.028	0.62	19.8	21.6	29.3	47.5	74.3	50.5	180.9	187.8	74.4	1.00	0.39	0.00	R39Y		
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	R40Y		
047	48.2	0.582	0.434	1.341	0.015	0.584	19.3	21.9	29.2	48.5	75.6	48.4	160.8	167.7	74.2	1.00	0.42	0.00	R41Y		
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	R43Y		
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	R45Y		
050	52.1	0.566	0.433	1.306	0.0	0.559	18.6	22.3	29.1	50.1	77.3	45.3	133.1	140.6	71.1	1.00	0.46	0.00	R46Y		
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	R48Y		
052	53.8	0.561	0.438	1.281	0.0	0.543	17.9	23.1	29.2	52.1	78.3	42.9	134.7	141.4	72.3	1.00	0.49	0.00	R49Y		
053	54.6	0.559	0.44	1.269	0.0	0.536	17.5	23.4	29.2	53.1	78.8	41.8	135.4	141.7	72.8	1.00	0.51	0.00	R51Y		
054	55.3	0.557	0.442	1.259	0.0	0.53	17.2	23.7	29.3	54.0	79.2	40.7	135.9	141.9	73.3	1.00	0.52	0.00	R52Y		
055	56.0	0.555	0.444	1.248	0.0	0.523	16.8	24.0	29.3	54.9	79.6	39.6	136.6	142.2	73.8	1.00	0.53	0.00	R53Y		
056	56.8	0.552	0.446	1.237	0.0	0.517	16.4	24.3	29.4	55.9	80.0	38.4	137.2	142.5	74.1	1.00	0.55	0.00	R55Y		
057	57.5	0.55	0.448	1.227	0.0	0.511	16.0	24.7	29.4	56.9	80.5	37.3	137.8	142.8	74.8	1.00	0.56	0.00	R56Y		
058	58.3	0.548	0.45	1.216	0.0	0.505	15.6	25.0	29.5	57.7	80.9	36.1	138.4	143.1	75.3	1.00	0.58	0.00	R58Y		
059	59.1	0.546	0.453	1.205																	

rgb _{AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Elementary hue circle with 4 intended elementary hues h _{AB} : 10.8, 8.7, 2.8, 10 (Y): 55.9, 1.2, 19.6, 11 (G): 20.4, -6.8, 30, 12 (B): 7.8, -1.2, -7.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
no.	AB ₁₀	x ₁₀	y ₁₀	L ₁₀	a ₁₀	b ₁₀	c _{AB10}	A ₁₀	B ₁₀	C _{AB10}	h _{AB10}	L ₁₀	a ₁₀	b ₁₀	c _{AB10}	h _{AB10}	rgb _{AB}	AB ₁₀	Code	AB ₁₀																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
090	88.8	0.481	0.509	0.946	-0.007	0.422	-0.1	34.1	34.1	90.1	92.0	-0.2	138.8	138.8	90.0	0.94	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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> _{data} 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 inteded 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	1.593	-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	1.601	-0.291	0.668	27.3	5.7	27.9	11.8	70.6	71.4	18.0	73.6	14.2	0.00	1.00	0.61	G30B							
189	41.7	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	0.475	0.295	1.612	-0.308	0.675	27.6	5.0	28.0	10.2	70.6	72.2	15.5	73.8	12.0	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	1.621	-0.323	0.681	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	1.623	-0.326	0.681	27.9	4.2	28.2	8.7	70.5	73.0	13.0	74.1	10.0	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	G46B							
206	41.5	0.47	0.289	1.623	-0.33	0.682	28.0	4.1	28.3	8.3	70.5	73.2	12.4	74.2	9.6	0.00	1.00	0.95	G47B							
207	41.4	0.47	0.289	1.624	-0.332	0.683	28.0	4.0	28.3	8.1	70.5	73.3	12.1	74.3	9.4	0.00	1.00	0.97	G48B							
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	0.98	1.00	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	0.96	1.00	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	0.95	1.00	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	0.92	1.00	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	0.9	1.00	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	0.88	1.00	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	0.86	1.00	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	0.84	1.00	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	0.83	1.00	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	0.81	1.00	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	0.79	1.00	G60B							
220	41.3	0.462	0.282	1.64	-0.359	0.694	28.5	2.8	28.7	5.7	70.4	74.5	8.4	75.0	6.5	0.00	0.77	1.00	G61B							
221	41.3	0.462	0.282	1.64	-0.361	0.695	28.6	2.7	28.7	5.5	70.4	74.6	8.2	75.1	6.2	0.00	0.75	1.00	G62B							
222	41.3	0.462	0.281	1.641	-0.364	0.696	28.6	2.6	28.7	5.3	70.3	74.7	7.9	75.1	6.0	0.00	0.73	1.00	G63B							
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	0.71	1.00	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	0.69	1.00	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	0.67	1.00	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	0.65	1.00	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	0.63	1.00	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	0.61	1.00	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	0.59	1.00	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	0.57	1.00	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	0.56	1.00	G71B							
232	41.1	0.457	0.276	1.652	-0.384	0.706	29.0	1.8	29.0	3.6	70.3	75.7	5.3	75.8	4.0	0.00	0.54	1.00	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	0.52	1.00	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	0.5	1.00	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	0.48	1.00	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	0.46	1.00	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	0.44	1.00	G77B							
238	41.1	0.454	0.273	1.659	-0.397	0.712	29.2	1.3	29.2																	

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} 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 (R): h _{AB} = 18.2, 86.3, 156.2, 260.1 of L _{IN} YAB, and 90 intended hue angles:																			
270, 271, ..., 360, L _{IN} 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	q ₁₀	b ₁₀	C _{AB} 10	A ₁₀	B ₁₀	C _{AB} 10	h _{AB} 10	L* ₁₀	a* ₁₀	b* ₁₀	C _{AB} 10	h _{AB} 10	rgb _{AB}	AB ₁₀	Code	AB ₁₀
276	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	0080R
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	0080R
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	015R
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	0.253	1.709	-0.489	0.763	30.9	-2.4	31.0	355.5	69.9	80.2	-6.6	80.6	355.3	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	0.773	31.1	-3.0	31.2	354.4	69.7	80.9	-8.1	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	032R
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	81.4	-9.4	82.0	353.3	0.71	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	-0.53	0.789	31.6	-4.0	31.8	352.6	69.7	82.1	-10.7	82.8	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	-0.555	0.806	32.0	-5.0	32.4	351.0	69.6	83.1	-13.2	84.2	350.9	1.00	0.00	0.86	056R
328	40.2	0.421	0.241	1.745	-0.556	0.807	32.0	-5.1	32.4	350.9	69.6	83.2	-13.3	84.3	350.8	1.00	0.00	0.85	

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

rgb _{cab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																								
Yxy _{cabAB} ABC _{AB} LabC _{ab} h _{ab} data for relative spacing of elementary hue h _{ab} of CIELAB for CIE 2 degree observer																								
Elementary hue circle with 4 intended elementary hue angles: h _{ab} = 25.6, 92.4, 162.1, 271.5 of CIELAB, and 90 intended hue angles:																								
000, 001, ..., 089, CIELAB data of CIE test colours 9 (R): 40.0 58.9 28.3, 10 (Y): 81.3 -3.0 71.8, 11 (G): 52.2 -42.3 13.6, 12 (B): 30.5 1.2 -46.3																								
no.	ab	Y	x	y	a	b	c	ab	A	B	C _{ab}	h _{ab}	L*	a*	b*	C _{ab}	h _{ab}	rgb _{cab}	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	0.58	B70R				
001	40.7	0.445	0.257	1.73	-0.459	0.78	31.7	-0.9	31.8	358.2	70.0	81.9	-2.6	81.9	358.1	1.00	0.00	0.55	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	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	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	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	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	0.44	B77R				
007	40.8	0.461	0.271	1.698	-0.394	0.749	30.6	1.6	30.6	3.4	70.0	79.2	4.8	79.4	3.4	1.00	0.00	0.42	0.42	B78R				
008	40.8	0.463	0.273	1.693	-0.383	0.743	30.4	2.0	30.4	4.6	70.0	78.7	6.1	78.9	4.4	1.00	0.00	0.39	0.39	B79R				
009	40.9	0.466	0.276	1.688	-0.372	0.74	30.1	2.5	30.3	4.8	70.1	78.3	7.5	78.7	5.4	1.00	0.00	0.37	0.37	B81R				
010	40.9	0.469	0.278	1.683	-0.361	0.736	29.9	3.0	30.1	5.7	70.1	77.9	8.9	78.4	6.5	1.00	0.00	0.35	0.35	B82R				
011	40.9	0.471	0.281	1.677	-0.35	0.732	29.7	3.4	29.9	6.6	70.1	77.4	10.3	78.1	7.5	1.00	0.00	0.33	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	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	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	0.26	B86R				
015	41.1	0.483	0.291	1.656	-0.308	0.717	28.9	5.2	29.4	10.2	70.1	75.5	16.2	77.3	12.1	1.00	0.00	0.24	0.24	B87R				
016	41.0	0.486	0.294	1.65	-0.297	0.713	28.7	5.7	29.3	11.1	70.1	75.0	17.7	77.1	13.3	1.00	0.00	0.22	0.22	B89R				
017	41.0	0.489	0.297	1.646	-0.286	0.711	28.5	6.1	29.2	12.0	70.2	74.6	19.2	77.1	14.4	1.00	0.00	0.19	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	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	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	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	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	0.08	B95R				
023	41.1	0.507	0.314	1.616	-0.226	0.697	27.4	8.6	28.6	17.4	70.2	72.0	29.1	77.6	22.0	1.00	0.00	0.06	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	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	0.01	B99R				
026	41.2	0.517	0.322	1.601	-0.198	0.693	26.8	9.7	28.5	20.0	70.3	70.7	34.3	78.6	25.9	1.00	0.0	0.00	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	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	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	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	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	0.00	R08Y				
032	41.4	0.54	0.342	1.576	-0.136	0.694	25.8	12.2	28.6	25.5	70.4	68.4	47.8	83.5	34.9	1.00	0.09	0.00	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	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	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	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	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	0.00	R16Y				
038	41.4	0.56	0.36	1.554	-0.087	0.697	25.0	14.4	28.9	29.9	70.5	66.4	61.7	90.7	42.9	1.00	0.18	0.00	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	44.0	1.00	0.19	0.00	0.00	R19Y				
040	41.5	0.565	0.365	1.547	-0.074	0.697	24.8	14.9	28.9	31.2	70.5	65.8	66.3	93.2	45.1	1.00	0.21	0.00	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	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	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	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	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	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	0.00	R30Y				
047	41.6	0.581	0.381	1.525	-0.039	0.698	23.9																	

rgb _{ab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																										
Yxy, cab _{AB} , ABC _{AB} , LabC _{ab} h _{ab} data for relative spacing of elementary hue h _{ab} of CIELAB for CIE 2 degree observer																										
Elementary hue circle with 4 intended elementary hue angles: h _{ab} = 25.6, 92.4, 162.1, 271.5 of CIELAB, and 90 intended hue angles:																										
0.901, ..., 179, CIELAB data of CIE test colours 9 (R): 40.0 58.9 28.3, 10 (Y): 81.3 -3.0 71.8, 11 (G): 52.2 -42.3 13.6, 12 (B): 30.5 1.2 -46.3																										
no.	ab	Y	x	y	a	b	c	ab	A	B	C _{ab}	h _{ab}	L*	a*	b*	C _{ab}	h _{ab}	rgb _{ab}	Code _{ab}							
990	80.7	0.483	0.509	0.938	-0.005	0.43	-0.1	34.7	34.7	90.3	92.0	-0.3	143.4	143.4	90.1	1.00	0.96	0.00	% R95Y							
991	81.9	0.479	0.512	0.935	-0.005	0.43	-1.2	35.2	35.2	92.0	92.5	-2.5	144.0	143.0	91.0	1.00	0.97	0.00	% R97Y							
992	83.5	0.474	0.516	0.919	-0.006	0.43	-2.6	35.8	35.9	94.1	93.2	-5.2	142.2	142.3	92.1	1.00	0.99	0.00	% R99Y							
993	84.8	0.47	0.519	0.906	-0.007	0.43	-3.7	36.3	36.5	95.8	93.8	-7.4	140.8	141.0	93.0	0.99	1.00	0.00	% R90G							
994	86.0	0.466	0.522	0.893	-0.008	0.43	-4.8	36.7	37.0	97.5	94.3	-9.6	138.9	139.2	93.9	0.97	1.00	0.00	% R92G							
995	87.3	0.462	0.524	0.881	-0.009	0.431	-6.0	37.1	37.6	99.2	94.8	-11.9	136.8	137.3	94.9	0.96	1.00	0.00	% R93G							
996	88.6	0.457	0.526	0.868	-0.011	0.432	-7.2	37.5	38.2	100.9	95.9	-14.1	134.5	135.3	96.0	0.94	1.00	0.00	% R95G							
997	89.8	0.453	0.528	0.857	-0.027	0.431	-8.3	37.9	38.8	102.6	95.9	-16.3	132.3	133.3	96.0	0.93	1.00	0.00	% R96G							
998	91.3	0.448	0.530	0.846	-0.015	0.432	-9.4	38.5	39.4	104.4	96.0	-18.6	130.0	131.0	96.0	0.91	1.00	0.00	% R97G							
999	92.0	0.444	0.53	0.836	-0.018	0.432	-10.4	38.8	39.7	105.2	96.8	-20.2	126.4	128.0	96.0	0.9	1.00	0.00	% R98G							
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	% Y10G							
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	% Y12G							
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	% Y13G							
103	92.9	0.429	0.534	0.804	-0.027	0.434	-13.6	37.9	40.3	109.7	97.2	-26.2	117.9	120.8	102.6	0.84	1.00	0.00	% Y15G							
104	92.5	0.426	0.536	0.794	-0.027	0.436	-14.4	37.9	40.3	110.8	97.0	-28.2	117.3	120.6	103.5	0.83	1.00	0.00	% Y16G							
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	% Y18G							
106	91.5	0.421	0.541	0.775	-0.028	0.443	-16.0	37.2	40.6	113.2	96.4	-31.8	115.9	120.5	105.3	0.79	1.00	0.00	% Y19G							
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	0.78	1.00	0.00	% Y20G							
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	% Y22G							
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	% Y23G							
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	% Y25G							
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	% Y26G							
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	112.1	120.5	111.4	0.71	1.00	0.00	% Y28G							
113	87.8	0.393	0.561	0.701	-0.032	0.474	-21.9	35.4	41.7	121.6	95.1	-46.1	110.4	120.5	112.5	0.70	1.00	0.00	% Y30G							
114	87.2	0.389	0.564	0.69	-0.032	0.479	-22.7	35.2	41.8	122.8	95.0	-48.3	110.0	120.8	113.5	0.69	1.00	0.00	% Y32G							
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	% Y32G							
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	% Y33G							
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	% Y35G							
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	% Y36G							
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	% Y38G							
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	% Y39G							
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	% Y40G							
122	82.6	0.355	0.589	0.603	-0.037	0.528	-28.7	32.9	43.6	131.4	92.9	-65.9	104.9	124.0	122.1	0.57	1.00	0.00	% Y42G							
123	82.0	0.351	0.592	0.592	-0.037	0.535	-29.3	32.6	43.9	131.9	92.5	-68.2	104.3	124.6	123.1	0.56	1.00	0.00	% Y43G							
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	% Y45G							
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	% Y46G							
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	% Y48G							
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	% Y49G							
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	% Y50G							
129	78.6	0.325	0.61	0.532	-0.042	0.574	-32.8	30.9	45.1	136.7	91.0	-81.0	99.8	128.6	128.0	0.47	1.00	0.00	% Y51G							
130	78.0	0.321	0.613	0.523	-0.042	0.581	-33.5	30.6	45.3	137.5	90.8	-83.9	98.8	134.3	133.0	0.46	1.00	0.00	% Y53G							
131	76.9	0.312	0.617	0.506	-0.045	0.591	-34.1	30.0	45.4	138.6	90.2	-86.7	97.2	139.2	137.7	0.44	1.00	0.00	% Y55G							
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	% Y56G							
133	75.3	0.301	0.623	0.483	-0																					

rgb _{cab} and CIE data of a elementary hci color according to CIE R1-47 for Ostwald colours for CIE illuminant D65																			
Yxy, cab _{AB} , ABC _{AB} , LabC _{ab} h _{ab} data for relative spacing of elementary hci h _{ab} of CIELAB for CIE 2 degree observer																			
Elementary hci color with 4 different elementary hci angles: h _{ab} = 25.6, 92.4, 162.1, 271.5 of CIELAB, and 90 integer 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	1.5	100.9		179.0	0.00	1.00	0.32 G168
181	59.1	0.168	0.397	0.422	-0.436	0.528	-31.2	0.8	31.2	180.0	81.3	-99.4	0.0	99.4		180.0	0.00	1.00	0.34 G178
182	59.1	0.167	0.391	0.427	-0.449	0.522	-30.9	-0.8	30.9	181.5	81.3	-98.0	-1.7	98.0		181.0	0.00	1.00	0.36 G188
183	59.1	0.167	0.386	0.433	-0.462	0.517	-30.5	-1.6	30.5	183.0	81.3	-96.5	-3.4	96.6		182.0	0.00	1.00	0.38 G198
184	59.0	0.167	0.38	0.439	-0.476	0.512	-30.1	-2.4	30.2	184.5	81.3	-95.0	-5.0	95.2		183.0	0.00	1.00	0.39 G198
185	59.0	0.166	0.374	0.445	-0.489	0.507	-29.8	-3.2	29.9	186.1	81.3	-93.6	-6.7	93.8		184.0	0.00	1.00	0.41 G208
186	59.0	0.166	0.368	0.451	-0.503	0.503	-29.4	-4.0	29.7	187.8	81.3	-92.1	-8.1	92.5		185.1	0.00	1.00	0.43 G218
187	58.9	0.166	0.363	0.457	-0.517	0.495	-29.0	-4.8	29.4	189.8	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	81.1	-89.2	-11.5	89.5		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	0.163	0.318	0.513	-0.646	0.483	-25.6	-12.4	28.4	205.8	81.1	-77.4	-23.6	80.8		196.9	0.00	1.00	0.61 G308
197	58.5	0.163	0.315	0.52	-0.66	0.485	-25.2	-13.1	28.4	207.6	81.0	-76.1	-24.9	80.1		198.1	0.00	1.00	0.63 G318
198	58.5	0.163	0.311	0.525	-0.673	0.486	-24.8	-13.9	28.4	209.2	81.0	-74.8	-26.1	79.2		199.2	0.00	1.00	0.65 G328
199	58.4	0.163	0.308	0.531	-0.685	0.488	-24.4	-14.6	28.5	210.8	80.9	-73.6	-27.3	78.5		200.3	0.00	1.00	0.67 G338
200	58.3	0.163	0.304	0.536	-0.697	0.489	-24.1	-15.2	28.5	212.3	80.9	-72.4	-28.3	77.8		201.3	0.00	1.00	0.69 G348
201	58.3	0.163	0.302	0.541	-0.707	0.491	-23.8	-15.8	28.6	213.6	80.9	-71.4	-29.3	77.1		202.3	0.00	1.00	0.71 G358
202	58.3	0.163	0.299	0.546	-0.716	0.492	-23.5	-16.3	28.7	214.8	80.9	-70.4	-30.1	76.6		203.1	0.00	1.00	0.72 G368
203	58.3	0.163	0.297	0.551	-0.725	0.493	-23.2	-16.8	28.7	216.0	80.8	-69.5	-30.9	76.1		204.0	0.00	1.00	0.73 G378
204	58.2	0.163	0.295	0.554	-0.734	0.495	-23.0	-17.2	28.7	217.1	80.8	-68.6	-31.6	75.6		204.9	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	217.6	80.8	-68.0	-32.1	75.2		205.3	0.00	1.00	0.78 G398
206	58.6	0.164	0.292	0.563	-0.741	0.493	-22.6	-17.9	28.9	218.3	81.1	-66.9	-32.5	74.3		205.9	0.00	1.00	0.8 G408
207	57.5	0.162	0.289	0.562	-0.756	0.503	-22.3	-18.4	28.9	219.6	80.9	-66.6	-33.6	74.6		206.7	0.00	1.00	0.82 G418
208	56.2	0.16	0.286	0.561	-0.773	0.515	-22.1	-19.0	28.9	221.0	79.7	-66.3	-34.8	74.9		207.7	0.00	1.00	0.83 G418
209	54.9	0.158	0.282	0.56	-0.792	0.528	-21.4	-19.6	29.0	222.5	78.9	-66.0	-36.2	75.3		208.7	0.00	1.00	0.85 G428
210	53.5	0.155	0.278	0.559	-0.813	0.543	-20.9	-20.2	29.0	224.0	78.1	-65.6	-37.6	75.6		209.7	0.00	1.00	0.87 G438
211	52.0	0.153	0.274	0.558	-0.835	0.55	-20.4	-20.8	29.1	225.6	77.3	-65.2	-39.0	76.0		210.8	0.00	1.00	0.89 G448
212	50.7	0.15	0.269	0.557	-0.858	0.569	-19.9	-21.4	29.2	227.1	76.4	-64.5	-40.4	76.6		211.9	0.00	1.00	0.91 G458
213	49.3	0.148	0.265	0.557	-0.881	0.594	-19.4	-22.0	29.3	228.5	75.6	-64.4	-41.8	76.8		213.0	0.00	1.00	0.92 G468
214	48.2	0.146	0.262	0.558	-0.902	0.609	-18.9	-22.5	29.4	229.9	74.9	-63.7	-43.0	76.9		214.0	0.00	1.00	0.94 G478
215	47.2	0.144	0.258	0.559	-0.921	0.623	-18.4	-22.9	29.4	231.2	74.3	-63.0	-44.2	76.9		215.0	0.00	1.00	0.96 G488
216	46.2	0.143	0.255	0.561	-0.94	0.637	-17.9	-23.3	29.4	232.3	73.7	-62.1	-45.2	76.9		216.0	0.00	1.00	0.98 G498
217	45.4	0.142	0.252	0.564	-0.958	0.65	-17.5	-23.7	29.5	233.5	73.1	-61.3	-46.2	76.7		216.9	0.00	0.99	1.00 G508
218	44.5	0.141	0.249	0.566	-0.976	0.662	-17.0	-24.0	29.5	234.6	72.6	-60.4	-47.1	76.6		217.9	0.00	0.97	1.00 G518
219	43.7	0.14	0.246	0.569	-0.993	0.675	-16.6	-24.4	29.5	235.6	72.0	-59.5	-48.0	76.5		218.8	0.00	0.96	1.00 G528
220	43.0	0.139	0.243	0.569	-1.011	0.687	-16.2	-24.8	29.6	236.6	71.4	-58.6	-48.9	76.4		219.7	0.00	0.95	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	74.6		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	0.63	1.00 G688
238	32.3	0.129	0.199	0.651	-1.344	0.956	-9.6	-29.3	30.9	251.7	63.5	-40.6	-62.5	74.6		236.9	0.00	0.61	1.00 G698
239	31.8	0.129	0.197	0.656	-1.363	0.973	-9.3	-29.5	30.9</										

rgb* _{ab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																			
Yxy, cab _{AB} , ABC _{AB} , LabC* _{ab} h _{ab} data for relative spacing of elementary hue h _{ab} of CIELAB for CIE 2 degree observer																			
Elementary hue circle with 4 intended elementary hue angles: h _{ab} = 25.6, 92.4, 162.1, 271.5 of CIELAB, and 90 intended hue angles:																			
270, 271, ..., 360, CIELAB data of CIE test colours 9 (R): 40.0 58.9 28.3, 10 (Y): 81.3 -3.0 71.8, 11 (G): 52.2 -42.3 13.6, 12 (B): 30.5 1.2 -46.3																			
no.	ab	Y	x	y	a	b	c	ab	A	B	C _{ab}	h _{ab}	L*	a*	b*	C* _{ab}	h _{ab}	rgb*	Code _{ab}
276	19.2	0.127	0.132	0.961	-2.238	1.893	0.2	-34.7	34.7	270.3	51.0	1.1	-83.8	83.8	270.7	0.00	0.02	1.00	0.998
277	18.9	0.127	0.133	0.974	-2.272	1.837	0.4	-34.8	34.8	270.7	50.6	2.4	-84.4	84.4	271.6	0.00	0.0	1.00	0.998
272	18.6	0.127	0.128	0.987	-2.307	1.817	0.6	-34.9	34.9	271.1	50.3	3.7	-84.4	85.0	272.4	0.0	0.00	1.00	0.90R
273	18.4	0.127	0.127	1.0	-2.341	1.906	0.9	-35.0	35.1	271.5	49.9	4.9	-85.5	85.6	273.3	0.02	0.00	1.00	0.80R
274	18.1	0.127	0.125	1.014	-2.375	1.94	1.1	-35.1	35.2	271.8	49.6	6.1	-86.6	86.2	274.1	0.04	0.00	1.00	0.80R
275	17.8	0.127	0.123	1.03	-2.419	1.985	1.4	-35.3	35.3	272.3	49.2	7.7	-86.7	87.1	275.0	0.06	0.00	1.00	0.80R
276	17.4	0.127	0.121	1.05	-2.471	2.038	1.7	-35.4	35.5	272.8	48.7	9.5	-87.5	88.0	276.1	0.07	0.00	1.00	0.80R
277	0.4	0.127	0.119	1.087	-2.521	2.093	2.0	-35.6	35.6	273.2	48.3	11.1	-88.2	88.9	277.2	0.09	0.00	1.00	0.80R
278	16.7	0.127	0.117	1.089	-2.578	2.139	2.3	-35.7	35.8	273.7	47.9	12.8	-89.0	89.2	278.2	0.11	0.00	1.00	0.80R
279	16.4	0.128	0.115	1.088	-2.618	2.188	2.6	-35.8	35.9	274.1	47.5	14.4	-89.6	90.7	279.1	0.13	0.00	1.00	0.80R
280	16.1	0.128	0.113	1.088	-2.667	2.238	2.8	-35.9	36.1	274.5	47.1	16.0	-90.3	91.7	280.0	0.14	0.00	1.00	0.80R
281	15.8	0.128	0.111	1.149	-2.717	2.29	3.1	-36.1	36.2	274.9	46.7	17.6	-90.9	92.6	280.9	0.16	0.00	1.00	0.80R
282	15.5	0.128	0.109	1.171	-2.769	2.344	3.4	-36.2	36.3	275.4	46.3	19.3	-91.6	93.6	281.9	0.18	0.00	1.00	0.80R
283	15.1	0.129	0.107	1.195	-2.826	2.403	3.7	-36.3	36.5	275.8	45.8	21.2	-92.3	94.7	282.9	0.2	0.00	1.00	0.80R
284	14.8	0.129	0.105	1.222	-2.888	2.468	4.0	-36.4	36.6	276.3	45.4	23.1	-93.0	95.9	283.9	0.21	0.00	1.00	0.80R
285	14.4	0.129	0.103	1.252	-2.96	2.542	4.3	-36.5	36.8	276.8	44.9	25.3	-93.9	97.2	285.0	0.23	0.00	1.00	0.80R
286	14.0	0.129	0.101	1.281	-3.038	2.618	4.6	-36.6	37.0	277.3	44.5	27.4	-94.6	98.5	286.1	0.25	0.00	1.00	0.80R
287	13.7	0.13	0.098	1.322	-3.121	2.712	5.0	-36.8	37.1	277.8	43.8	29.9	-95.7	100.2	287.3	0.27	0.00	1.00	0.80R
288	13.3	0.13	0.096	1.36	-3.21	2.804	5.4	-36.9	37.3	278.3	43.2	32.4	-96.6	101.9	288.5	0.28	0.00	1.00	0.80R
289	12.9	0.131	0.093	1.4	-3.303	2.902	5.8	-37.0	37.5	278.9	42.6	34.8	-97.5	103.6	289.6	0.3	0.00	1.00	0.80R
290	12.5	0.131	0.091	1.442	-3.401	3.005	6.1	-37.2	37.7	279.4	42.0	37.3	-98.5	105.3	290.7	0.32	0.00	1.00	0.80R
291	12.1	0.132	0.088	1.486	-3.503	3.114	6.5	-37.3	37.8	279.9	41.4	39.8	-99.4	107.1	291.8	0.34	0.00	1.00	0.80R
292	11.7	0.132	0.086	1.532	-3.609	3.226	6.8	-37.4	38.0	280.3	40.8	42.3	-100.4	108.9	292.8	0.35	0.00	1.00	0.80R
293	11.3	0.133	0.084	1.58	-3.72	3.343	7.2	-37.5	38.2	280.8	40.3	44.8	-101.3	110.8	293.8	0.37	0.00	1.00	0.80R
294	11.0	0.133	0.081	1.628	-3.833	3.465	7.5	-37.6	38.4	281.3	39.9	47.2	-102.2	112.6	294.8	0.39	0.00	1.00	0.80R
295	10.7	0.133	0.079	1.68	-3.95	3.589	7.8	-37.7	38.5	281.7	39.1	49.7	-103.1	114.5	295.7	0.41	0.00	1.00	0.80R
296	10.4	0.134	0.077	1.732	-4.069	3.716	8.1	-37.8	38.7	282.1	38.5	52.1	-104.0	116.4	296.6	0.42	0.00	1.00	0.80R
297	10.1	0.134	0.075	1.785	-4.19	3.846	8.4	-37.9	38.8	282.5	38.0	54.4	-104.9	118.2	297.4	0.44	0.00	1.00	0.80R
298	9.8	0.135	0.073	1.839	-4.312	3.977	8.7	-38.0	39.0	282.9	37.4	56.7	-105.8	120.0	298.2	0.46	0.00	1.00	0.80R
299	9.4	0.135	0.071	1.906	-4.465	4.114	9.0	-38.1	39.1	283.3	36.8	59.4	-106.8	122.2	299.1	0.48	0.00	1.00	0.80R
300	8.9	0.136	0.067	2.013	-4.707	4.401	9.5	-38.2	39.3	283.8	35.8	63.6	-108.3	125.6	300.4	0.49	0.00	1.00	0.80R
301	8.5	0.136	0.064	2.12	-4.925	4.737	9.8	-38.3	39.5	284.5	35.0	67.1	-109.5	128.4	301.4	0.51	0.00	1.00	0.80R
302	8.1	0.137	0.062	2.202	-5.123	4.852	10.2	-38.3	39.6	285.0	34.0	70.4	-110.6	131.2	302.4	0.53	0.00	1.00	0.80R
303	7.8	0.138	0.06	2.287	-5.31	5.055	10.5	-38.3	39.8	285.3	33.7	72.9	-111.5	133.2	303.1	0.55	0.00	1.00	0.80R
304	7.2	0.136	0.056	2.409	-5.715	5.477	10.6	-38.5	39.9	285.4	32.4	75.9	-113.5	136.5	303.7	0.56	0.00	1.00	0.80R
305	6.4	0.131	0.05	2.589	-6.422	6.297	10.5	-38.7	40.1	285.3	30.5	79.6	-116.5	141.1	304.3	0.58	0.00	1.00	0.80R
306	6.0	0.131	0.047	2.758	-6.887	6.7	10.8	-38.7	40.2	285.6	29.4	83.4	-118.2	144.7	305.2	0.6	0.00	1.00	0.80R
307	6.0	0.138	0.048	2.878	-6.779	6.629	11.7	-38.5	40.2	286.9	29.5	87.7	-117.6	146.7	306.7	0.62	0.00	1.00	0.80R
308	6.4	0.146	0.05	2.886	-6.338	6.212	12.5	-38.2	40.2	288.1	30.5	90.0	-115.7	146.6	307.8	0.63	0.00	1.00	0.80R
309	6.8	0.153	0.053	2.876	-5.951	5.844	13.2	-38.0	40.2	289.2	31.5	91.3	-114.0	146.1	308.7	0.65	0.00	1.00	0.80R
310	7.1	0.156	0.052	2.856	-5.572	5.437	13.9	-37.8	40.2	290.3	32.4	92.5	-112.2	145.6	309.7	0.67	0.00	1.00	0.80R
311	7.8	0.168	0.059	2.836	-5.207	5.13	14.8	-37.5	40.3	291.5	33.7	94.1	-110.2	145.0	310.5	0.69	0.00	1.00	0.80R
312	8.4	0.176	0.062	2.815	-4.857	4.799	15.7	-37.2	40.4	292.8	34.8	95.6	-108.2	144.3	311.4	0.7	0.00	1.00	0.80R
313	9.0	0.184	0.066	2.794	-4.527	4.487	16.6	-36.9	40.5	294.2	36.0	97.0	-106.0	143.7	312.4	0.72	0.00	1.00	0.80R
314	9.6	0.193	0.069	2.771	-4.215	4.196	17.6	-36.6	40.6	295.7	37.2	98.4	-103.8	143.1	313.4	0.74	0.00	1.00	0.80R
315	10.3	0.202	0.073	2.748	-3.925	3.925	18.6	-36.2	40.7	297.2	38.5	99.8	-101.8	142.4	314.4	0.76	0.00	1.00	0.80R
316	11.1	0.211	0.077	2.724	-3.654	3.675	19.7	-35.8	40.9	298.8	39.8	101.1	-99.3	141.8	315.5	0.77	0.00	1.00	0.80R
317	11.9	0.221	0.081	2.7	-3.405	3.446	20.9	-35.4	41.2	300.5	41.1	102.5	-96.0	141.1	316.5	0.78	0.00	1.00	0.80R
318	12.8	0.23	0.086	2.676	-3.174	3.237	22.1	-35.0	41.4	302.2	42.4	103.8	-94.4	140.5	317.6	0.81	0.00	1.00	0.80R
319	13.7	0.239	0.09	2.652	-2.963	3.047	23.3	-34.6	41.7	303.9	43.8	105.1	-92.2	139.9	318.7	0.83	0.00	1.00	0.80R
320	14.6	0.249	0.094	2.628	-2.769	2.874	24.5	-34.1	42.1	305.7	45.1	106.4	-89.8	139.3	319.8	0.84	0.00	1.00	0.80R
321	15.6	0.258	0.099	2.605	-2.592	2.718	25.8	-33.7	42.4	307.5	46.4	107.6	-87.5	138.7	320.8	0.86	0.00	1.00	0.80R
322	16.6	0.267	0.103	2.582	-2.431	2.578	27.1	-33.2	42.9	309.2	47.8	108.7	-85.1	138.1	321.9	0.88	0.00	1.00	0.80R
323	17.6	0.276	0.107	2.56	-2.284	2.511	28.4	-32.7	43.3	311.0	49.1	109.8	-82.8	137.5	322.9	0.9	0.00	1.00	0.80R
324	18.7	0.284	0.112	2.538	-2.151	2.337	29.8	-32.2	43.8	312.7	50.4	110.9	-80.4	137.0	324.0	0.91	0.00	1.00	0.80R
325	19.8	0.292	0.116	2.516	-2.03	2.235	31.1	-31.6	44.4	314.4	51.6	111.8	-78.2	136.5	325.0	0.93	0.00	1.00	0.80R
326	20.9	0.3	0.12	2.496	-1.922	2.143	32.4	-31.1	44.9	316.1	52.9	112.7	-76.0	136	326.0	0.95	0.00	1.00	0.80R
327	23.0	0.313	0.128	2.442	-1.739	1.981	34.4	-30.0	45.7	318.5	55.1	113.3	-71.9	134.2	327.6	0.97	0.00	1.00	0.80R
328	25.2	0.324	0.136	2.379	-1.582	1.832	36.0	-28.9	46.2	321.2	57.2	113.0	-67.9						

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										VE480-7X			

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 39.6 intended hue angles:																									
000, 001, ..., 098, 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}	no. _{ab}	x ₁₀	y ₁₀	a ₁₀	b ₁₀	C _{ab} 10.9	A ₁₀	B ₁₀	C _{ab} 10.9	h _{AB} 10	L _Y	a*	b*	C _{ab} 10.9	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	B75R
001	40.0	0.45	0.259	1.734	-0.445	0.786	31.4	-0.6	31.4	358.8	69.4	82.2	-1.8	82.2	358.7	1.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	B76R
002	40.0	0.454	0.262	1.731	-0.432	0.783	31.3	-0.1	31.3	359.7	69.5	81.9	-0.3	81.9	359.7	1.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	B77R
003	40.0	0.457	0.264	1.728	-0.419	0.78	31.2	0.3	31.2	0.7	69.5	81.7	1.1	81.7	0.7	1.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	B78R
004	40.0	0.461	0.267	1.725	-0.406	0.778	31.1	0.9	31.1	1.6	69.5	81.4	2.6	81.4	1.8	1.00	0.00	0.4	0.00	0.00	0.00	0.00	0.00	0.00	B79R
005	40.0	0.464	0.269	1.722	-0.393	0.775	31.0	1.4	31.0	2.6	69.5	81.1	4.2	81.3	2.9	1.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	B80R
006	40.0	0.468	0.272	1.719	-0.38	0.773	30.9	1.9	30.9	3.6	69.5	80.9	5.7	81.1	4.0	1.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	B81R
007	40.0	0.472	0.275	1.716	-0.367	0.77	30.7	2.4	30.8	4.5	69.5	80.6	7.4	80.9	5.2	1.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	B82R
008	40.0	0.477	0.277	1.713	-0.356	0.768	30.6	2.9	30.8	5.5	69.5	80.3	9.2	80.7	6.4	1.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	B83R
009	40.1	0.479	0.28	1.709	-0.342	0.766	30.5	3.5	30.7	6.5	69.5	80.0	10.7	80.7	7.6	1.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	B84R
010	40.1	0.483	0.283	1.706	-0.329	0.764	30.4	4.0	30.6	7.5	69.5	79.7	12.4	80.7	8.8	1.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	B85R
011	40.1	0.487	0.286	1.702	-0.316	0.762	30.2	4.5	30.6	8.4	69.5	79.4	14.2	80.7	10.1	1.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	B86R
012	40.1	0.491	0.289	1.699	-0.304	0.761	30.1	5.0	30.5	9.4	69.5	79.1	15.9	80.7	11.4	1.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	B87R
013	40.1	0.494	0.291	1.695	-0.292	0.759	30.0	5.5	30.5	10.4	69.5	78.8	17.7	80.8	12.7	1.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	B88R
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	B88R
015	40.2	0.502	0.297	1.687	-0.268	0.757	29.7	6.4	30.4	12.2	69.5	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	B89R
016	40.2	0.506	0.299	1.683	-0.256	0.756	29.6	6.9	30.4	13.2	69.5	77.9	23.2	81.2	16.5	1.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	B90R
017	40.2	0.51	0.303	1.68	-0.244	0.754	29.4	7.4	30.3	14.1	69.6	77.5	25.2	81.5	18.0	1.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	B91R
018	40.2	0.514	0.306	1.676	-0.233	0.753	29.3	7.8	30.3	15.0	69.6	77.2	27.1	81.8	19.3	1.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	B92R
019	40.2	0.517	0.309	1.672	-0.222	0.752	29.1	8.3	30.3	15.9	69.6	76.8	29.0	82.1	20.6	1.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	B93R
020	40.3	0.521	0.312	1.667	-0.211	0.752	29.0	8.7	30.3	16.8	69.6	76.5	30.9	82.5	22.0	1.00	0.00	0.1	0.00	0.00	0.00	0.00	0.00	0.00	B94R
021	40.3	0.525	0.315	1.663	-0.201	0.751	28.8	9.1	30.2	17.6	69.7	76.1	32.9	82.9	23.4	1.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	B95R
022	40.3	0.528	0.318	1.659	-0.191	0.75	28.7	9.6	30.2	18.5	69.7	75.8	34.9	83.4	24.7	1.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	B96R
023	40.3	0.532	0.321	1.655	-0.181	0.749	28.6	10.0	30.2	19.3	69.7	75.5	36.9	84.0	26.0	1.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	B97R
024	40.4	0.534	0.324	1.651	-0.171	0.748	28.4	10.5	30.2	20.1	69.7	75.0	38.9	84.4	27.3	1.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	B98R
025	40.4	0.539	0.327	1.646	-0.162	0.748	28.2	10.8	30.2	20.9	69.7	74.7	41.0	85.2	28.7	1.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	B99R
026	40.4	0.542	0.33	1.642	-0.152	0.747	28.1	11.1	30.2	21.7	69.8	74.3	43.0	85.9	30.0	1.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	R00Y
027	40.5	0.546	0.333	1.638	-0.143	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	R01Y
028	40.5	0.549	0.336	1.633	-0.135	0.745	27.7	11.9	30.2	23.1	69.8	73.5	47.1	87.4	32.6	1.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R03Y
029	40.5	0.552	0.339	1.629	-0.127	0.745	27.6	12.2	30.2	23.8	69.8	73.2	49.2	88.2	33.9	1.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R05Y
030	40.5	0.555	0.342	1.624	-0.119	0.744	27.4	12.5	30.2	24.5	69.8	72.8	51.3	89.1	35.1	1.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R06Y
031	40.6	0.558	0.344	1.62	-0.112	0.743	27.3	12.8	30.2	25.2	69.9	72.4	53.4	90.0	36.4	1.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R08Y
032	40.7	0.561	0.347	1.615	-0.104	0.742	27.1	13.1	30.2	25.9	69.9	72.0	55.5	90.9	37.6	1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R09Y
033	40.7	0.564	0.35	1.611	-0.097	0.741	26.9	13.4	30.1	26.5	69.9	71.6	57.6	91.9	38.8	1.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R11Y
034	40.7	0.566	0.352	1.606	-0.091	0.74	26.8	13.7	30.1	27.1	69.9	71.2	59.8	93.0	40.0	1.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R13Y
035	40.7	0.569	0.355	1.602	-0.084	0.739	26.6	14.0	30.1	27.7	70.0	70.8	61.9	94.1	41.1	1.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R14Y
036	40.8	0.571	0.357	1.597	-0.078	0.738	26.5	14.3	30.1	28.3	70.0	70.4	64.0	95.2	42.2	1.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R16Y
037	40.8	0.573	0.36	1.592	-0.072	0.736	26.3	14.5	30.0	28.9	70.0	70.0	66.2	96.3	43.3	1.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R18Y
038	40.9	0.576	0.362	1.588	-0.067	0.735	26.1	14.8	30.0	29.4	70.1	69.6	68.3	97.5	44.4	1.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R19Y
039	40.9	0.578	0.365	1.583	-0.062	0.733	26.0	15.0	30.0	30.0	70.1	69.2	70.5	98.5	45.5	1.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R21Y
040	40.9	0.58	0.367	1.578	-0.057	0.732	25.9	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	R23Y
041	41.0	0.581	0.369	1.574	-0.052	0.73	25.6	15.4	29.9	31.0	70.1	68.4	74.8	101.3	47.5	1.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R24Y
042	41.0	0.583	0.371	1.569	-0.048	0.728	25.5	15.6	29.9	31.5	70.2	67.9	76.9	102.6	48.5	1.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R26Y
043	41.1	0.584	0.373	1.564	-0.044	0.727	25.3	15.8	29.9	31.9	70.2	67.5	79.0	104.0	49.4	1.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R27Y
044	41.1	0.586	0.375	1.56	-0.04	0.725	25.1	16.0	29.8	32.4	70.2	67.1	81.2	105.3	50.4	1.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	R29Y
045	41.2	0.587	0.377	1.555	-0.036	0.723	25.0	16.1	29.8	32.8															

rgb _{cab} and CIE data of a elementary hue circle corresponding to CIE R1-47 for Ostwald colours for CIE illuminant D65																											
Yxy, cab _{AB} , ABC _{AB} , LabC _{ab} h _{ab} data for relative spacing of elementary hue h _{ab} of CIELAB for CIE 10 degree observer																											
Elementary hue circle with 4 intended elementary hues 9 (R): 39.5, 45.5, 26.4, 10 (Y): 79.5, 3.2, 71.0, 11 (G): 52.3 – 39.6, 15, 12 (B): 33.6 – 12.8 – 39.9																											
090, 091, ..., 179, CIELAB data of CIE test colours 9 (R): 39.5, 45.5, 26.4, 10 (Y): 79.5, 3.2, 71.0, 11 (G): 52.3 – 39.6, 15, 12 (B): 33.6 – 12.8 – 39.9																											
no.	cab	x ₁₀	y ₁₀	q ₁₀	b ₁₀	C _{ab} 10	A ₁₀	B ₁₀	C _{AB} 10	h _{AB} 10	L _Y	a*	b*	C _{ab} 10	h _{ab} 10	rgb _{ab} 10	Code _{ab} 10										
090	86.6	0.482	0.508	0.9349	-0.006	0.423	0.0	34.1	34.1	89.8	91.9	0.1	140.3	140.3	89.9	0.96	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y03G
091	82.0	0.478	0.511	0.949	-0.007	0.422	-1.1	34.4	34.6	91.9	92.5	-2.3	138.2	138.2	90.9	0.94	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y05G
092	83.4	0.473	0.514	0.919	-0.009	0.421	-2.4	35.0	35.1	93.9	93.1	-4.8	136.0	136.1	92.0	0.93	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y06G
093	84.7	0.468	0.517	0.905	-0.01	0.422	-3.6	35.4	35.6	95.8	93.7	-7.2	133.9	134.1	93.0	0.92	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y07G
094	86.0	0.464	0.519	0.892	-0.012	0.42	-4.7	35.8	36.1	97.5	94.3	-9.4	131.9	132.3	94.0	0.9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y09G
095	87.1	0.46	0.521	0.882	-0.013	0.42	-5.7	36.1	36.6	99.0	94.7	-11.3	130.2	130.7	94.9	0.89	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y10G
096	88.0	0.456	0.522	0.873	-0.015	0.42	-6.5	36.3	36.9	100.2	95.1	-12.9	127.8	128.5	95.7	0.87	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y12G
097	89.3	0.451	0.522	0.863	-0.019	0.418	-7.5	36.6	37.3	101.9	95.7	-14.8	123.7	124.6	96.8	0.86	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y14G
098	90.2	0.448	0.522	0.853	-0.023	0.417	-8.4	36.7	37.6	103.0	96.1	-16.7	119.7	120.6	97.9	0.85	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y16G
099	91.8	0.444	0.518	0.856	-0.028	0.411	-8.4	36.8	37.7	102.8	96.7	-16.2	115.5	116.7	97.9	0.83	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y16G
100	92.3	0.437	0.518	0.846	-0.033	0.409	-9.6	36.5	37.8	104.8	96.9	-18.6	111.4	112.9	99.4	0.82	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y17G
101	92.1	0.432	0.52	0.83	-0.035	0.41	-10.8	36.2	37.8	106.6	96.6	-20.9	109.4	111.4	108.0	0.8	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y19G
102	91.7	0.43	0.522	0.823	-0.036	0.412	-11.4	36.0	37.8	107.6	96.7	-22.3	109.0	111.3	101.5	0.79	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y20G
103	91.3	0.427	0.524	0.814	-0.036	0.414	-12.1	35.8	37.8	108.7	96.5	-23.8	108.6	111.2	102.3	0.78	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y21G
104	90.9	0.424	0.526	0.806	-0.036	0.417	-12.8	35.6	37.9	109.8	96.3	-25.4	108.2	111.1	103.2	0.76	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y23G
105	90.4	0.421	0.529	0.797	-0.037	0.42	-13.6	35.4	37.9	111.0	96.1	-27.1	107.8	111.1	104.1	0.75	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y24G
106	89.9	0.418	0.531	0.787	-0.037	0.423	-14.4	35.0	38.0	112.0	95.9	-28.9	105.4	110.9	105.1	0.74	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y26G
107	89.3	0.415	0.534	0.778	-0.037	0.427	-15.1	35.0	38.1	113.4	95.7	-30.6	107.0	113.3	105.9	0.72	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y27G
108	88.7	0.412	0.536	0.767	-0.037	0.431	-15.9	34.7	38.2	114.6	95.4	-32.5	106.6	111.5	106.9	0.71	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y28G
109	88.1	0.408	0.539	0.758	-0.037	0.435	-16.7	34.4	38.3	115.9	95.2	-34.5	106.3	111.7	107.9	0.69	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y30G
110	87.5	0.405	0.542	0.747	-0.038	0.439	-17.5	34.2	38.4	117.2	94.9	-36.5	105.9	112.0	109.0	0.68	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y31G
111	86.8	0.401	0.545	0.736	-0.038	0.444	-18.4	33.9	38.6	118.4	94.6	-38.5	105.5	112.3	110.0	0.66	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y33G
112	86.1	0.398	0.549	0.724	-0.038	0.45	-19.2	33.6	38.7	119.7	94.3	-40.7	105.0	112.6	111.1	0.65	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y34G
113	85.2	0.394	0.558	0.713	-0.038	0.453	-20.0	33.3	38.7	120.9	93.9	-42.8	104.0	113.0	112.2	0.63	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y36G
114	86.2	0.39	0.555	0.707	-0.039	0.461	-20.8	33.0	39.0	122.0	93.7	-45.1	104.1	113.3	113.2	0.62	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y37G
115	83.9	0.385	0.559	0.69	-0.039	0.467	-21.6	32.7	39.2	123.4	93.4	-47.3	103.6	113.9	114.5	0.61	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y38G
116	83.1	0.381	0.562	0.678	-0.039	0.474	-22.4	32.4	39.4	124.6	93.0	-49.6	103.0	114.4	115.7	0.59	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y40G
117	82.4	0.377	0.566	0.666	-0.04	0.48	-23.2	32.0	39.6	125.8	92.7	-51.9	102.4	114.9	116.8	0.58	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y41G
118	81.6	0.372	0.569	0.655	-0.04	0.486	-23.9	31.7	39.7	127.0	92.4	-54.1	101.8	115.3	118.0	0.57	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y42G
119	81.0	0.368	0.571	0.645	-0.041	0.492	-24.5	31.4	39.8	127.9	92.1	-56.1	100.9	115.5	119.0	0.55	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y44G
120	80.3	0.364	0.574	0.634	-0.042	0.498	-25.1	31.1	40.0	128.9	91.8	-58.1	100.1	115.8	120.1	0.54	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y46G
121	79.7	0.36	0.577	0.624	-0.043	0.503	-25.7	30.7	40.1	129.9	91.5	-60.1	99.2	116.0	121.2	0.52	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y47G
122	79.0	0.356	0.579	0.614	-0.044	0.509	-26.3	30.4	40.2	130.9	91.2	-62.1	98.3	116.1	122.3	0.51	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y48G
123	78.4	0.352	0.582	0.604	-0.044	0.515	-26.9	30.1	40.4	131.7	90.9	-64.2	97.4	116.7	123.3	0.5	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y49G
124	77.7	0.347	0.584	0.594	-0.046	0.521	-27.4	29.8	40.5	132.6	90.6	-66.2	96.5	117.0	124.4	0.48	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y51G
125	77.1	0.343	0.587	0.584	-0.047	0.527	-28.0	29.4	40.6	133.5	90.3	-68.2	95.6	117.4	125.5	0.47	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y52G
126	76.4	0.339	0.589	0.574	-0.048	0.533	-28.5	29.1	40.7	134.4	90.0	-70.2	94.6	117.8	126.5	0.45	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y54G
127	75.8	0.334	0.592	0.565	-0.049	0.539	-29.0	28.8	40.9	135.2	89.7	-72.2	93.6	118.2	127.6	0.44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y55G
128	75.1	0.33	0.594	0.555	-0.05	0.545	-29.5	28.4	41.0	136.0	89.4	-74.2	92.6	118.7	128.6	0.43	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y56G
129	74.5	0.325	0.596	0.545	-0.051	0.551	-29.9	28.1	41.1	136.8	89.1	-76.1	91.7	119.2	129.7	0.41	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y58G
130	73.9	0.32	0.599	0.535	-0.052	0.557	-30.3	27.8	41.2	137.6	88.8	-78.0	90.4	119.3	130.8	0.4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Y60G
131	73.3	0.3																									

rgb _{tab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																								
Yxy _{tab} , 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 angles (R): h _{ab} = 25.9, 87.3, 158.8, 252.1 of CIELAB, and 39.6 intended hue angles:																								
180, 181, ..., 2619, 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	abc _{AB}	A ₁₀	B ₁₀	C _{AB}	h _{AB}	L _Y	a ₁₀	b ₁₀	C _{ab}	h _{ab}	rgb _{ab}	Code _{ab}							
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
186	41.8	0.553	0.349	1.588	-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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
188	41.8	0.548	0.348	1.587	-0.113	0.713	26.8	13.2	29.8	26.2	70.7	70.1	53.4	88.0	37.3	0.00	1.00	0.62	G31B	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	32.5	0.00	1.00	0.94	G47B	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
212	41.5	0.534	0.33	1.617	-0.163	0.719	27.8	11.0	29.9	21.6	70.5	72.6	41.0	83.4	29.5	0.00	0.86	1.00	G56B	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
220	41.4	0.527	0.324	1.626	-0.181	0.722	28.1	10.2	29.9	20.0	70.4	73.5	37.0	82.2	26.7	0.00	0.69	1.00	G65B	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
224	41.3	0.524	0.321	1.631	-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	0.00	0.00	0.00	0.00	0.00
225	41.3	0.523	0.32	1.633	-0.194	0.724	28.3	9.5	29.9	18.8	70.4	74.0	34.4	81.6	24.9	0.00	0.58	1.00	G70B	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
227	41.3	0.																						

rgb _{cab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																										
Yxy, abc _{AB} , ABC _{AB} , LabC _{ab} h _{ab} data for relative spacing of elementary hue h _{ab} of CIELAB for CIE 10 degree observer																										
Elementary hue circle with 4 intended elementary hues (angles): h _{ab} = 25.9, 87.3, 158.8, 252.1 of CIELAB and 39.6 intended hue angles:																										
270, 271, ..., 360, CIELAB data of CIE test colours 9 (R): 39.2 54.5 26.4, 10 (Y): 79.5 3.2 71.0, 11 (G): 52.3 39.6 15.3, 12 (B): 33.6 12.8 39.9																										
no.	ab	h _{ab}	X ₁₀	Y ₁₀	a ₁₀	b ₁₀	C _{ab} 10	A ₁₀	B ₁₀	C _{ab} 10	h _{AB} 10	L _Y	a*	b*	C*	h _{ab} 10	h _{ab} 10	rgb ^a _{ab} 10	rgb ^a _{ab} 10	rgb ^a _{ab} 10	Code	ab	h _{ab}	Code		
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
271	ab	0.8	0.48	0.284	1.687	-0.329	0.745	30.1	4.0	30.4	7.6	70.0	78.5	12.4	79.5	9.0	0.28	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
272	ab	0.7	0.479	0.283	1.688	-0.333	0.746	30.2	3.9	30.4	7.4	70.0	78.6	12.0	79.5	8.6	0.29	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
273	ab	0.7	0.478	0.283	1.689	-0.336	0.747	30.2	3.7	30.4	7.1	70.0	78.7	11.5	79.5	8.3	0.31	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	ab	0.7	0.477	0.282	1.69	-0.339	0.747	30.2	3.6	30.4	6.8	70.0	78.8	11.1	79.6	8.0	0.32	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
275	ab	0.7	0.476	0.281	1.691	-0.342	0.748	30.3	3.5	30.5	6.6	70.0	78.9	10.6	79.6	7.7	0.34	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
276	ab	0.7	0.475	0.281	1.692	-0.346	0.749	30.3	3.3	30.5	6.3	70.0	79.0	10.2	79.6	7.3	0.35	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
277	ab	0.7	0.474	0.281	1.693	-0.349	0.75	30.3	3.2	30.5	6.0	69.9	79.1	9.8	79.7	7.0	0.37	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
278	ab	0.7	0.473	0.279	1.694	-0.352	0.751	30.3	3.1	30.5	5.8	69.9	79.2	9.3	79.7	6.7	0.38	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
279	ab	0.7	0.472	0.278	1.696	-0.356	0.751	30.4	2.9	30.6	5.5	69.9	79.2	8.9	79.7	6.4	0.4	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
280	ab	0.7	0.471	0.278	1.697	-0.359	0.752	30.4	2.8	30.6	5.3	69.9	79.3	8.5	79.8	6.1	0.41	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
281	ab	0.6	0.471	0.277	1.698	-0.362	0.753	30.5	2.7	30.6	5.0	69.9	79.4	8.0	79.8	5.8	0.43	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
282	ab	0.6	0.47	0.276	1.699	-0.366	0.753	30.5	2.5	30.6	4.8	69.9	79.5	7.6	79.9	5.4	0.44	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
283	ab	0.6	0.469	0.275	1.7	-0.369	0.754	30.5	2.4	30.6	4.5	69.9	79.6	7.2	79.9	5.1	0.46	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
284	ab	0.6	0.468	0.275	1.701	-0.372	0.755	30.6	2.2	30.7	4.2	69.9	79.7	6.7	80.0	4.8	0.47	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285	ab	0.6	0.467	0.274	1.702	-0.376	0.756	30.6	2.1	30.7	4.0	69.9	79.8	6.3	80.0	4.5	0.49	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
286	ab	0.6	0.466	0.273	1.703	-0.379	0.757	30.7	2.0	30.7	3.7	69.9	79.9	5.9	80.0	4.2	0.5	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
287	ab	0.6	0.465	0.273	1.704	-0.382	0.758	30.7	1.8	30.7	3.5	69.9	79.9	5.5	80.1	3.9	0.52	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
288	ab	0.6	0.464	0.272	1.705	-0.386	0.758	30.7	1.7	30.8	3.2	69.9	80.0	5.1	80.2	3.6	0.53	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
289	ab	0.6	0.463	0.271	1.706	-0.389	0.759	30.8	1.6	30.8	2.9	69.9	80.1	4.7	80.2	3.3	0.55	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
290	ab	0.5	0.462	0.27	1.707	-0.393	0.76	30.8	1.4	30.8	2.7	69.9	80.2	4.2	80.3	3.0	0.56	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
291	ab	0.5	0.461	0.27	1.708	-0.396	0.761	30.8	1.3	30.9	2.4	69.8	80.3	3.8	80.4	2.7	0.58	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292	ab	0.5	0.46	0.269	1.709	-0.399	0.762	30.9	1.1	30.9	2.2	69.8	80.4	3.4	80.4	2.4	0.59	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293	ab	0.5	0.458	0.268	1.71	-0.403	0.763	30.9	1.0	30.9	1.9	69.8	80.4	3.0	80.5	2.1	0.6	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
294	ab	0.5	0.459	0.268	1.712	-0.406	0.763	30.9	0.9	30.9	1.6	69.8	80.5	2.7	80.5	1.8	0.62	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
295	ab	0.5	0.458	0.267	1.713	-0.41	0.765	31.0	0.7	31.0	1.4	69.8	80.6	2.2	80.6	1.5	0.64	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
296	ab	0.5	0.457	0.266	1.714	-0.413	0.766	31.0	0.6	31.0	1.1	69.8	80.7	1.8	80.7	1.3	0.65	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
297	ab	0.5	0.456	0.266	1.715	-0.416	0.767	31.0	0.5	31.0	0.9	69.8	80.8	1.4	80.8	1.0	0.67	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
298	ab	0.5	0.455	0.265	1.716	-0.42	0.768	31.1	0.3	31.1	0.6	69.8	80.9	1.0	80.9	0.7	0.68	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
299	ab	0.5	0.454	0.264	1.717	-0.423	0.769	31.1	0.2	31.1	0.4	69.8	80.9	0.6	80.9	0.4	0.7	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	ab	0.4	0.453	0.264	1.718	-0.427	0.77	31.1	0.0	31.1	0.1	69.8	81.0	0.2	81.0	0.1	0.71	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
301	ab	0.4	0.452	0.263	1.719	-0.43	0.771	31.2	0.0	31.2	0.0	69.9	81.1	-0.1	81.1	0.0	0.73	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
302	ab	0.4	0.452	0.262	1.72	-0.433	0.772	31.2	-0.1	31.2	0.0	69.9	81.2	-0.2	81.2	0.0	0.75	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
303	ab	0.4	0.451	0.262	1.721	-0.437	0.773	31.2	-0.3	31.2	0.0	69.9	81.3	-0.8	81.3	0.0	0.78	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
304	ab	0.4	0.45	0.261	1.722	-0.44	0.774	31.3	-0.4	31.3	0.0	69.9	81.4	-1.2	81.3	0.0	0.77	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
305	ab	0.4	0.449	0.26	1.723	-0.443	0.775	31.3	-0.5	31.3	0.0	69.9	81.4	-1.6	81.4	0.0	0.79	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
306	ab	0.4	0.448	0.26	1.723	-0.447	0.776	31.3	-0.7	31.3	0.0	69.9	81.5	-2.0	81.5	0.0	0.8	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
307	ab	0.4	0.447	0.259	1.724	-0.45	0.777	31.4	-0.8	31.4	0.0	69.9	81.6	-2.4	81.6	0.0	0.83	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
308	ab	0.4	0.446	0.258	1.725	-0.454	0.778	31.4	-1.0	31.4	0.0	69.9	81.6	-2.7	81.7	0.0	0.83	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
309	ab	0.4	0.446	0.258	1.726	-0.457	0.779	31.4	-1.1	31.4	0.0	69.9	81.7	-3.1	81.8	0.0	0.85	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
310	ab	0.4	0.445	0.257	1.727	-0.46	0.78	31.5	-1.2	31.5	0.0	69.9	81.7	-3.5	81.8	0.0	0.86	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
311	ab	0.3	0.444	0.257	1.728	-0.464	0.781	31.5	-1.4	31.5	0.0	69.9	81.9	-3.8	82.0	0.0	0.87	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
312	ab	0.3	0.443	0.256	1.729	-0.467	0.782	31.5	-1.5	31.5	0.0	69.9	82.0	-4.2	82.1	0.0	0.89	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
313	ab	0.3	0.442	0.255	1.73	-0.47	0.783	31.5	-1.6	31.6	0.0	69.9	82.1	-4.6	82.2	0.0	0.91	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
314	ab	0.3	0.442	0.255	1.731	-0.474	0.784	31.6	-1.8	31.6	0.0	69.9	82.2	-4.9	82.3	0.0	0.92	0.00	1.00	0.00	0.00</					