***Ostwald* optimal colours (o) of maximum (m) C_{AB} for D50, 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	%
1	405	32	564	80.64	−79.12	−32.66	85.6	0.1753	−0.0939	202.4	17	486	38	592	Cm	%
7	435	33	565	80.84	−92.99	−16.32	94.41	0.1682	−0.0862	189.9	18	490	46	634		%
10	450	33	566	81.12	−108.35	7.14	108.58	0.1604	−0.0752	176.2	19	497	−1	497c		%
12	460	33	567	81.46	−116.97	28.05	120.29	0.1561	−0.0654	166.5	21	506	−1	506c		%
13	465	33	568	81.81	−119.26	39.57	125.66	0.1552	−0.0601	161.6	22	511	−1	511c		%
14	470	34	570	82.4	−119.23	51.38	129.83	0.1555	−0.0547	156.6	23	519	−1	519c		%
15	475	34	573	83.39	−115.8	63.56	132.1	0.1579	−0.0494	151.2	25	527	−1	527c	Gm	%
15	480	35	578	85.46	−107.76	67.11	126.95	0.1631	−0.0484	148.0	26	531	−1	531c		%
17	485	37	587	88.09	−90.84	90.18	128.01	0.1726	−0.039	135.2	28	544	−1	544c		%
18	490	44	620	95.17	−39.39	110.34	117.16	0.1986	−0.0333	109.6	32	561	−1	561c	max	%
19	495	−1	495c	97.49	−13.34	121.9	122.63	0.2105	−0.0295	96.2	33	568	12	463		%
20	500	−1	500c	96.81	−10.45	127.99	128.42	0.2118	−0.0268	94.6	33	569	13	466		%
22	510	−1	510c	94.88	−2.34	137.84	137.86	0.2153	−0.0218	90.9	34	571	14	471		%
23	520	−1	519c	93.58	2.85	141.13	141.16	0.2177	−0.0198	88.8	34	572	14	473	Ym	%
25	530	−1	529c	90.23	15.24	146.8	147.59	0.2236	−0.0162	84.0	35	575	15	477		%
27	540	−1	539c	86.01	29.18	144.12	147.04	0.2308	−0.0132	78.5	35	579	16	480		%
28	545	−1	544c	83.62	36.35	141.27	145.87	0.2347	−0.012	75.5	36	581	16	481		%
29	550	−1	549c	81.05	43.6	137.66	144.4	0.239	−0.011	72.4	36	583	16	483		%
30	555	−1	554c	78.3	50.75	133.47	142.8	0.2434	−0.0102	69.1	37	585	16	484		%
32	560	−1	560c	72.41	64.12	123.93	139.53	0.2528	−0.0092	62.6	38	590	17	486		%
	380		770	100.0	0.0	0.0	0.0	0.2164	−0.0785	0.0						%

***Ostwald* optimal colours (o) of maximum (m) C_{AB} for D50, 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	564	1	405	71.0	67.41	105.72	125.38	0.2553	−0.0231	57.4	38	592	17	486	Rm	%
33	565	7	435	70.74	75.66	26.96	80.32	0.2602	−0.0643	19.6	46	634	18	490		%
33	566	10	450	70.4	84.09	−8.18	84.49	0.2653	−0.0828	354.4	−1	497c	19	497		%
33	567	12	460	69.97	89.18	−25.67	92.8	0.2685	−0.0921	343.9	−1	506c	21	506		%
33	568	13	465	69.5	91.5	−32.76	97.19	0.2702	−0.096	340.2	−1	511c	22	511		%
34	570	14	470	68.72	93.74	−39.06	101.55	0.272	−0.0995	337.3	−1	519c	23	519		%
34	573	15	475	67.36	96.12	−45.25	106.24	0.2743	−0.1032	334.7	−1	527c	25	527	Mm	%
35	578	15	480	64.23	100.99	−50.62	112.97	0.2796	−0.1073	333.3	−1	531c	26	531		%
37	587	17	485	59.67	103.27	−63.42	121.19	0.285	−0.1167	328.4	−1	544c	28	544		%
44	620	18	490	41.19	95.32	−96.8	135.85	0.3001	−0.1557	314.5	−1	561c	32	561	min	%
−1	495c	19	495	30.29	58.93	−116.79	130.82	0.2804	−0.1936	296.7	12	463	33	568		%
−1	500c	20	500	34.03	42.92	−111.26	119.25	0.2595	−0.1799	291.0	13	466	33	569		%
−1	510c	22	510	42.26	8.18	−98.28	98.62	0.2235	−0.1554	274.7	14	471	34	571		%
−1	519c	23	520	46.59	−9.12	−91.17	91.63	0.2091	−0.1449	264.2	14	473	34	572	Bm	%
−1	529c	25	530	55.28	−39.96	−76.64	86.43	0.1882	−0.1275	242.4	15	477	35	575		%
−1	539c	27	540	63.34	−62.09	−62.98	88.44	0.1771	−0.1147	225.4	16	480	35	579		%
−1	544c	28	545	67.02	−69.55	−56.7	89.74	0.1743	−0.1096	219.1	16	481	36	581		%
−1	549c	29	550	70.49	−74.83	−50.77	90.42	0.1729	−0.1053	214.1	16	483	36	583		%
−1	554c	30	555	73.73	−78.04	−45.21	90.19	0.1727	−0.1015	210.0	16	484	37	585		%
−1	560c	32	560	79.46	−78.96	−35.36	86.52	0.1749	−0.0954	204.1	17	486	38	590		%
	380		770	100.0	0.0	0.0	0.0	0.2164	−0.0785	0.0						%

***rgb**$_{e,ab}$* and CIE data of a elementary hue circle according to CIE R1-47 for *Ostwald* colours for CIE illuminant D50**

***Yxy, abc*$_{AB}$, *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} = 27.1, 88.5, 164.3, 263.9 of *CIELAB*, and 90 intended hue angles:

000, 001, ..., 089, CIELAB data of CIE test colours 9 (R): 41.8 61.9 31.7, 10 (Y): 81.9 1.7 71.5, 11 (G): 51.6 −41.1 11.5, 12 (B): 29.2 −5.2 −49.3

no.$_{ab}$	*Y*	*x*	*y*	*a*	*b*	C_{AB}	*A*	*B*	C_{AB}	h_{AB}	*L**	*a**	*b**	C^*_{ab}	h_{ab}	*rgb**$_{e,ab}$			*Code*$_{ab}$
000	41.4	0.483	0.275	1.755	−0.349	0.791	32.7	−0.7	32.7	358.6	70.4	82.3	−2.8	82.4	358.0	1.00	0.00	0.56	% B71R #
001	41.4	0.485	0.277	1.751	−0.341	0.787	32.6	−0.4	32.6	359.1	70.5	82.0	−1.7	82.0	358.7	1.00	0.00	0.54	% B72R #
002	41.4	0.487	0.279	1.747	−0.334	0.783	32.5	−0.1	32.5	359.6	70.5	81.7	−0.6	81.7	359.5	1.00	0.00	0.52	% B73R #
003	41.5	0.489	0.28	1.743	−0.326	0.779	32.3	0.1	32.3	0.2	70.5	81.4	0.4	81.4	0.3	1.00	0.00	0.5	% B74R #
004	41.5	0.491	0.282	1.739	−0.318	0.775	32.2	0.4	32.2	0.8	70.5	81.0	1.6	81.1	1.1	1.00	0.00	0.48	% B75R #
005	41.5	0.494	0.284	1.735	−0.311	0.771	32.0	0.7	32.0	1.4	70.5	80.7	2.9	80.8	2.0	1.00	0.00	0.46	% B76R #
006	41.5	0.496	0.286	1.731	−0.302	0.767	31.9	1.1	31.9	2.0	70.5	80.4	4.1	80.5	2.9	1.00	0.00	0.44	% B77R #
007	41.5	0.498	0.288	1.727	−0.294	0.764	31.7	1.4	31.7	2.6	70.5	80.0	5.5	80.2	3.9	1.00	0.00	0.41	% B79R #
008	41.6	0.501	0.29	1.723	−0.286	0.76	31.5	1.8	31.6	3.2	70.6	79.7	6.8	80.0	4.9	1.00	0.00	0.39	% B80R #
009	41.6	0.503	0.292	1.719	−0.277	0.757	31.4	2.1	31.5	3.9	70.6	79.3	8.3	79.8	5.9	1.00	0.00	0.37	% B81R #
010	41.6	0.506	0.295	1.715	−0.269	0.753	31.2	2.5	31.3	4.6	70.6	79.0	9.8	79.6	7.0	1.00	0.00	0.35	% B82R #
011	41.6	0.508	0.297	1.711	−0.26	0.75	31.1	2.8	31.2	5.3	70.6	78.7	11.3	79.5	8.1	1.00	0.00	0.33	% B83R #
012	41.6	0.511	0.299	1.707	−0.251	0.747	30.9	3.2	31.1	6.0	70.6	78.3	12.9	79.4	9.3	1.00	0.00	0.31	% B84R #
013	41.7	0.514	0.302	1.703	−0.242	0.744	30.8	3.6	31.0	6.7	70.6	78.0	14.5	79.3	10.5	1.00	0.00	0.29	% B85R #
014	41.7	0.517	0.304	1.699	−0.233	0.741	30.6	4.0	30.9	7.4	70.6	77.6	16.2	79.3	11.8	1.00	0.00	0.27	% B86R #
015	41.7	0.52	0.307	1.694	−0.224	0.738	30.5	4.4	30.8	8.2	70.6	77.2	18.0	79.3	13.1	1.00	0.00	0.25	% B87R #
016	41.7	0.523	0.309	1.69	−0.215	0.735	30.3	4.7	30.7	8.9	70.7	76.9	19.8	79.4	14.4	1.00	0.00	0.23	% B88R #
017	41.7	0.526	0.312	1.686	−0.206	0.733	30.1	5.1	30.6	9.7	70.7	76.5	21.7	79.6	15.8	1.00	0.00	0.21	% B89R #
018	41.7	0.53	0.315	1.682	−0.196	0.73	30.0	5.5	30.5	10.5	70.7	76.2	23.6	79.8	17.2	1.00	0.00	0.19	% B90R #
019	41.8	0.533	0.317	1.678	−0.187	0.728	29.8	5.9	30.4	11.2	70.7	75.8	25.6	80.1	18.7	1.00	0.00	0.17	% B91R #
020	41.8	0.536	0.32	1.674	−0.178	0.726	29.7	6.3	30.3	12.0	70.7	75.5	27.7	80.4	20.1	1.00	0.00	0.14	% B92R #
021	41.8	0.539	0.322	1.672	−0.169	0.725	29.6	6.6	30.3	12.7	70.7	75.3	29.7	80.9	21.5	1.00	0.00	0.12	% B93R #
022	41.8	0.543	0.325	1.669	−0.161	0.725	29.5	7.0	30.3	13.4	70.7	75.0	31.7	81.5	22.9	1.00	0.00	0.1	% B94R #
023	41.8	0.546	0.327	1.666	−0.153	0.724	29.3	7.3	30.3	14.1	70.7	74.8	33.7	82.1	24.2	1.00	0.00	0.08	% B95R #
024	41.8	0.549	0.33	1.664	−0.145	0.723	29.2	7.7	30.2	14.7	70.7	74.6	35.8	82.7	25.6	1.00	0.00	0.06	% B96R #
025	41.8	0.552	0.332	1.661	−0.137	0.723	29.1	8.0	30.2	15.4	70.7	74.3	37.9	83.4	27.0	1.00	0.00	0.04	% B97R #
026	41.8	0.556	0.335	1.658	−0.129	0.722	29.0	8.3	30.2	16.0	70.7	74.1	40.0	84.2	28.3	1.00	0.00	0.02	% B98R #
027	41.8	0.559	0.337	1.656	−0.122	0.722	28.9	8.6	30.2	16.7	70.7	73.8	42.1	85.0	29.7	1.00	0.00	0.0	% B99R #
028	41.8	0.562	0.34	1.653	−0.115	0.721	28.8	8.9	30.2	17.3	70.7	73.6	44.3	85.9	31.0	1.00	0.01	0.00	% R01Y #
029	41.8	0.565	0.342	1.65	−0.108	0.721	28.7	9.2	30.1	17.9	70.7	73.4	46.4	86.8	32.3	1.00	0.02	0.00	% R02Y #
030	41.8	0.567	0.344	1.648	−0.101	0.721	28.6	9.5	30.1	18.4	70.7	73.1	48.6	87.8	33.6	1.00	0.04	0.00	% R04Y #
031	41.8	0.57	0.346	1.645	−0.095	0.72	28.5	9.8	30.1	19.0	70.7	72.9	50.8	88.8	34.8	1.00	0.06	0.00	% R06Y #
032	41.8	0.573	0.349	1.642	−0.088	0.72	28.4	10.0	30.1	19.5	70.7	72.7	52.9	89.9	36.0	1.00	0.07	0.00	% R07Y #
033	41.8	0.576	0.351	1.64	−0.082	0.719	28.3	10.3	30.1	20.0	70.7	72.4	55.1	91.1	37.2	1.00	0.09	0.00	% R09Y #
034	41.8	0.578	0.353	1.637	−0.077	0.719	28.2	10.5	30.1	20.5	70.7	72.2	57.3	92.2	38.4	1.00	0.11	0.00	% R11Y #
035	41.8	0.581	0.355	1.635	−0.071	0.718	28.1	10.8	30.1	21.0	70.7	72.0	59.5	93.4	39.6	1.00	0.12	0.00	% R12Y #
036	41.8	0.583	0.357	1.632	−0.066	0.718	28.0	11.0	30.0	21.4	70.7	71.7	61.8	94.7	40.7	1.00	0.14	0.00	% R14Y #
037	41.9	0.585	0.359	1.63	−0.061	0.717	27.8	11.2	30.0	21.9	70.8	71.5	64.0	96.0	41.8	1.00	0.16	0.00	% R16Y #
038	41.9	0.587	0.36	1.627	−0.057	0.717	27.7	11.4	30.0	22.3	70.8	71.3	66.2	97.3	42.8	1.00	0.17	0.00	% R17Y #
039	41.9	0.589	0.362	1.625	−0.052	0.716	27.6	11.6	30.0	22.7	70.8	71.1	68.3	98.6	43.8	1.00	0.19	0.00	% R19Y #
040	41.9	0.591	0.364	1.622	−0.048	0.716	27.6	11.7	30.0	23.1	70.8	70.8	70.5	100.0	44.8	1.00	0.2	0.00	% R20Y #
041	41.9	0.593	0.366	1.62	−0.044	0.715	27.5	11.9	29.9	23.4	70.8	70.6	72.7	101.4	45.8	1.00	0.22	0.00	% R22Y #
042	41.9	0.594	0.367	1.617	−0.041	0.714	27.4	12.1	29.9	23.8	70.8	70.4	74.9	102.8	46.7	1.00	0.24	0.00	% R24Y #
043	41.9	0.596	0.369	1.615	−0.037	0.713	27.3	12.2	29.9	24.1	70.8	70.2	77.0	104.2	47.6	1.00	0.25	0.00	% R25Y #
044	41.9	0.597	0.37	1.612	−0.034	0.712	27.2	12.4	29.9	24.4	70.8	70.0	79.2	105.7	48.5	1.00	0.27	0.00	% R27Y #
045	41.9	0.598	0.371	1.61	−0.031	0.712	27.1	12.5	29.8	24.7	70.8	69.8	81.3	107.2	49.3	1.00	0.29	0.00	% R29Y #
046	41.9	0.6	0.373	1.608	−0.028	0.711	27.0	12.6	29.8	25.0	70.8	69.6	83.4	108.6	50.1	1.00	0.3	0.00	% R30Y #
047	41.9	0.601	0.374	1.605	−0.026	0.71	26.9	12.7	29.8	25.3	70.8	69.4	85.5	110.1	50.9	1.00	0.32	0.00	% R32Y #
048	42.0	0.602	0.375	1.603	−0.023	0.709	26.8	12.8	29.7	25.6	70.8	69.1	87.6	111.6	51.6	1.00	0.33	0.00	% R33Y #
049	42.0	0.603	0.376	1.601	−0.021	0.708	26.7	12.9	29.7	25.8	70.8	68.9	89.6	113.1	52.4	1.00	0.35	0.00	% R35Y #
050	42.0	0.604	0.377	1.599	−0.019	0.706	26.6	13.0	29.7	26.0	70.9	68.8	91.6	114.6	53.1	1.00	0.37	0.00	% R37Y #
051	42.0	0.604	0.378	1.596	−0.017	0.705	26.6	13.1	29.6	26.2	70.9	68.6	93.6	116.1	53.7	1.00	0.38	0.00	% R38Y #
052	42.0	0.605	0.379	1.594	−0.015	0.704	26.5	13.2	29.6	26.4	70.9	68.4	95.6	117.5	54.4	1.00	0.4	0.00	% R40Y #
053	42.0	0.606	0.38	1.592	−0.014	0.703	26.4	13.2	29.6	26.6	70.9	68.2	97.5	119.0	55.0	1.00	0.42	0.00	% R42Y #
054	42.1	0.606	0.381	1.59	−0.012	0.702	26.3	13.3	29.5	26.8	70.9	68.0	99.4	120.4	55.6	1.00	0.43	0.00	% R43Y #
055	42.1	0.607	0.382	1.588	−0.011	0.7	26.2	13.4	29.5	27.0	70.9	67.8	101.2	121.9	56.1	1.00	0.45	0.00	% R45Y #
056	42.1	0.607	0.382	1.586	−0.01	0.699	26.2	13.4	29.4	27.2	70.9	67.6	103.1	123.3	56.7	1.00	0.46	0.00	% R46Y #
057	42.1	0.607	0.383	1.584	−0.008	0.698	26.1	13.5	29.4	27.3	70.9	67.4	104.8	124.7	57.2	1.00	0.48	0.00	% R48Y #
058	42.2	0.608	0.385	1.579	−0.006	0.695	26.0	13.6	29.3	27.7	71.0	67.1	109.4	128.3	58.4	1.00	0.5	0.00	% R50Y #
059	42.4	0.609	0.387	1.573	−0.003	0.691	25.8	13.8	29.3	28.1	71.1	66.6	115.0	132.9	59.9	1.00	0.51	0.00	% R51Y #
060	42.6	0.609	0.388	1.566	−0.002	0.686	25.7	14.0	29.2	28.5	71.3	66.1	118.9	136.1	60.9	1.00	0.53	0.00	% R53Y #
061	43.1	0.608	0.39	1.558	0.0	0.679	25.6	14.1	29.2	28.9	71.6	65.5	121.5	138.0	61.6	1.00	0.55	0.00	% R55Y #
062	43.7	0.607	0.392	1.546	0.0	0.669	25.4	14.4	29.2	29.4	72.0	64.7	123.1	139.1	62.2	1.00	0.56	0.00	% R56Y #
063	44.6	0.604	0.395	1.528	0.0	0.654	25.2	14.7	29.2	30.2	72.6	63.5	124.6	139.8	63.0	1.00	0.58	0.00	% R58Y #
064	45.9	0.6	0.399	1.504	0.0	0.632	24.8	15.1	29.0	31.4	73.5	61.6	126.5	140.7	64.0	1.00	0.59	0.00	% R59Y #
065	47.3	0.596	0.403	1.477	0.0	0.61	24.3	15.6	28.9	32.7	74.4	59.6	128.1	141.3	65.0	1.00	0.61	0.00	% R61Y #
066	48.8	0.591	0.407	1.451	0.0	0.588	23.7	16.1	28.7	34.1	75.3	57.4	129.7	141.8	66.1	1.00	0.62	0.00	% R62Y #
067	50.4	0.587	0.412	1.424	0.0	0.566	23.2	16.6	28.5	35.5	76.3	55.3	131.0	142.2	67.1	1.00	0.64	0.00	% R64Y #
068	51.9	0.583	0.416	1.399	0.0	0.546	22.6	17.1	28.3	37.1	77.2	53.1	132.2	142.5	68.0	1.00	0.66	0.00	% R66Y #
069	53.4	0.578	0.42	1.376	0.0	0.527	22.0	17.6	28.2	38.6	78.1	51.1	133.3	142.7	69.0	1.00	0.68	0.00	% R68Y #
070	55.2	0.573	0.425	1.349	0.0	0.506	21.2	18.1	27.9	40.5	79.1	48.6	134.8	143.3	70.1	1.00	0.69	0.00	% R69Y #
071	56.7	0.569	0.429	1.326	0.0	0.489	20.5	18.6	27.7	42.3	80.0	46.3	136.1	143.8	71.1	1.00	0.71	0.00	% R71Y #
072	58.0	0.565	0.433	1.306	0.0	0.474	19.8	19.1	27.5	43.9	80.7	44.4	137.2	144.2	72.0	1.00	0.72	0.00	% R72Y #
073	59.4	0.561	0.437	1.285	0.0	0.46	19.0	19.5	27.3	45.7	81.5	42.2	138.3	144.6	73.0	1.00	0.74	0.00	% R74Y #
074	60.9	0.557	0.441	1.263	0.0	0.444	18.2	20.0	27.1	47.7	82.3	39.9	139.5	145.1	74.0	1.00	0.76	0.00	% R76Y #
075	62.4	0.553	0.445	1.242	0.0	0.43	17.3	20.5	26.9	49.8	83.1	37.6	140.6	145.6	75.0	1.00	0.77	0.00	% R77Y #
076	63.9	0.549	0.449	1.222	0.0	0.418	16.5	21.0	26.7	51.8	83.9	35.4	141.7	146.0	75.9	1.00	0.79	0.00	% R79Y #
077	65.3	0.545	0.453	1.203	−0.001	0.407	15.6	21.4	26.6	53.9	84.8	33.3	142.6	146.5	76.8	1.00	0.81	0.00	% R81Y #
078	66.9	0.541	0.457	1.182	−0.001	0.394	14.6	22.0	26.4	56.3	85.4	30.8	143.6	146.8	77.8	1.00	0.82	0.00	% R82Y #
079	68.6	0.536	0.461	1.161	−0.001	0.383	13.5	22.5	26.2	59.0	86.3	28.1	144.4	147.1	78.9	1.00	0.84	0.00	% R84Y #
080	70.1	0.532	0.465	1.142	−0.001	0.373	12.4	23.0	26.2	61.5	87.0	25.8	145.1	147.4	79.9	1.00	0.86	0.00	% R86Y #
081	71.6	0.527	0.47	1.123	−0.001	0.364	11.3	23.5	26.1	64.1	87.8	23.3	145.8	147.6	80.9	1.00	0.87	0.00	% R87Y #
082	73.3	0.523	0.474	1.103	−0.001	0.356	10.2	24.0	26.1	67.0	88.6	20.7	146.3	147.7	81.9	1.00	0.89	0.00	% R89Y #
083	75.0	0.518	0.478	1.084	−0.002	0.349	8.9	24.5	26.1	69.9	89.3	18.0	146.6	147.7	82.9	1.00	0.9	0.00	% R90Y #
084	76.6	0.514	0.482	1.065	−0.002	0.342	7.7	25.1	26.2	72.8	90.1	15.4	146.8	147.6	83.9	1.00	0.92	0.00	% R92Y #
085	78.4	0.509	0.487	1.045	−0.002	0.337	6.3	25.6	26.4	76.1	90.9	12.5	146.0	146.5	85.0	1.00	0.94	0.00	% R94Y #
086	80.1	0.504	0.491	1.026	−0.003	0.332	4.9	26.1	26.6	79.2	91.7	9.7	144.9	145.2	86.1	1.00	0.95	0.00	% R95Y #
087	81.7	0.499	0.495	1.008	−0.004	0.329	3.6	26.6	26.8	82.2	92.4	7.0	143.6	143.8	87.1	1.00	0.97	0.00	% R97Y #
088	83.2	0.495	0.498	0.993	−0.004	0.326	2.4	27.0	27.1	84.8	93.1	4.6	142.2	142.3	88.1	1.00	0.99	0.00	% R99Y #
089	84.6	0.491	0.501	0.978	−0.005	0.324	1.2	27.4	27.4	87.4	93.7	2.3	140.9	140.9	89.0	0.99	1.00	0.00	% Y00G #

CIEXYZ data of CIE test colours 9 (R): 23.3 12.4 3.2, 10 (Y): 58.8 60.2 9.5, 11 (G): 12.0 19.8 11.9, 12 (B): 5.2 5.9 21.2

***rgb**e,ab* and CIE data of a elementary hue circle according to CIE R1-47 for *Ostwald* colours for CIE illuminant D50**

***Yxy, abc*AB, *ABC*AB, *LabC**ab*hab* 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 = 27.1, 88.5, 164.3, 263.9 of *CIELAB*, and 90 intended hue angles:

090, 091, ..., 179, CIELAB data of CIE test colours 9 (R): 41.8 61.9 31.7, 10 (Y): 81.9 1.7 71.5, 11 (G): 51.6 −41.1 11.5, 12 (B): 29.2 −5.2 −49.3

*no.*ab	*Y*	*x*	*y*	*a*	*b*	*c*AB	*A*	*B*	*C*ab	*h*AB	*L**	*a**	*b**	*C**ab	*h*ab	*rgb**e,ab			*Code*ab	
090	86.1	0.486	0.505	0.962	−0.006	0.323	−0.1	27.8	27.8	90.2	94.3	−0.2	139.6	139.6	90.0	0.98	1.00	0.00	% Y01G	#
091	87.3	0.482	0.508	0.949	−0.007	0.323	−1.2	28.2	28.2	92.5	94.8	−2.4	137.7	137.8	90.9	0.96	1.00	0.00	% Y03G	#
092	88.6	0.478	0.51	0.936	−0.008	0.322	−2.4	28.5	28.6	94.9	95.4	−4.6	135.3	135.4	91.9	0.95	1.00	0.00	% Y04G	#
093	89.9	0.473	0.513	0.923	−0.01	0.322	−3.6	28.7	29.0	97.3	95.9	−6.9	132.6	132.7	93.0	0.94	1.00	0.00	% Y05G	#
094	91.2	0.469	0.515	0.91	−0.011	0.322	−4.8	29.0	29.4	99.5	96.5	−9.1	129.8	130.1	94.0	0.92	1.00	0.00	% Y07G	#
095	92.7	0.465	0.515	0.903	−0.014	0.321	−5.6	29.2	29.8	100.9	97.1	−10.5	126.7	127.1	94.7	0.91	1.00	0.00	% Y08G	#
096	93.7	0.461	0.516	0.894	−0.016	0.32	−6.5	29.3	30.0	102.5	97.5	−12.0	122.9	123.5	95.6	0.9	1.00	0.00	% Y09G	#
097	93.5	0.457	0.518	0.882	−0.018	0.322	−7.6	29.1	30.1	104.6	97.4	−14.1	121.4	122.2	96.6	0.88	1.00	0.00	% Y11G	#
098	93.4	0.455	0.52	0.875	−0.018	0.323	−8.2	29.1	30.2	105.8	97.4	−15.3	120.7	121.7	97.2	0.87	1.00	0.00	% Y12G	#
099	93.2	0.453	0.521	0.868	−0.018	0.325	−8.9	29.0	30.3	107.1	97.3	−16.7	120.0	121.2	97.9	0.86	1.00	0.00	% Y13G	#
100	92.9	45	0.523	0.86	−0.019	0.327	−9.6	28.8	30.4	108.5	97.2	−18.2	119.3	120.7	98.6	0.84	1.00	0.00	% Y15G	#
101	92.7	0.447	0.526	0.851	−0.019	0.33	−10.4	28.7	30.5	109.9	97.1	−19.8	118.5	120.2	99.4	0.83	1.00	0.00	% Y16G	#
102	92.3	0.444	0.528	0.841	−0.02	0.333	−11.3	28.5	30.7	111.5	96.9	−21.5	117.7	119.7	100.3	0.82	1.00	0.00	% Y17G	#
103	91.9	0.441	0.53	0.831	−0.02	0.336	−12.2	28.4	30.9	113.2	96.8	−23.4	116.9	119.2	101.3	0.8	1.00	0.00	% Y19G	#
104	91.5	0.437	0.533	0.82	−0.021	0.34	−13.1	28.2	31.1	114.9	96.6	−25.4	116.0	118.8	102.3	0.79	1.00	0.00	% Y20G	#
105	91.0	0.433	0.536	0.808	−0.022	0.345	−14.1	28.0	31.4	116.7	96.4	−27.5	115.1	118.4	103.4	0.78	1.00	0.00	% Y21G	#
106	90.5	0.429	0.539	0.796	−0.022	0.35	−15.1	27.8	31.6	118.6	96.2	−29.8	114.2	118.0	104.6	0.77	1.00	0.00	% Y22G	#
107	89.8	0.425	0.543	0.783	−0.023	0.356	−16.2	27.5	32.0	120.5	95.9	−32.3	113.2	117.7	105.9	0.75	1.00	0.00	% Y24G	#
108	89.2	0.42	0.546	0.769	−0.024	0.362	−17.3	27.3	32.3	122.4	95.6	−34.8	112.1	117.4	107.2	0.74	1.00	0.00	% Y25G	#
109	88.5	0.415	55	0.755	−0.024	0.37	−18.5	27.0	32.7	124.4	95.3	−37.5	111.0	117.2	108.6	0.73	1.00	0.00	% Y26G	#
110	87.8	0.41	0.553	0.741	−0.025	0.377	−19.5	26.7	33.1	126.1	95.0	−40.0	110.1	117.1	109.9	0.71	1.00	0.00	% Y28G	#
111	87.2	0.407	0.556	0.731	−0.025	0.383	−20.2	26.5	33.4	127.4	94.8	−42.0	109.4	117.2	110.9	0.7	1.00	0.00	% Y29G	#
112	86.6	0.403	0.559	0.721	−0.026	0.389	−21.0	26.3	33.7	128.6	94.5	−43.9	108.7	117.3	112.0	0.69	1.00	0.00	% Y30G	#
113	86.0	0.399	0.562	71	−0.026	0.395	−21.8	26.0	34.0	129.8	94.3	−45.9	108.0	117.4	113.0	0.67	1.00	0.00	% Y32G	#
114	85.3	0.396	0.565	0.7	−0.027	0.4	−22.5	25.8	34.3	131.2	94.0	−48.0	107.3	117.6	114.1	0.66	1.00	0.00	% Y33G	#
115	84.7	0.392	0.568	0.689	−0.027	0.408	−23.2	25.6	34.6	132.2	93.7	−50.0	106.6	117.8	115.1	0.65	1.00	0.00	% Y34G	#
116	84.1	0.388	0.571	0.678	−0.027	0.415	−24.0	25.4	34.9	133.3	93.4	−52.1	105.9	118.0	116.2	0.63	1.00	0.00	% Y36G	#
117	83.4	0.384	0.575	0.667	−0.028	0.422	−24.7	25.1	35.2	134.4	93.2	−54.2	105.1	118.3	117.2	0.62	1.00	0.00	% Y37G	#
118	82.8	38	0.578	0.657	−0.028	0.43	−25.4	24.9	35.6	135.5	92.9	−56.3	104.4	118.6	118.3	0.61	1.00	0.00	% Y38G	#
119	82.1	0.375	0.581	0.646	−0.029	0.437	−26.1	24.6	35.9	136.5	92.6	−58.4	103.6	119.0	119.4	0.59	1.00	0.00	% Y40G	#
120	81.5	371	0.584	0.635	−0.029	0.445	−26.7	24.4	36.2	137.5	92.3	−60.5	102.8	119.3	120.4	0.58	1.00	0.00	% Y41G	#
121	80.8	0.367	0.587	0.625	−03	0.452	−27.4	24.2	36.5	138.5	92.0	−62.6	102.1	119.8	121.5	0.57	1.00	0.00	% Y42G	#
122	80.2	363	0.591	0.614	−0.031	0.46	−28.0	23.9	36.9	139.4	91.7	−64.7	101.3	120.2	122.5	0.55	1.00	0.00	% Y44G	#
123	79.5	0.358	0.594	0.603	−0.031	0.467	−28.6	23.7	37.2	140.3	91.4	−66.8	100.5	120.7	123.6	0.54	1.00	0.00	% Y45G	#
124	78.9	0.354	0.597	0.593	−0.032	0.475	−29.2	23.4	37.5	141.2	91.1	−68.9	99.7	121.2	124.6	0.53	1.00	0.00	% Y46G	#
125	78.2	35	0.6	0.583	−0.032	0.483	−29.8	23.2	37.8	142.0	90.8	−71.0	98.9	121.8	125.7	0.51	1.00	0.00	% Y48G	#
126	77.6	0.345	0.603	0.573	−0.033	0.49	−30.3	23.0	38.0	142.8	90.6	−73.1	98.0	122.3	126.7	0.5	1.00	0.00	% Y49G	#
127	77.0	341	0.606	0.563	−0.034	0.498	−30.8	22.7	38.3	143.5	90.3	−75.2	97.2	122.9	127.7	0.49	1.00	0.00	% Y50G	#
128	76.3	0.337	0.609	0.553	−0.034	0.506	−31.3	22.5	38.6	144.3	90.0	−77.2	96.4	123.5	128.6	0.47	1.00	0.00	% Y52G	#
129	75.7	333	0.612	0.543	−035	0.513	−31.8	22.3	38.8	145.0	89.7	−79.2	95.5	124.1	129.6	0.46	1.00	0.00	% Y53G	#
130	75.1	0.328	0.615	0.534	−036	0.52	−32.3	22.0	39.1	145.6	89.4	−81.2	94.7	124.7	130.6	0.45	1.00	0.00	% Y54G	#
131	74.5	324	0.618	0.525	−037	0.527	−32.7	21.8	39.3	146.2	89.1	−83.1	93.8	125.3	131.5	0.44	1.00	0.00	% Y55G	#
132	74.0	32	62	0.516	−037	0.534	−33.1	21.6	39.5	146.8	88.9	−85.0	92.9	126.0	132.4	0.42	1.00	0.00	% Y57G	#
133	73.4	316	0.623	0.507	−038	0.541	−33.5	21.3	39.7	147.4	88.6	−86.9	92.1	126.6	133.3	0.41	1.00	0.00	% Y58G	#
134	72.8	312	0.625	0.498	−039	0.548	−33.9	21.1	39.9	148.0	88.3	−88.7	91.2	127.2	134.1	0.4	1.00	0.00	% Y59G	#
135	72.3	308	628	0.49	−04	0.555	−34.2	20.9	40.1	148.5	88.1	−90.4	90.3	127.8	135.0	0.38	1.00	0.00	% Y61G	#
136	71.7	0.303	0.63	0.48	−0.042	0.562	−34.6	20.6	40.3	149.2	87.8	−92.6	88.6	128.1	136.2	0.37	1.00	0.00	% Y62G	#
137	71.1	0.297	0.631	0.471	−0.044	0.569	−35.0	20.2	40.4	149.9	87.5	−94.6	86.6	128.3	137.5	0.36	1.00	0.00	% Y63G	#
138	70.5	292	0.632	0.463	−047	0.575	−35.3	19.9	40.5	150.6	87.2	−96.5	84.6	128.4	138.7	0.34	1.00	0.00	% Y65G	#
139	70.0	0.287	0.632	0.455	−05	0.58	−35.6	19.5	40.6	151.2	87.0	−98.2	82.6	128.4	139.9	0.33	1.00	0.00	% Y66G	#
140	69.6	283	0.632	0.448	−053	0.585	−35.9	19.2	40.7	151.7	86.8	−99.8	80.7	128.3	141.0	0.32	1.00	0.00	% Y67G	#
141	69.1	0.279	0.631	0.442	−056	0.589	−36.1	18.9	40.7	152.3	86.5	−101.1	78.8	128.2	142.0	0.3	1.00	0.00	% Y69G	#
142	68.7	275	0.631	0.436	−059	0.593	−36.2	18.6	40.7	152.8	86.3	−102.4	76.9	128.1	143.0	0.29	1.00	0.00	% Y70G	#
143	68.4	0.271	0.629	0.431	−062	0.596	−36.4	18.3	40.7	153.3	86.2	−103.5	75.1	127.9	144.0	0.28	1.00	0.00	% Y71G	#
144	68.0	268	628	0.427	−065	0.598	−36.5	18.0	40.7	153.7	86.0	−104.5	73.3	127.7	144.9	0.26	1.00	0.00	% Y73G	#
145	67.7	0.265	0.627	0.422	−068	0.601	−36.6	17.7	40.7	154.2	85.8	−105.4	71.7	127.5	145.7	0.25	1.00	0.00	% Y74G	#
146	67.4	262	0.625	0.419	−0.071	0.603	−36.7	17.4	40.7	154.6	85.7	−106.2	70.1	127.3	146.5	0.24	1.00	0.00	% Y76G	#
147	67.2	259	624	0.415	−074	0.605	−36.8	17.1	40.6	154.9	85.6	−107.0	68.6	127.1	147.3	0.22	1.00	0.00	% Y77G	#
148	66.9	257	622	0.412	−077	0.606	−36.9	16.9	40.6	155.3	85.4	−107.7	67.2	126.9	148.0	0.21	1.00	0.00	% Y78G	#
149	65.5	249	625	0.398	−08	0.618	−37.1	16.3	40.5	156.1	84.7	−110.8	65.3	128.6	149.4	0.2	1.00	0.00	% Y79G	#
150	64.2	242	629	0.386	−081	0.629	−37.1	15.9	40.4	156.7	84.1	−113.4	64.4	130.4	150.4	0.18	1.00	0.00	% Y81G	#
151	63.1	238	632	376	−081	0.637	−37.1	15.6	40.2	157.1	83.5	−115.4	63.7	131.8	151.0	0.17	1.00	0.00	% Y82G	#
152	63.1	238	632	376	−081	0.637	−37.1	15.6	40.2	157.1	83.5	−115.4	63.7	131.8	151.0	0.16	1.00	0.00	% Y83G	#
153	63.1	238	632	376	−081	0.637	−37.1	15.6	40.2	157.1	83.5	−115.4	63.7	131.8	151.0	0.14	1.00	0.00	% Y85G	#
154	63.1	238	632	376	−081	0.637	−37.1	15.6	40.2	157.1	83.5	−115.4	63.7	131.8	151.0	0.13	1.00	0.00	% Y86G	#
155	63.1	238	632	376	−081	0.637	−37.1	15.6	40.2	157.1	83.5	−115.4	63.7	131.8	151.0	0.12	1.00	0.00	% Y87G	#
156	63.1	238	632	376	−081	0.637	−37.1	15.6	40.2	157.1	83.5	−115.4	63.7	131.8	151.0	0.1	1.00	0.00	% Y89G	#
157	60.9	0.217	0.608	0.357	−0.113	0.643	−36.9	13.1	39.2	160.3	82.3	−119.3	50.6	129.6	157.0	0.09	1.00	0.00	% Y90G	#
158	60.7	214	0.603	356	−12	642	−36.8	12.7	39.0	161.0	82.2	−119.5	48.2	128.8	158.0	0.08	1.00	0.00	% Y91G	#
159	60.4	0.212	0.596	0.355	−0.127	0.641	−36.8	12.2	38.7	161.6	82.0	−119.6	45.8	128.0	159.0	0.07	1.00	0.00	% Y92G	#
160	60.2	209	59	0.355	−135	0.639	−36.6	11.7	38.5	162.2	81.9	−119.5	43.4	127.2	160.0	0.05	1.00	0.00	% Y94G	#
161	60.0	0.207	0.583	0.355	−0.142	0.637	−36.5	11.2	38.2	162.9	81.8	−119.4	41.0	126.2	161.0	0.04	1.00	0.00	% Y95G	#
162	59.9	205	0.577	0.355	−15	0.634	−36.4	10.7	38.0	163.5	81.7	−119.2	38.8	125.3	161.9	0.03	1.00	0.00	% Y96G	#
163	59.7	0.203	0.571	0.355	−157	0.632	−36.3	10.2	37.7	164.1	81.7	−119.0	36.7	124.5	162.8	0.01	1.00	0.00	% Y98G	#
164	59.6	201	564	0.356	−165	629	−36.2	9.8	37.5	164.8	81.6	−118.6	34.5	123.6	163.7	0	1.00	0.00	% Y99G	#
165	59.4	0.199	0.557	0.358	−174	0.625	−36.0	9.2	37.2	165.6	81.5	−118.1	32.1	122.4	164.7	0.00	1.00	0.01	% G00B	#
166	59.3	197	548	36	−184	62	−35.8	8.6	36.8	166.4	81.4	−117.4	29.5	121.1	165.8	0.00	1.00	0.03	% G01B	#
167	59.2	196	54	0.363	−194	0.616	−35.6	8.0	36.5	167.2	81.4	−116.6	27.1	119.8	166.8	0.00	1.00	0.05	% G02B	#
168	59.2	195	534	0.365	−202	612	−35.4	7.5	36.2	167.9	81.4	−116.0	25.2	118.8	167.7	0.00	1.00	0.07	% G03B	#
169	59.1	194	527	367	−21	608	−35.2	7.0	35.9	168.6	81.3	−115.3	23.3	117.7	168.5	0.00	1.00	0.09	% G04B	#
170	59.0	0.192	52	0.37	−219	0.604	−35.0	6.5	35.6	169.4	81.3	−114.6	21.2	116.5	169.4	0.00	1.00	0.11	% G05B	#
171	59.0	191	513	373	−229	599	−34.8	5.9	35.3	170.3	81.3	−113.8	19.1	115.4	170.4	0.00	1.00	0.13	% G06B	#
172	58.9	19	506	376	−239	595	−34.6	5.3	35.0	171.2	81.2	−112.9	16.9	114.1	171.4	0.00	1.00	0.15	% G07B	#
173	58.8	189	498	379	−25	59	−34.4	4.6	34.7	172.2	81.2	−111.9	14.7	112.9	172.5	0.00	1.00	0.17	% G08B	#
174	58.8	188	49	0.383	−261	585	−34.1	4.0	34.4	173.3	81.1	−110.9	12.4	111.6	173.6	0.00	1.00	0.19	% G09B	#
175	58.7	186	482	387	−273	579	−33.9	3.2	34.0	174.4	81.1	−109.8	10.0	110.2	174.7	0.00	1.00	0.21	% G10B	#
176	58.7	185	474	391	−286	574	−33.6	2.5	33.7	175.6	81.1	−108.6	7.6	108.8	175.9	0.00	1.00	0.23	% G11B	#
177	58.6	184	467	395	−296	569	−33.3	1.9	33.4	176.6	81.1	−107.5	5.8	107.7	176.9	0.00	1.00	0.25	% G12B	#
178	58.6	184	461	399	−306	565	−33.1	1.3	33.1	177.6	81.0	−106.5	4.0	106.6	177.8	0.00	1.00	0.27	% G13B	#
179	58.5	183	455	403	−316	561	−32.8	0.7	32.8	178.6	81.0	−105.5	2.2	105.5	178.7	0.00	1.00	0.29	% G14B	#

CIEXYZ data of CIE test colours 9 (R): 23.3 12.4 3.2, 10 (Y): 58.8 60.2 9.5, 11 (G): 12.0 19.8 11.9, 12 (B): 5.2 5.9 21.2

rgb**$_{e,ab}$ and CIE data of a elementary hue circle according to CIE R1-47 for *Ostwald* colours for CIE illuminant D50

***Yxy, abc*$_{AB}$, *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} = 27.1, 88.5, 164.3, 263.9 of *CIELAB*, and 90 intended hue angles:

180, 181, ..., 269, CIELAB data of CIE test colours 9 (R): 41.8 61.9 31.7, 10 (Y): 81.9 1.7 71.5, 11 (G): 51.6 −41.1 11.5, 12 (B): 29.2 −5.2 −49.3

no.$_{ab}$	*Y*	*x*	*y*	*a*	*b*	*c*$_{AB}$	*A*	*B*	*C*$_{AB}$	*h*$_{AB}$	*L**	*a**	*b**	*C**$_{ab}$	*h*$_{ab}$	*rgb**$_{e,ab}$			*Code*$_{ab}$
180	58.5	0.183	0.449	0.407	−0.326	0.557	−32.6	0.1	32.6	179.6	81.0	−104.4	0.5	104.4	179.7	0.00	1.00	0.31	% G15B #
181	58.5	0.182	0.443	0.411	−0.337	0.552	−32.3	−0.4	32.3	180.7	81.0	−103.3	−1.2	103.3	180.6	0.00	1.00	0.33	% G16B #
182	58.4	0.181	0.437	0.415	−0.347	0.548	−32.0	−1.0	32.0	181.8	80.9	−102.2	−2.9	102.2	181.6	0.00	1.00	0.35	% G17B #
183	58.4	0.181	0.431	0.42	−0.358	0.544	−31.7	−1.6	31.8	183.0	80.9	−101.1	−4.7	101.2	182.6	0.00	1.00	0.37	% G18B #
184	58.3	0.18	0.425	0.424	−0.369	0.541	−31.5	−2.3	31.5	184.2	80.9	−99.9	−6.4	100.1	183.6	0.00	1.00	0.39	% G19B #
185	58.3	0.18	0.419	0.429	−0.38	0.537	−31.2	−2.9	31.3	185.4	80.9	−98.7	−8.1	99.1	184.7	0.00	1.00	0.41	% G20B #
186	58.3	0.179	0.414	0.433	−0.391	0.534	−30.9	−3.6	31.1	186.6	80.9	−97.6	−9.8	98.1	185.7	0.00	1.00	0.43	% G21B #
187	58.2	0.179	0.408	0.438	−0.403	0.53	−30.6	−4.2	30.9	187.9	80.9	−96.4	−11.5	97.1	186.8	0.00	1.00	0.45	% G22B #
188	58.2	0.178	0.403	0.443	−0.414	0.527	−30.3	−4.9	30.7	189.2	80.8	−95.2	−13.1	96.1	187.8	0.00	1.00	0.47	% G23B #
189	58.2	0.178	0.397	0.448	−0.425	0.525	−30.0	−5.5	30.5	190.5	80.8	−94.1	−14.8	95.2	188.9	0.00	1.00	0.49	% G24B #
190	58.1	0.177	0.392	0.452	−0.437	0.522	−29.7	−6.2	30.3	191.8	80.8	−92.9	−16.3	94.3	190.0	0.00	1.00	0.51	% G25B #
191	58.1	0.177	0.387	0.458	−0.449	0.519	−29.4	−6.9	30.2	193.2	80.8	−91.6	−18.0	93.3	191.1	0.00	1.00	0.53	% G26B #
192	58.1	0.177	0.382	0.464	−0.46	0.517	−29.0	−7.6	30.0	194.6	80.8	−90.2	−19.6	92.4	192.2	0.00	1.00	0.55	% G27B #
193	58.1	0.177	0.377	0.469	−0.472	0.514	−28.7	−8.2	29.9	196.0	80.8	−89.0	−21.2	91.5	193.4	0.00	1.00	0.57	% G28B #
194	58.1	0.176	0.372	0.474	−0.483	0.512	−28.4	−8.9	29.8	197.4	80.8	−87.7	−22.7	90.6	194.5	0.00	1.00	0.59	% G29B #
195	58.1	0.176	0.367	0.48	−0.494	0.511	−28.1	−9.5	29.7	198.8	80.8	−86.5	−24.1	89.8	195.5	0.00	1.00	0.61	% G30B #
196	58.1	0.176	0.363	0.485	−0.505	0.51	−27.8	−10.2	29.6	200.1	80.8	−85.3	−25.5	89.0	196.6	0.00	1.00	0.63	% G31B #
197	58.0	0.176	0.359	0.49	−0.516	0.509	−27.5	−10.8	29.5	201.4	80.7	−84.1	−26.8	88.3	197.6	0.00	1.00	0.65	% G32B #
198	58.0	0.176	0.355	0.495	−0.526	0.508	−27.2	−11.3	29.5	202.6	80.7	−83.1	−28.0	87.7	198.6	0.00	1.00	0.67	% G33B #
199	58.0	0.175	0.352	0.499	−0.535	0.508	−26.9	−11.9	29.4	203.8	80.7	−82.0	−29.2	87.1	199.6	0.00	1.00	0.69	% G34B #
200	57.9	0.175	0.348	0.503	−0.544	0.508	−26.6	−12.4	29.4	205.0	80.7	−81.1	−30.3	86.6	200.5	0.00	1.00	0.71	% G35B #
201	57.9	0.175	0.345	0.507	−0.553	0.508	−26.4	−12.9	29.4	206.0	80.6	−80.2	−31.3	86.1	201.3	0.00	1.00	0.73	% G36B #
202	57.8	0.175	0.343	0.511	−0.561	0.508	−26.2	−13.3	29.4	207.0	80.6	−79.4	−32.2	85.7	202.1	0.00	1.00	0.75	% G37B #
203	57.6	0.174	0.338	0.516	−0.576	0.511	−25.8	−14.2	29.4	208.8	80.5	−78.2	−34.0	85.3	203.5	0.00	1.00	0.77	% G38B #
204	58.0	0.171	0.335	0.51	−0.583	0.513	−25.5	−14.8	29.3	209.7	79.7	−78.8	−34.8	86.2	204.0	0.00	1.00	0.79	% G39B #
205	54.4	0.167	0.331	0.506	−0.605	0.534	−24.9	−15.0	29.1	211.0	78.7	−78.9	−36.6	87.0	204.9	0.00	1.00	0.81	% G40B #
206	52.9	0.164	0.326	0.503	−0.623	0.546	−24.3	−15.5	28.9	212.4	77.8	−78.8	−38.2	87.6	205.8	0.00	1.00	0.83	% G41B #
207	51.2	0.16	0.321	0.499	−0.643	0.56	−23.8	−16.0	28.7	214.0	76.8	−78.7	−39.9	88.2	206.8	0.00	1.00	0.85	% G42B #
208	49.5	0.157	0.316	0.496	−0.665	0.575	−23.1	−16.6	28.5	215.6	75.8	−78.5	−41.6	88.9	207.9	0.00	1.00	0.87	% G43B #
209	47.9	0.153	0.311	0.493	−0.687	0.591	−22.5	−17.1	28.3	217.2	74.7	−78.3	−43.4	89.5	208.9	0.00	1.00	0.89	% G44B #
210	46.4	0.15	0.306	0.49	−0.71	0.607	−21.9	−17.6	28.1	218.7	73.8	−78.0	−45.0	90.1	210.0	0.00	1.00	0.91	% G45B #
211	44.9	0.147	0.301	0.489	−0.732	0.622	−21.3	−18.1	28.0	220.2	72.8	−77.5	−46.6	90.4	211.0	0.00	1.00	0.93	% G46B #
212	43.7	0.145	0.296	0.489	−0.753	0.636	−20.7	−18.5	27.8	221.7	72.0	−76.8	−48.0	90.6	212.0	0.00	1.00	0.95	% G47B #
213	42.6	0.143	0.292	0.49	−0.772	0.648	−20.2	−18.8	27.6	223.0	71.3	−75.9	−49.3	90.5	213.0	0.00	1.00	0.97	% G48B #
214	41.6	0.141	0.288	0.492	−0.791	0.66	−19.6	−19.2	27.4	224.3	70.6	−74.9	−50.5	90.4	213.9	0.00	1.0	1.00	% G49B #
215	40.6	0.14	0.284	0.493	−0.81	0.672	−19.1	−19.5	27.3	225.7	69.9	−74.4	−51.7	90.3	214.9	0.00	0.98	1.00	% G50B #
216	39.6	0.138	0.28	0.495	−0.829	0.685	−18.6	−19.8	27.2	226.8	69.2	−73.1	−52.9	90.2	215.8	0.00	0.96	1.00	% G51B #
217	38.7	0.137	0.275	0.497	−0.85	0.698	−18.0	−20.1	27.0	228.1	68.5	−72.1	−54.0	90.1	216.8	0.00	0.94	1.00	% G52B #
218	37.7	0.136	0.271	0.5	−0.871	0.713	−17.5	−20.4	26.9	229.4	67.8	−70.9	−55.2	89.9	217.9	0.00	0.92	1.00	% G53B #
219	36.8	0.134	0.267	0.503	−0.893	0.728	−16.9	−20.7	26.8	230.7	67.1	−69.7	−56.4	89.7	218.9	0.00	0.9	1.00	% G54B #
220	36.1	0.133	0.264	0.505	−0.91	0.739	−16.5	−20.9	26.7	231.6	66.6	−68.9	−57.3	89.7	219.7	0.00	0.88	1.00	% G55B #
221	35.5	0.132	0.261	0.507	−0.926	0.751	−16.2	−21.1	26.6	232.5	66.1	−68.1	−58.1	89.6	220.4	0.00	0.86	1.00	% G56B #
222	34.8	0.131	0.258	0.51	−0.944	0.763	−15.8	−21.4	26.6	233.5	65.6	−67.1	−59.0	89.4	221.3	0.00	0.84	1.00	% G57B #
223	34.1	0.131	0.254	0.514	−0.964	0.777	−15.3	−21.6	26.5	234.6	65.0	−66.0	−60.0	89.2	222.2	0.00	0.82	1.00	% G58B #
224	33.3	0.13	0.25	0.519	−0.987	0.794	−14.8	−21.9	26.4	235.9	64.4	−64.6	−61.1	88.9	223.4	0.00	0.8	1.00	% G59B #
225	32.4	0.129	0.246	0.525	−1.015	0.813	−14.2	−22.2	26.3	237.3	63.6	−62.8	−62.4	88.6	224.7	0.00	0.78	1.00	% G60B #
226	31.7	0.128	0.242	0.53	−1.036	0.828	−13.7	−22.4	26.3	238.4	63.1	−61.5	−63.3	88.3	225.8	0.00	0.76	1.00	% G61B #
227	31.2	0.128	0.24	0.534	−1.052	0.84	−13.4	−22.5	26.2	239.2	62.7	−60.5	−64.0	88.1	226.6	0.00	0.74	1.00	% G62B #
228	30.7	0.127	0.237	0.538	−1.068	0.852	−13.0	−22.7	26.2	240.0	62.3	−59.5	−64.7	87.9	227.4	0.00	0.72	1.00	% G63B #
229	30.2	0.127	0.234	0.543	−1.086	0.865	−12.7	−22.8	26.1	240.8	61.8	−58.4	−65.4	87.7	228.2	0.00	0.7	1.00	% G64B #
230	29.7	0.127	0.232	0.547	−1.104	0.879	−12.3	−23.0	26.1	241.7	61.4	−57.3	−66.2	87.5	229.1	0.00	0.68	1.00	% G65B #
231	29.2	0.126	0.229	0.552	−1.123	0.893	−12.0	−23.2	26.1	242.6	61.0	−56.1	−66.9	87.3	230.0	0.00	0.66	1.00	% G66B #
232	28.7	0.126	0.226	0.558	−1.143	0.909	−11.6	−23.3	26.1	243.4	60.5	−54.9	−67.7	87.2	230.9	0.00	0.64	1.00	% G67B #
233	28.2	0.125	0.223	0.563	−1.164	0.925	−11.2	−23.5	26.1	244.3	60.0	−53.6	−68.5	87.0	231.9	0.00	0.62	1.00	% G68B #
234	27.6	0.125	0.22	0.569	−1.186	0.943	−10.9	−23.7	26.1	245.2	59.5	−52.4	−69.3	86.9	232.9	0.00	0.6	1.00	% G69B #
235	27.1	0.125	0.217	0.576	−1.209	0.961	−10.5	−23.8	26.1	246.1	59.1	−51.0	−70.1	86.7	233.9	0.00	0.58	1.00	% G70B #
236	26.6	0.124	0.214	0.582	−1.232	0.98	−10.2	−24.0	26.1	247.1	58.6	−49.6	−70.9	86.5	235.0	0.00	0.56	1.00	% G71B #
237	26.0	0.124	0.211	0.589	−1.258	1.001	−9.7	−24.2	26.1	248.0	58.1	−48.2	−71.8	86.5	236.1	0.00	0.54	1.00	% G72B #
238	25.5	0.124	0.207	0.597	−1.284	1.022	−9.3	−24.3	26.1	248.9	57.6	−46.8	−72.7	86.4	237.2	0.00	0.52	1.00	% G73B #
239	25.0	0.123	0.204	0.604	−1.311	1.045	−8.9	−24.5	26.1	249.8	57.0	−45.3	−73.5	86.4	238.3	0.00	0.5	1.00	% G74B #
240	24.4	0.123	0.201	0.613	−1.339	1.068	−8.6	−24.7	26.1	250.8	56.5	−43.8	−74.4	86.4	239.5	0.00	0.48	1.00	% G75B #
241	23.9	0.123	0.198	0.621	−1.368	1.093	−8.2	−24.8	26.2	251.7	56.0	−42.2	−75.3	86.4	240.6	0.00	0.46	1.00	% G76B #
242	23.4	0.123	0.195	0.63	−1.398	1.119	−7.8	−25.0	26.2	252.6	55.5	−40.7	−76.2	86.4	241.9	0.00	0.44	1.00	% G77B #
243	22.9	0.122	0.192	0.639	−1.425	1.142	−7.4	−25.1	26.2	253.4	55.0	−39.2	−77.0	86.4	243.0	0.00	0.42	1.00	% G78B #
244	22.5	0.122	0.189	0.647	−1.451	1.164	−7.1	−25.3	26.3	254.2	54.6	−37.8	−77.7	86.4	244.0	0.00	0.4	1.00	% G79B #
245	22.1	0.122	0.186	0.656	−1.477	1.187	−6.8	−25.4	26.3	254.9	54.2	−36.3	−78.4	86.4	245.1	0.00	0.38	1.00	% G80B #
246	21.7	0.122	0.184	0.665	−1.503	1.21	−6.5	−25.5	26.3	255.7	53.7	−34.8	−79.1	86.5	246.1	0.00	0.36	1.00	% G81B #
247	21.3	0.122	0.181	0.674	−1.53	1.235	−6.1	−25.6	26.4	256.4	53.3	−33.5	−79.8	86.6	247.2	0.00	0.34	1.00	% G82B #
248	20.9	0.122	0.179	0.684	−1.558	1.26	−5.8	−25.7	26.4	257.1	52.9	−32.0	−80.5	86.7	248.2	0.00	0.32	1.00	% G83B #
249	20.6	0.122	0.176	0.694	−1.587	1.285	−5.5	−25.9	26.5	257.8	52.5	−30.6	−81.2	86.8	249.3	0.00	0.29	1.00	% G85B #
250	20.2	0.122	0.174	0.704	−1.616	1.312	−5.2	−26.0	26.5	258.5	52.1	−29.1	−81.9	87.0	250.4	0.00	0.27	1.00	% G86B #
251	19.8	0.122	0.171	0.714	−1.645	1.339	−4.9	−26.1	26.6	259.2	51.6	−27.7	−82.6	87.2	251.4	0.00	0.25	1.00	% G87B #
252	19.5	0.122	0.169	0.725	−1.675	1.366	−4.6	−26.2	26.6	259.9	51.2	−26.2	−83.3	87.4	252.5	0.00	0.23	1.00	% G88B #
253	19.1	0.122	0.166	0.736	−1.706	1.395	−4.3	−26.3	26.7	260.5	50.8	−24.7	−84.0	87.6	253.5	0.00	0.21	1.00	% G89B #
254	18.8	0.122	0.164	0.747	−1.737	1.424	−4.0	−26.4	26.7	261.2	50.4	−23.3	−84.7	87.8	254.6	0.00	0.19	1.00	% G90B #
255	18.4	0.122	0.161	0.758	−1.768	1.453	−3.7	−26.5	26.8	261.8	50.0	−21.8	−85.4	88.1	255.6	0.00	0.17	1.00	% G91B #
256	18.1	0.122	0.159	0.769	−1.8	1.483	−3.5	−26.6	26.8	262.4	49.6	−20.4	−86.0	88.4	256.6	0.00	0.15	1.00	% G92B #
257	17.8	0.122	0.157	0.781	−1.832	1.513	−3.2	−26.7	26.9	263.0	49.2	−19.0	−86.7	88.7	257.6	0.00	0.13	1.00	% G93B #
258	17.4	0.122	0.154	0.793	−1.865	1.544	−2.9	−26.8	27.0	263.6	48.8	−17.5	−87.3	89.1	258.6	0.00	0.11	1.00	% G94B #
259	17.1	0.122	0.152	0.805	−1.897	1.575	−2.7	−26.9	27.0	264.2	48.4	−16.1	−88.0	89.5	259.5	0.00	0.09	1.00	% G95B #
260	16.8	0.123	0.15	0.817	−1.93	1.607	−2.4	−27.0	27.1	264.7	48.1	−14.8	−88.6	89.8	260.5	0.00	0.07	1.00	% G96B #
261	16.5	0.123	0.148	0.829	−1.963	1.639	−2.2	−27.1	27.2	265.2	47.7	−13.4	−89.2	90.2	261.4	0.00	0.05	1.00	% G97B #
262	16.3	0.123	0.146	0.841	−1.996	1.671	−1.9	−27.1	27.2	265.7	47.3	−12.1	−89.8	90.6	262.3	0.00	0.03	1.00	% G98B #
263	16.0	0.123	0.144	0.853	−2.029	1.703	−1.7	−27.2	27.3	266.2	47.0	−10.7	−90.4	91.0	263.2	0.00	0.01	1.00	% G99B #
264	15.7	0.123	0.142	0.866	−2.062	1.735	−1.5	−27.3	27.3	266.7	46.6	−9.4	−91.0	91.5	264.0	0.0	0.00	1.00	% B00R #
265	15.4	0.123	0.139	0.881	−2.105	1.777	−1.2	−27.4	27.4	267.3	46.2	−7.8	−91.7	92.0	265.1	0.01	0.00	1.00	% B00R #
266	15.1	0.123	0.137	0.898	−2.15	1.822	−0.9	−27.5	27.5	267.9	45.8	−6.1	−92.4	92.7	266.1	0.03	0.00	1.00	% B01R #
267	14.8	0.123	0.135	0.914	−2.194	1.865	−0.7	−27.6	27.6	268.4	45.4	−4.5	−93.1	93.3	267.1	0.04	0.00	1.00	% B02R #
268	14.5	0.123	0.132	0.931	−2.237	1.907	−0.4	−27.7	27.7	269.0	44.9	−3.0	−93.8	93.9	268.1	0.06	0.00	1.00	% B03R #
269	14.2	0.123	0.13	0.947	−2.279	1.949	−0.2	−27.7	27.7	269.5	44.5	−1.5	−94.5	94.5	269.0	0.08	0.00	1.00	% B04R #

CIEXYZ data of CIE test colours 9 (R): 23.3 12.4 3.2, 10 (Y): 58.8 60.2 9.5, 11 (G): 12.0 19.8 11.9, 12 (B): 5.2 5.9 21.2

rgb**$_{e,ab}$ and CIE data of a elementary hue circle according to CIE R1-47 for *Ostwald* colours for CIE illuminant D50

***Yxy, abc*$_{AB}$, *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} = 27.1, 88.5, 164.3, 263.9 of *CIELAB*, and 90 intended hue angles:

270, 271, ..., 360, CIELAB data of CIE test colours 9 (R): 41.8 61.9 31.7, 10 (Y): 81.9 1.7 71.5, 11 (G): 51.6 −41.1 11.5, 12 (B): 29.2 −5.2 −49.3

no.,ab	*Y*	*x*	*y*	*a*	*b*	c_{AB}	*A*	*B*	C_{AB}	h_{AB}	*L**	*a**	*b**	C^*_{ab}	h_{ab}	*rgb**$_{e,ab}$				*Code*$_{ab}$
270	13.9	0.124	0.128	0.964	−2.321	1.991	0.0	−27.8	27.8	270.0	44.2	0.0	−95.1	95.1	270.0	0.09	0.00	1.00	%	B04R #
271	13.7	0.124	0.126	0.982	−2.365	2.035	0.2	−27.9	27.9	270.5	43.8	1.5	−95.7	95.7	270.9	0.11	0.00	1.00	%	B05R #
272	13.4	0.124	0.124	1.0	−2.41	2.081	0.4	−28.0	28.0	271.0	43.4	3.1	−96.3	96.4	271.9	0.13	0.00	1.00	%	B06R #
273	13.1	0.124	0.122	1.021	−2.459	2.13	0.7	−28.0	28.0	271.5	43.0	4.9	−97.0	97.1	272.9	0.14	0.00	1.00	%	B07R #
274	12.8	0.125	0.12	1.043	−2.512	2.183	1.0	−28.1	28.1	272.0	42.6	6.7	−97.7	97.9	273.9	0.16	0.00	1.00	%	B08R #
275	12.5	0.125	0.117	1.067	−2.569	2.242	1.3	−28.2	28.2	272.6	42.1	8.6	−98.4	98.8	275.0	0.17	0.00	1.00	%	B08R #
276	12.2	0.126	0.115	1.093	−2.632	2.305	1.5	−28.2	28.3	273.2	41.6	10.6	−99.2	99.8	276.1	0.19	0.00	1.00	%	B09R #
277	11.9	0.126	0.112	1.121	−2.698	2.373	1.8	−28.3	28.4	273.7	41.1	12.7	−100.0	100.8	277.2	0.21	0.00	1.00	%	B10R #
278	11.6	0.126	0.11	1.15	−2.767	2.444	2.1	−28.4	28.5	274.3	40.6	14.8	−100.8	101.9	278.3	0.22	0.00	1.00	%	B11R #
279	11.3	0.127	0.107	1.181	−2.84	2.52	2.4	−28.4	28.6	274.9	40.1	16.9	−101.6	103.0	279.4	0.24	0.00	1.00	%	B12R #
280	11.0	0.127	0.105	1.214	−2.917	2.599	2.7	−28.5	28.6	275.5	39.6	19.1	−102.4	104.2	280.5	0.26	0.00	1.00	%	B13R #
281	10.7	0.128	0.102	1.248	−2.998	2.683	3.0	−28.6	28.7	276.0	39.1	21.3	−103.2	105.4	281.6	0.27	0.00	1.00	%	B13R #
282	10.4	0.128	0.1	1.284	−3.082	2.77	3.3	−28.6	28.8	276.6	38.5	23.5	−104.1	106.7	282.7	0.29	0.00	1.00	%	B14R #
283	10.1	0.128	0.097	1.321	−3.169	2.861	3.6	−28.7	28.9	277.1	38.0	25.7	−104.9	108.0	283.8	0.3	0.00	1.00	%	B15R #
284	9.8	0.129	0.095	1.359	−3.259	2.955	3.8	−28.8	29.0	277.6	37.5	28.0	−105.7	109.4	284.8	0.32	0.00	1.00	%	B16R #
285	9.5	0.129	0.092	1.399	−3.352	3.053	4.1	−28.8	29.1	278.1	37.0	30.2	−106.5	110.7	285.8	0.34	0.00	1.00	%	B17R #
286	9.2	0.13	0.09	1.44	−3.447	3.154	4.4	−28.9	29.2	278.6	36.5	32.4	−107.3	112.1	286.7	0.35	0.00	1.00	%	B17R #
287	9.0	0.13	0.088	1.482	−3.545	3.257	4.6	−28.9	29.3	279.1	36.0	34.5	−108.1	113.5	287.7	0.37	0.00	1.00	%	B18R #
288	8.7	0.131	0.085	1.525	−3.645	3.363	4.9	−29.0	29.4	279.6	35.5	36.6	−108.9	114.9	288.6	0.39	0.00	1.00	%	B19R #
289	8.5	0.131	0.083	1.569	−3.747	3.47	5.1	−29.0	29.5	280.0	35.0	38.7	−109.7	116.3	289.4	0.4	0.00	1.00	%	B20R #
290	8.2	0.131	0.081	1.613	−3.849	3.579	5.3	−29.1	29.5	280.4	34.5	40.7	−110.4	117.7	290.2	0.42	0.00	1.00	%	B21R #
291	8.0	0.132	0.079	1.657	−3.952	3.688	5.5	−29.1	29.6	280.8	34.0	42.7	−111.2	119.1	291.0	0.43	0.00	1.00	%	B21R #
292	7.4	0.13	0.074	1.738	−4.241	3.987	5.7	−29.2	29.8	281.1	32.8	45.7	−113.1	122.0	292.0	0.45	0.00	1.00	%	B22R #
293	6.9	0.128	0.07	1.817	−4.529	4.285	5.9	−29.3	29.9	281.4	31.7	48.4	−114.8	124.6	292.8	0.47	0.00	1.00	%	B23R #
294	6.6	0.127	0.067	1.892	−4.77	4.536	6.1	−29.3	30.0	281.8	30.6	50.9	−116.1	126.8	293.6	0.48	0.00	1.00	%	B24R #
295	6.3	0.128	0.065	1.966	−4.931	4.709	6.3	−29.3	30.0	282.2	30.3	53.5	−116.9	128.6	294.6	0.5	0.00	1.00	%	B25R #
296	6.3	0.131	0.064	2.038	−4.982	4.775	6.7	−29.3	30.1	283.0	30.1	56.4	−117.1	130.0	295.7	0.52	0.00	1.00	%	B26R #
297	6.3	0.136	0.064	2.104	−4.912	4.721	7.2	−29.2	30.1	283.9	30.3	59.3	−116.6	130.9	296.9	0.53	0.00	1.00	%	B26R #
298	6.5	0.141	0.065	2.143	−4.813	4.635	7.6	−29.1	30.1	284.7	30.6	61.3	−116.0	131.3	297.8	0.55	0.00	1.00	%	B27R #
299	6.6	0.146	0.066	2.181	−4.703	4.539	8.0	−29.0	30.1	285.5	31.0	63.3	−115.4	131.6	298.7	0.56	0.00	1.00	%	B28R #
300	6.8	0.151	0.068	2.219	−4.584	4.435	8.5	−29.0	30.2	286.4	31.3	65.4	−114.7	132.0	299.7	0.58	0.00	1.00	%	B29R #
301	7.0	0.156	0.069	2.256	−4.457	4.324	9.0	−28.9	30.3	287.3	31.8	67.5	−113.9	132.4	300.6	0.6	0.00	1.00	%	B30R #
302	7.2	0.162	0.07	2.293	−4.323	4.208	9.5	−28.8	30.3	288.4	32.2	69.6	−113.0	132.7	301.6	0.61	0.00	1.00	%	B30R #
303	7.4	0.168	0.072	2.328	−4.184	4.088	10.1	−28.7	30.4	289.4	32.8	71.8	−112.0	133.1	302.6	0.63	0.00	1.00	%	B31R #
304	7.7	0.175	0.074	2.361	−4.041	3.966	10.7	−28.5	30.5	290.6	33.3	74.0	−111.0	133.4	303.6	0.65	0.00	1.00	%	B32R #
305	7.9	0.182	0.076	2.393	−3.893	3.834	11.4	−28.4	30.6	291.6	33.9	76.1	−109.9	133.7	304.7	0.68	0.00	1.00	%	B33R #
306	8.2	0.189	0.078	2.422	−3.75	3.718	12.0	−28.3	30.8	293.0	34.5	78.3	−108.8	134.1	305.7	0.68	0.00	1.00	%	B34R #
307	8.6	0.196	0.08	2.449	−3.604	3.595	12.7	−28.1	30.9	294.4	35.2	80.4	−107.6	134.4	306.7	0.69	0.00	1.00	%	B34R #
308	8.9	0.204	0.082	2.474	−3.458	3.473	13.5	−28.0	31.1	295.7	35.9	82.6	−106.3	134.6	307.8	0.71	0.00	1.00	%	B35R #
309	9.3	0.211	0.084	2.497	−3.313	3.354	14.3	−27.8	31.3	297.1	36.6	84.7	−105.0	134.9	308.8	0.73	0.00	1.00	%	B36R #
310	9.7	0.219	0.087	2.517	−3.171	3.238	15.1	−27.7	31.5	298.6	37.3	86.7	−103.6	135.1	309.9	0.74	0.00	1.00	%	B37R #
311	10.1	0.227	0.089	2.534	−3.032	3.125	16.0	−27.5	31.8	300.1	38.1	88.7	−102.2	135.4	310.9	0.76	0.00	1.00	%	B38R #
312	10.6	0.236	0.092	2.548	−2.896	3.016	16.8	−27.3	32.1	301.6	38.9	90.6	−100.7	135.5	311.9	0.78	0.00	1.00	%	B39R #
313	11.1	0.244	0.095	2.559	−2.764	2.91	17.7	−27.1	32.4	303.2	39.8	92.5	−99.2	135.7	312.9	0.79	0.00	1.00	%	B39R #
314	11.6	0.252	0.098	2.567	−2.637	2.809	18.7	−26.9	32.8	304.7	40.7	94.3	−97.6	135.8	314.0	0.81	0.00	1.00	%	B40R #
315	12.3	0.261	0.102	2.562	−2.489	2.686	19.7	−26.6	33.2	306.5	41.7	95.9	−95.7	135.5	315.0	0.82	0.00	1.00	%	B41R #
316	13.2	0.271	0.107	2.54	−2.32	2.539	20.8	−26.3	33.6	308.3	43.1	97.1	−93.3	134.7	316.1	0.84	0.00	1.00	%	B42R #
317	14.1	0.281	0.112	2.516	−2.163	2.402	22.0	−26.0	34.0	310.2	44.5	98.2	−90.9	133.8	317.2	0.86	0.00	1.00	%	B43R #
318	15.2	0.291	0.117	2.489	−2.018	2.275	23.1	−25.6	34.5	312.0	45.9	99.2	−88.4	132.9	318.2	0.87	0.00	1.00	%	B43R #
319	16.2	0.301	0.122	2.461	−1.884	2.158	24.3	−25.2	35.0	313.9	47.3	100.0	−85.9	131.9	319.3	0.89	0.00	1.00	%	B44R #
320	17.3	31	0.127	2.432	−1.761	2.05	25.5	−24.8	35.6	315.7	48.7	100.8	−83.4	130.8	320.3	0.9	0.00	1.00	%	B45R #
321	18.5	0.319	0.132	2.403	−1.649	1.952	26.6	−24.4	36.1	317.4	50.1	101.4	−80.9	129.7	321.4	0.92	0.00	1.00	%	B46R #
322	19.7	0.327	0.138	2.373	−1.546	1.862	27.8	−24.0	36.7	319.2	51.5	101.9	−78.4	128.6	322.4	0.94	0.00	1.00	%	B47R #
323	20.9	0.335	0.143	2.344	−1.453	1.779	28.9	−23.5	37.2	320.8	52.9	102.3	−75.9	127.4	323.4	0.95	0.00	1.00	%	B47R #
324	22.2	0.343	0.148	2.315	−1.368	1.704	30.0	−23.0	37.8	322.4	54.2	102.7	−73.4	126.2	324.4	0.97	0.00	1.00	%	B48R #
325	23.4	0.35	0.153	2.288	−1.292	1.636	31.0	−22.5	38.4	323.9	55.5	102.9	−71.1	125.1	325.3	1.00	0.00	1.0	%	B49R #
326	24.7	0.357	0.158	2.261	−1.222	1.574	32.0	−22.1	38.9	325.4	56.8	103.1	−68.7	123.9	326.3	1.01	0.00	1.00	%	B49R #
327	25.9	0.364	0.162	2.235	−1.161	1.519	33.0	−21.6	39.4	326.8	58.0	103.2	−66.5	122.8	327.2	1.00	0.00	0.97	%	B51R #
328	27.2	37	0.167	2.211	−1.105	1.468	33.9	−21.1	39.9	328.1	59.1	103.2	−64.3	121.6	328.0	1.00	0.00	0.96	%	B51R #
329	28.8	0.378	0.173	2.182	−1.033	1.406	35.1	−20.2	40.5	329.9	60.6	103.3	−61.1	120.1	329.3	1.00	0.00	0.94	%	B52R #
330	30.4	0.387	0.179	2.153	−0.964	1.347	36.1	−19.2	41.0	331.9	62.0	103.2	−57.7	118.3	330.7	1.00	0.00	0.92	%	B53R #
331	31.5	0.393	0.184	2.129	−0.913	1.303	36.7	−18.4	41.1	333.3	62.9	102.8	−55.0	116.6	331.8	1.00	0.00	0.91	%	B54R #
332	32.3	0.397	0.188	2.107	−0.876	1.267	37.0	−17.7	41.0	334.4	63.6	102.2	−52.8	115.0	332.6	1.00	0.00	0.89	%	B55R #
333	32.9	0.4	0.191	2.087	−0.849	1.237	36.9	−17.1	40.7	335.1	64.0	101.3	−51.1	113.5	333.2	1.00	0.00	0.87	%	B56R #
334	35.0	0.404	0.199	2.023	−0.792	1.156	37.1	−16.2	40.5	336.4	65.8	98.8	−47.8	109.8	334.1	1.00	0.00	0.86	%	B56R #
335	37.3	0.406	0.207	1.958	−0.743	1.076	37.0	−15.4	40.1	337.4	67.5	95.8	−44.7	105.8	334.9	1.00	0.00	0.84	%	B57R #
336	39.1	0.41	0.212	1.895	−0.717	1.041	37.0	−14.5	39.8	338.5	68.4	94.8	−42.4	103.9	336.1	1.00	0.00	0.83	%	B58R #
337	38.7	0.414	0.216	1.919	−0.682	1.017	37.0	−13.6	39.4	339.7	68.5	94.0	−39.9	102.1	336.9	1.00	0.00	0.81	%	B59R #
338	39.2	0.418	0.219	1.904	−0.656	0.995	36.9	−12.8	39.0	340.8	68.9	93.2	−37.7	100.6	337.9	1.00	0.00	0.79	%	B60R #
339	39.6	0.422	0.223	1.891	−0.632	0.975	36.7	−12.0	38.6	341.9	69.2	92.4	−35.6	99.1	338.9	1.00	0.00	0.78	%	B60R #
340	39.9	0.426	0.227	1.878	−0.609	0.956	36.5	−11.1	38.2	343.0	69.4	91.7	−33.4	97.6	339.9	1.00	0.00	0.76	%	B61R #
341	40.2	0.429	0.229	1.869	−0.592	0.942	36.3	−10.5	37.8	343.8	69.6	91.1	−31.7	96.5	340.7	1.00	0.00	0.74	%	B62R #
342	40.3	0.432	0.232	1.861	−0.575	0.93	36.2	−9.9	37.5	344.6	69.7	90.5	−30.1	95.4	341.6	1.00	0.00	0.73	%	B63R #
343	40.5	0.436	0.235	1.851	−0.555	0.915	35.9	−9.1	37.1	345.7	69.8	89.9	−28.1	94.2	342.6	1.00	0.00	0.71	%	B64R #
344	40.7	0.441	0.239	1.841	−0.532	0.899	35.6	−8.2	36.6	347.0	69.9	89.1	−25.6	92.7	343.9	1.00	0.00	0.7	%	B64R #
345	40.7	0.443	0.241	1.836	−0.522	0.893	35.5	−7.8	36.4	347.5	70.0	88.8	−24.5	92.1	344.5	1.00	0.00	0.68	%	B65R #
346	40.8	0.445	0.243	1.831	−0.511	0.885	35.4	−7.3	36.1	348.2	70.0	88.4	−23.2	91.4	345.2	1.00	0.00	0.66	%	B66R #
347	40.8	0.448	0.245	1.825	−0.499	0.874	35.2	−6.9	35.9	348.8	70.1	88.0	−21.9	90.7	345.9	1.00	0.00	0.65	%	B67R #
348	40.9	0.45	0.247	1.82	−0.486	0.87	35.0	−6.4	35.6	349.6	70.1	87.5	−20.5	89.9	346.7	1.00	0.00	0.63	%	B68R #
349	41.0	0.453	0.25	1.814	−0.473	0.861	34.8	−5.8	35.3	350.4	70.1	87.1	−18.9	89.1	347.7	1.00	0.00	0.61	%	B69R #
350	41.0	0.456	0.252	1.807	−0.459	0.853	34.6	−5.3	35.0	351.2	70.2	86.6	−17.3	88.3	348.6	1.00	0.00	0.6	%	B69R #
351	41.1	0.46	0.255	1.801	−0.444	0.844	34.4	−4.7	34.7	352.2	70.2	86.1	−15.5	87.4	349.7	1.00	0.00	0.58	%	B70R #
352	41.1	0.464	0.258	1.794	−0.428	0.835	34.1	−4.0	34.4	353.2	70.3	85.5	−13.5	86.6	350.9	1.00	0.00	0.57	%	B71R #
353	41.2	0.468	0.261	1.786	−0.412	0.826	33.9	−3.3	34.1	354.2	70.3	84.9	−11.4	85.7	352.3	1.00	0.00	0.55	%	B72R #
354	41.3	0.472	0.265	1.779	−0.395	0.817	33.6	−2.6	33.7	355.4	70.3	84.3	−9.2	84.8	353.7	1.00	0.00	0.53	%	B73R #
355	41.3	0.475	0.267	1.773	−0.383	0.811	33.4	−2.2	33.5	356.1	70.4	83.9	−7.6	84.2	354.7	1.00	0.00	0.52	%	B73R #
356	41.3	0.476	0.269	1.77	−0.377	0.807	33.3	−1.9	33.4	356.6	70.4	83.6	−6.7	83.9	355.3	1.00	0.00	0.5	%	B74R #
357	41.3	0.478	0.27	1.766	−0.37	0.803	33.2	−1.6	33.2	357.1	70.4	83.3	−5.8	83.5	355.9	1.00	0.00	0.48	%	B75R #
358	41.4	0.48	0.272	1.762	−0.363	0.799	33.0	−1.3	33.0	357.5	70.4	83.0	−4.8	83.1	356.6	1.00	0.00	0.47	%	B76R #
359	41.4	0.481	0.273	1.759	−0.356	0.795	32.9	−1.0	32.9	358.0	70.4	82.7	−3.8	82.8	357.3	1.00	0.00	0.45	%	B77R #
360	41.4	0.483	0.275	1.755	−0.349	0.791	32.7	−0.7	32.7	358.6	70.4	82.3	−2.8	82.4	358.0	1.00	0.00	0.44	%	B77R #

CIEXYZ data of CIE test colours 9 (R): 23.3 12.4 3.2, 10 (Y): 58.8 60.2 9.5, 11 (G): 12.0 19.8 11.9, 12 (B): 5.2 5.9 21.2