

Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, Y _w =100, Y _m =520_770, CIEXYZ data														%
i ₁ , λ ₁	i ₂ , λ ₂	X ₁₀₀	Y ₁₀₀	Z ₁₀₀	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code		%	
0	405	32	561	32.57	58.2	108.12	0.1637	0.2926	0.5436	193.7	16 483	37 589	Cm	%
6	435	32	562	29.09	58.79	88.73	0.1647	0.3328	0.5023	178.4	17 486	42 610		%
10	450	32	563	22.93	59.42	52.37	0.1702	0.441	0.3887	141.8	19 496	−1 496c		%
12	460	33	565	20.88	60.32	34.02	0.1812	0.5234	0.2952	124.0	21 505	−1 505c		%
12	465	33	567	21.95	61.66	34.03	0.1866	0.5241	0.2892	122.8	21 506	−1 506c		%
14	470	33	569	21.46	62.72	19.98	0.206	0.602	0.1918	111.3	24 520	−1 520c		%
15	475	34	573	23.76	65.29	14.91	0.2285	0.6279	0.1434	105.6	25 528	−1 528c	Gm	%
16	480	36	580	29.0	69.95	11.05	0.2636	0.6358	0.1005	99.0	27 537	−1 537c		%
17	485	39	595	42.11	78.75	8.23	0.3262	0.6099	0.0638	87.2	29 548	−1 548c		%
18	490	−1	490c	77.09	93.8	6.13	0.4354	0.5298	0.0346	58.5	33 565	11 459	max	%
19	495	−1	495c	77.04	92.3	4.52	0.4431	0.5308	0.026	57.1	33 566	12 462		%
20	500	−1	500c	77.02	90.42	3.27	0.4511	0.5296	0.0191	55.3	33 567	12 464		%
22	510	−1	510c	76.89	85.27	1.63	0.4694	0.5205	0.01	50.7	33 569	13 469		%
23	520	−1	519c	76.66	81.98	1.16	0.4797	0.513	0.0072	47.7	34 570	14 471	Ym	%
25	530	−1	529c	75.53	74.04	0.57	0.503	0.4931	0.0038	40.7	34 573	15 475		%
27	540	−1	539c	73.26	64.9	0.26	0.5292	0.4688	0.0019	32.8	35 577	15 478		%
28	545	−1	544c	71.66	60.13	0.18	0.5429	0.4556	0.0014	28.7	35 579	15 479		%
29	550	−1	549c	69.7	55.26	0.13	0.5571	0.4417	0.001	24.7	36 582	16 480		%
30	555	−1	554c	67.4	50.4	0.09	0.5716	0.4274	0.0008	20.8	36 584	16 481		%
32	560	−1	560c	61.78	41.0	0.05	0.6007	0.3987	0.0005	13.6	37 589	16 483		%
380	770	95.04	100.0	108.89	0.3127	0.329	0.3582	0.0						%
Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, Y _w =100, Y _m =770_520, CIEXYZ complementary														%
i ₁ , λ ₁	i ₂ , λ ₂	X ₁₀₀	Y ₁₀₀	Z ₁₀₀	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code		%	
32	561	0	405	62.47	41.79	0.76	0.5947	0.3979	0.0072	13.7	37 589	16 483	Rm	%
32	562	6	435	65.95	41.2	20.15	0.518	0.3236	0.1583	358.5	42 610	17 486		%
32	563	10	450	72.11	40.57	56.51	0.4261	0.2398	0.334	321.8	−1 496c	19 496		%
33	565	12	460	74.16	39.67	74.86	0.393	0.2102	0.3967	304.0	−1 505c	21 505		%
33	567	12	465	73.08	38.33	74.86	0.3923	0.2057	0.4018	302.9	−1 506c	21 506		%
33	569	14	470	73.57	37.27	88.9	0.3683	0.1866	0.445	291.3	−1 520c	24 520		%
34	573	15	475	71.27	34.7	93.97	0.3564	0.1735	0.4699	285.7	−1 528c	25 528	Mm	%
36	580	16	480	66.03	30.04	97.83	0.3405	0.1549	0.5045	279.1	−1 537c	27 537		%
39	595	17	485	52.92	21.24	100.65	0.3027	0.1215	0.5757	267.2	−1 548c	29 548		%
−1	490c	18	490	17.95	6.19	102.75	0.1414	0.0487	0.8097	238.5	11 459	33 565	min	%
−1	495c	19	495	18.0	7.69	104.36	0.1384	0.0591	0.8024	237.1	12 462	33 566		%
−1	500c	20	500	18.02	9.57	105.61	0.1352	0.0719	0.7928	235.4	12 464	33 567		%
−1	510c	22	510	18.14	14.72	107.25	0.1295	0.105	0.7654	230.7	13 469	33 569		%
−1	519c	23	520	18.37	18.01	107.72	0.1275	0.1249	0.7475	227.7	14 471	34 570	Bm	%
−1	529c	25	530	19.5	25.95	108.31	0.1268	0.1687	0.7043	220.7	15 475	34 573		%
−1	539c	27	540	21.77	35.09	108.62	0.1315	0.212	0.6563	212.8	15 478	35 577		%
−1	544c	28	545	23.38	39.86	108.7	0.1359	0.2318	0.6321	208.8	15 479	35 579		%
−1	549c	29	550	25.33	44.73	108.76	0.1416	0.2501	0.6081	204.7	16 480	36 582		%
−1	554c	30	555	27.63	49.59	108.79	0.1485	0.2665	0.5848	200.8	16 481	36 584		%
−1	560c	32	560	33.26	58.99	108.83	0.1654	0.2933	0.5412	193.6	16 483	37 589		%
380	770	95.04	100.0	108.89	0.3127	0.329	0.3582	0.0						%

rgb* _{AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																								
Yxy, <i>c</i> _{AB} _{AB} , <i>ABC</i> _{AB} , <i>LabC</i> * _{ab} _{ab} data for relative spacing of elementary hue <i>h</i> _{AB} of <i>LIN</i> YAB for CIE 2 degree observer																								
Elementary hue circle with 4 intended elementary hue angles: <i>h</i> _{AB} = 17.7, 93.3, 159.1, 270.8 of <i>LIN</i> YAB, and 90 intended hue angles:																								
00.001, ..., 089, <i>LIN</i> YAB data of CIE test colours 9 (R): 11.2 9.9 3.1, 10 (Y): 59.0 59.0 12.2 20.9, 11 (G): 20.3 -7.2 12.7, 12 (B): 6.4 0.1 -8.2																								
<i>no</i>	<i>no</i> _{AB}	<i>x</i>	<i>y</i>	<i>a</i>	<i>b</i>	<i>c</i> _{AB}	<i>A</i>	<i>B</i>	<i>C</i> _{AB}	<i>h</i> _{AB}	<i>L</i> *	<i>a</i> *	<i>b</i> *	<i>C</i> * _{ab}	<i>h</i> _{ab}	<i>rgb</i> * _{AB}	<i>Code</i> _{AB}							
000	40.7	0.447	0.259	1.727	-0.453	0.777	31.6	-0.7	31.6	358.7	70.0	81.6	-1.9	81.7	359.6	1.00	0.00	0.39	#B90R					
001	40.8	0.45	0.261	1.72	-0.44	0.77	31.4	-0.1	31.4	359.6	70.0	81.1	-0.5	81.1	359.6	1.00	0.00	0.37	#B81R					
002	40.8	0.453	0.264	1.714	-0.427	0.764	31.1	0.3	31.2	0.6	70.0	80.6	0.9	80.6	0.6	1.00	0.00	0.35	#B82R					
003	40.8	0.456	0.267	1.708	-0.414	0.758	30.9	0.8	30.9	1.6	70.0	80.0	2.4	80.1	1.7	1.00	0.00	0.33	#B83R					
004	40.8	0.459	0.269	1.701	-0.4	0.752	30.7	1.4	30.7	2.6	70.0	79.5	4.0	79.6	2.9	1.00	0.00	0.3	#B84R					
005	40.8	0.462	0.272	1.695	-0.387	0.746	30.4	1.9	30.5	3.6	70.1	78.9	5.6	79.1	4.0	1.00	0.00	0.28	#B85R					
006	40.9	0.465	0.275	1.689	-0.374	0.741	30.2	2.4	30.3	4.7	70.1	78.4	7.2	78.7	5.2	1.00	0.00	0.26	#B86R					
007	40.9	0.469	0.278	1.682	-0.361	0.736	29.9	3.0	30.1	5.7	70.1	77.8	8.9	78.3	6.5	1.00	0.00	0.24	#B87R					
008	40.9	0.481	0.285	1.675	-0.348	0.729	29.7	3.7	29.9	6.9	70.1	77.7	10.6	77.8	7.8	1.00	0.00	0.22	#B88R					
009	40.9	0.475	0.284	1.67	-0.335	0.726	29.4	4.1	29.7	7.9	70.1	76.7	12.3	77.7	9.1	1.00	0.00	0.19	#B90R					
010	40.9	0.479	0.288	1.663	-0.322	0.722	29.2	4.6	29.6	9.0	70.1	76.1	14.1	77.5	10.5	1.00	0.00	0.17	#B91R					
011	41.0	0.483	0.291	1.657	-0.309	0.718	28.9	5.1	29.4	10.1	70.1	75.6	15.9	77.3	11.9	1.00	0.00	0.15	#B92R					
012	41.0	0.486	0.294	1.65	-0.296	0.714	28.7	5.6	29.3	11.2	70.1	75.0	17.8	77.1	13.3	1.00	0.00	0.12	#B93R					
013	41.0	0.49	0.298	1.644	-0.283	0.71	28.5	6.2	29.1	12.3	70.2	74.5	19.7	77.0	14.8	1.00	0.00	0.1	#B94R					
014	41.0	0.493	0.301	1.638	-0.271	0.707	28.2	6.7	29.0	13.4	70.2	73.9	21.6	77.0	16.3	1.00	0.00	0.08	#B95R					
015	41.0	0.497	0.304	1.632	-0.258	0.704	28.0	7.2	28.9	14.5	70.2	73.4	23.6	77.1	17.8	1.00	0.00	0.06	#B96R					
016	41.1	0.501	0.308	1.626	-0.246	0.699	27.7	7.7	28.8	15.6	70.2	72.9	25.7	77.2	19.0	1.00	0.00	0.03	#B98R					
017	41.1	0.505	0.311	1.619	-0.234	0.699	27.5	8.2	28.7	16.7	70.2	72.3	27.7	77.4	21.0	1.00	0.00	0.01	#B99R					
018	41.1	0.509	0.315	1.613	-0.222	0.697	27.3	8.7	28.6	17.8	70.2	71.7	29.9	77.7	22.6	1.00	0.00	0.00	#R00Y					
019	41.1	0.513	0.319	1.607	-0.21	0.695	27.0	9.2	28.6	18.9	70.3	71.2	32.0	78.1	24.2	1.00	0.01	0.00	#R01Y					
020	41.1	0.517	0.322	1.602	-0.198	0.693	26.8	9.7	28.5	19.9	70.3	70.7	34.2	78.5	25.8	1.00	0.02	0.00	#R02Y					
021	41.2	0.521	0.327	1.594	-0.184	0.691	26.5	10.3	28.5	21.3	70.3	70.0	37.1	79.2	27.9	1.00	0.04	0.00	#R04Y					
022	41.2	0.527	0.332	1.586	-0.169	0.689	26.2	10.9	28.4	22.7	70.3	69.3	40.1	80.1	30.1	1.00	0.05	0.00	#R05Y					
023	41.2	0.532	0.337	1.578	-0.152	0.686	25.9	11.5	28.4	24.0	70.4	68.9	43.1	81.1	33.1	1.00	0.07	0.00	#R07Y					
024	41.3	0.537	0.341	1.57	-0.141	0.686	25.6	12.1	28.4	25.3	70.4	67.9	46.5	82.1	36.4	1.00	0.08	0.00	#R08Y					
025	41.4	0.542	0.346	1.563	-0.128	0.685	25.3	12.7	28.4	26.5	70.4	67.2	49.8	83.7	36.5	1.00	0.09	0.00	#R09Y					
026	41.4	0.546	0.351	1.556	-0.115	0.685	25.1	13.2	28.4	27.8	70.5	66.2	53.1	85.2	38.5	1.00	0.1	0.00	#R10Y					
027	41.5	0.551	0.355	1.549	-0.103	0.685	24.8	13.7	28.4	28.9	70.5	66.0	56.6	86.9	40.6	1.00	0.12	0.00	#R12Y					
028	41.5	0.556	0.36	1.543	-0.092	0.685	24.6	14.2	28.4	30.0	70.5	65.4	60.1	88.8	42.6	1.00	0.13	0.00	#R13Y					
029	41.5	0.56	0.364	1.537	-0.081	0.685	24.3	14.7	28.4	31.1	70.5	64.8	63.8	91.0	44.5	1.00	0.14	0.00	#R14Y					
030	41.6	0.565	0.369	1.531	-0.071	0.685	24.1	15.1	28.5	32.1	70.6	64.3	67.6	93.3	46.4	1.00	0.16	0.00	#R16Y					
031	41.6	0.569	0.373	1.525	-0.061	0.686	23.9	15.5	28.5	33.0	70.6	63.7	71.5	95.8	48.2	1.00	0.17	0.00	#R17Y					
032	41.7	0.573	0.377	1.52	-0.052	0.686	23.7	15.9	28.6	33.9	70.6	63.2	75.7	97.7	50.1	1.00	0.18	0.00	#R18Y					
033	41.7	0.577	0.381	1.515	-0.043	0.687	23.5	16.3	28.6	34.7	70.6	62.8	80.8	101.7	51.8	1.00	0.2	0.00	#R20Y					
034	41.7	0.581	0.384	1.51	-0.035	0.688	23.3	16.7	28.7	35.5	70.6	62.3	84.6	105.1	53.6	1.00	0.21	0.00	#R21Y					
035	41.7	0.584	0.388	1.506	-0.027	0.689	23.2	17.0	28.7	36.2	70.7	61.9	89.6	109.0	55.3	1.00	0.22	0.00	#R22Y					
036	41.7	0.588	0.391	1.502	-0.02	0.69	23.0	17.3	28.8	36.9	70.7	61.6	95.2	113.4	57.0	1.00	0.24	0.00	#R24Y					
037	41.7	0.591	0.394	1.498	-0.014	0.691	22.9	17.6	28.8	37.5	70.7	61.2	101.5	118.5	58.8	1.00	0.25	0.00	#R25Y					
038	41.7	0.594	0.397	1.495	-0.008	0.692	22.7	17.8	28.9	38.0	70.7	60.9	108.2	124.2	60.6	1.00	0.26	0.00	#R26Y					
039	41.6	0.598	0.401	1.491	0.0	0.694	22.5	18.1	28.9	37.7	70.6	60.5	121.1	135.4	63.4	1.00	0.28	0.00	#R28Y					
040	41.6	0.602	0.404	1.487	0.001	0.693	22.3	18.4	28.9	38.1	70.6	60.2	128.2	146.5	66.5	1.00	0.29	0.00	#R29Y					
041	43.3	0.593	0.406	1.458	0.0	0.669	22.0	18.8	28.9	40.5	71.7	58.0	123.3	136.3	64.8	1.00	0.3	0.00	#R30Y					
042	44.2	0.59	0.409	1.44	0.0	0.655	21.6	19.2	29.0	41.5	72.3	56.6	124.4	136.7	65.5	1.00	0.32	0.00	#R32Y					
043	45.1	0.587	0.412	1.423	0.0	0.642	21.3	19.6	29.0	42.6	73.0	55.2	125.4	137.0	66.2	1.00	0.33	0.00	#R33Y					
044	46.1	0.584	0.415	1.405	0.0	0.63	21.0	20.0	29.0	43.6	73.6	53.8	126.4	137.4	66.9	1.00	0.34	0.00	#R34Y					
045	47.1	0.581	0.418	1.388	0.0	0.617	20.6	20.5	29.1	44.7	74.2	52.4	127.3	137.7	67.6	1.00	0.36	0.00	#R36Y					
046	48.1	0.578	0.421	1.372	0.0	0.606	20.3	20.9	29.1	45.8	74.9	51.0	128.2	138.0	68.2	1.00	0.37	0.00	#R37Y					
047	49.1	0.575	0.424	1.356	0.0	0.602	19.9	21.3	29.2	46.9														

rgb _{AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																										
Yxy _{AB} c _{AB} 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 extended 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}	a _{AB}	b _{AB}	c _{AB}	Code _{AB}					
090	80.7	0.483	0.511	0.947	-0.005	0.43	-0.2	34.7	34.7	90.4	92.0	-0.4	143.5	143.5	90.1	1.00	0.95	0.00	0.00	0.00	0.00	R95Y				
091	81.3	0.481	0.511	0.941	-0.005	0.43	-0.7	35.0	35.0	91.2	92.3	-1.5	143.2	143.2	90.6	1.00	0.96	0.00	0.00	0.00	0.00	R96Y				
092	81.9	0.479	0.512	0.935	-0.005	0.43	-1.2	35.2	35.2	92.0	92.5	-2.4	143.0	143.0	90.9	1.00	0.98	0.00	0.00	0.00	0.00	R98Y				
093	82.8	0.477	0.515	0.926	-0.005	0.43	-1.9	35.5	35.6	93.2	92.9	-3.9	142.8	142.8	91.6	1.00	0.99	0.00	0.00	0.00	0.00	R99Y				
094	83.6	0.474	0.516	0.918	-0.006	0.43	-2.6	35.8	35.9	94.2	93.2	-5.2	142.4	142.5	92.1	0.98	1.00	0.00	0.00	0.00	0.00	Y01G				
095	84.2	0.472	0.518	0.911	-0.006	0.43	-3.2	36.1	36.2	95.1	93.5	-6.4	141.8	141.9	92.6	0.97	1.00	0.00	0.00	0.00	0.00	Y02G				
096	84.9	0.47	0.519	0.905	-0.007	0.43	-3.8	36.3	36.5	96.0	93.0	-7.6	140.8	141.0	93.1	0.95	1.00	0.00	0.00	0.00	0.00	Y04G				
097	85.6	0.468	0.521	0.897	-0.008	0.43	-5.5	36.6	36.8	97.8	94.1	-8.9	139.4	139.7	93.6	0.94	1.00	0.00	0.00	0.00	0.00	Y05G				
098	86.2	0.465	0.522	0.889	-0.008	0.43	-5.6	36.8	37.2	98.8	94.8	-10.4	138.4	138.4	94.2	0.92	1.00	0.00	0.00	0.00	0.00	Y06G				
099	87.2	0.462	0.524	0.881	-0.01	0.431	-5.9	37.1	37.6	99.1	94.8	-11.7	136.5	137.0	94.9	0.91	1.00	0.00	0.00	0.00	0.00	Y08G				
100	88.0	0.459	0.525	0.874	-0.011	0.431	-6.7	37.3	37.9	100.2	95.1	-13.1	135.1	135.8	95.5	0.89	1.00	0.00	0.00	0.00	0.00	Y10G				
101	88.8	0.456	0.527	0.866	-0.012	0.431	-7.4	37.6	38.3	101.2	95.5	-14.5	133.8	134.6	96.2	0.88	1.00	0.00	0.00	0.00	0.00	Y11G				
102	89.6	0.454	0.528	0.859	-0.013	0.432	-8.1	37.8	38.1	102.1	95.8	-15.9	132.5	133.5	96.8	0.86	1.00	0.00	0.00	0.00	0.00	Y13G				
103	90.3	0.451	0.529	0.852	-0.014	0.432	-8.8	38.0	39.0	103.0	96.1	-17.1	131.3	132.4	97.4	0.85	1.00	0.00	0.00	0.00	0.00	Y14G				
104	91.2	0.447	0.53	0.843	-0.016	0.432	-9.7	38.2	39.4	104.2	96.5	-18.8	129.1	130.4	98.3	0.83	1.00	0.00	0.00	0.00	0.00	Y16G				
105	92.0	0.444	0.53	0.837	-0.018	0.432	-10.4	38.3	39.7	105.0	96.8	-20.1	126.7	128.3	99.0	0.82	1.00	0.00	0.00	0.00	0.00	Y17G				
106	92.8	0.443	0.529	0.833	-0.019	0.432	-10.3	38.6	40.0	106.9	97.1	-20.4	124.2	126.2	99.2	0.82	1.00	0.00	0.00	0.00	0.00	Y19G				
107	94.3	0.44	0.527	0.836	-0.024	0.426	-10.7	38.8	40.2	105.4	97.7	-20.4	121.2	122.9	99.5	0.79	1.00	0.00	0.00	0.00	0.00	Y20G				
108	93.6	0.434	0.53	0.818	-0.026	0.43	-12.3	38.3	40.2	107.9	97.4	-23.8	118.7	121.1	101.3	0.77	1.00	0.00	0.00	0.00	0.00	Y22G				
109	93.2	0.431	0.532	0.811	-0.026	0.432	-12.9	38.1	40.2	108.8	97.3	-25.1	118.2	120.8	102.8	0.76	1.00	0.00	0.00	0.00	0.00	Y23G				
110	92.8	0.429	0.534	0.803	-0.027	0.434	-13.6	37.9	40.2	109.7	97.1	-26.5	117.6	120.6	102.6	0.74	1.00	0.00	0.00	0.00	0.00	Y25G				
111	92.3	0.426	0.536	0.796	-0.027	0.436	-14.2	37.6	40.3	110.7	96.9	-27.9	117.1	120.4	103.4	0.73	1.00	0.00	0.00	0.00	0.00	Y26G				
112	91.9	0.424	0.538	0.788	-0.027	0.438	-14.7	37.3	40.3	111.7	96.8	-29.4	116.5	120.2	104.1	0.71	1.00	0.00	0.00	0.00	0.00	Y28G				
113	91.4	0.423	0.538	0.781	-0.028	0.44	-15.6	37.7	40.4	112.7	96.6	-30.9	115.9	119.9	105.0	0.7	1.00	0.00	0.00	0.00	0.00	Y29G				
114	91.0	0.419	0.54	0.771	-0.028	0.44	-16.2	37.6	40.4	113.7	96.6	-32.5	115.4	119.9	105.7	0.68	1.00	0.00	0.00	0.00	0.00	Y31G				
115	90.5	0.415	0.544	0.762	-0.029	0.447	-16.9	36.7	40.5	114.7	96.2	-34.2	114.7	119.7	106.5	0.67	1.00	0.00	0.00	0.00	0.00	Y32G				
116	90.0	0.412	0.547	0.753	-0.029	0.451	-17.7	36.5	40.6	115.8	96.0	-35.9	114.1	119.6	107.4	0.65	1.00	0.00	0.00	0.00	0.00	Y34G				
117	89.5	0.409	0.549	0.744	-0.03	0.454	-18.4	36.3	40.7	116.9	95.8	-37.6	113.5	119.6	108.3	0.64	1.00	0.00	0.00	0.00	0.00	Y35G				
118	89.0	0.405	0.551	0.735	-0.03	0.458	-19.1	36.0	40.8	118.0	95.6	-39.4	112.9	119.6	109.2	0.62	1.00	0.00	0.00	0.00	0.00	Y37G				
119	88.5	0.402	0.554	0.725	-0.031	0.462	-19.9	35.8	40.9	119.0	95.3	-41.3	112.2	119.6	110.2	0.6	1.00	0.00	0.00	0.00	0.00	Y39G				
120	88.0	0.398	0.557	0.715	-0.031	0.467	-20.6	35.5	41.1	120.1	95.1	-43.2	111.6	119.7	111.1	0.59	1.00	0.00	0.00	0.00	0.00	Y40G				
121	87.4	0.394	0.559	0.705	-0.032	0.472	-21.4	35.2	41.2	121.2	94.9	-45.2	110.9	118.8	112.1	0.57	1.00	0.00	0.00	0.00	0.00	Y42G				
122	86.2	0.391	0.562	0.695	-0.032	0.477	-22.1	35	41.4	122.2	94.8	-47.2	110.2	118.1	113.2	0.56	1.00	0.00	0.00	0.00	0.00	Y43G				
123	86.3	0.387	0.565	0.684	-0.033	0.482	-22.9	34.7	41.6	123.4	94.4	-49.3	109.6	120.1	114.2	0.54	1.00	0.00	0.00	0.00	0.00	Y45G				
124	85.8	0.383	0.568	0.674	-0.033	0.487	-23.7	34.4	41.8	124.5	94.2	-51.4	108.9	120.4	115.2	0.53	1.00	0.00	0.00	0.00	0.00	Y46G				
125	85.2	0.379	0.571	0.663	-0.034	0.493	-24.4	34.2	42.0	125.5	93.9	-53.5	108.2	120.7	116.3	0.51	1.00	0.00	0.00	0.00	0.00	Y48G				
126	84.6	0.374	0.574	0.652	-0.034	0.499	-25.2	33.9	42.2	126.6	93.7	-55.7	107.5	121.1	117.3	0.5	1.00	0.00	0.00	0.00	0.00	Y49G				
127	84.1	0.37	0.577	0.641	-0.035	0.505	-25.9	33.6	42.5	127.6	93.5	-57.9	106.8	121.5	118.4	0.48	1.00	0.00	0.00	0.00	0.00	Y51G				
128	83.5	0.366	0.581	0.63	-0.036	0.511	-26.7	33.3	42.7	128.7	93.2	-60.2	106.1	122.0	119.5	0.47	1.00	0.00	0.00	0.00	0.00	Y52G				
129	82.9	0.361	0.584	0.619	-0.036	0.518	-27.4	33.0	43.0	129.7	93.0	-62.5	105.4	122.5	120.6	0.45	1.00	0.00	0.00	0.00	0.00	Y54G				
130	82.3	0.357	0.587	0.608	-0.037	0.523	-28.2	32.7	43.2	130.7	92.8	-64.8	104.7	123.1	121.8	0.43	1.00	0.00	0.00	0.00	0.00	Y56G				
131	81.8	0.352	0.591	0.596	-0.038	0.532	-28.9	32.5	43.5	131.6	92.5	-67.1	104.0	123.8	122.8	0.42	1.00	0.00	0.00	0.00	0.00	Y57G				
132	81.2	0.348	0.594	0.585	-0.038	0.539	-29.6	32.2	43.8	132.5	92.2	-69.5	103.3	124.5	123.9	0.41	1.00	0.00	0.00	0.00	0.00	Y58G				
133	80.7	0.343	0.597	0.574	-0.039	0.546	-30.3	31.9	44.0	133.5	92.0	-71.9	102.6	125.3	125.0	0.39	1.00	0.00	0.00	0.00	0.00	Y60G				
134	80.1	0.338	0.601	0.563	-0.04	0.553	-31.0	31.7	44.3	134.4	91.7	-74.3	101.8	126.1	126.1	0.38	1.00	0.00	0.00	0.00	0.00	Y61G				
135	79.6	0.333	0.604	0.551	-0.04	0.561	-31.7	31.4	44.6	135.2	91.5	-76.7	101.1	127.0	127.1	0.36	1.00	0.00	0.00	0.00	0.00	Y63G				
136	79.0	0.328	0.608	0.54	-0.041	0.568	-32.3	31.1	44.9	136.1	91.2	-79.1	100.4	127.9	128.2	0.35	1.00	0.00	0.00	0.00	0.00	Y64G				
137	78.1	0.321	0.612	0.524	-0.042	0.575	-33.2	30.7	45.2	137.2	90.8	-82.7	99.7	128.1	131.8	0.33	1.00	0.00	0.00	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} h _{ab} data for relative spacing of elementary hue h _{AB} of L ¹ Y ¹ AB for CIE 2 degree observer																									
Elementary hue circle with 4 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 29.1 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* _{ab}	h _{ab}	rgb* _{AB}	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	-100.0	1.4	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	0.505	-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	-3.6	30.2	186.9	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	G268						
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	28.8	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	28.6	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	0.502	-0.622	0.484	-26.2	-10.8	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	-0.633	0.484	-25.9	-11.5	28.4	204.1	81.1	-78.8	-22.2	81.7	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	-23.2	80.7	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	-75.8	-25.0	79.9	198.2	0.00	1.00	0.83	G418						
207	58.4	0.164	0.312	0.525	-0.67	0.486	-24.8	-13.7	28.4	208.9	81.0	-75.0	-25.9	79.3	199.0	0.00	1.00	0.85	G428						
208	58.4	0.163	0.309	0.529	-0.679	0.486	-24.6	-14.2	28.4	210.0	80.9	-74.1	-26.7	78.8	199.8	0.00	1.00	0.87	G438						
209	58.4	0.163	0.307	0.532	-0.687	0.487	-24.3	-14.7	28.4	211.1	80.9	-73.3	-27.4	78.2	200.5	0.00	1.00	0.89	G448						
210	58.3	0.163	0.305	0.536	-0.695	0.488	-24.1	-15.1	28.5	212.1	80.9	-72.5	-28.1	77.8	201.2	0.00	1.00	0.91	G458						
211	58.3	0.163	0.303	0.539	-0.702	0.489	-23.9	-15.5	28.5	213.0	80.9	-71.7	-28.8	77.3	201.9	0.00	1.00	0.92	G468						
212	58.3	0.163	0.301	0.543	-0.709	0.49	-23.7	-15.9	28.6	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	58.2	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	58.2	0.163	0.289	0.567	-0.751	0.495	-22.3	-18.4	29.0	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	29.0	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	226.9	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	227.7	76.0	-64.6	-41.2	76.6	212.5	0.00	1.00	0.76	1.00	G618					
229	48.9	0.147	0.264	0.557	-0.889	0.6	-19.2	-22.3	29.3	229.1	75.4	-64.1	-42.3	76.8	213.4	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.																	

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>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	-88.1	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	0.00	1.00	% B01R
273	17.1	0.127	0.119	1.066	-2.512	2.08	1.9	-35.5	35.6	273.2	48.4	10.8	-88.1	88.8	277.0	0.04	0.00	1.00	% B02R
274	16.3	0.128	0.115	1.111	-2.627	2.197	2.6	-35.8	35.9	274.2	47.4	14.6	-89.7	90.9	279.2	0.05	0.00	1.00	% B02R
275	15.7	0.128	0.111	1.156	-2.736	2.309	3.2	-36.1	36.2	275.1	46.6	18.2	-91.1	93.0	281.3	0.07	0.00	1.00	% B03R
276	15.0	0.129	0.107	1.205	-2.85	2.428	3.8	-36.3	36.5	276.0	45.7	21.9	-92.6	95.1	283.3	0.09	0.00	1.00	% B04R
277	13.3	0.129	0.092	1.234	-2.989	2.575	4.5	-36.6	36.8	277.0	44.7	26.1	-94.2	101.7	285.5	0.11	0.00	1.00	% B05R
278	13.5	0.097	0.087	1.259	-3.125	2.697	5.2	-36.8	37.0	278.0	43.2	30.3	-96.2	109.9	287.8	0.13	0.00	1.00	% B06R
279	12.7	0.131	0.092	1.413	-3.349	2.951	5.9	-37.1	37.6	279.1	42.3	36.0	-99.7	104.3	290.1	0.15	0.00	1.00	% B07R
280	11.9	0.132	0.087	1.519	-3.567	3.182	6.7	-37.3	37.9	280.2	41.1	41.3	-99.9	108.1	292.4	0.17	0.00	1.00	% B08R
281	11.1	0.133	0.082	1.619	-3.809	3.44	7.4	-37.6	38.3	281.2	39.8	46.7	-102.0	112.2	294.6	0.19	0.00	1.00	% B09R
282	10.3	0.134	0.077	1.734	-4.075	3.723	8.1	-37.8	38.7	282.1	38.5	52.1	-104.0	116.4	296.6	0.2	0.00	1.00	% B10R
283	9.6	0.135	0.072	1.858	-4.357	4.025	8.8	-38.0	39.0	283.0	37.3	57.5	-106.0	120.6	298.4	0.22	0.00	1.00	% B11R
284	8.7	0.136	0.066	2.068	-4.831	4.535	9.7	-38.2	39.4	284.2	35.4	65.5	-109.0	127.2	300.8	0.24	0.00	1.00	% B12R
285	7.9	0.137	0.061	2.251	-5.235	4.919	10.4	-38.3	39.7	285.0	33.9	71.7	-111.0	132.3	302.8	0.26	0.00	1.00	% B13R
286	7.6	0.052	0.052	2.482	-5.652	5.068	10.3	-38.4	40.0	286.0	32.9	76.9	-115.6	140.5	305.3	0.28	0.00	1.00	% B14R
287	5.6	0.128	0.045	2.848	-7.295	7.117	10.7	-38.8	40.2	285.8	28.5	84.7	-119.6	146.5	305.3	0.3	0.00	1.00	% B15R
288	6.3	0.144	0.05	2.887	-6.421	6.291	12.3	-38.2	40.2	287.9	30.4	89.6	-116.1	146.6	307.6	0.32	0.00	1.00	% B16R
289	6.7	0.15	0.052	2.866	-6.055	5.937	12.9	-38.1	40.2	288.8	31.3	90.6	-114.5	146.0	308.3	0.34	0.00	1.00	% B17R
290	7.1	0.157	0.055	2.846	-5.713	5.697	13.6	-37.9	40.2	289.7	32.2	91.7	-112.8	145.4	309.0	0.35	0.00	1.00	% B17R
291	7.6	0.163	0.057	2.826	-5.395	5.362	14.2	-37.6	40.3	290.7	33.1	92.7	-111.2	144.8	309.8	0.37	0.00	1.00	% B18R
292	8.0	0.169	0.06	2.887	-5.099	5.02	14.9	-37.4	40.3	291.7	34.0	93.8	-109.6	144.2	311.3	0.39	0.00	1.00	% B19R
293	8.6	0.175	0.063	2.788	-4.826	4.66	14.9	-37.2	40.3	292.7	34.4	95.0	-108.0	145.7	312.2	0.42	0.00	1.00	% B20R
294	9.9	0.18	0.065	2.575	-4.515	4.515	16.2	-37.0	40.4	293.7	34.9	98.7	-106.4	149.0	314.1	0.43	0.00	1.00	% B21R
295	9.4	0.188	0.068	2.753	-4.338	4.298	16.9	-36.7	40.5	294.7	36.8	96.7	-104.8	142.6	312.7	0.45	0.00	1.00	% B22R
296	9.9	0.194	0.071	2.736	-4.12	4.095	17.7	-36.5	40.6	295.8	37.7	97.7	-103.2	142.1	313.4	0.47	0.00	1.00	% B23R
297	10.4	0.201	0.073	2.72	-3.919	3.997	18.4	-36.3	40.7	296.9	38.6	98.7	-101.6	141.4	314.1	0.48	0.00	1.00	% B24R
298	10.9	0.207	0.076	2.704	-3.733	3.735	19.1	-36.0	40.8	298.0	39.9	99.6	-100.0	141.2	314.8	0.5	0.00	1.00	% B25R
299	11.4	0.213	0.079	2.689	-3.56	3.576	19.9	-35.8	40.9	299.0	40.3	100.6	-98.5	140.8	315.6	0.52	0.00	1.00	% B26R
300	11.9	0.219	0.082	2.675	-3.4	3.429	20.6	-35.5	41.1	300.1	41.2	101.5	-96.9	140.4	316.3	0.54	0.00	1.00	% B27R
301	12.5	0.225	0.084	2.661	-3.251	3.294	21.4	-35.2	41.2	301.2	42.0	102.4	-95.4	140.0	316.9	0.56	0.00	1.00	% B28R
302	13.0	0.231	0.087	2.647	-3.113	3.17	22.1	-35.0	41.4	302.3	42.9	103.2	-94.0	139.0	317.5	0.58	0.00	1.00	% B29R
303	13.6	0.237	0.09	2.634	-2.985	3.055	22.9	-34.7	41.6	303.4	43.7	104.1	-92.9	139.3	318.3	0.6	0.00	1.00	% B30R
304	14.1	0.243	0.092	2.622	-2.865	2.949	23.7	-34.4	41.8	304.5	44.5	104.9	-91.1	138.9	319.0	0.62	0.00	1.00	% B31R
305	14.7	0.248	0.095	2.61	-2.754	2.851	24.4	-34.1	42.0	305.4	45.3	105.7	-89.7	138.6	319.6	0.63	0.00	1.00	% B31R
306	15.3	0.254	0.097	2.598	-2.65	2.761	25.2	-33.9	42.2	306.6	46.0	106.5	-88.3	138.3	320.3	0.65	0.00	1.00	% B32R
307	15.8	0.259	0.1	2.586	-2.554	2.677	25.9	-33.6	42.5	307.6	46.8	107.2	-86.9	138.0	320.9	0.67	0.00	1.00	% B33R
308	16.4	0.264	0.102	2.575	-2.464	2.599	26.7	-33.3	42.7	308.7	47.5	107.9	-85.6	137.8	321.5	0.69	0.00	1.00	% B34R
309	17.0	0.269	0.105	2.565	-2.379	2.527	27.4	-33.0	43.0	309.7	48.2	108.6	-84.3	137.5	322.1	0.71	0.00	1.00	% B35R
310	17.6	0.274	0.107	2.554	-2.294	2.474	28.1	-32.7	43.2	310.7	49.0	109.3	-83.0	137.2	322.6	0.73	0.00	1.00	% B36R
311	18.1	0.279	0.109	2.544	-2.227	2.398	28.9	-32.5	43.5	311.6	49.6	109.9	-81.8	137.0	323.3	0.75	0.00	1.00	% B37R
312	18.7	0.283	0.111	2.534	-2.158	2.34	29.6	-32.2	43.8	312.5	50.3	110.5	-80.6	136.8	323.9	0.77	0.00	1.00	% B38R
313	19.2	0.288	0.114	2.524	-2.093	2.286	30.3	-31.9	44.0	313.5	51.0	111.1	-79.4	136.6	324.4	0.78	0.00	1.00	% B39R
314	19.8	0.292	0.116	2.515	-2.033	2.236	31.0	-31.7	44.3	314.4	51.6	111.7	-78.2	136.4	324.9	0.8	0.00	1.00	% B40R
315	20.3	0.296	0.118	2.505	-1.976	2.189	31.7	-31.4	44.6	315.2	52.2	112.2	-77.1	136.2	325.4	0.82	0.00	1.00	% B41R
316	20.9	0.3	0.12	2.496	-1.923	2.145	32.3	-31.1	44.9	316.1	52.8	112.7	-76.0	136.0	325.9	0.84	0.00	1.00	% B42R
317	21.23	0.296	0.123	2.484	-1.881	2.173	33.0	-30.7	45.2	317.0	53.8	113.0	-74.7	135.5	322.6	0.86	0.00	1.00	% B43R
318	20.9	0.313	0.128	2.436	-1.831	1.974	34.3	-30.0	45.6	318.8	55.1	113.9	-71.8	135.0	327.5	0.88	0.00	1.00	% B44R
319	24.2	0.319	0.139	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	0.00	1.00	% B45R
320	25.3	0.324	0.137	2.363	-1.57	1.812	35.8	-28.7	45.9	322.2	57.4	112.3	-67.5	131.0	329.9	0.91	0.00	1.00	% B46R
321	26.4	0.328	0.141	2.328	-1.504	1.744	36.4	-28.0	46.0	321.2	58.4	111.6	-65.6	129.5	329.5	0.93	0.00	1.00	% B45R
322	27.3	0.332	0.144	2.295	-1.446	1.682	36.8	-27.6	46.0	323.0	59.3	110.9	-63.8	127.9	330.0	0.95	0.00	1.00	% B47R
323	28.2	0.335	0.148	2.263	-1.395	1.626	37.1	-27.1	45.9	323.8	60.1	110.0	-62.2	126.4	330.5	0.97	0.00	1.00	% B48R
324	29.1	0.337	0.151	2.232	-1.35	1.575	37.3	-26.6	45.8	324.4	60.8	109.1	-60.7	124.8	330.9	1.00	0.00	1.00	% B49R
325	29.9	0.34	0.154	2.203	-1.31	1.528	37.4	-26.1	45.6	325.0	61.5	108.1	-59.3	123.3	331.2	1.00	0.00	0.98	% B50R
326	31.1	0.344	0.159	2.165	-1.248	1.462	38.0	-25.3	45.5	326.2	62.6	107.0	-57.5	121.6	331.3	1.00	0.00	0.96	% B51R
327	32.3	0.348	0.163	2.099	-1.192	1.4	38.1	-24.4	45.2	327.3	63.6	105.4	-56.7	119.1	332.6	1.00	0.00	0.94	% B52R
328	33.																		