

Ostwald optimal colours (o) of maximum (m) C _{AB} for E00, 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		%	
1	405	32	564	57.42	−24.95	−16.34	29.83	0.5653	−0.6845	213.2	16 484	38 592	Cm	%
6	435	33	565	57.91	−29.14	−7.99	30.22	0.4967	−0.538	195.3	17 488	45 627		%
10	450	33	566	58.45	−35.13	5.29	35.53	0.3988	−0.3094	171.4	19 498	−1 498c		%
12	460	33	568	59.28	−37.54	11.81	39.35	0.3666	−0.2007	162.5	21 507	−1 507c		%
13	465	33	569	60.14	−38.45	14.78	41.19	0.3606	−0.1541	158.9	22 514	−1 514c		%
14	470	34	571	61.52	−38.94	17.52	42.7	0.3669	−0.1152	155.7	24 522	−1 522c		%
14	475	35	575	64.53	−39.14	18.72	43.38	0.3934	−0.1098	154.4	25 525	−1 525c	Gm	%
16	480	36	581	68.21	−38.3	23.26	44.81	0.4385	−0.0589	148.7	27 538	−1 538c		%
17	485	39	595	76.7	−34.16	27.66	43.96	0.5546	−0.0393	140.9	29 549	−1 549c		%
18	490	−1	490c	94.54	−11.19	35.56	37.28	0.8815	−0.0238	107.4	33 568	11 459	max	%
19	495	−1	495c	93.18	−9.88	35.6	36.94	0.8939	−0.0179	105.5	33 568	12 461		%
19	500	−1	499c	93.18	−9.88	35.6	36.94	0.8939	−0.0179	105.5	33 568	12 461		%
22	510	−1	510c	86.74	−3.57	34.08	34.26	0.9587	−0.0071	95.9	34 571	13 469		%
24	520	−1	520c	80.14	2.4	31.74	31.83	1.0299	−0.0038	85.6	34 574	14 473	Ym	%
26	530	−1	530c	72.11	8.87	28.69	30.03	1.123	−0.0021	72.8	35 577	15 477		%
28	540	−1	540c	63.21	15.04	25.21	29.35	1.2379	−0.0011	59.1	36 581	15 479		%
29	545	−1	545c	58.59	17.8	23.38	29.39	1.3039	−0.0009	52.7	36 583	16 480		%
29	550	−1	549c	58.59	17.8	23.38	29.39	1.3039	−0.0009	52.7	36 583	16 480		%
30	555	−1	554c	53.92	20.26	21.53	29.56	1.3757	−0.0007	46.7	37 585	16 482		%
32	560	−1	560c	44.64	23.98	17.83	29.88	1.5372	−0.0005	36.6	38 590	16 483		%
380	770	100.0	0.0	0.0	0.01	1.0	−0.4	0.0						%
Ostwald optimal colours (o) of maximum (m) C _{AB} for E00, 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	564	1	405	42.57	24.95	16.34	29.83	1.5862	−0.0161	33.2	38 592	16 484	Rm	%
33	565	6	435	42.08	29.14	7.99	30.22	1.6926	−0.21	15.3	45 627	17 488		%
33	566	10	450	41.54	35.13	−5.29	35.53	1.8457	−0.5274	351.4	−1 498c	19 498		%
33	568	12	460	40.71	37.54	−11.81	39.35	1.9221	−0.6901	342.5	−1 507c	21 507		%
33	569	13	465	39.85	38.45	−14.78	41.19	1.9647	−0.771	338.9	−1 514c	22 514		%
34	571	14	470	38.47	38.94	−17.51	42.7	2.0122	−0.8553	335.7	−1 522c	24 522		%
35	575	14	475	35.46	39.14	−18.72	43.38	2.1036	−0.9278	334.4	−1 525c	25 525	Mm	%
36	581	16	480	31.78	38.3	−23.26	44.81	2.205	−1.1319	328.7	−1 538c	27 538		%
39	595	17	485	23.29	34.16	−27.66	43.96	2.4665	−1.5876	320.9	−1 549c	29 549		%
−1	490c	18	490	5.45	11.19	−35.56	37.28	3.0513	−6.9152	287.4	11 459	33 568	min	%
−1	495c	19	495	6.81	9.88	−35.6	36.94	2.4491	−5.6211	285.5	12 461	33 568		%
−1	499c	19	500	6.81	9.88	−35.6	36.94	2.4491	−5.6211	285.5	12 461	33 568		%
−1	510c	22	510	13.25	3.57	−34.08	34.26	1.2699	−2.9707	275.9	13 469	34 571		%
−1	520c	24	520	19.85	−2.4	−31.74	31.83	0.879	−1.9985	265.6	14 473	34 574	Bm	%
−1	530c	26	530	27.88	−8.87	−28.69	30.03	0.6818	−1.4288	252.8	15 477	35 577		%
−1	540c	28	540	36.78	−15.04	−25.21	29.35	0.591	−1.0854	239.1	15 479	36 581		%
−1	545c	29	545	41.4	−17.8	−23.38	29.39	0.5699	−0.9647	232.7	16 480	36 583		%
−1	549c	29	550	41.4	−17.8	−23.38	29.39	0.5699	−0.9647	232.7	16 480	36 583		%
−1	554c	30	555	46.07	−20.26	−21.53	29.56	0.5601	−0.8673	226.7	16 482	37 585		%
−1	560c	32	560	55.35	−23.98	−17.83	29.88	0.5668	−0.7221	216.6	16 483	38 590		%
380	770	100.0	0.0	0.0	0.01	1.0	−0.4	0.0						%

rgb_{AB} and CIE data of a elementary hue color according to CIE R1-47 for Ostwald colours for CIE illuminant E00

Xyy_{AB}, c_{AB}AB, ABC_{AB}, LabC_{AB}, h_{AB} data for relative spacing of elementary hue h_{AB} of LINYAB for CIE 2 degree observer

Elementary hue color with 4 intended elementary hue angles: h_{AB} = 16.9, 92.2, 162.4, 268.6 of LINYAB, and 90 intended hue angles:

00.001, ..., 089, LINYAB data of CIE test colours 9 (R): 12.4 11.1 3.3, 10 (Y): 6.0 -0.7 19.6, 11 (G): 19.7 -7.2 2.3, 12 (B): 6.0 -0.1 -7.3																	
no.	AB _Y	x	y	a	b	c _{AB}	A	B	C _{AB}	h _{AB}	L*	a*	b*	C _{AB}	rgb _{AB}	Code _{AB}	
000	41.7	0.467	0.26	1.793	-0.416	0.793	33.1	-0.7	33.1	358.7	70.7	89.3	-2.0	89.3	359.5	1.00 0.00 0.37	B81R
001	41.7	0.47	0.263	1.786	-0.403	0.786	32.8	-0.1	32.8	359.7	70.7	79.7	-0.9	79.7	359.7	1.00 0.00 0.34	B82R
002	41.8	0.474	0.266	1.78	-0.389	0.78	32.6	0.4	32.6	0.7	70.7	79.2	1.3	79.2	0.9	1.00 0.00 0.32	B83R
003	41.8	0.477	0.269	1.773	-0.375	0.773	32.3	1.0	32.3	1.7	70.7	78.6	3.0	78.7	2.2	1.00 0.00 0.3	B84R
004	41.8	0.481	0.272	1.766	-0.362	0.767	32.0	1.5	32.1	2.8	70.7	78.1	4.8	78.2	3.5	1.00 0.00 0.28	B85R
005	41.8	0.484	0.275	1.76	-0.348	0.762	31.8	2.1	31.9	3.8	70.7	77.5	6.7	77.8	4.9	1.00 0.00 0.26	B86R
006	41.8	0.488	0.278	1.753	-0.334	0.756	31.5	2.7	31.6	4.9	70.8	77.0	8.6	77.5	6.4	1.00 0.00 0.23	B88R
007	41.9	0.492	0.281	1.746	-0.32	0.751	31.3	3.3	31.4	6.0	70.8	76.4	10.6	77.1	7.9	1.00 0.00 0.21	B89R
008	41.9	0.496	0.285	1.74	-0.307	0.747	31.0	3.9	31.2	7.1	70.8	75.9	12.6	76.9	9.4	1.00 0.00 0.19	B90R
009	41.9	0.5	0.288	1.733	-0.293	0.741	30.7	4.4	31.1	8.2	70.8	75.3	14.6	76.7	11.0	1.00 0.00 0.17	B91R
010	41.9	0.503	0.291	1.727	-0.279	0.736	30.5	5.0	30.9	9.3	70.8	74.7	16.7	76.6	12.6	1.00 0.00 0.15	B92R
011	41.9	0.508	0.295	1.72	-0.266	0.732	30.2	5.6	30.7	10.4	70.8	74.2	18.9	76.6	14.3	1.00 0.00 0.12	B93R
012	42.0	0.512	0.298	1.713	-0.253	0.728	29.9	6.1	30.6	11.6	70.8	73.6	21.1	76.6	16.0	1.00 0.00 0.1	B94R
013	42.0	0.516	0.302	1.707	-0.24	0.725	29.7	6.7	30.4	12.7	70.9	73.1	23.4	76.7	17.7	1.00 0.00 0.08	B95R
014	42.0	0.52	0.305	1.701	-0.227	0.722	29.4	7.2	30.3	13.8	70.9	72.5	25.7	77.0	19.5	1.00 0.00 0.06	B96R
015	42.0	0.524	0.309	1.694	-0.214	0.717	29.2	7.8	30.2	14.9	70.9	72.0	28.1	77.3	21.3	1.00 0.00 0.04	B97R
016	42.0	0.529	0.313	1.687	-0.201	0.716	28.9	8.4	30.1	16.1	70.9	71.4	30.4	77.3	23.1	1.00 0.00 0.02	B98R
017	42.1	0.534	0.317	1.68	-0.186	0.713	28.6	9.0	30.0	17.4	70.9	70.7	33.7	78.0	25.4	1.00 0.01 0.00	B99R
018	42.1	0.539	0.322	1.673	-0.172	0.711	28.3	9.5	29.9	18.6	70.9	70.1	36.7	79.2	27.6	1.00 0.01 0.00	R01Y
019	42.1	0.544	0.326	1.666	-0.158	0.709	28.0	10.1	29.8	19.8	70.9	69.5	39.7	80.1	29.7	1.00 0.02 0.00	R02Y
020	42.1	0.548	0.33	1.66	-0.145	0.707	27.8	10.7	29.8	21.0	70.9	69.0	42.8	81.2	31.8	1.00 0.04 0.00	R04Y
021	42.1	0.553	0.334	1.653	-0.132	0.706	27.5	11.2	29.7	22.2	70.9	68.4	46.0	82.5	33.9	1.00 0.05 0.00	R05Y
022	42.1	0.558	0.339	1.647	-0.12	0.704	27.3	11.7	29.7	23.3	71.0	67.8	49.3	83.9	36.0	1.00 0.06 0.00	R06Y
023	42.2	0.563	0.343	1.64	-0.108	0.703	27.0	12.2	29.7	24.4	71.0	67.3	52.7	85.5	38.1	1.00 0.08 0.00	R08Y
024	42.2	0.567	0.347	1.634	-0.097	0.703	26.8	12.7	29.6	25.4	71.0	66.8	56.3	87.3	40.1	1.00 0.09 0.00	R09Y
025	42.2	0.572	0.351	1.628	-0.086	0.702	26.5	13.2	29.6	26.4	71.0	66.2	59.9	89.3	42.1	1.00 0.1	R10Y
026	42.2	0.576	0.355	1.623	-0.076	0.702	26.3	13.6	29.6	27.4	71.0	65.7	63.7	91.5	44.1	1.00 0.12	R12Y
027	42.3	0.581	0.359	1.617	-0.066	0.701	26.1	14.1	29.6	28.3	71.0	65.2	67.6	93.9	46.0	1.00 0.13	R13Y
028	42.3	0.585	0.363	1.612	-0.056	0.701	25.9	14.5	29.7	29.2	71.1	64.7	71.7	96.6	47.9	1.00 0.14	R14Y
029	42.3	0.589	0.366	1.606	-0.047	0.701	25.7	14.9	29.7	30.1	71.1	64.3	76.1	99.6	49.8	1.00 0.16	R16Y
030	42.4	0.593	0.37	1.601	-0.039	0.701	25.5	15.2	29.7	30.9	71.1	63.8	80.7	102.9	51.6	1.00 0.17	R17Y
031	42.4	0.596	0.373	1.596	-0.031	0.701	25.3	15.6	29.7	31.6	71.1	63.4	85.7	106.6	53.5	1.00 0.18	R18Y
032	42.5	0.597	0.376	1.591	-0.024	0.701	25.1	15.9	29.7	32.4	71.2	63.0	91.2	110.9	55.3	1.00 0.2	R19Y
033	42.5	0.603	0.38	1.587	-0.017	0.7	24.9	16.2	29.8	33.0	71.2	62.6	97.3	115.7	57.2	1.00 0.21	R21Y
034	42.7	0.61	0.386	1.577	-0.002	0.701	24.6	16.9	29.9	34.5	71.3	61.7	118.4	133.5	62.4	1.00 0.22	R22Y
035	43.0	0.612	0.391	1.566	0.003	0.695	24.4	17.4	29.9	35.4	71.6	60.9	129.8	143.4	64.8	1.00 0.24	R24Y
036	43.8	0.609	0.392	1.551	0.002	0.682	24.1	17.6	29.9	36.1	72.1	59.8	128.6	141.8	65.0	1.00 0.25	R25Y
037	44.9	0.604	0.394	1.531	0.0	0.664	23.8	17.9	29.8	36.9	72.8	58.4	129.9	137.9	64.9	1.00 0.26	R26Y
038	45.7	0.602	0.397	1.514	0.0	0.652	23.5	18.2	29.8	37.8	73.3	57.1	126.4	138.7	65.6	1.00 0.28	R28Y
039	46.6	0.599	0.4	1.498	0.0	0.638	23.2	18.6	29.7	38.7	73.9	55.8	127.8	139.4	66.3	1.00 0.29	R29Y
040	47.5	0.597	0.403	1.48	0.0	0.625	22.8	19.0	29.7	39.7	74.5	54.5	129.1	140.9	67.0	1.00 0.3	R30Y
041	48.4	0.594	0.405	1.463	0.0	0.612	22.4	19.3	29.6	40.7	75.1	53.1	130.0	140.4	67.7	1.00 0.31	R31Y
042	49.4	0.591	0.408	1.447	0.0	0.6	22.0	19.7	29.6	41.8	75.7	51.8	130.9	140.7	68.4	1.00 0.33	R33Y
043	50.3	0.588	0.411	1.43	0.0	0.587	21.7	20.1	29.6	42.8	76.3	50.4	131.6	140.1	69.0	1.00 0.34	R34Y
044	51.3	0.585	0.414	1.414	0.0	0.576	21.3	20.5	29.6	43.9	76.9	49.1	132.3	141.1	69.6	1.00 0.35	R35Y
045	52.3	0.583	0.416	1.399	0.0	0.565	20.9	20.9	29.5	44.9	77.4	47.8	132.8	141.2	70.2	1.00 0.37	R37Y
046	53.2	0.58	0.418	1.385	0.0	0.555	20.5	21.2	29.5	46.0	78.0	46.5	133.3	141.2	70.7	1.00 0.38	R38Y
047	54.2	0.577	0.421	1.371	0.0	0.545	20.1	21.6	29.5	47.0	78.6	45.2	133.9	141.3	71.3	1.00 0.39	R39Y
048	55.2	0.574	0.424	1.354	0.0	0.533	19.5	22.0	29.5	48.4	79.2	43.6	134.9	141.8	72.0	1.00 0.41	R41Y
049	56.2	0.572	0.426	1.339	0.0	0.524	19.1	22.4	29.4	49.5	79.7	42.2	135.7	142.1	72.6	1.00 0.42	R42Y
050	57.0	0.569	0.429	1.327	0.0	0.515	18.6	22.7	29.4	50.6	80.2	41.0	136.4	142.4	73.2	1.00 0.43	R43Y
051	57.7	0.567	0.431	1.317	0.0	0.509	18.3	23.0	29.4	51.5	80.5	40.0	137.0	142.7	73.7	1.00 0.45	R45Y
052	58.2	0.566	0.432	1.308	0.0	0.504	17.9	23.2	29.4	52.2	80.9	39.1	137.4	142.9	74.0	1.00 0.46	R46Y
053	58.7	0.565	0.433	1.302	0.0	0.5	17.7	23.4	29.3	52.8	81.1	38.5	137.8	143.1	74.3	1.00 0.47	R47Y
054	59.1	0.563	0.435	1.295	0.0	0.496	17.4	23.6	29.3	53.4	81.3	37.8	138.2	143.3	74.6	1.00 0.49	R49Y
055	59.7	0.562	0.436	1.287	0.0	0.492	17.1	23.8	29.3	54.2	81.6	37.0	138.6	143.5	75.0	1.00 0.5	R50Y
056	60.3	0.56	0.438	1.277	0.0	0.486	16.7	24.0	29.3	55.1	82.0	36.0	139.1	143.7	75.4	1.00 0.51	R51Y
057	61.1	0.558	0.44	1.266	-0.001	0.48	16.3	24.4	29.3	56.2	82.4	34.8	139.7	144.0	76.0	1.00 0.53	R53Y
058	62.0	0.555	0.443	1.254	-0.001	0.473	15.7	24.7	29.3	57.4	82.9	33.4	140.4	144.3	76.5	1.00 0.54	R54Y
059	63.0	0.552	0.445	1.24	-0.001	0.465	15.1	25.1	29.3	58.9	83.4	31.9	141.0	144.6	77.2	1.00 0.55	R55Y
060	63.6	0.551	0.447	1.231	-0.001	0.461	14.7	25.3	29.3	59.8	83.8	30.9	141.5	144.8	77.6	1.00 0.57	R57Y
061	64.2	0.549	0.449	1.223	-0.001	0.457	14.3	25.6	29.3	60.7	84.1	29.9	141.8	145.0	78.0	1.00 0.58	R58Y
062	64.8	0.547	0.45	1.214	-0.001	0.453	13.9	25.8	29.3								

rgb* _{AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant E00																									
Yxy, c _{AB} _{AB} ABC _{AB} LabC* _{ab} data for relative spacing of elementary hue h _{AB} of L ¹ Y ¹ A ¹ B ¹ for CIE 2 degree observer																									
Elementary hue circle with 4 intended elementary hue angles: h _{AB} = 16.9, 92.2, 162.4, 268.6 of L ¹ Y ¹ A ¹ B ¹ , and 90 intended hue angles:																									
090, 091, ..., 179, L ¹ Y ¹ A ¹ B ¹ data of CIE test colours 9 (R): 12.4 11.1 3.3, 10 (Y): 6.0 -0.7 19.6, 11 (G): 19.7 -7.2 2.3, 12 (B): 6.0 -0.1 -7.3																									
no	AB	Y	x	y	a	b	c _{AB}	A	B	C _{AB}	h _{AB}	L*	a*	b*	C*	g _{AB}	rgb* _{AB}	Code _{AB}							
090	83.0	0.496	0.497	0.998	-0.004	0.395	-0.1	32.8	32.8	90.2	93.0	-0.2	145.1	145.1	90.0	1.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
091	83.8	0.494	0.498	0.991	-0.004	0.395	-0.6	33.0	33.0	91.2	93.3	-1.3	144.7	144.7	90.9	1.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
092	84.2	0.492	0.5	0.984	-0.005	0.395	-1.2	33.2	33.2	92.1	93.5	-2.3	144.1	144.2	90.9	1.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
093	84.9	0.491	0.501	0.978	-0.005	0.395	-1.8	33.4	33.5	93.1	93.8	-3.4	143.5	143.5	91.3	0.98	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
094	85.5	0.489	0.503	0.971	-0.006	0.395	-2.4	33.6	33.7	94.1	94.1	-4.5	142.7	142.8	91.8	0.97	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
095	86.1	0.487	0.504	0.965	-0.006	0.395	-3.0	33.8	34.0	95.0	94.3	-5.5	141.8	141.9	92.2	0.96	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
096	87.7	0.485	0.505	0.958	-0.007	0.395	-3.5	34.0	34.2	96.0	94.6	-6.0	140.8	140.9	92.7	0.94	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
097	88.5	0.482	0.507	0.95	-0.008	0.395	-4.3	34.2	34.5	97.2	94.9	-8.6	138.7	138.9	93.3	0.93	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
098	89.3	0.479	0.508	0.942	-0.009	0.394	-5.1	34.4	34.8	98.4	95.3	-9.4	136.6	137.0	93.9	0.91	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
099	89.9	0.476	0.509	0.934	-0.01	0.394	-5.8	34.6	35.1	99.5	95.6	-10.7	134.8	135.2	94.5	0.9	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	89.8	0.473	0.511	0.926	-0.011	0.395	-6.5	34.8	35.4	100.6	95.9	-12.0	133.0	133.5	95.1	0.88	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	90.5	0.471	0.512	0.919	-0.013	0.395	-7.2	35.0	35.7	101.7	96.2	-13.3	131.4	132.1	95.7	0.87	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	91.2	0.468	0.513	0.912	-0.014	0.395	-7.9	35.1	36.0	102.7	96.5	-14.4	129.9	130.7	96.3	0.86	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	91.8	0.466	0.514	0.906	-0.015	0.395	-8.5	35.3	36.3	103.6	96.7	-15.5	128.6	129.5	96.9	0.84	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	92.4	0.463	0.514	0.901	-0.016	0.396	-9.1	35.4	36.6	104.4	96.9	-16.5	127.4	128.5	97.4	0.83	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	92.9	0.462	0.515	0.896	-0.017	0.396	-9.6	35.5	36.8	105.5	97.2	-17.4	126.3	127.6	97.8	0.81	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	94.1	0.462	0.513	0.901	-0.018	0.393	-10.2	35.7	37.0	106.5	97.7	-16.6	125.1	126.2	97.5	0.8	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	95.1	0.46	0.511	0.898	-0.021	0.391	-9.6	35.9	37.2	105.0	98.1	-17.2	122.0	123.2	98.0	0.78	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	94.3	0.453	0.515	0.878	-0.024	0.395	-11.4	35.4	37.2	107.9	97.7	-20.7	119.3	121.1	99.8	0.77	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	93.9	0.45	0.517	0.871	-0.024	0.397	-12.0	35.2	37.2	108.8	97.6	-21.9	118.8	120.8	100.4	0.76	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	93.5	0.448	0.519	0.864	-0.024	0.399	-12.6	35.0	37.3	109.8	97.4	-23.1	118.2	120.5	101.0	0.74	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	93.0	0.446	0.52	0.857	-0.024	0.401	-13.2	34.9	37.3	110.8	97.2	-24.4	117.7	120.2	101.7	0.73	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	92.6	0.444	0.522	0.848	-0.025	0.403	-13.9	34.7	37.3	111.8	97.0	-25.7	117.2	120.6	102.3	0.71	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	92.4	0.444	0.524	0.841	-0.025	0.405	-14.5	34.4	37.4	112.8	96.8	-27.1	116.6	121.1	103.0	0.7	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	91.6	0.439	0.526	0.833	-0.026	0.409	-15.2	34.2	37.5	113.9	96.6	-28.5	116.1	119.5	103.8	0.68	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	91.1	0.436	0.528	0.825	-0.026	0.412	-15.9	34.0	37.6	115.0	96.4	-30.0	115.9	119.3	104.5	0.67	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	90.6	0.433	0.53	0.817	-0.026	0.415	-16.5	33.8	37.6	116.1	96.2	-31.5	114.9	119.1	105.3	0.66	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	90.1	0.43	0.532	0.808	-0.027	0.419	-17.2	33.6	37.8	117.2	96.0	-33.0	114.3	119.0	106.1	0.64	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	89.6	0.427	0.535	0.799	-0.027	0.423	-17.9	33.3	37.9	118.3	95.8	-34.6	113.7	118.9	106.9	0.63	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	89.1	0.424	0.537	0.79	-0.027	0.427	-18.6	33.1	38.0	119.4	95.6	-36.3	113.1	118.8	107.7	0.61	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	88.5	0.421	0.539	0.78	-0.028	0.431	-19.4	32.9	38.2	120.5	95.4	-37.9	112.5	118.7	108.6	0.6	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	88.0	0.418	0.542	0.771	-0.028	0.436	-20.1	32.6	38.3	121.6	95.1	-39.7	111.9	118.7	109.5	0.58	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	87.4	0.415	0.545	0.761	-0.029	0.44	-20.8	32.4	38.5	122.7	94.9	-41.5	111.2	118.7	110.4	0.57	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	86.9	0.411	0.547	0.751	-0.029	0.446	-21.5	32.1	38.7	123.8	94.7	-43.3	110.6	118.8	111.3	0.56	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	86.3	0.408	0.55	0.741	-0.03	0.451	-22.3	31.9	38.9	124.9	94.4	-45.1	109.9	118.9	112.3	0.54	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	85.8	0.404	0.553	0.731	-0.03	0.456	-23.0	31.6	39.1	126.0	94.2	-47.0	109.3	118.9	113.2	0.53	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	85.2	0.4	0.556	0.72	-0.031	0.462	-23.8	31.4	39.4	127.1	93.9	-49.0	108.6	119.2	114.2	0.51	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	84.6	0.396	0.558	0.71	-0.031	0.468	-24.5	31.1	39.6	128.1	93.7	-50.9	108.0	119.4	115.2	0.5	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	84.0	0.393	0.561	0.699	-0.032	0.475	-25.2	30.9	39.9	129.2	93.4	-53.0	107.3	119.7	116.2	0.49	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	83.4	0.389	0.564	0.688	-0.032	0.481	-26.0	30.8	40.2	130.2	93.2	-55.0	106.6	120.0	117.2	0.47	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	82.9	0.386	0.567	0.677	-0.033	0.486	-26.7	30.4	40.4	131.2	93.0	-57.1	105.6	120.4	118.3	0.46	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131	82.3	0.38	0.571	0.666	-0.033	0.495	-27.4	30.1	40.7	132.2	92.7	-59.2	105.3	120.8	119.3	0.44	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	81.7	0.376	0.574	0.655	-0.034	0.502	-28.1	29.9	41.0	133.2	92.4	-61.3	104.6	121.3	120.3	0.43	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	81.1	0.372	0.577	0.644	-0.034	0.509	-28.8	29.6	41.3	134.2	92.2	-63.5	103.9	121.8	121.4	0.41	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	80.6	0.367	0.581	0.633	-0.035	0.517	-29.5	29.4	41.7	135.1	91.9	-65.7	103	122.2	122.4	0.4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	80.0	0.363	0.584																						

rgb* _{AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant E00																										
Yxy, <i>c</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 2 degree observer																										
Elementary hue circle with 140 divided elementary hue angles: <i>h</i> _{AB} = 16.9, 92.2, 162.4, 268.6 of <i>LIN</i> YAB, and 90 intended hue angles:																										
180, 181, ..., 269, <i>LIN</i> YAB data of CIE test colours 9 (R): 12.4 11.1 3.3, 10 (Y): 6.0 -0.7 19.6, 11 (G): 19.7 -7.2 2.3, 12 (B): 6.0 -0.1 -7.3																										
<i>no.</i> _{AB}	<i>x</i>	<i>y</i>	<i>a</i>	<i>b</i>	<i>c</i> _{AB}	<i>A</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}											
180	58.2	0.179	0.416	0.431	-0.387	0.568	-33.1	0.7	33.1	178.7	80.8	-102.0	1.6	182.0	179.0	0.00	1.00	0.33	0.618							
181	58.2	0.179	0.411	0.435	-0.397	0.568	-32.8	0.1	32.8	179.7	80.8	-101.0	0.3	181.0	179.8	0.00	1.00	0.35	0.617							
182	58.1	0.178	0.406	0.439	-0.407	0.56	-32.6	-0.4	32.6	180.7	80.8	-100.0	-1.0	180.0	180.5	0.00	1.00	0.36	0.618							
183	58.1	0.178	0.402	0.443	-0.417	0.556	-32.3	-1.0	32.3	181.7	80.8	-98.9	-2.3	199.0	181.3	0.00	1.00	0.38	0.619							
184	58.1	0.178	0.397	0.448	-0.427	0.552	-32.0	-1.5	32.1	182.8	80.8	-97.9	-3.7	98.0	182.1	0.00	1.00	0.4	0.620							
185	58.1	0.177	0.392	0.452	-0.437	0.549	-31.8	-2.1	31.9	183.8	80.8	-96.9	-5.0	97.0	182.9	0.00	1.00	0.42	0.621							
186	58.1	0.177	0.388	0.456	-0.447	0.545	-31.5	-2.7	31.6	184.8	80.8	-95.9	-6.3	96.1	183.7	0.00	1.00	0.44	0.622							
187	58.0	0.177	0.384	0.461	-0.457	0.540	-31.3	-3.3	31.4	186.0	80.7	-94.8	-7.6	95.1	184.5	0.00	1.00	0.46	0.623							
188	58.0	0.176	0.379	0.466	-0.467	0.535	-31.0	-3.8	31.2	187.2	80.7	-93.8	-8.8	94.2	185.3	0.00	1.00	0.48	0.624							
189	58.0	0.176	0.375	0.469	-0.477	0.535	-30.7	-4.4	31.1	188.2	80.7	-92.8	-10.0	93.4	183.1	0.00	1.00	0.5	0.625							
190	58.0	0.176	0.371	0.474	-0.486	0.533	-30.5	-5.0	30.9	189.3	80.7	-91.8	-11.2	92.5	182.9	0.00	1.00	0.51	0.625							
191	58.0	0.175	0.367	0.478	-0.496	0.53	-30.2	-5.6	30.7	190.4	80.7	-90.8	-12.4	91.7	182.7	0.00	1.00	0.53	0.626							
192	57.9	0.175	0.363	0.482	-0.506	0.528	-29.9	-6.1	30.6	191.6	80.7	-89.8	-13.6	90.9	182.6	0.00	1.00	0.55	0.627							
193	57.9	0.175	0.36	0.486	-0.516	0.526	-29.7	-6.7	30.4	192.7	80.7	-88.9	-14.7	90.1	182.4	0.00	1.00	0.57	0.628							
194	57.9	0.175	0.356	0.491	-0.525	0.524	-29.4	-7.2	30.3	193.8	80.7	-87.9	-15.8	89.3	182.2	0.00	1.00	0.59	0.629							
195	57.9	0.174	0.353	0.495	-0.534	0.522	-29.2	-7.8	30.2	194.9	80.7	-86.9	-16.9	88.6	182.0	0.00	1.00	0.61	0.630							
196	57.9	0.174	0.349	0.498	-0.545	0.52	-28.9	-8.4	30.1	196.0	80.7	-85.9	-18.1	87.8	181.9	0.00	1.00	0.63	0.631							
197	57.8	0.174	0.345	0.504	-0.555	0.519	-28.6	-9.0	30.0	197.4	80.6	-84.8	-19.2	87.0	182.8	0.00	1.00	0.65	0.632							
198	57.8	0.174	0.341	0.509	-0.565	0.517	-28.3	-9.5	29.9	198.6	80.6	-83.8	-20.4	86.2	193.6	0.00	1.00	0.67	0.633							
199	57.8	0.174	0.338	0.514	-0.575	0.516	-28.0	-10.1	29.8	199.8	80.6	-82.7	-21.5	85.5	194.5	0.00	1.00	0.68	0.634							
200	57.8	0.174	0.335	0.519	-0.585	0.515	-27.8	-10.7	29.8	201.0	80.6	-81.7	-22.5	84.8	195.4	0.00	1.00	0.7	0.635							
201	57.8	0.173	0.332	0.523	-0.594	0.514	-27.5	-11.2	29.7	202.2	80.6	-80.8	-23.5	84.1	196.2	0.00	1.00	0.72	0.636							
202	57.8	0.173	0.329	0.527	-0.603	0.514	-27.3	-11.7	29.7	203.3	80.6	-79.9	-24.4	83.5	197.0	0.00	1.00	0.74	0.637							
203	57.7	0.173	0.326	0.532	-0.612	0.514	-27.0	-12.2	29.7	204.4	80.6	-79.0	-25.4	82.9	197.8	0.00	1.00	0.76	0.638							
204	57.7	0.173	0.323	0.536	-0.621	0.514	-26.8	-12.7	29.6	205.5	80.6	-78.1	-26.3	82.4	198.6	0.00	1.00	0.78	0.639							
205	57.7	0.173	0.321	0.539	-0.629	0.514	-26.5	-13.2	29.6	206.6	80.6	-77.3	-27.1	81.9	199.3	0.00	1.00	0.8	0.640							
206	57.7	0.173	0.318	0.543	-0.637	0.514	-26.3	-13.6	29.6	207.4	80.5	-76.5	-27.9	81.4	200.0	0.00	1.00	0.82	0.641							
207	57.6	0.173	0.316	0.547	-0.644	0.514	-26.1	-14.1	29.6	208.3	80.5	-75.7	-28.7	81.0	200.7	0.00	1.00	0.83	0.641							
208	57.6	0.173	0.314	0.55	-0.652	0.515	-25.9	-14.5	29.7	209.2	80.5	-75.0	-29.4	80.6	201.4	0.00	1.00	0.85	0.642							
209	57.6	0.173	0.312	0.553	-0.658	0.515	-25.7	-14.9	29.7	210.1	80.5	-74.3	-30.1	80.2	202.0	0.00	1.00	0.87	0.643							
210	57.5	0.172	0.31	0.556	-0.665	0.516	-25.5	-15.2	29.7	210.9	80.5	-73.7	-30.7	79.8	202.6	0.00	1.00	0.89	0.644							
211	57.5	0.172	0.308	0.559	-0.671	0.517	-25.3	-15.6	29.7	211.6	80.4	-73.1	-31.3	79.5	203.2	0.00	1.00	0.91	0.645							
212	57.4	0.172	0.307	0.562	-0.677	0.518	-25.1	-15.9	29.7	212.4	80.4	-72.5	-31.9	79.2	203.7	0.00	1.00	0.93	0.646							
213	57.4	0.172	0.305	0.564	-0.683	0.519	-24.9	-16.2	29.8	213.0	80.4	-72.0	-32.4	79.0	204.2	0.00	1.00	0.95	0.647							
214	57.2	0.172	0.302	0.569	-0.696	0.522	-24.6	-16.9	29.9	214.5	80.3	-71.0	-33.6	78.6	205.3	0.00	1.00	0.97	0.648							
215	56.9	0.171	0.299	0.57	-0.705	0.527	-24.4	-17.4	29.9	215.4	80.1	-70.6	-34.5	78.6	206.0	0.00	1.00	1.00	0.649							
216	56.1	0.169	0.298	0.568	-0.714	0.533	-24.1	-17.6	29.9	216.1	79.6	-70.6	-35.2	78.9	206.4	0.00	0.99	1.00	0.650							
217	55.0	0.167	0.295	0.566	-0.725	0.542	-23.8	-17.9	29.8	216.9	79.0	-70.6	-36.0	79.3	207.0	0.00	0.97	1.00	0.651							
218	54.2	0.166	0.293	0.566	-0.737	0.549	-23.5	-18.2	29.8	217.8	78.6	-70.4	-36.8	79.5	207.6	0.00	0.95	1.00	0.652							
219	53.3	0.164	0.29	0.565	-0.749	0.557	-23.2	-18.6	29.7	218.7	78.1	-70.2	-37.7	79.7	208.2	0.00	0.93	1.00	0.653							
220	52.4	0.162	0.288	0.564	-0.762	0.566	-22.8	-19.0	29.7	219.7	77.5	-69.9	-38.6	79.9	208.9	0.00	0.91	1.00	0.654							
221	51.5	0.16	0.285	0.563	-0.776	0.576	-22.4	-19.3	29.6	220.7	77.0	-69.6	-39.6	80.1	209.6	0.00	0.89	1.00	0.655							
222	50.5	0.159	0.282	0.563	-0.791	0.586	-22.0	-19.7	29.6	221.8	76.4	-69.3	-40.6	80.4	210.3	0.00	0.87	1.00	0.656							
223	49.6	0.157	0.279	0.562	-0.806	0.597	-21.7	-20.1	29.6	222.8	75.8	-69.0	-41.6	80.6	211.1	0.00	0.85	1.00	0.657							
224	48.6	0.155	0.276	0.561	-0.822	0.608	-21.3	-20.5	29.6	223.9	75.2	-68.7	-42.7	80.9	211.8	0.00	0.84	1.00	0.658							
225	47.6	0.153	0.273	0.561	-0.838	0.62	-20.9	-20.9	29.5	224.9	74.6	-68.4	-43.7	81.2	212.5	0.00	0.82	1.00	0.659							
226	46.7	0.151	0.27	0.56	-0.855	0.632	-20.5	-21.2	29.5	226.0	74.0	-68.0	-44.7	81.4	213.3	0.00	0.8	1.00	0.659							
227	45.7	0.149	0.267	0.56	-0.873	0.645	-20.1	-21.6	29.5	227.0	73.4	-67.5	-45.7	81.6	214.1	0.00	0.78	1.00	0.660							
228	44.7	0.147	0.263	0.561	-0.893	0.66	-19.5	-22.0	29.5	228.4	72.7	-66.8	-46.7	81.7	214.8	0.00	0.76	1.00	0.661							
229	43.7	0.146	0.26	0.563	-0.913	0.673	-19.1	-22.4	29.4	229.5	72.0	-66.1	-48.0	81.7	215.6	0.00	0.74	1.00	0.662							
230	42.9	0.145	0.257	0.564	-0.93	0.686	-18.6	-22.7	29.4	230.6	71.5	-65.3	-49.0	81.7	216.8	0.00	0.72	1.00	0.663							
231	42.2	0.144	0.254	0.566	-0.945	0.696	-18.3	-23.0	29.4	231.7	71.0	-64.6	-49.8	81.6	217.5	0.00	0.7	1.00	0.664							
232	41.7	0.143	0.252	0.568	-0.957	0.705	-17.9	-23.2	29.4	232.2	70.6	-64.0	-50.4	81.5	218.2	0.00	0.68	1.00	0.665							
233	41.2	0.142	0.25	0.57	-0.967	0.711	-17.7	-23.4	29.3	232.8	70.3	-63.5	-50.9	81.4	218.7	0.00	0.67	1.00	0.666							
234	40.8	0.142	0.248	0.571	-0.978	0.719	-17.4	-23.6	29.3	233.3	70.0	-63.0	-51.5	81.4	219.2	0.00	0.65	1.00	0.667							
235	40.2	0.141	0.246	0.573	-0.991	0.729	-17.1	-23.8	29.3	234.2	69.6	-62.4	-52.1	81.3	219.8	0.00	0.63	1.00	0.668							
236	39.6	0.14	0.244	0.576	-1.008	0.741	-16.7	-24.0	29.3	235.1	69.1	-61.6	-53.0	81.2	220.7	0.00	0.61	1.00	0.669							
237	39.4	0.139	0.243	0.578	-1.023	0.749	-16.3	-24.2	29.3	236.0	68.7	-61.0	-53.9	81.1	221.5	0.00	0.59	1.00	0.670							
238	37.9	0.138	0.237	0.584	-1.052	0.773	-15.7	-24.7	29.3	237.4	67.9	-59.3	-55.0	80.9	222.8	0.00	0.57	1.00	0.671							
239	36.9	0.137	0.233	0.589	-1.079	0.794	-15.1	-25.1	29.3	238.9	67.2	-57.8	-56.3	80.7	224.2	0.00	0									

rgb_{AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant E00

Xyy_{AB}, abc_{AB}, ABC_{AB}, LabC_{AB} at **h_{AB}** at the elementary spacing of elementary hues **h_{AB}** of **LINyAB** for CIE 2 degree observer

Elementary hue circle with 144 divided elementary hue angles: h_{AB} = 16.9, 92.2, 162.4, 268.6 of LINyAB, and 90 intended hue angles:

270, 271, ..., 360, LINyAB data of CIE test colours 9 (R): 12.4 11.1 3.3, 10 (Y): 6.0 -0.7 19.6, 11 (G): 19.7 -7.2 2.3, 12 (B): 6.0 -0.1 -7.3

no.	AB	x	y	a	b	c	C _{AB}	A	B	C	C _{AB}	h _{AB}	L*	a*	b*	C	ab	h _{ab}	rgb _{AB}	c _{AB}	Code _{AB}
276	16.9	x	0.128	0.127	1.006	-2.331	1.931	0.1	-32.8	32.8	270.2	48.2	0.6	-88.5	88.5	270.4	0.02	0.00	1.00	0.00	% B01R
277	16.3	x	0.128	0.123	1.042	-2.42	2.021	0.6	-33.0	33.0	271.2	47.4	3.8	-89.9	90.0	272.4	0.04	0.04	1.00	0.00	% B02R
272	15.7	x	0.129	0.119	1.08	-2.515	2.117	1.2	-33.2	33.2	272.1	46.6	7.0	-91.2	91.5	274.4	0.06	0.06	1.00	0.00	% B03R
273	15.0	x	0.129	0.115	1.122	-2.617	2.22	1.8	-33.3	33.5	273.1	45.7	10.4	-92.6	93.2	276.4	0.08	0.08	1.00	0.00	% B04R
274	14.4	x	0.129	0.111	1.167	-2.726	2.322	2.4	-33.6	33.7	274.1	44.9	13.8	-94.0	95.1	278.3	0.09	0.09	1.00	0.00	% B04R
275	13.8	x	0.13	0.107	1.216	-2.844	2.453	3.0	-33.8	34.0	275.0	44.0	17.4	-95.5	97.1	280.3	0.11	0.09	1.00	0.00	% B05R
276	13.2	x	0.13	0.103	1.27	-2.971	2.585	3.5	-34.0	34.2	276.0	43.1	21.1	-96.9	99.2	282.3	0.13	0.09	1.00	0.00	% B06R
277	12.4	x	0.131	0.097	1.348	-3.152	2.774	4.3	-34.2	34.5	277.2	41.9	26.1	-98.8	102.2	284.6	0.15	0.09	1.00	0.00	% B07R
278	11.6	x	0.132	0.092	1.436	-3.354	2.986	5.1	-34.4	34.8	278.4	40.7	31.3	-100.8	105.5	287.2	0.17	0.09	1.00	0.00	% B08R
279	10.9	x	0.133	0.087	1.536	-3.579	3.224	5.8	-34.6	35.1	279.5	39.4	36.7	-102.8	109.1	289.6	0.19	0.09	1.00	0.00	% B09R
280	10.1	x	0.134	0.081	1.646	-3.829	3.489	6.5	-34.8	35.4	280.6	38.1	42.1	-104.8	113.0	291.9	0.2	0.09	1.00	0.00	% B10R
281	9.4	x	0.135	0.076	1.769	-4.195	3.784	7.2	-35.0	35.7	281.7	36.8	47.6	-106.8	117.0	294.0	0.22	0.09	1.00	0.00	% B11R
282	8.7	x	0.136	0.071	1.904	-4.407	4.108	7.9	-35.1	36.0	282.7	35.5	53.1	-108.8	121.1	296.0	0.24	0.09	1.00	0.00	% B12R
283	8.1	x	0.135	0.067	2.05	-4.733	4.459	8.5	-35.3	36.3	283.6	34.3	58.5	-110.8	125.3	297.8	0.26	0.09	1.00	0.00	% B13R
284	7.5	x	0.138	0.062	2.205	-5.079	4.832	9.1	-35.4	36.6	284.4	33.1	63.7	-112.7	129.5	299.4	0.28	0.09	1.00	0.00	% B14R
285	7.0	x	0.139	0.058	2.366	-5.437	5.219	9.6	-35.5	36.9	285.5	31.9	68.6	-114.5	133.5	300.9	0.3	0.09	1.00	0.00	% B15R
286	6.4	x	0.129	0.049	2.599	-5.678	5.382	9.2	-35.8	37.0	284.5	28.9	72.5	-119.4	139.8	301.2	0.32	0.09	1.00	0.00	% B16R
287	4.8	x	0.126	0.042	3.009	-7.888	7.753	9.6	-35.9	37.2	285.0	26.2	80.6	-123.7	147.6	303.0	0.33	0.09	1.00	0.00	% B16R
288	5.6	x	0.146	0.048	3.029	-6.662	6.583	11.4	-35.4	37.2	287.9	28.5	85.7	-119.3	146.9	305.7	0.35	0.09	1.00	0.00	% B17R
289	6.0	x	0.153	0.051	2.99	-6.215	6.146	12.0	-35.2	37.2	288.8	29.6	86.5	-117.4	145.9	306.3	0.37	0.09	1.00	0.00	% B18R
290	6.4	x	0.159	0.054	2.953	-5.809	5.51	12.6	-35.0	37.3	289.8	30.6	87.3	-115.6	144.9	307.0	0.39	0.09	1.00	0.00	% B19R
291	6.9	x	0.166	0.057	2.919	-5.44	5.393	13.2	-34.9	37.3	290.0	31.6	88.0	-113.8	143.9	307.7	0.41	0.09	1.00	0.00	% B20R
292	7.3	x	0.173	0.06	2.888	-5.05	5.07	13.9	-34.7	37.3	291.8	32.6	88.8	-112.1	143.0	308.4	0.43	0.09	1.00	0.00	% B21R
293	7.8	x	0.18	0.063	2.858	-4.8	4.777	14.5	-34.4	37.4	292.8	33.6	89.6	-110.3	142	309.0	0.44	0.09	1.00	0.00	% B22R
294	8.3	x	0.187	0.066	2.831	-4.523	4.511	15.2	-34.2	37.5	293.9	34.6	90.4	-108.6	141.3	309.7	0.46	0.09	1.00	0.00	% B23R
295	8.8	x	0.193	0.069	2.806	-4.269	4.27	15.9	-34.0	37.5	295.0	35.5	91.2	-106.9	140.5	310.4	0.48	0.09	1.00	0.00	% B24R
296	9.3	x	0.2	0.072	2.782	-4.037	4.051	16.5	-33.8	37.6	296.1	36.5	92.0	-105.2	139.8	311.1	0.5	0.09	1.00	0.00	% B25R
297	9.8	x	0.207	0.075	2.76	-3.825	3.851	17.2	-33.6	37.8	297.2	37.5	92.8	-103.5	139.0	311.8	0.52	0.09	1.00	0.00	% B26R
298	10.3	x	0.213	0.078	2.739	-3.63	3.669	17.9	-33.3	37.9	298.3	38.4	93.6	-101.9	138.4	312.5	0.54	0.09	1.00	0.00	% B27R
299	10.8	x	0.22	0.08	2.72	-3.451	3.583	18.6	-33.1	38.0	299.4	39.3	94.4	-100.2	137.7	313.2	0.56	0.09	1.00	0.00	% B28R
300	11.4	x	0.226	0.083	2.702	-3.286	3.351	19.4	-32.9	38.2	300.5	40.2	95.2	-98.7	137.1	313.9	0.57	0.09	1.00	0.00	% B28R
301	11.9	x	0.233	0.086	2.684	-3.134	3.212	20.1	-32.6	38.3	301.6	41.1	95.9	-97.1	136.5	314.6	0.59	0.09	1.00	0.00	% B29R
302	12.5	x	0.239	0.089	2.660	-2.994	3.084	20.8	-32.4	38.5	302.7	42	96.7	-95.6	136.0	315.3	0.61	0.09	1.00	0.00	% B30R
303	13.0	x	0.245	0.092	2.653	-2.864	2.967	21.5	-32.1	38.7	303.8	42.8	97.4	-94.1	135.4	316.0	0.63	0.09	1.00	0.00	% B31R
304	13.6	x	0.251	0.095	2.638	-2.744	2.86	22.3	-31.9	38.9	304.9	43.7	98.2	-92.6	135.0	316.6	0.65	0.09	1.00	0.00	% B32R
305	14.1	x	0.257	0.097	2.624	-2.632	2.761	23.0	-31.6	39.1	306.0	44.5	98.9	-91.1	134.5	317.3	0.67	0.09	1.00	0.00	% B33R
306	14.7	x	0.262	0.1	2.611	-2.529	2.67	23.8	-31.4	39.4	307.1	45.3	99.6	-89.7	134.1	317.9	0.69	0.09	1.00	0.00	% B34R
307	15.3	x	0.268	0.103	2.599	-2.432	2.586	24.5	-31.1	39.6	308.1	46.1	100.3	-88.3	133.6	318.6	0.7	0.09	1.00	0.00	% B35R
308	15.9	x	0.273	0.105	2.587	-2.343	2.509	25.2	-30.9	39.9	309.2	46.8	101.0	-86.9	133.2	319.2	0.72	0.09	1.00	0.00	% B36R
309	16.5	x	0.279	0.108	2.575	-2.259	2.437	26.0	-30.6	40.2	310.2	47.6	101.6	-85.6	132.9	319.8	0.74	0.09	1.00	0.00	% B37R
310	17.0	x	0.284	0.11	2.564	-2.181	2.372	26.7	-30.4	40.4	311.3	48.3	102.2	-84.3	132.5	320.4	0.76	0.09	1.00	0.00	% B38R
311	17.6	x	0.289	0.113	2.554	-2.108	2.309	27.4	-30.1	40.7	312.2	49.0	102.9	-83.0	132.2	321.0	0.78	0.09	1.00	0.00	% B39R
312	18.2	x	0.294	0.115	2.544	-2.04	2.252	28.1	-29.9	41.0	313.2	49.7	103.5	-81.7	131.9	321.6	0.8	0.09	1.00	0.00	% B40R
313	18.8	x	0.299	0.117	2.534	-1.976	2.199	28.8	-29.6	41.3	314.2	50.4	104.1	-80.5	131.6	322.2	0.81	0.09	1.00	0.00	% B41R
314	19.3	x	0.303	0.12	2.525	-1.916	2.15	29.5	-29.4	41.7	315.1	51.1	104.6	-79.3	131.3	322.8	0.83	0.09	1.00	0.00	% B42R
315	19.9	x	0.308	0.122	2.515	-1.859	2.104	30.2	-29.1	42.0	316.0	51.8	105.2	-78.2	131.0	323.3	0.85	0.09	1.00	0.00	% B43R
316	20.5	x	0.312	0.124	2.507	-1.807	2.062	30.9	-28.8	42.3	316.9	52.4	105.7	-77.0	130.8	323.9	0.87	0.09	1.00	0.00	% B44R
317	21.0	x	0.316	0.126	2.498	-1.757	2.022	31.6	-28.6	42.6	317.8	53.0	106.2	-75.9	130.5	324.4	0.89	0.09	1.00	0.00	% B45R
318	21.6	x	0.32	0.128	2.49	-1.711	1.985	32.2	-28.3	42.9	318.6	53.6	106.7	-74.8	130.3	324.9	0.91	0.09	1.00	0.00	% B46R
319	22.2	x	0.324	0.13	2.482	-1.667	1.95	32.9	-28.1	43.3	319.4	54.2	107.1	-73.7	130.1	325.4	0.93	0.09	1.00	0.00	% B47R
320	22.7	x	0.328	0.132	2.474	-1.626	1.917	33.5	-27.9	43.6	320.2	54.8	107.5	-72.7	129.8	325.9	0.94	0.09	1.00	0.00	% B48R
321	23.2	x	0.331	0.134	2.466	-1.587	1.887	34.1	-27.6	43.9	321.0	55.3	108.0	-71.7	129.6	326.3	0.96	0.09	1.00	0.00	% B49R
322	24.8	x	0.339	0.139	2.427	-1.486	1.793	35.4	-26.9	44.5	322.7	56.9	108.0	-68.9	128.2	327.4	0.98	0.09	1.00	0.00	% B49R
323	26.2	x	0.346	0.144	2.389	-1.404	1.714	36.4	-26.3	44.9	324.1	58.2	107.7	-66.5	126.6	328.3	1.00	0.09	0.99	0.50	% B50R
324	27.4	x	0.351	0.149	2.353	-1.337	1.646														