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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	35.14	-1 498c	19 498			%		
33 568	12 460	40.71	37.54	-11.81	39.35	1.9221	-0.6901	34.25	-1 507c	21 507			%		
33 569	13 465	39.85	38.45	-14.78	41.19	1.9647	-0.771	33.89	-1 514c	22 514			%		
34 571	14 470	38.47	38.94	-17.51	42.7	2.0122	-0.8553	33.57	-1 522c	24 522			%		
35 575	14 475	35.46	39.14	-18.72	43.38	2.1036	-0.9278	33.44	-1 525c	25 525	Mm		%		
36 581	16 480	31.78	38.3	-23.26	44.81	2.205	-1.1319	32.87	-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					%		

Ostwald optimal colours (o) of maximum (m) C _{AB} for E00, Y _{w,10} =100, Y _m =520_770, LINYAB data															%
i ₁ , λ ₁	i ₂ , λ ₂	Y ₁₀₀	A ₁₀₀	B ₁₀₀	C _{AB}	a	b	h _{AB}	i _d , λ _d	i _c , λ _c	Code			%	
1 405	31 559	55.67	-23.85	-16.83	29.19	0.5714	-0.7023	215.2	15 477	37 589	Cm			%	
7 435	32 561	56.07	-29.8	-3.91	30.06	0.4683	-0.4698	187.4	16 484	-1 484c				%	
10 450	32 562	56.42	-33.81	6.43	34.42	0.4005	-0.2859	169.2	18 493	-1 493c				%	
12 460	33 565	57.5	-35.67	12.82	37.91	0.3794	-0.177	160.2	21 506	-1 506c				%	
13 465	33 568	58.96	-36.09	15.86	39.42	0.3878	-0.1309	156.2	23 515	-1 515c				%	
13 470	34 572	62.72	-36.13	17.37	40.09	0.4238	-0.123	154.3	24 520	-1 520c				%	
14 475	36 581	68.2	-35.02	21.58	41.14	0.4863	-0.0836	148.3	26 532	-1 532c	Gm			%	
16 480	40 604	80.28	-25.55	29.1	38.73	0.6815	-0.0374	131.2	30 551	-1 551c				%	
17 485	-1 485c	91.81	-8.69	34.56	35.64	0.9052	-0.0235	104.1	32 564	11 456				%	
18 490	-1 490c	90.24	-7.16	34.54	35.28	0.9204	-0.0171	101.7	32 564	11 458	max			%	
19 495	-1 495c	88.4	-5.35	34.26	34.67	0.9393	-0.0124	98.8	33 565	12 460				%	
20 500	-1 500c	86.28	-3.26	33.73	33.89	0.962	-0.009	95.5	33 566	12 462				%	
22 510	-1 510c	81.07	1.59	32.05	32.09	1.0195	-0.0047	87.1	33 569	13 466				%	
23 520	-1 519c	77.97	4.29	30.93	31.22	1.0549	-0.0033	82.1	34 570	13 468	Ym			%	
25 530	-1 529c	70.93	9.82	28.26	29.92	1.1384	-0.0015	70.8	34 573	14 470				%	
27 540	-1 539c	63.03	15.1	25.18	29.36	1.2395	-0.0005	59.0	35 577	14 473				%	
29 545	-1 545c	54.64	19.62	21.85	29.37	1.359	0.0	48.0	36 582	15 475				%	
29 550	-1 549c	54.64	19.62	21.85	29.37	1.359	0.0	48.0	36 582	15 475				%	
31 555	-1 555c	46.09	22.87	18.44	29.38	1.4962	0.0	38.8	37 587	15 476				%	
32 560	3 415	41.99	25.16	14.2	28.89	1.5991	-0.0619	29.4	39 595	15 478				%	
380	770	99.99	0.0	0.0	0.01	0.9999	-0.4	0.0						%	

Ostwald optimal colours (o) of maximum (m) C _{AB} for E00, Y _{w,10} =100, Y _m =770_520, LINYAB complementary															%
i ₁ , λ ₁	i ₂ , λ ₂	Y ₁₀₀	A ₁₀₀	B ₁₀₀	C _{AB}	a	b	h _{AB}	i _d , λ _d	i _c , λ _c	Code			%	
31 559	1 405	44.32	23.85	16.83	29.19	1.5381	-0.0202	35.2	37 589	15 477	Rm			%	
32 561	7 435	43.92	29.8	3.91	30.06	1.6786	-0.3109	7.4	-1 484c	16 484				%	
32 562	10 450	43.57	33.81	-6.43	34.42	1.7759	-0.5476	34.92	-1 493c	18 493				%	
33 565	12 460	42.49	35.67	-12.82	37.91	1.8394	-0.7017	34.02	-1 506c	21 506				%	
33 568	13 465	41.03	36.09	-15.86	39.42	1.8794	-0.7867	33.62	-1 515c	23 515				%	
34 572	13 470	37.27	36.13	-17.37	40.09	1.9695	-0.8662	33.43	-1 520c	24 520				%	
36 581	14 475	31.79	35.02	-21.58	41.14	2.1017	-1.0788	32.83	-1 532c	26 532	Mm			%	
40 604	16 480	19.71	25.55	-29.1	38.73	2.2961	-1.8762	31.12	-1 551c	30 551				%	
-1 485c	17 485	8.18	8.69	-34.56	35.64	2.0622	-4.6232	284.1	11 456	32 564				%	
-1 490c	18 490	9.75	7.16	-34.54	35.28	1.7342	-3.9405	281.7	11 458	32 564	min			%	
-1 495c	19 495	11.59	5.35	-34.26	34.67	1.4614	-3.3554	278.8	12 460	33 565				%	
-1 500c	20 500	13.71	3.26	-33.73	33.89	1.2379	-2.8589	275.5	12 462	33 566				%	
-1 510c	22 510	18.92	-1.59	-32.05	32.08	0.9156	-2.0933	267.1	13 466	33 569				%	
-1 519c	23 520	22.02	-4.29	-30.93	31.22	0.805	-1.8041	262.1	13 468	34 570	Bm			%	
-1 529c	25 530	29.06	-9.82	-28.26	29.92	0.6618	-1.3726	250.8	14 470	34 573				%	
-1 539c	27 540	36.96	-15.1	-25.18	29.36	0.5912	-1.0813	239.0	14 473	35 577				%	
-1 545c	29 545	45.35	-19.62	-21.85	29.37	0.5673	-0.8818	228.0	15 475	36 582				%	
-1 549c	29 550	45.35	-19.62	-21.85	29.37	0.5673	-0.8818	228.0	15 475	36 582				%	
-1 555c	31 555	53.9	-22.87	-18.44	29.38	0.5754	-0.7421	218.8	15 476	37 587				%	
3 415	32 560	58.0	-25.16	-14.2	28.89	0.5659	-0.6448	209.4	15 478	39 595				%	
380	770	99.99	0.0	0.0	0.01	0.9999	-0.4	0.0						%	

http://130.149.60.45/~farbmatrik/VE48/VE48LONP.PDF /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 3/5

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rgb^*_{eAB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant E01									
Yxy, abc_{AB} , ABC_{AB} , $LabC^*_{\text{ab}}$, h_{AB} data for relative spacing of elementary hue h_{AB} of LYNAB for CIE 2 degree observer									
Elementary hue circle with 4 intended elementary hue angles: $h_{\text{AB}} = 16.9, 92.2, 162.4, 268.6$ of LYNAB, and 90 intended hue angles:									
090, 091, ..., 179, LYNAB data of CIE test colours 9 (R): 12.4 11.1 3.3, 10 (Y): 60.0 -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_{AB}	h_{AB}	L^*	a^*	b^*
090	83.0	0.496	0.497	0.998	-0.084	0.395	-0.1	32.8	32.8
091	83.6	0.498	0.498	0.998	-0.084	0.395	-0.1	32.8	32.8
092	84.2	0.492	0.5	0.984	-0.095	0.395	-1.2	33.2	92.1
093	84.9	0.491	0.501	0.978	-0.095	0.395	-1.8	33.4	93.1
094	85.5	0.489	0.503	0.971	-0.096	0.395	-2.4	33.7	94.1
095	86.1	0.487	0.504	0.965	-0.096	0.395	-3.0	33.8	94.9
096	86.7	0.485	0.505	0.958	-0.097	0.395	-3.6	34.0	95.8
097	87.5	0.482	0.507	0.95	-0.098	0.394	-4.3	34.2	96.8
098	88.3	0.479	0.508	0.942	-0.099	0.394	-5.1	34.4	97.8
099	89.0	0.476	0.509	0.934	-0.101	0.394	-5.8	34.6	98.8
100	89.7	0.473	0.511	0.926	-0.103	0.393	-6.5	34.8	99.8
101	90.5	0.471	0.512	0.919	-0.103	0.395	-7.2	35.0	100.7
102	91.2	0.468	0.513	0.912	-0.104	0.393	-7.9	35.1	101.6
103	91.9	0.466	0.514	0.906	-0.105	0.395	-8.5	35.3	102.5
104	92.6	0.463	0.514	0.901	-0.106	0.396	-9.1	35.4	103.4
105	93.3	0.461	0.515	0.896	-0.107	0.396	-9.6	35.5	104.3
106	94.1	0.462	0.513	0.891	-0.108	0.393	-9.2	35.9	105.2
107	95.1	0.46	0.511	0.886	-0.109	0.391	-9.6	35.9	106.1
108	94.3	0.453	0.515	0.878	-0.104	0.395	-11.1	35.4	107.0
109	93.9	0.45	0.517	0.871	-0.104	0.397	-12.0	35.2	107.9
110	93.5	0.447	0.519	0.864	-0.104	0.398	-12.9	35.0	108.8
111	93.0	0.446	0.52	0.857	-0.104	0.401	-13.2	34.9	109.7
112	92.6	0.444	0.522	0.849	-0.105	0.403	-13.9	34.7	110.6
113	92.1	0.441	0.524	0.841	-0.105	0.406	-14.5	34.4	111.5
114	91.6	0.439	0.526	0.833	-0.106	0.409	-15.2	34.2	112.4
115	91.1	0.437	0.528	0.825	-0.106	0.411	-15.9	34.0	113.3
116	90.6	0.433	0.53	0.817	-0.106	0.415	-16.5	33.8	114.2
117	90.1	0.43	0.532	0.808	-0.107	0.419	-17.2	33.6	115.1
118	89.6	0.427	0.535	0.799	-0.107	0.423	-17.9	33.3	116.0
119	89.1	0.424	0.537	0.79	-0.107	0.427	-18.6	33.1	116.9
120	88.6	0.421	0.539	0.782	-0.108	0.431	-19.3	32.9	117.8
121	88.0	0.418	0.542	0.771	-0.108	0.436	-20.1	32.6	118.7
122	87.4	0.415	0.545	0.761	-0.109	0.44	-20.8	32.4	119.6
123	86.9	0.411	0.547	0.751	-0.109	0.446	-21.5	32.1	120.5
124	86.4	0.408	0.549	0.74	-0.11	0.45	-22.2	31.9	121.4
125	85.8	0.404	0.553	0.731	-0.11	0.456	-23.0	31.6	122.3
126	85.2	0.4	0.556	0.72	-0.11	0.462	-23.8	31.4	123.2
127	84.6	0.396	0.558	0.71	-0.11	0.468	-24.5	31.1	124.1
128	84.0	0.393	0.561	0.699	-0.112	0.475	-25.2	30.9	125.0
129	83.4	0.389	0.564	0.681	-0.113	0.481	-26.0	30.6	125.9
130	82.9	0.384	0.568	0.67	-0.113	0.488	-26.7	30.4	126.8
131	82.3	0.38	0.571	0.66	-0.113	0.495	-27.4	30.1	127.7
132	81.7	0.376	0.574	0.655	-0.114	0.502	-28.1	29.9	128.6
133	81.1	0.372	0.577	0.644	-0.114	0.509	-28.8	29.6	129.5
134	80.5	0.368	0.58	0.633	-0.115	0.516	-29.5	29.4	130.4
135	80.0	0.363	0.584	0.621	-0.115	0.523	-30.2	29.1	131.3
136	79.4	0.358	0.587	0.61	-0.116	0.53	-30.9	28.8	132.2
137	78.9	0.354	0.591	0.599	-0.116	0.536	-31.6	28.6	133.1
138	78.3	0.349	0.594	0.588	-0.117	0.543	-32.2	28.3	134.0
139	77.7	0.344	0.598	0.577	-0.117	0.55	-32.9	28.1	134.9
140	77.2	0.34	0.601	0.565	-0.118	0.558	-33.5	27.9	135.8
141	76.7	0.335	0.605	0.554	-0.118	0.565	-34.1	27.6	136.7
142	76.1	0.329	0.609	0.543	-0.119	0.572	-34.8	27.4	137.6
143	75.6	0.324	0.612	0.532	-0.119	0.579	-35.4	27.1	138.5
144	75.1	0.319	0.615	0.521	-0.12	0.586	-36.1	26.9	139.4
145	74.6	0.314	0.618	0.51	-0.12	0.593	-36.8	26.6	140.3
146	74.1	0.309	0.621	0.499	-0.121	0.6	-37.5	26.4	141.2
147	73.6	0.304	0.624	0.487	-0.121	0.607	-38.2	26.1	142.1
148	73.1	0.299	0.628	0.476	-0.122	0.614	-38.9	25.9	143.0
149	72.6	0.294	0.631	0.464	-0.122	0.621	-39.6	25.6	143.9
150	72.1	0.289	0.634	0.453	-0.123	0.628	-40.3	25.4	144.8
151	71.6	0.284	0.637	0.441	-0.123	0.635	-41.0	25.1	145.7
152	71.1	0.279	0.64	0.43	-0.124	0.642	-41.7	24.9	146.6
153	70.6	0.274	0.643	0.418	-0.124	0.649	-42.4	24.6	147.5
154	70.1	0.269	0.646	0.407	-0.125	0.656	-43.1	24.4	148.4
155	69.6	0.264	0.649	0.395	-0.125	0.663	-43.8	24.1	149.3
156	69.1	0.259	0.652	0.384	-0.126	0.67	-44.5	23.9	150.2
157	68.6	0.254	0.655	0.372	-0.126	0.677	-45.2	23.6	151.1
158	68.1	0.249	0.658	0.361	-0.127	0.684	-45.9	23.4	152.0
159	67.6	0.244	0.661	0.35	-0.127	0.691	-46.6	23.1	152.9
160	67.1	0.239	0.664	0.339	-0.128	0.698	-47.3	22.9	153.8
161	66.6	0.234	0.667	0.328	-0.128	0.705	-48.0	22.6	154.7
162	66.1	0.229	0.67	0.316	-0.129	0.712	-48.7	22.4	155.6
163	65.6	0.224	0.673	0.305	-0.129	0.719	-49.4	22.1	156.5
164	65.1	0.219	0.676	0.294	-0.13	0.726	-50.1	21.9	157.4
165	64.6	0.214	0.679	0.283	-0.13	0.733	-50.8	21.6	158.3
166	64.1	0.209	0.682	0.272	-0.131	0.74	-51.5	21.4	159.2
167	63.6	0.204	0.685	0.261	-0.131	0.747	-52.2	21.1	160.1
168	63.1	0.199	0.688	0.25	-0.132	0.754	-52.9	20.9	161.0
169	62.6	0.194	0.691	0.239	-0.132	0.761	-53.6	20.6	161.9
170	62.1	0.189	0.694	0.228	-0.133	0.768	-54.3	20.4	162.8
171	61.6	0.184	0.697	0.217	-0.133	0.775	-55.0	20.1	163.7
172	61.1	0.179	0.7	0.206	-0.134	0.782	-55.7	19.9	164.6
173	60.6	0.174	0.703	0.195	-0.134	0.789	-56.4	19.6	165.5
174	60.1	0.169	0.706	0.184	-0.135	0.796	-57.1	19.4	166.4
175	59.6	0.164	0.709	0.173	-0.135	0.803	-57.8	19.1	167.3
176	59.1	0.159	0.712	0.162	-0.136	0.81	-58.5	18.9	168.2
177	58.6	0.154	0.715	0.151	-0.136	0.817	-59.2	18.6	169.1
178	58.1	0.149	0.718	0.14	-0.137	0.824	-59.9	18.4	170.0
179	57.6	0.144	0.721	0.129	-0.137	0.831	-60.6	18.1	170.9
180	57.1	0.139	0.724	0.118	-0.138	0.838	-61.3	17.9	171.8
181	56.6	0.134	0.727	0.107	-0.138	0.845	-62.0	17.6	172.7
182	56.1	0.129	0.73	0.096	-0.139	0.852	-62.7	17.4	173.6
183	55.6	0.124	0.733	0.085	-0.139	0.859	-63.4	17.1	174.5
184	55.1	0.119	0.736	0.074	-0.14	0.866	-64.1	16.9	175.4
185	54.6	0.114	0.739	0.063	-0.14	0.873	-64.8	16.6	176.3
186	54.1	0.109	0.742	0.052	-0.141	0.88	-65.5	16.4	177.2
187	53.6	0.104	0.745	0.041	-0.141	0.887	-66.2	16.1	178.1
188	53.1	0.099	0.748	0.03	-0.142	0.894	-66.9	15.9	179.0
189	52.6	0.094	0.751	0.019	-0.142	0.901	-67.6	15.6	179.9
190	52.1	0.089	0.754	0.008	-0.143	0.908	-68.3	15.4	180.8
191	51.6	0.084	0.757	0.001	-0.143	0.915	-69.0	15.1	181.7
192	51.1	0.079	0.76	0.001	-0.144	0.922	-69.7	14.9	182.6
193	50.6	0.074	0.763	0.001	-0.144	0.929	-70.4	14.6	183.5
194	50.1	0.069	0.766	0.001	-0.145	0.936	-71.1	14.4	184.4
195	49.6	0.064	0.769	0.001	-0.145	0.943	-71.8	14.1	185.3
196	49.1	0.059	0.772	0.001	-0.146	0.95	-72.5	13.9	186.2
197	48.6	0.054	0.775	0.001	-0.146	0.957	-73.2	13.6	187.1
198	48.1	0.049	0.778	0.001	-0.147	0.964	-73.9	13.4	188.0
199	47.6	0.044	0.781	0.001	-0.147	0.971	-74.6	13.1	188.9
200	47.1	0.039	0.784	0.001	-0.148	0.978	-75.3	12.9	189.8
201	46.6	0.034	0.787	0.001	-0.148	0.985	-76.0	12.6	190.7
202	46.1	0.029	0.79	0.001	-0.149	0.992	-76.7	12.4	191.6
203	45.6	0.024	0.793	0.001	-0.149	0.999	-77.4	12.1	192.5
204	45.1	0.019	0.796	0.001	-0.15	1.006	-78.1	11.9	193.4</

http://130.149.60.45/~farbmetrik/VE48/VE48LONP.PDF /.PS; transfer output

N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 4/5

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technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

rgb^*_{eAB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant E00

$Yxy, abc_{AB}, ABC_{AB}, LabC^*_{ab}, h_{ab}$ data for relative spacing of elementary hue h_{AB} of LYNAB 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 LYNAB, and 90 intended hue angles:

180, 181, ..., 269, LYNAB data of CIE test colours 9 (R): 12.4 11.1 3.3, 10 (Y): 60.0 -0.7 19.6, 11 (G): 7.7 -2.2 2.3, 12 (B): 6.0 -0.1 -7.3

no-AB _{X0}	x	y	a	b	C _{AB} [*]	B	C _{AB} [*]	h _{AB}	L [*]	a [*]	b [*]	C _{ab} [*]	h _{ab}	rgb _{eAB} [*]	Code _{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	100.0	0.33 6168
181	58.2	0.179	0.411	0.435	-0.397	0.564	-32.8	0.1	32.8	179.7	80.8	-101.0	0.3	101.0	0.33 6178
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	100.0	0.36 6198
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	99.0	0.38 6198
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	0.40 6208
185	58.1	0.177	0.392	0.452	-0.437	0.549	-31.8	-2.1	31.9	183.8	80.8	-96.8	-5.0	97.0	0.42 6228
186	58.1	0.177	0.388	0.456	-0.447	0.545	-31.5	-2.7	31.6	184.9	80.8	-95.6	-6.3	96.1	0.44 6228
187	58.0	0.177	0.384	0.461	-0.457	0.542	-31.3	-3.1	31.4	186.0	80.7	-94.8	-7.6	95.1	0.46 6238
188	58.0	0.176	0.379	0.465	-0.467	0.538	-31.0	-3.8	31.2	187.1	80.7	-93.8	-8.8	94.2	0.48 6248
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	0.50 6258
190	58.0	0.176	0.371	0.474	-0.486	0.531	-30.4	-5.0	31.0	189.3	80.7	-91.8	-11.2	92.6	0.52 6268
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	0.53 6268
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	0.55 6278
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	0.57 6288
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	0.59 6298
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	0.61 6308
196	57.9	0.174	0.349	0.5	-0.545	0.52	-28.9	-8.4	30.1	196.1	80.6	-85.9	-18.1	87.8	0.63 6318
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	0.65 6328
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	0.67 6338
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	0.68 6348
200	57.8	0.174	0.335	0.519	-0.585	0.515	-27.7	-10.7	29.7	201.0	80.6	-81.7	-22.5	84.8	0.69 6358
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	0.72 6368
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	-24.5	83.5	0.74 6378
203	57.7	0.173	0.326	0.531	-0.612	0.514	-27.0	-12.2	29.7	204.4	80.6	-79.0	-25.4	82.9	0.76 6388
204	57.7	0.173	0.323	0.536	-0.621	0.514	-26.8	-12.7	29.6	205.4	80.6	-78.1	-26.3	82.4	0.78 6398
205	57.7	0.173	0.321	0.539	-0.629	0.514	-26.5	-13.2	29.6	206.5	80.6	-77.2	-27.1	81.9	0.80 6408
206	57.7	0.173	0.318	0.543	-0.637	0.514	-26.3	-13.6	29.6	207.6	80.5	-76.5	-27.9	81.4	0.82 6418
207	57.6	0.173	0.316	0.547	-0.644	0.514	-26.1	-14.1	29.6	208.7	80.5	-75.7	-28.7	81.0	0.83 6428
208	57.6	0.173	0.314	0.55	-0.652	0.515	-25.9	-14.5	29.7	209.8	80.5	-75.0	-29.4	80.6	0.85 6438
209	57.6	0.173	0.312	0.553	-0.658	0.515	-25.7	-14.9	29.7	210.9	80.5	-74.3	-30.1	80.2	0.87 6448
210	57.5	0.172	0.31	0.556	-0.665	0.516	-25.5	-15.2	29.7	212.0	80.5	-73.7	-30.7	79.8	0.89 6458
211	57.5	0.172	0.308	0.559	-0.671	0.517	-25.3	-15.6	29.7	213.1	80.4	-73.1	-31.3	79.5	0.91 6468
212	57.4	0.172	0.307	0.562	-0.677	0.518	-25.1	-15.9	29.7	214.2	80.4	-72.5	-31.9	79.2	0.93 6478
213	57.4	0.172	0.305	0.564	-0.683	0.519	-24.9	-16.2	29.8	215.3	80.4	-72.0	-32.4	79.0	0.95 6488
214	57.2	0.172	0.302	0.569	-0.696	0.522	-24.6	-16.9	29.9	216.4	80.3	-71.0	-33.6	78.6	0.97 6498
215	56.9	0.171	0.299	0.57	-0.705	0.527	-24.4	-17.4	29.9	217.5	80.1	-70.6	-34.5	78.6	0.99 6508
216	56.1	0.169	0.298	0.568	-0.714	0.533	-24.1	-17.6	29.9	218.6	79.6	-70.6	-35.2	78.9	0.99 6508
217	55.0	0.167	0.295	0.566	-0.725	0.542	-23.8	-17.9	29.8	219.7	79.0	-70.6	-36.0	79.3	0.97 1.00 6518
218	54.2	0.166	0.293	0.566	-0.737	0.549	-23.5	-18.2	29.8	219.7	78.6	-70.4	-36.8	79.9	0.95 1.00 6528
219	53.3	0.164	0.29	0.565	-0.748	0.557	-23.2	-18.6	29.7	220.8	78.1	-70.7	-37.7	79.7	0.93 1.00 6538
220	52.4	0.162	0.288	0.564	-0.762	0.566	-22.8	-19.0	29.7	221.7	77.5	-69.9	-38.6	79.9	0.91 1.00 6548
221	51.5	0.16	0.285	0.563	-0.776	0.576	-22.4	-19.3	29.6	222.7	77.0	-69.9	-39.6	80.1	0.89 1.00 6558
222	50.5	0.159	0.282	0.563	-0.791	0.586	-22.0	-19.7	29.6	223.6	76.4	-69.3	-40.6	80.4	0.87 1.00 6568
223	49.6	0.157	0.279	0.562	-0.806	0.597	-21.7	-20.1	29.6	224.6	75.8	-68.8	-41.6	80.6	0.85 1.00 6578
224	48.7	0.155	0.276	0.561	-0.821	0.608	-21.4	-20.5	29.6	225.6	75.2	-68.7	-42.7	80.9	0.84 1.00 6578
225	47.6	0.153	0.273	0.561	-0.838	0.62	-21.0	-20.9	29.5	226.4	74.6	-68.4	-43.7	81.2	0.82 1.00 6588
226	46.7	0.151	0.27	0.56	-0.855	0.632	-20.5	-21.2	29.5	227.0	74.0	-68.0	-44.7	81.4	0.8 1.00 6598
227	45.7	0.149	0.267	0.56	-0.873	0.645	-20.1	-21.6	29.5	227.7	73.4	-67.6	-45.7	81.6	0.78 1.00 6608
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	-47.0	81.7	0.76 1.00 6618
229	43.7	0.145	0.26	0.563	-0.912	0.673	-18.9	-22.4	29.4	229.1	72.0	-66.4	-48.0	81.9	0.74 1.00 6628
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	0.72 1.00 6638
231	42.2	0.144	0.254	0.566	-0.945	0.696	-18.3	-23.0	29.4	231.5	71.0	-64.6	-49.8	81.6	0.7 1.00 6648
232	41.7	0.143	0.252	0.568	-0.957	0.705	-17.9	-23.2	29.4	232.7	70.6	-64.0	-50.4	81.5	0.68 1.00 6658
233	41.2	0.142	0.25	0.57	-0.967	0.711	-17.7	-23.4	29.3	233.8	70.3	-63.5	-50.9	81.4	0.67 1.00 6668
234	40.7	0.142	0.248	0.571	-0.978	0.719	-17.4	-23.6	29.3	234.9	70.0	-63.0	-51.5	81.4	0.65 1.00 6678
235	40.2	0.141	0.246	0.573	-0.991	0.729	-17.1	-23.8	29.3	234.9	69.6	-62.4	-52.1	81.3	0.63 1.00 6688
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	0.61 1.00 6698
237	38.8	0.139	0.24	0.579	-1.028	0.756	-16.3	-24.4	29.3	236.2	68.6	-60.6	-53.9	81.1	0.59 1.00 6708
238	37.9	0.138	0.237	0.58	-1.052	0.77	-15.9	-24.7	29.3	237.3	68.1	-59.5	-55.0	81.1	0.57 1.00 6718
239	36.9	0.137	0.233	0.589	-1.079	0.794	-15.1	-25.1	29.3	238.6	67.2	-57.8	-56.3	80.9	0.55 1.00 6728
240	36.3	0.136	0.23	0.594	-1.099	0.808	-14.7	-25.3	29.3	239.6	66.7	-56.8	-57.1	80.5	0.53 1.00 6738
241	35.7	0.136	0.227	0.598	-1.117	0.822	-14.3	-25.6	29.3	240.7	66.3	-55.7	-57.9	80.4	0.52 1.00 6738
242	35.1	0.135	0.225	0.603	-1.136	0.836	-13.9	-25.8	29.3	241.6	65.8	-54.7	-58.7	80.2	0.5 1.00 6748
243	34.5	0.135	0.222	0.608	-1.156	0.852	-13.5	-26.1	29.4	242.6	65.3	-53.5	-59.5	80.1	0.48 1.00 6758
244	33.8	0.134	0.219	0.613	-1.178	0.869	-13.0	-26.3	29.4	243.5	64.8	-52.3	-60.4	79.9	0.46 1.00 6768
245	33.2	0.133	0.216	0.619	-1.201	0.887	-12.6	-26.6	29.4	244.5	64.3	-51.1	-61.3	79.8	0.44 1.00 6778
246	32.5	0.133	0.213	0.625	-1.225	0.906	-12.1	-26.8	29.5	245.6	63.8	-49.7	-62.2	79.7	0.42 1.00 6788
247	31.8	0.132	0.21	0.632	-1.251	0.927	-11.7	-27.1	29.5	246.6	63.2	-48.3	-63.1	79.5	0.4 1.00 6798
248	31.1	0.132	0.206	0.639	-1.278	0.949	-11.2	-27.4	29.6	247.6	62.6	-46.9	-64.1	79.4	0.38 1.00 6808
249	30.5	0.131	0.203	0.647	-1.306	0.973	-10.7	-27.7	29.6	248.7	62.1	-45.4	-65.1	79.4	0.36 1.00 6818
250	29.8	0.131	0.2	0.655	-1.336	0.998	-10.2	-27.9	29.7	249.8	61.5	-43.8	-66.1	79.3	0.35 1.00 6828
251	29.1	0.13	0.196	0.664	-1.368	1.024	-9.7	-28.2	29.8	250.8	60.9	-42.2	-67.1	79.3	0.33 1.00 6838
252	28.3	0.129	0.193												

http://130.149.60.45/~farbmetrik/VE48/VE48LONP.PDF /.PS; transfer output

N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 5/5

rgb^*_{eAB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant E00

$Yxy, abc_{\text{AB}}, ABC_{\text{AB}}, LabC^*_{\text{ab}}, h_{\text{ab}}$ data for relative spacing of elementary hue h_{AB} of LYNAB for CIE 2 degree observer

Elementary hue circle with 4 intended elementary hue angles: $h_{\text{AB}} = 16.9, 92.2, 162.4, 268.6$ of LYNAB, and 90 intended hue angles:

270, 271, ..., 360, LYNAB data of CIE test colours 9 (R): 12.4 11.1 3.3, 10 (Y): 60.0 -0.7 19.6, 11 (G): 19.7 -7.2 2.3, 12 (B): 6.0 -0.1 -7.3

270	16.9	0.128	0.127	1.006	-2.331	1.931	0.1	-32.8	32.8	270.2	48.2	0.6	-88.8	88.5	270.4	0.62	0.00	1.00	%	B01R		
271	16.3	0.128	0.123	1.042	-2.412	2.021	0.1	-32.8	33.0	271.2	47.4	0.8	-89.9	90.0	272.4	0.84	0.00	1.00	1.00	%	B02R	
272	15.7	0.129	0.119	1.08	-2.515	2.117	1.2	-33.2	33.2	272.2	46.6	7.0	-91.2	91.3	274.4	0.86	0.00	1.00	1.00	1.00	%	B03R
273	15.0	0.129	0.115	1.122	-2.617	2.22	1.8	-33.4	33.5	273.2	45.7	10.4	-92.6	93.2	276.4	0.88	0.00	1.00	1.00	1.00	%	B04R
274	14.4	0.129	0.111	1.167	-2.726	2.332	2.4	-33.6	33.7	274.2	44.9	13.8	-94.0	94.7	278.4	0.90	0.00	1.00	1.00	1.00	%	B05R
275	13.8	0.13	0.107	1.216	-2.844	2.453	3.0	-33.8	34.0	275.2	44.0	17.4	-95.5	97.1	280.3	0.11	0.00	1.00	1.00	1.00	%	B05R
276	13.2	0.13	0.103	1.27	-2.971	2.585	3.6	-34.0	34.2	276.0	43.1	21.1	-96.9	99.2	282.3	0.13	0.00	1.00	1.00	1.00	%	B06R
277	12.6	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	284.8	0.15	0.00	1.00	1.00	1.00	%	B07R
278	11.6	0.132	0.092	1.436	-3.354	2.986	5.1	-34.4	34.8	278.4	40.7	31.1	-100.8	105.5	287.2	0.17	0.00	1.00	1.00	1.00	%	B08R
279	10.9	0.133	0.087	1.536	-3.579	3.224	5.8	-34.6	35.1	279.2	39.6	36.1	-102.8	108.7	290.0	0.19	0.00	1.00	1.00	1.00	%	B09R
280	10.1	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	0.22	0.00	1.00	1.00	1.00	%	B10R
281	9.4	0.135	0.076	1.769	-4.105	3.784	7.2	-35.0	35.7	281.2	37.1	48.6	-106.8	117.0	294.0	0.22	0.00	1.00	1.00	1.00	%	B11R
282	8.7	0.136	0.071	1.904	-4.407	4.108	7.9	-35.1	36.0	282.2	35.5	53.1	-108.8	121.2	296.0	0.24	0.00	1.00	1.00	1.00	%	B12R
283	8.1	0.137	0.067	2.05	-4.733	4.459	8.5	-35.3	36.3	283.2	34.3	58.5	-110.8	125.3	297.8	0.26	0.00	1.00	1.00	1.00	%	B13R
284	7.5	0.138	0.062	2.205	-5.079	4.832	9.1	-35.4	36.6	284.2	33.5	63.9	-112.7	129.5	299.0	0.28	0.00	1.00	1.00	1.00	%	B14R
285	7.0	0.139	0.058	2.366	-5.437	5.219	9.6	-35.5	36.8	285.1	31.9	68.6	-114.5	133.8	300.0	0.3	0.00	1.00	1.00	1.00	%	B15R
286	6.5	0.140	0.054	2.539	-5.787	5.623	9.9	-35.6	37.0	286.2	28.9	72.5	-119.4	139.5	301.2	0.32	0.00	1.00	1.00	1.00	%	B16R
287	6.0	0.141	0.050	2.724	-6.132	6.048	10.2	-35.7	37.5	287.2	26.5	76.8	-123.7	147.6	303.0	0.33	0.00	1.00	1.00	1.00	%	B17R
288	5.6	0.146	0.048	3.029	-6.682	6.583	11.4	-35.8	37.2	288.9	25.5	85.7	-129.3	146.9	305.7	0.35	0.00	1.00	1.00	1.00	%	B18R
289	5.0	0.145	0.045	3.245	-7.000	7.145	12.0	-35.9	37.8	289.2	24.6	94.6	-131.1	150.0	307.0	0.37	0.00	1.00	1.00	1.00	%	B19R
290	6.4	0.159	0.054	2.953	-5.899	5.513	12.6	-35.0	37.3	289.8	36.6	87.3	-115.6	144.9	309.7	0.39	0.00	1.00	1.00	1.00	%	B20R
291	6.9	0.166	0.057	1.919	-5.44	5.393	13.2	-34.9	37.3	290.8	31.6	88.8	-113.8	143.9	307.7	0.41	0.00	1.00	1.00	1.00	%	B20R
292	7.3	0.173	0.06	2.888	-5.195	5.07	13.9	-34.7	37.3	291.8	32.6	88.8	-112.3	143.0	308.4	0.43	0.00	1.00	1.00	1.00	%	B21R
293	7.8	0.18	0.063	2.858	-4.8	4.777	14.5	-34.4	37.4	292.8	33.6	89.6	-110.8	142.1	309.0	0.44	0.00	1.00	1.00	1.00	%	B22R
294	8.3	0.187	0.066	2.828	-4.523	4.511	15.1	-34.1	37.4	293.8	34.6	90.4	-108.6	140.6	309.6	0.46	0.00	1.00	1.00	1.00	%	B23R
295	8.8	0.193	0.069	2.806	-4.269	4.27	15.9	-34.0	37.5	295.0	35.6	91.2	-106.9	139.8	310.4	0.48	0.00	1.00	1.00	1.00	%	B24R
296	9.3	0.2	0.072	2.782	-4.037	4.051	16.5	-33.8	37.6	296.1	36.5	92.0	-105.2	140.5	311.1	0.5	0.00	1.00	1.00	1.00	%	B25R
297	9.8	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	0.00	1.00	1.00	1.00	%	B26R
298	10.3	0.213	0.078	2.739	-3.63	3.669	17.9	-33.3	37.9	298.8	38.4	93.8	-101.9	138.4	312.5	0.54	0.00	1.00	1.00	1.00	%	B27R
299	10.8	0.22	0.08	2.714	-3.44	3.507	18.6	-33.0	38.0	300.0	39.3	94.8	-100.2	137.2	313.2	0.56	0.00	1.00	1.00	1.00	%	B28R
300	11.4	0.226	0.083	2.702	-3.286	3.351	19.4	-32.9	38.2	300.5	40.2	95.2	-98.8	135.7	313.9	0.57	0.00	1.00	1.00	1.00	%	B29R
301	11.9	0.233	0.086	2.684	-3.134	3.212	20.7	-32.6	38.3	301.6	41.1	95.9	-97.1	136.5	314.6	0.59	0.00	1.00	1.00	1.00	%	B29R
302	12.5	0.239	0.089	2.668	-2.994	3.084	20.8	-32.4	38.5	302.7	42.0	96.7	-95.6	136.0	315.3	0.61	0.00	1.00	1.00	1.00	%	B30R
303	13.0	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	0.00	1.00	1.00	1.00	%	B31R
304	13.5	0.251	0.095	2.638	-2.741	2.86	22.2	-31.8	38.9	304.9	43.6	98.1	-92.6	134.7	316.7	0.65	0.00	1.00	1.00	1.00	%	B32R
305	14.1	0.257	0.097	2.624	-2.632	2.761	23.0	-31.6	39.1	306.0	44.5	98.9	-91.1	134.1	317.3	0.67	0.00	1.00	1.00	1.00	%	B33R
306	14.7	0.262	0.1	2.611	-2.529	2.67	23.8	-31.4	39.4	307.1	45.3	99.6	-89.7	133.4	317.9	0.69	0.00	1.00	1.00	1.00	%	B34R
307	15.3	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	0.00	1.00	1.00	1.00	%	B35R
308	15.9	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	0.00	1.00	1.00	1.00	%	B36R
309	16.5	0.279	0.108	2.575	-2.251	2.437	26.0	-30.6	40.2	310.3	47.6	101.6	-85.6	132.9	319.8	0.74	0.00	1.00	1.00	1.00	%	B37R
310	17.1	0.284	0.11	2.57	-2.168	2.370	26.7	-30.3	40.4	311.4	48.3	102.2	-84.4	132.6	320.4	0.76	0.00	1.00	1.00	1.00	%	B38R
311	17.6	0.289	0.113	2.554	-2.081	2.309	27.4	-30.1	40.7	312.2	49.0	102.9	-83.0	132.2	321.0	0.78	0.00	1.00	1.00	1.00	%	B39R
312	18.2	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	0.00	1.00	1.00	1.00	%	B40R
313	18.8	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	0.00	1.00	1.00	1.00	%	B41R
314	19.3	0.303	0.12	2.524	-1.911	2.147	29.5	-29.4	41.6	315.2	51.1	104.7	-79.3	131.3	322.8	0.83	0.00	1.00	1.00	1.00	%	B42R
315	19.9	0.308	0.122	2.515	-1.859	2.104	30.2	-29.1	42.0	316.1	51.9	105.8	-78.1	131.1	323.3	0.83	0.00	1.00	1.00	1.00	%	B42R
316	20.5	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	0.00	1.00	1.00	1.00	%	B43R
317	21.0	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	0.00	1.00	1.00	1.00	%	B44R
318	21.6	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	0.00	1.00	1.00	1.00	%	B45R
319	22.2	0.324	0.13	2.482	-1.662	1.949	32.9	-28.0	43.2	319.4	54.1	107.1	-73.7	130.1	325.4	0.93	0.00	1.00	1.00	1.00	%	B46R
320	22.7	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	0.00	1.00	1.00	1.00	%	B47R
321	23.2	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	0.00	1.00	1.00	1.00	%	B48R
322	23.8	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	0.00	1.00	1.00	1.00	%	B49R
323	26.2	0.346	0.144	2.389	-1.464	1.714	36.2	-26.3	44.9	324.1	58.2	107.7	-66.6	126.6	328.3	1.00	0.00	0.99	1.00	1.00	%	B50R
324	27.4	0.351	0.149	2.353	-1.337	1.646	37.1	-25.7	45.1	325.												