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Ostwald optimal colours (o) of maximum (m) C _{AB} for E00, Y _w =100, Y _m =520_770, CIELAB data															%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code			%	
1 405	32 564	80.42	-71.93	-32.6	78.97	0.1811	-0.1001	204.3	16 484	38 592	Cm			%	
6 435	33 565	80.69	-86.68	-17.31	88.4	0.1735	-0.0924	191.2	17 488	45 627				%	
10 450	33 566	80.99	-110.3	13.71	111.15	0.1612	-0.0768	172.9	19 498	-1 498c				%	
12 460	33 568	81.45	-119.36	34.48	124.25	0.1568	-0.0665	163.8	21 507	-1 507c				%	
13 465	33 569	81.92	-121.61	45.97	130.01	0.1559	-0.0609	159.2	22 514	-1 514c				%	
14 470	34 571	82.66	-120.77	57.74	133.86	0.1568	-0.0553	154.4	24 522	-1 522c				%	
14 475	35 575	84.24	-115.44	60.46	130.32	0.1605	-0.0544	152.3	25 525	-1 525c	Gm			%	
16 480	36 581	86.11	-105.73	83.03	134.43	0.1664	-0.0442	141.8	27 538	-1 538c				%	
17 485	39 595	90.19	-81.64	98.55	127.97	0.18	-0.0386	129.6	29 549	-1 549c				%	
18 490	-1 490c	97.85	-20.19	119.57	121.26	0.21	-0.0327	99.5	33 568	11 459	max			%	
19 495	-1 495c	97.3	-17.91	125.92	127.19	0.211	-0.0297	98.0	33 568	12 461				%	
19 500	-1 499c	97.3	-17.91	125.92	127.19	0.211	-0.0297	98.0	33 568	12 461				%	
22 510	-1 510c	94.63	-6.64	140.85	141.01	0.216	-0.0218	92.7	34 571	13 469				%	
24 520	-1 520c	91.75	4.59	146.03	146.1	0.2212	-0.0178	88.1	34 574	14 473	Ym			%	
26 530	-1 530c	88.02	17.68	145.85	146.92	0.2277	-0.0145	83.0	35 577	15 477				%	
28 540	-1 540c	83.56	31.64	141.2	144.7	0.2352	-0.0119	77.3	36 581	15 479				%	
29 545	-1 545c	81.07	38.69	137.72	143.05	0.2393	-0.0109	74.3	36 583	16 480				%	
29 550	-1 549c	81.07	38.69	137.72	143.05	0.2393	-0.0109	74.3	36 583	16 480				%	
30 555	-1 554c	78.42	45.65	133.68	141.26	0.2436	-0.0102	71.1	37 585	16 482				%	
32 560	-1 560c	72.66	58.88	124.34	137.58	0.2528	-0.0092	64.6	38 590	16 483				%	
380	770	100.0	0.0	0.0	0.0	0.2191	-0.0837	0.0						%	

Ostwald optimal colours (o) of maximum (m) C _{AB} for E00, Y _w =100, Y _m =770_520, CIELAB complementary															%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code		%		
32 564	1 405	71.27	62.52	98.78	116.91	0.2555	-0.0287	57.6	38 592	16 484	Rm		%		
33 565	6 435	70.93	71.83	28.95	77.45	0.2611	-0.0675	21.9	45 627	17 488			%		
33 566	10 450	70.56	84.55	-14.4	85.77	0.2687	-0.0918	350.3	-1 498c	19 498			%		
33 568	12 460	69.98	90.17	-29.54	94.89	0.2724	-0.1004	341.8	-1 507c	21 507			%		
33 569	13 465	69.37	92.89	-35.98	99.61	0.2744	-0.1042	338.8	-1 514c	22 514			%		
34 571	14 470	68.37	95.44	-41.93	104.24	0.2766	-0.1079	336.2	-1 522c	24 522			%		
35 575	14 475	66.11	99.55	-45.82	109.59	0.2807	-0.1108	335.2	-1 525c	25 525	Mm		%		
36 581	16 480	63.17	102.89	-56.56	117.41	0.2851	-0.1184	331.2	-1 538c	27 538			%		
39 595	17 485	55.38	108.0	-71.77	129.67	0.296	-0.1326	326.3	-1 549c	29 549			%		
-1 490c	18 490	28.02	85.37	-120.26	147.48	0.3177	-0.2165	305.3	11 459	33 568	min		%		
-1 495c	19 495	31.41	71.03	-115.43	135.53	0.2953	-0.2021	301.6	12 461	33 568			%		
-1 499c	19 500	31.41	71.03	-115.43	135.53	0.2953	-0.2021	301.6	12 461	33 568			%		
-1 510c	22 510	43.16	21.12	-96.96	99.24	0.2372	-0.1634	282.2	13 469	34 571			%		
-1 520c	24 520	51.68	-12.26	-82.78	83.68	0.2098	-0.1431	261.5	14 473	34 574	Bm		%		
-1 530c	26 530	59.79	-39.13	-69.07	79.38	0.1928	-0.128	240.4	15 477	35 577			%		
-1 540c	28 540	67.12	-57.58	-56.56	80.72	0.1838	-0.1168	224.4	15 479	36 581			%		
-1 545c	29 545	70.46	-63.67	-50.83	81.48	0.1816	-0.1123	218.6	16 480	36 583			%		
-1 549c	29 550	70.46	-63.67	-50.83	81.48	0.1816	-0.1123	218.6	16 480	36 583			%		
-1 554c	30 555	73.6	-67.81	-45.45	81.64	0.1806	-0.1084	213.8	16 482	37 585			%		
-1 560c	32 560	79.25	-70.77	-35.73	79.28	0.1813	-0.1019	206.7	16 483	38 590			%		
380	770	100.0	0.0	0.0	0.0	0.2191	-0.0837	0.0					%		

Ostwald optimal colours (o) of maximum (m) C _{AB} for E00, Y _{w,10} =100, Y _m =520_770, CIELAB data															%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code			%	
1 405	31 559	79.43	-69.97	-33.95	77.77	0.1818	-0.101	205.8	15 477	37 589	Cm			%	
7 435	32 561	79.66	-92.09	-9.07	92.53	0.1701	-0.0883	185.6	16 484	-1 484c				%	
10 450	32 562	79.85	-108.58	17.48	109.98	0.1615	-0.0748	170.8	18 493	-1 493c				%	
12 460	33 565	80.46	-114.73	39.56	121.36	0.1586	-0.0638	160.9	21 506	-1 506c				%	
13 465	33 568	81.27	-113.49	52.13	124.89	0.1597	-0.0577	155.3	23 515	-1 515c				%	
13 470	34 572	83.3	-106.48	55.62	120.14	0.1645	-0.0565	152.4	24 520	-1 520c				%	
14 475	36 581	86.11	-93.97	71.54	118.1	0.1723	-0.0497	142.7	26 532	-1 532c	Gm			%	
16 480	40 604	91.81	-55.72	101.41	115.71	0.1928	-0.038	118.7	30 551	-1 551c				%	
17 485	-1 485c	96.74	-15.85	118.68	119.73	0.2119	-0.0326	97.6	32 564	11 456				%	
18 490	-1 490c	96.1	-13.14	125.53	126.21	0.2131	-0.0293	95.9	32 564	11 458	max			%	
19 495	-1 495c	95.33	-9.88	131.44	131.81	0.2145	-0.0263	94.3	33 565	12 460				%	
20 500	-1 500c	94.43	-6.08	136.47	136.6	0.2162	-0.0236	92.5	33 566	12 462				%	
22 510	-1 510c	92.16	3.03	143.93	143.96	0.2205	-0.019	88.7	33 569	13 466				%	
23 520	-1 519c	90.77	8.29	146.41	146.64	0.223	-0.0169	86.7	34 570	13 468	Ym			%	
25 530	-1 529c	87.45	19.7	146.61	147.93	0.2287	-0.013	82.3	34 573	14 470				%	
27 540	-1 539c	83.46	31.82	142.58	146.09	0.2353	-0.0092	77.4	35 577	14 473				%	
29 545	-1 545c	78.83	44.02	135.72	142.68	0.2426	-0.0052	72.0	36 582	15 475				%	
29 550	-1 549c	78.83	44.02	135.72	142.68	0.2426	-0.0052	72.0	36 582	15 475				%	
31 555	-1 555c	73.61	55.53	126.92	138.53	0.2505	0.0	66.3	37 587	15 476				%	
32 560	3 415	70.87	63.43	69.32	93.97	0.2562	-0.0449	47.5	39 595	15 478				%	
	380	770	100.0	0.0	0.0	0.0	0.219	-0.0837	0.0					%	

Ostwald optimal colours (o) of maximum (m) C _{AB} for E00, Y _{w,10} =100, Y _m =770_520, CIELAB complementary															%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code			%	
31 559	1 405	72.45	58.84	95.98	112.58	0.2529	-0.0309	58.4	37 589	15 477	Rm			%	
32 561	7 435	72.18	71.63	12.24	72.67	0.2603	-0.077	9.6	-1 484c	16 484				%	
32 562	10 450	71.95	79.98	-16.73	81.72	0.2653	-0.093	348.1	-1 493c	18 493				%	
33 565	12 460	71.21	84.68	-30.98	90.17	0.2684	-0.101	339.9	-1 506c	21 506				%	
33 568	13 465	70.2	86.97	-37.58	94.74	0.2703	-0.1049	336.6	-1 515c	23 515				%	
34 572	13 470	67.48	91.21	-42.27	100.53	0.2746	-0.1083	335.1	-1 520c	24 520				%	
36 581	14 475	63.17	95.86	-53.49	109.78	0.2806	-0.1165	330.8	-1 532c	26 532	Mm			%	
40 604	16 480	51.52	92.9	-78.43	121.58	0.289	-0.1402	319.8	-1 551c	30 551				%	
-1 485c	17 485	34.38	59.2	-109.46	124.44	0.2788	-0.1893	298.4	11 456	32 564				%	
-1 490c	18 490	37.42	46.35	-105.27	115.03	0.2632	-0.1795	293.7	11 458	32 564	min			%	
-1 495c	19 495	40.57	32.86	-100.6	105.83	0.2486	-0.1701	288.0	12 460	33 565				%	
-1 500c	20 500	43.84	19.01	-95.52	97.39	0.2352	-0.1613	281.2	12 462	33 566				%	
-1 510c	22 510	50.61	-8.3	-84.51	84.92	0.2127	-0.1454	264.3	13 466	33 569				%	
-1 519c	23 520	54.06	-21.03	-78.76	81.52	0.2038	-0.1383	255.0	13 468	34 570	Bm			%	
-1 529c	25 530	60.84	-42.55	-67.32	79.65	0.1909	-0.1263	237.7	14 470	34 573				%	
-1 539c	27 540	67.25	-57.63	-56.4	80.64	0.1838	-0.1166	224.3	14 473	35 577				%	
-1 545c	29 545	73.13	-66.12	-46.31	80.73	0.1813	-0.109	215.0	15 475	36 582				%	
-1 549c	29 550	73.13	-66.12	-46.31	80.73	0.1813	-0.109	215.0	15 475	36 582				%	
-1 555c	31 555	78.41	-68.43	-37.22	77.9	0.1822	-0.1029	208.5	15 476	37 587				%	
3 415	32 560	80.74	-72.04	-28.77	77.57	0.1812	-0.0982	201.7	15 478	39 595				%	
	380	770	100.0	0.0	0.0	0.0	0.219	-0.0837	0.0					%	

http://130.149.60.45/~farbmatrik/VE49/VE49LONA.TXT /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 2/5

see similar files: http://130.149.60.45/~farbmatrik/VE49/VE49LONA.TXT /PS
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmatrik

TUB registration: 20130201-VE49/VE49LONA.TXT /PS
application for measurement of display output, no separation

TUB material: code=rha4ta

rgb*_{cab} 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 CIELAB for CIE 2 degree observer
Elementary hue circle with 4 intended elementary hue angles: h_{ab} = 27.9, 91.3, 162.9, 267.6 of CIELAB, and 90 intended hue angles:
000, 001, ..., 089, CIELAB data of CIE test colours 9 (R): 41.9 59.0 31.3, 10 (Y): 81.8 -1.7 73.1, 11 (G): 51.5 -9.4 12.6, 12 (B): 29.4 -1.9 -46.6

no-ab	Y	x	y	a	b	C _{AB}	A	B	C _{AB}	L*	a*	b*	C* _{ab}	h _{ab}	rgb* _{cab}	Code _{ab}	
000	41.7	0.463	0.257	1.8	-0.433	0.881	33.4	-1.3	33.4	357.6	70.6	80.9	-4.0	81.0	357.1	1.00 0.00 0.6	B69R
001	41.7	0.465	0.259	1.795	-0.423	0.796	33.2	-0.9	33.2	358.6	70.7	80.5	-2.8	80.5	357.9	1.00 0.00 0.58	B71R
002	41.7	0.468	0.261	1.79	-0.412	0.791	33.0	-0.5	33.0	359.0	70.7	80.1	-1.5	80.1	358.8	1.00 0.00 0.56	B73R
003	41.7	0.47	0.263	1.785	-0.492	0.785	32.8	-0.1	32.8	359.8	70.7	79.7	-0.3	79.7	359.7	1.00 0.00 0.54	B75R
004	41.8	0.473	0.265	1.78	-0.392	0.781	32.6	0.3	32.6	0.5	70.7	79.3	0.9	79.3	0.7	1.00 0.00 0.51	B77R
005	41.8	0.476	0.268	1.775	-0.381	0.776	32.4	0.7	32.4	1.3	70.7	78.9	2.3	78.9	1.6	1.00 0.00 0.49	B79R
006	41.8	0.478	0.27	1.77	-0.371	0.771	32.2	1.1	32.2	2.1	70.7	78.4	3.6	78.5	2.6	1.00 0.00 0.47	B76R
007	41.8	0.481	0.272	1.765	-0.36	0.767	32.0	1.6	32.0	2.9	70.7	78.0	5.0	78.2	3.6	1.00 0.00 0.45	B77R
008	41.8	0.484	0.274	1.76	-0.35	0.762	31.8	2.0	31.7	3.7	70.7	77.6	6.4	77.9	4.7	1.00 0.00 0.43	B78R
009	41.8	0.486	0.277	1.755	-0.339	0.758	31.6	2.5	31.7	4.5	70.7	77.2	7.8	77.6	5.8	1.00 0.00 0.41	B79R
010	41.9	0.489	0.279	1.75	-0.329	0.754	31.4	2.9	31.6	5.3	70.8	76.8	9.3	77.3	6.9	1.00 0.00 0.38	B80R
011	41.9	0.492	0.282	1.745	-0.319	0.75	31.2	3.3	31.4	6.1	70.8	76.3	10.8	77.1	8.0	1.00 0.00 0.36	B81R
012	41.9	0.495	0.284	1.74	-0.388	0.746	31.0	3.8	31.3	7.0	70.8	75.9	12.3	76.9	9.2	1.00 0.00 0.34	B82R
013	41.9	0.498	0.287	1.735	-0.298	0.742	30.8	4.2	31.1	7.8	70.8	75.5	13.9	76.8	10.4	1.00 0.00 0.32	B83R
014	41.9	0.501	0.289	1.73	-0.288	0.739	30.6	4.6	31.0	8.6	70.8	75.1	15.4	76.7	11.6	1.00 0.00 0.3	B84R
015	41.9	0.504	0.292	1.726	-0.278	0.736	30.4	5.1	30.9	9.5	70.8	74.7	17.0	76.6	12.8	1.00 0.00 0.28	B85R
016	42.0	0.507	0.294	1.721	-0.268	0.733	30.2	5.5	30.7	10.3	70.8	74.2	18.7	76.6	14.1	1.00 0.00 0.25	B87R
017	42.0	0.51	0.297	1.716	-0.257	0.73	30.0	5.9	30.6	11.2	70.8	73.8	20.3	76.6	15.4	1.00 0.00 0.23	B88R
018	42.0	0.513	0.3	1.711	-0.248	0.727	29.8	6.3	30.5	12.0	70.8	73.4	22.0	76.6	16.7	1.00 0.00 0.21	B89R
019	42.0	0.516	0.302	1.706	-0.238	0.724	29.7	6.7	30.4	12.8	70.9	73.0	23.7	76.6	18.0	1.00 0.00 0.19	B90R
020	42.0	0.519	0.305	1.701	-0.227	0.721	29.6	7.2	30.3	13.7	70.9	72.6	25.4	76.6	19.3	1.00 0.00 0.17	B91R
021	42.0	0.523	0.308	1.696	-0.219	0.72	29.3	7.6	30.2	14.5	70.9	72.2	27.2	77.1	20.6	1.00 0.00 0.15	B92R
022	42.0	0.526	0.31	1.692	-0.209	0.718	29.1	8.0	30.2	15.3	70.9	71.8	29.0	77.4	22.0	1.00 0.00 0.12	B93R
023	42.1	0.529	0.313	1.688	-0.199	0.717	28.9	8.4	30.1	16.2	70.9	71.5	30.9	77.9	23.4	1.00 0.00 0.1	B94R
024	42.1	0.533	0.316	1.685	-0.19	0.716	28.8	8.8	30.1	17.0	70.9	71.1	32.9	78.4	24.8	1.00 0.00 0.08	B95R
025	42.1	0.536	0.319	1.681	-0.18	0.715	28.6	9.2	30.1	17.8	70.9	70.7	34.9	78.8	26.2	1.00 0.00 0.06	B96R
026	42.1	0.54	0.321	1.677	-0.171	0.715	28.5	9.6	30.1	18.6	70.9	70.5	36.8	79.6	27.5	1.00 0.00 0.04	B97R
027	42.1	0.543	0.324	1.674	-0.162	0.715	28.4	9.9	30.1	19.3	70.9	70.2	38.8	80.2	28.9	1.00 0.00 0.02	B98R
028	42.1	0.546	0.327	1.67	-0.154	0.714	28.2	10.3	30.1	20.1	70.9	69.9	40.8	81.0	30.2	1.00 0.00 0.0	B99R
029	42.1	0.55	0.329	1.667	-0.145	0.714	28.1	10.7	30.1	20.8	70.9	69.6	42.8	81.7	31.6	1.00 0.00 0.0	R00Y
030	42.1	0.553	0.332	1.664	-0.137	0.713	27.9	11.0	30.0	21.6	70.9	69.3	44.8	82.6	32.9	1.00 0.00 0.0	R01Y
031	42.1	0.556	0.335	1.66	-0.129	0.713	27.8	11.3	30.0	22.2	70.9	69.0	46.9	83.5	34.1	1.00 0.00 0.0	R02Y
032	42.1	0.559	0.337	1.657	-0.122	0.713	27.7	11.7	30.0	22.9	70.9	68.7	48.9	84.4	35.4	1.00 0.00 0.0	R03Y
033	42.1	0.562	0.339	1.654	-0.114	0.713	27.5	12.0	30.0	23.5	70.9	68.4	51.0	85.6	36.6	1.00 0.00 0.0	R04Y
034	42.1	0.565	0.342	1.651	-0.107	0.713	27.4	12.3	30.0	24.2	70.9	68.2	53.0	86.7	37.8	1.00 0.00 0.0	R05Y
035	42.1	0.568	0.344	1.647	-0.101	0.713	27.3	12.6	30.0	24.7	71.0	67.9	55.1	87.4	39.0	1.00 0.11 0.00	R11Y
036	42.2	0.57	0.347	1.644	-0.094	0.713	27.2	12.8	30.0	25.3	71.0	67.6	57.1	88.5	40.2	1.00 0.12 0.00	R12Y
037	42.2	0.573	0.349	1.641	-0.088	0.713	27.0	13.1	30.0	25.8	71.0	67.3	59.2	89.7	41.3	1.00 0.14 0.00	R14Y
038	42.2	0.575	0.351	1.638	-0.082	0.712	26.9	13.3	30.0	26.4	71.0	67.0	61.2	90.8	42.4	1.00 0.15 0.00	R15Y
039	42.2	0.578	0.353	1.635	-0.077	0.712	26.8	13.5	30.0	27.0	71.0	66.7	63.3	91.9	43.5	1.00 0.16 0.00	R16Y
040	42.2	0.58	0.355	1.632	-0.071	0.712	26.7	13.8	30.0	27.4	71.0	66.5	65.3	93.2	44.4	1.00 0.18 0.00	R18Y
041	42.2	0.582	0.357	1.629	-0.066	0.712	26.5	14.0	30.0	27.8	71.0	66.3	67.4	94.5	45.4	1.00 0.2 0.00	R20Y
042	42.2	0.584	0.359	1.626	-0.062	0.711	26.4	14.2	30.0	28.3	71.0	66.0	69.4	95.8	46.4	1.00 0.22 0.00	R22Y
043	42.2	0.586	0.361	1.623	-0.057	0.711	26.3	14.4	30.0	28.7	71.0	65.7	71.4	97.1	47.3	1.00 0.23 0.00	R23Y
044	42.2	0.588	0.363	1.62	-0.053	0.711	26.1	14.6	30.0	29.2	71.0	65.4	73.4	98.4	48.2	1.00 0.24 0.00	R24Y
045	42.3	0.59	0.364	1.617	-0.049	0.711	26.1	14.8	30.0	29.5	71.0	65.2	75.4	99.7	49.1	1.00 0.26 0.00	R26Y
046	42.3	0.591	0.366	1.615	-0.045	0.711	26.0	15.0	30.0	29.9	71.0	65.0	77.4	101.1	49.9	1.00 0.28 0.00	R28Y
047	42.3	0.593	0.368	1.612	-0.041	0.709	25.9	15.1	30.0	30.3	71.1	64.8	79.3	102.4	50.7	1.00 0.3 0.00	R30Y
048	42.3	0.594	0.369	1.609	-0.038	0.708	25.8	15.3	30.0	30.6	71.1	64.5	81.2	103.8	51.5	1.00 0.31 0.00	R31Y
049	42.3	0.596	0.371	1.607	-0.035	0.708	25.7	15.4	30.0	30.9	71.1	64.2	83.1	105.1	52.3	1.00 0.33 0.00	R33Y
050	42.4	0.597	0.372	1.604	-0.032	0.707	25.6	15.5	29.9	31.2	71.1	64.1	85.1	106.5	53.0	1.00 0.34 0.00	R34Y
051	42.4	0.598	0.373	1.602	-0.029	0.706	25.5	15.7	29.9	31.5	71.1	63.9	86.9	107.9	53.6	1.00 0.36 0.00	R36Y
052	42.4	0.599	0.374	1.599	-0.027	0.705	25.4	15.8	29.9	31.8	71.1	63.6	88.8	109.3	54.3	1.00 0.37 0.00	R37Y
053	42.4	0.6	0.375	1.597	-0.025	0.705	25.3	15.9	29.9	32.1	71.1	63.4	90.6	110.6	55.0	1.00 0.39 0.00	R39Y
054	42.4	0.601	0.377	1.594	-0.022	0.704	25.2	16.0	29.9	32.3	71.2	63.2	92.4	112.0	55.6	1.00 0.41 0.00	R41Y
055	42.5	0.602	0.378	1.592	-0.02	0.703	25.1	16.1	29.8	32.6	71.2	63.0	94.2	113.3	56.2	1.00 0.42 0.00	R42Y
056	42.5	0.602	0.379	1.589	-0.018	0.702	25.0	16.2	29.8	32.8	71.2	62.8	95.9	114.7	56.7	1.00 0.44 0.00	R44Y
057	42.5	0.603	0.38	1.587	-0.017	0.701	25.0	16.2	29.8	33.0	71.2	62.6	97.6	116.0	57.3	1.00 0.45 0.00	R45Y
058	42.5	0.604	0.381	1.585	-0.014	0.701	24.9	16.4	29.8	33.3	71.2	62.4	99.3	117.3	57.9	1.00 0.47 0.00	R47Y
059	42.7	0.606	0.384	1.578	-0.01	0.697	24.6	16.6	29.7	33.9	71.3	61.8	106.2	122.9	59.7	1.00 0.48 0.00	R48Y
060	42.8	0.608	0.385	1.572	-0.007	0.694	24.5	16.8	29.7	34.4	71.4	61.4	110.8	126.7	61.0	1.00 0.5 0.00	R50Y
061	43.0	0.607	0.387	1.567													

http://130.149.60.45/~farbmatrik/VE49/VE49L0NA.TXT /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 3/5

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TUB registration: 20130201-VE49/VE49L0NA.TXT /PS
application for measurement of display output, no separation
TUB material: code=rha4ta

rgb*_{cab} 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 CIELAB for CIE 2 degree observer

Elementary hue circle with 4 intended elementary hue angles: **h_{ab}** = 27.9, 91.3, 162.9, 267.6 of CIELAB, and 90 intended hue angles:

090, 091, ..., 179, CIELAB data of CIE test colours 9 (R): 41.9 59.0 31.3, 10 (Y): 81.8 -1.7 73.1, 11 (G): 51.5 -9.4 12.6, 12 (B): 29.4 -1.9 -46.6

no.	ab _Y	x	y	a	b	C _{AB}	A	B	C _{AB}	h _{AB}	L*	a*	b*	C* _{ab}	h _{ab}	rgb* _{cab}	Code _{ab}	no.		
090	82.9	0.496	0.497	0.999	-0.084	0.395	0.0	32.7	32.7	99.0	92.9	0.0	0.0	144.8	144.8	99.0	1.00	0.97	0.00	% R97Y
091	84.3	0.492	0.5	0.984	-0.085	0.396	0.8	33.2	33.2	98.4	93.7	0.0	0.0	142.1	142.1	98.4	0.99	0.98	0.00	% R98Y
092	85.7	0.488	0.503	0.969	-0.086	0.394	-2.6	33.7	33.8	94.4	94.2	-4.9	142.1	142.2	91.9	0.99	1.00	0.00	% Y00G	
093	87.1	0.483	0.506	0.954	-0.087	0.395	-3.9	34.2	34.4	96.6	94.8	-7.3	140.0	140.2	93.0	0.97	1.00	0.00	% Y02G	
094	88.5	0.478	0.509	0.94	-0.089	0.395	-5.3	34.5	34.9	98.6	95.3	-9.7	137.2	137.3	94.0	0.96	1.00	0.00	% Y03G	
095	89.8	0.474	0.511	0.926	-0.011	0.395	-6.5	34.9	35.5	100.0	96.9	-12.1	134.2	134.7	95.1	0.94	1.00	0.00	% Y04G	
096	91.9	0.469	0.513	0.914	-0.013	0.396	-7.8	35.2	36.0	102.4	96.8	-14.2	131.3	132.0	96.1	0.93	1.00	0.00	% Y05G	
097	92.1	0.465	0.514	0.903	-0.015	0.396	-8.8	35.4	36.5	104.0	96.8	-16.1	128.5	129.5	97.1	0.92	1.00	0.00	% Y06G	
098	93.1	0.461	0.515	0.894	-0.017	0.396	-9.8	35.6	36.9	105.4	97.2	-17.7	126.1	127.3	98.0	0.9	1.00	0.00	% Y07G	
099	95.2	0.463	0.509	0.899	-0.02	0.39	-8.6	36.1	37.1	103.4	98.1	-15.3	123.3	124.3	97.1	0.89	1.00	0.00	% Y08G	
100	94.3	0.452	0.516	0.877	-0.024	0.398	-11.5	35.4	37.3	108.0	97.7	-20.8	119.3	121.1	99.9	0.87	1.00	0.00	% Y12G	
101	93.8	0.45	0.518	0.868	-0.024	0.398	-12.3	35.2	37.3	109.3	97.5	-22.5	118.7	120.0	100.7	0.86	1.00	0.00	% Y13G	
102	93.3	0.447	0.52	0.858	-0.024	0.401	-13.2	35.0	37.4	110.6	97.3	-24.2	118.1	120.6	101.5	0.85	1.00	0.00	% Y14G	
103	92.8	0.443	0.523	0.848	-0.025	0.404	-14.0	34.8	37.5	112.0	97.1	-25.9	117.5	120.3	102.4	0.83	1.00	0.00	% Y16G	
104	92.3	0.44	0.525	0.838	-0.025	0.408	-14.9	34.5	37.6	113.3	96.9	-27.8	116.9	120.8	103.3	0.82	1.00	0.00	% Y17G	
105	91.7	0.437	0.528	0.827	-0.025	0.411	-15.8	34.3	37.8	114.7	96.7	-29.6	116.2	120.0	104.3	0.8	1.00	0.00	% Y19G	
106	91.2	0.433	0.531	0.816	-0.026	0.416	-16.7	34.0	37.9	116.1	96.5	-31.6	115.6	119.8	105.2	0.79	1.00	0.00	% Y20G	
107	90.6	0.43	0.533	0.805	-0.026	0.42	-17.5	33.8	38.1	117.4	96.2	-33.5	114.9	119.7	106.2	0.78	1.00	0.00	% Y21G	
108	90.0	0.426	0.536	0.794	-0.027	0.425	-18.4	33.5	38.3	118.0	96.0	-35.5	114.2	119.7	107.2	0.76	1.00	0.00	% Y23G	
109	89.4	0.422	0.539	0.783	-0.027	0.43	-19.3	33.3	38.5	120.1	95.7	-37.6	113.6	119.6	108.3	0.75	1.00	0.00	% Y24G	
110	88.9	0.419	0.542	0.772	-0.028	0.436	-20.2	33.1	38.7	121.4	95.5	-39.6	112.9	119.6	109.3	0.74	1.00	0.00	% Y25G	
111	88.2	0.415	0.545	0.76	-0.028	0.441	-21.1	32.7	38.9	122.7	95.2	-41.7	112.2	119.7	110.4	0.72	1.00	0.00	% Y27G	
112	87.6	0.411	0.548	0.749	-0.029	0.447	-21.9	32.5	39.2	124.0	95.0	-43.9	111.5	119.8	111.4	0.71	1.00	0.00	% Y28G	
113	87.0	0.407	0.552	0.737	-0.029	0.454	-22.8	32.2	39.5	125.3	94.7	-46.0	110.8	119.9	112.5	0.69	1.00	0.00	% Y30G	
114	86.3	0.403	0.555	0.725	-0.03	0.46	-23.6	31.9	39.7	126.5	94.4	-48.2	110.0	120.1	113.6	0.68	1.00	0.00	% Y31G	
115	85.7	0.398	0.558	0.714	-0.031	0.467	-24.5	31.6	39.9	127.7	94.2	-50.4	109.3	120.4	114.7	0.67	1.00	0.00	% Y32G	
116	85.1	0.394	0.561	0.702	-0.031	0.473	-25.3	31.3	40.3	128.8	93.9	-52.5	108.6	120.6	115.8	0.65	1.00	0.00	% Y34G	
117	84.4	0.39	0.564	0.691	-0.031	0.48	-26.1	31.1	40.6	129.9	93.6	-54.7	107.8	120.9	116.9	0.64	1.00	0.00	% Y35G	
118	83.8	0.386	0.568	0.679	-0.032	0.487	-26.8	30.8	40.9	131.0	93.3	-56.9	107.1	121.3	118.0	0.62	1.00	0.00	% Y37G	
119	83.1	0.381	0.571	0.667	-0.032	0.495	-27.6	30.5	41.1	132.1	93.1	-59.1	106.4	121.7	119.0	0.61	1.00	0.00	% Y38G	
120	82.5	0.377	0.574	0.656	-0.033	0.502	-28.3	30.2	41.4	133.1	92.8	-61.3	105.6	122.1	120.1	0.6	1.00	0.00	% Y39G	
121	81.9	0.372	0.577	0.645	-0.033	0.509	-29.0	29.9	41.7	134.0	92.5	-63.5	104.9	122.6	121.2	0.58	1.00	0.00	% Y41G	
122	81.3	0.368	0.581	0.634	-0.034	0.517	-29.7	29.7	42.0	135.0	92.2	-65.7	104.1	123.1	122.2	0.57	1.00	0.00	% Y42G	
123	80.6	0.364	0.584	0.623	-0.035	0.524	-30.4	29.4	42.3	135.9	91.9	-67.9	103.4	123.7	123.2	0.55	1.00	0.00	% Y44G	
124	80.0	0.36	0.587	0.612	-0.035	0.532	-31.1	29.1	42.5	136.8	91.6	-70.1	102.6	124.3	124.3	0.54	1.00	0.00	% Y45G	
125	79.4	0.355	0.59	0.601	-0.036	0.539	-31.6	28.8	42.8	137.6	91.4	-72.1	101.9	124.9	125.2	0.53	1.00	0.00	% Y46G	
126	78.8	0.351	0.593	0.591	-0.036	0.546	-32.2	28.6	43.1	138.4	91.1	-74.2	101.2	125.5	126.2	0.51	1.00	0.00	% Y48G	
127	78.2	0.346	0.597	0.58	-0.037	0.554	-32.8	28.3	43.3	139.1	90.8	-76.3	100.4	126.1	127.2	0.5	1.00	0.00	% Y49G	
128	77.6	0.342	0.6	0.57	-0.038	0.561	-33.3	28.0	43.5	139.8	90.6	-78.3	99.7	126.8	128.1	0.48	1.00	0.00	% Y51G	
129	77.0	0.338	0.603	0.559	-0.039	0.569	-33.9	27.8	43.8	140.5	90.3	-80.3	99.0	127.3	129.0	0.47	1.00	0.00	% Y52G	
130	76.3	0.333	0.606	0.549	-0.039	0.577	-34.4	27.5	44.0	141.3	90.0	-82.3	98.0	128.3	130.1	0.46	1.00	0.00	% Y53G	
131	75.4	0.326	0.61	0.534	-0.041	0.587	-35.1	27.0	44.3	142.3	89.5	-84.5	96.7	129.3	131.5	0.44	1.00	0.00	% Y55G	
132	74.5	0.32	0.614	0.521	-0.042	0.597	-35.6	26.6	44.5	143.2	89.1	-86.4	95.5	130.2	132.0	0.43	1.00	0.00	% Y56G	
133	73.6	0.314	0.617	0.509	-0.043	0.606	-36.1	26.2	44.6	144.0	88.7	-88.4	94.2	131.0	133.9	0.41	1.00	0.00	% Y58G	
134	72.8	0.309	0.62	0.497	-0.044	0.615	-36.6	25.8	44.8	144.8	88.3	-90.3	93.0	131.8	135.9	0.4	1.00	0.00	% Y59G	
135	72.1	0.304	0.623	0.487	-0.044	0.622	-36.9	25.5	44.9	145.5	88.0	-92.4	91.8	132.4	136.1	0.39	1.00	0.00	% Y60G	
136	71.4	0.299	0.625	0.478	-0.045	0.629	-37.2	25.1	44.9	145.9	87.7	-93.7	90.5	133.0	137.0	0.37	1.00	0.00	% Y62G	
137	70.8	0.294	0.627	0.47	-0.046	0.635	-37.5	24.8	44.9	146.5	87.3	-95.1	89.3	133.4	137.9	0.36	1.00	0.00	% Y63G	
138	70.2	0.29	0.628	0.462	-0.046	0.64	-37.7	24.4	44.9	147.0	87.1	-96.7	88.0	133.8	138.8	0.34	1.00	0.00	% Y65G	
139	69.6	0.285	0.629	0.451	-0.047	0.645	-37.9	24.1	44.9	147.5	86.8	-97.8	86.8	134.3	139.8	0.33	1.00	0.00	% Y66G	
140	69.1	0.282	0.63	0.448	-0.047	0.65	-38.0	23.8	44.9	147.9	86.5	-98.5	85.5	134.3	140.4	0.32	1.00	0.00	% Y67G	
141	68.6	0.279	0.63	0.443	-0.047	0.654	-38.2	23.5	44.8	148.3	86.3	-99.4	84.2	134.4	141.2	0.3	1.00	0.00	% Y69G	
142	68.1	0.275	0.63	0.437	-0.048	0.657	-38.3	23.2	44.8	148.8	86.0	-100.5	82.9	134.4	142.0	0.29	1.00	0.00	% Y70G	
143	67.6	0.271	0.638	0.431	-0.048	0.66	-38.4	22.7	44.7	149.3	85.8	-101.7	81.7	134.3	143.1	0.27	1.00	0.00	% Y72G	
144	67.1	0.268	0.626	0.425	-0.049	0.663	-38.6	22.3	44.6	149.8	85.6	-102.8	80.5	134.3	144.3	0.26	1.00	0.00	% Y73G	
145	66.8	0.262	0.624	0.42	-0.049	0.665	-38.7	21.8	44.4	150.5	85.4	-103.9	79.5	134.3	145.3	0.25	1.00	0.00	% Y74G	
146	66.4	0.258	0.621	0.415	-0.049	0.667	-38.8	21.4	44.3	151.1	85.2	-104.9	78.4	134.3	146.4	0.23	1.00	0.00	% Y76G	
147	66.0	0.254	0.618	0.411	-0.049	0.668	-38.9	20.9	44.2	151.6	85.0	-105.9	77.3	134.3	147.4	0.22	1.00	0.00	% Y77G	
148	65.6	0.25	0.615	0.407	-0.049	0.669	-39.0	20.5	44.1	152.1	84.8	-106.9	76.2	134.3	148.4	0.21	1.00	0.00	% Y78G	
149	65.4	0.246	0.611	0.403	-0.049	0.67	-39.0	20.0	43.9	152.7	84.7	-107.8	75.1	134.3	149.4	0.19	1.00	0.00	% Y80G	
150	65.1	0.243	0.607	0.4	-0.049	0.671	-39.0	19.6	43.7	153.2										

http://130.149.60.45/~farbmatrik/VE49/VE49L0NA.TXT /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 5/5

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TUB registration: 20130201-VE49/VE49L0NA.TXT /PS
application for measurement of display output, no separation
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rgb*_{cab} 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 CIELAB for CIE 2 degree observer

Elementary hue circle with 4 intended elementary hue angles: **h_{ab}** = 27.9, 91.3, 162.9, 267.6 of CIELAB, and 90 intended hue angles:

270, 271, ..., 360, CIELAB data of CIE test colours 9 (R): 41.9 59.0 31.3, 10 (Y): 81.8 -1.7 73.1, 11 (G): 51.5 -9.4 12.6, 12 (B): 29.4 -1.9 -46.6

no-ab _Y	x	y	a	b	C _{AB}	A	B	C _{AB}	h _{AB}	L*	a*	b*	C* _{ab}	h _{ab}	rgb* _{cab}	Code _{ab}
270	17.1	0.128	0.128	0.999	-2.312	1.912	0.0	-32.7	32.7	269.9	48.4	0.0	-88.2	88.2	269.9	0.03 0.00 1.00 % B01R
271	16.8	0.128	0.126	1.016	-2.355	1.955	0.2	-32.8	32.8	270.4	48.0	1.5	-88.9	88.9	270.9	0.05 0.00 1.00 % B02R
272	16.5	0.128	0.124	1.034	-2.399	1.999	0.5	-32.9	32.9	270.9	47.6	3.1	-89.6	89.6	271.9	0.07 0.00 1.00 % B03R
273	16.1	0.128	0.122	1.052	-2.445	2.046	0.8	-33.1	33.1	271.4	47.2	4.7	-90.3	90.4	272.9	0.08 0.00 1.00 % B04R
274	15.8	0.129	0.121	1.071	-2.493	2.094	1.1	-33.2	33.2	271.9	46.8	6.3	-90.9	91.2	273.9	0.11 0.00 1.00 % B05R
275	15.5	0.129	0.118	1.090	-2.541	2.147	1.4	-33.3	33.3	272.4	46.3	8.0	-91.6	92.0	274.9	0.13 0.00 1.00 % B06R
276	15.2	0.129	0.116	1.112	-2.593	2.196	1.7	-33.4	33.4	272.9	45.9	9.7	-92.3	92.8	275.9	0.13 0.00 1.00 % B07R
277	14.9	0.129	0.114	1.134	-2.646	2.251	2.0	-33.5	33.5	273.4	45.5	11.4	-93.0	93.7	276.9	0.15 0.00 1.00 % B08R
278	14.6	0.129	0.112	1.157	-2.702	2.307	2.3	-33.6	33.6	273.9	45.1	13.1	-93.8	94.4	278.0	0.17 0.00 1.00 % B09R
279	14.2	0.13	0.11	1.181	-2.76	2.367	2.6	-33.7	33.8	274.4	44.6	14.9	-94.5	95.7	279.0	0.18 0.00 1.00 % B09R
280	13.9	0.13	0.108	1.204	-2.818	2.422	2.9	-33.8	33.8	274.9	44.1	16.6	-95.2	96.4	280.0	0.19 0.00 1.00 % B10R
281	13.6	0.13	0.105	1.233	-2.883	2.494	3.1	-33.9	34.1	275.3	43.7	18.6	-95.9	97.7	281.0	0.22 0.00 1.00 % B11R
282	13.3	0.13	0.103	1.261	-2.949	2.562	3.4	-34.0	34.2	275.8	43.2	20.5	-96.7	98.9	282.0	0.23 0.00 1.00 % B11R
283	12.9	0.131	0.101	1.299	-3.037	2.654	3.8	-34.1	34.3	276.4	42.6	23.0	-97.7	100.3	283.2	0.25 0.00 1.00 % B12R
284	12.5	0.131	0.098	1.343	-3.138	2.759	4.2	-34.2	34.3	277.1	42.2	25.8	-98.7	102.8	284.6	0.27 0.00 1.00 % B13R
285	12.2	0.132	0.097	1.387	-3.249	2.872	4.6	-34.3	34.4	277.8	41.7	28.3	-99.7	105.9	285.9	0.29 0.00 1.00 % B14R
286	11.6	0.132	0.092	1.438	-3.356	2.988	5.1	-34.5	34.8	278.4	40.8	31.4	-100.8	105.6	287.3	0.3 0.00 1.00 % B15R
287	11.2	0.133	0.089	1.489	-3.473	3.112	5.5	-34.6	35.0	279.0	40.0	34.3	-101.9	105.7	288.6	0.32 0.00 1.00 % B16R
288	10.8	0.133	0.086	1.543	-3.595	3.241	5.9	-34.7	35.2	279.6	39.3	37.1	-103.0	109.4	289.8	0.33 0.00 1.00 % B16R
289	10.4	0.134	0.083	1.604	-3.727	3.372	6.2	-34.8	35.4	280.2	38.5	39.9	-104.2	112.9	290.9	0.35 0.00 1.00 % B17R
290	10.1	0.134	0.081	1.658	-3.856	3.518	6.6	-34.9	35.5	280.9	38.0	42.7	-105.0	113.4	292.0	0.36 0.00 1.00 % B18R
291	9.7	0.135	0.078	1.719	-3.994	3.665	7.0	-35.0	35.6	281.3	37.3	45.5	-106.1	115.4	293.2	0.38 0.00 1.00 % B19R
292	9.3	0.135	0.076	1.782	-4.136	3.817	7.3	-35.0	35.8	281.8	36.7	48.3	-107.1	117.5	294.2	0.4 0.00 1.00 % B20R
293	9.0	0.136	0.073	1.848	-4.282	3.974	7.6	-35.1	35.9	282.3	36.0	51.0	-108.1	119.5	295.2	0.42 0.00 1.00 % B21R
294	8.7	0.136	0.071	1.915	-4.432	4.135	7.9	-35.2	36.1	282.7	35.3	53.8	-109.1	121.5	296.1	0.43 0.00 1.00 % B22R
295	8.4	0.137	0.069	1.987	-4.586	4.298	8.2	-35.3	36.2	283.2	34.6	56.5	-110.0	123.5	297.0	0.45 0.00 1.00 % B23R
296	8.1	0.137	0.067	2.053	-4.741	4.467	8.5	-35.3	36.3	283.6	34.2	58.7	-110.9	125.5	297.8	0.47 0.00 1.00 % B23R
297	7.8	0.138	0.065	2.124	-4.899	4.637	8.8	-35.4	36.4	284.0	33.7	61.1	-111.8	127.4	298.6	0.48 0.00 1.00 % B24R
298	7.6	0.138	0.063	2.195	-5.057	4.808	9.1	-35.4	36.6	284.4	33.1	63.6	-112.7	129.3	299.4	0.5 0.00 1.00 % B25R
299	7.3	0.139	0.061	2.269	-5.217	4.979	9.3	-35.5	36.7	284.8	32.5	66.0	-113.6	131.2	300.2	0.51 0.00 1.00 % B26R
300	7.0	0.139	0.059	2.336	-5.377	5.147	9.5	-35.5	36.8	285.2	32.1	67.8	-114.2	132.9	300.9	0.53 0.00 1.00 % B26R
301	6.9	0.139	0.058	2.406	-5.523	5.312	9.7	-35.5	36.8	285.3	31.6	69.8	-115.0	134.5	301.2	0.55 0.00 1.00 % B27R
302	6.4	0.137	0.054	2.504	-5.895	5.697	9.7	-35.6	37.0	285.3	30.6	71.9	-116.7	137.1	301.6	0.57 0.00 1.00 % B28R
303	5.7	0.131	0.049	2.679	-6.163	6.474	9.6	-35.8	37.1	285.6	28.7	74.9	-119.7	141.3	302.0	0.58 0.00 1.00 % B29R
304	5.2	0.131	0.046	2.777	-6.537	6.859	9.4	-35.9	37.2	285.7	27.7	77.9	-121.2	145.5	302.4	0.59 0.00 1.00 % B30R
305	5.2	0.137	0.045	2.815	-6.745	7.04	10.6	-35.7	37.2	286.6	27.5	83.4	-122.1	147.1	304.5	0.62 0.00 1.00 % B31R
306	5.7	0.147	0.048	3.032	-6.614	6.538	11.5	-35.4	37.2	288.1	28.6	86.1	-119.7	147.0	305.8	0.63 0.00 1.00 % B32R
307	6.1	0.154	0.051	3.005	-6.166	6.104	12.2	-35.2	37.3	289.1	29.6	87.2	-117.2	146.2	306.6	0.65 0.00 1.00 % B33R
308	6.5	0.162	0.054	2.977	-5.734	5.689	12.7	-35.0	37.3	289.3	30.8	88.8	-115.3	145.3	307.4	0.67 0.00 1.00 % B33R
309	6.7	0.17	0.057	2.949	-5.302	5.274	13.2	-34.9	37.4	289.4	31.9	89.9	-113.2	144.4	308.2	0.68 0.00 1.00 % B34R
310	7.6	0.179	0.061	2.917	-4.936	4.925	14.6	-34.5	37.5	292.9	33.1	98.4	-111.1	143.5	309.2	0.7 0.00 1.00 % B35R
311	8.2	0.188	0.065	2.886	-4.573	4.579	15.4	-34.2	37.6	294.3	34.4	92.1	-108.9	142.6	310.2	0.72 0.00 1.00 % B36R
312	8.8	0.197	0.069	2.854	-4.234	4.259	16.4	-33.9	37.7	295.8	35.7	93.3	-106.6	141.6	311.1	0.73 0.00 1.00 % B36R
313	9.5	0.207	0.073	2.823	-3.921	3.965	17.4	-33.6	37.7	297.3	37.0	94.4	-104.2	140.7	312.1	0.75 0.00 1.00 % B37R
314	10.2	0.217	0.077	2.792	-3.608	3.684	18.4	-33.3	37.8	298.8	38.3	94.4	-101.8	139.8	313.0	0.76 0.00 1.00 % B38R
315	11.1	0.226	0.082	2.761	-3.366	3.449	19.5	-32.9	38.3	300.7	39.7	96.8	-99.4	138.8	314.2	0.78 0.00 1.00 % B39R
316	11.9	0.236	0.086	2.731	-3.122	3.226	20.7	-32.6	38.6	302.4	41.1	98.0	-96.9	137.8	315.3	0.8 0.00 1.00 % B40R
317	12.8	0.246	0.091	2.701	-2.9	3.024	21.3	-32.2	38.9	304.2	42.5	99.1	-94.4	136.9	316.3	0.82 0.00 1.00 % B41R
318	13.8	0.256	0.096	2.672	-2.697	2.841	23.1	-31.7	39.3	306.9	43.9	100.2	-91.9	136.0	317.4	0.83 0.00 1.00 % B41R
319	14.6	0.266	0.1	2.643	-2.512	2.647	24.6	-31.3	39.6	309.4	45.3	101.2	-89.4	135.1	318.4	0.84 0.00 1.00 % B42R
320	15.8	0.276	0.105	2.617	-2.344	2.529	25.6	-30.8	40.1	309.7	46.8	102.2	-86.9	134.3	319.6	0.87 0.00 1.00 % B43R
321	16.9	0.285	0.11	2.591	-2.192	2.396	27.7	-30.4	40.6	311.5	48.2	103.4	-84.4	133.5	320.7	0.88 0.00 1.00 % B44R
322	18.0	0.294	0.114	2.566	-2.056	2.277	28.3	-29.9	41.2	313.4	49.3	104.3	-82.0	132.3	321.8	0.9 0.00 1.00 % B45R
323	20.2	0.303	0.119	2.541	-1.903	2.171	29.9	-29.4	41.7	315.2	50.6	105.2	-79.6	131.1	322.9	0.92 0.00 1.00 % B46R
324	22.8	0.312	0.124	2.516	-1.753	2.052	31.5	-28.8	42.2	317.0	51.8	106.1	-77.1	130.0	323.9	0.94 0.00 1.00 % B47R
325	21.6	0.32	0.128	2.495	-1.713	1.99	32.3	-28.3	43.0	318.7	53.6	106.9	-74.9	130.5	324.9	0.95 0.00 1.00 % B47R
326	22.8	0.328	0.132	2.474	-1.621	1.914	33.6	-27.8	43.6	320.3	54.8	107.7	-72.6	129.9	326.0	0.97 0.00 1.00 % B48R
327	25.0	0.341	0.14	2.424	-1.472	1.783	35.7	-26.8	44.7	323.0	57.1	108.2	-68.8	128.1	327.6	0.98 0.00 1.00 % B49R
328	27.3	0.352	0.149	2.375	-1.324	1.654	37.9	-25.8	45.4	325.7	59.4	108.7	-64.4	126.3	328.9	0.99 0.00 1.00 % B50R
329	29.3	0.359	0.155	2.307	-1.246	1.557	38.7	-24.8	45.7	327.0	61.0	106.7	-61.2	123.1	330.1	1.00 0.00 0.98 % B50R
330	30.7	0.363	0.16	2.257	-1.184	1.481	38.5	-24.0	45.4	328.0	62.2	105.1	-58.8	120.9	330.7	1.00 0.00 0.96 % B51R
331	31.6	0.365	0.164	2.212	-1.139	1.42	38.3	-23.3	44.9	328.6	63.0	103.2	-56.9	119.7	331.1	1.00 0.00 0.94 % B52R
332	32.7	0.37	0.17	2.178	-1.078	1.359	38.6	-22.2	44.5	329.3	63.9	102.1	-54.0	115.5	332.1	1.00 0.00 0.93 % B53R
333	33.7	0.375	0.175	2.137	-1.027	1.299	38.9	-21.1	44.2	330.0	64.8	101.0	-51.1	111.3	333.1	1.00 0.00 0.91 % B54R
334	34.6	0.382	0.179	2.128	-0.975	1.266	39.0	-19.9	43.8	333.0	65.4	100.0	-48.5	111.0	334.2	1.00 0.00 0.89 % B55R
335	35.3	0.386	0.183	2.108	-0.9											