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TUB registration: 20130201-VE42/VE42L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, 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			%	
0 405	32 561	80.85	-67.55	-32.54	74.98	0.1805	-0.1029	205.7	16 483	37 589	Cm			%	
6 435	32 562	81.18	-81.89	-19.25	84.12	0.1732	-0.096	193.2	17 486	42 610				%	
10 450	32 563	81.52	-109.06	11.43	109.66	0.1595	-0.0803	174.0	19 496	-1 496c				%	
12 460	33 565	82.01	-120.74	33.26	125.23	0.1538	-0.0692	164.5	21 505	-1 505c				%	
12 465	33 567	82.73	-118.76	34.5	123.67	0.1552	-0.0687	163.8	21 506	-1 506c				%	
14 470	33 569	83.3	-123.47	57.53	136.22	0.1532	-0.0572	155.0	24 520	-1 520c				%	
15 475	34 573	84.63	-118.73	70.39	138.03	0.1564	-0.0512	149.3	25 528	-1 528c	Gm			%	
16 480	36 580	86.98	-107.21	84.2	136.33	0.1633	-0.0452	141.8	27 537	-1 537c				%	
17 485	39 595	91.12	-80.53	100.07	128.45	0.1778	-0.0394	128.8	29 548	-1 548c				%	
18 490	-1 490c	97.55	-23.15	119.05	121.28	0.2052	-0.0337	101.0	33 565	11 459	max			%	
19 495	-1 495c	96.94	-20.63	125.42	127.1	0.2062	-0.0306	99.3	33 566	12 462				%	
20 500	-1 500c	96.17	-17.33	131.15	132.29	0.2076	-0.0277	97.5	33 567	12 464				%	
22 510	-1 510c	94.0	-8.24	140.17	140.41	0.2116	-0.0224	93.3	33 569	13 469				%	
23 520	-1 519c	92.57	-2.53	142.99	143.01	0.2142	-0.0202	91.0	34 570	14 471	Ym			%	
25 530	-1 529c	88.94	10.79	144.39	144.79	0.2205	-0.0165	85.7	34 573	15 475				%	
27 540	-1 539c	84.43	25.54	141.4	143.69	0.2281	-0.0134	79.7	35 577	15 478				%	
28 545	-1 544c	81.91	33.05	138.34	142.24	0.2322	-0.0121	76.5	35 579	15 479				%	
29 550	-1 549c	79.2	40.58	134.51	140.5	0.2367	-0.0111	73.2	36 582	16 480				%	
30 555	-1 554c	76.32	47.96	130.1	138.66	0.2413	-0.0103	69.7	36 584	16 481				%	
32 560	-1 560c	70.18	61.63	120.13	135.02	0.2511	-0.0093	62.8	37 589	16 483				%	
380	770	100.0	0.0	0.0	0.0	0.2154	-0.0861	0.0						%	

Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, 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		%		
32 561	0 405	70.73	60.88	110.08	125.79	0.2505	-0.022	61.0	37 589	16 483	Rm		%		
32 562	6 435	70.32	70.58	34.83	78.71	0.2562	-0.0659	26.2	42 610	17 486			%		
32 563	10 450	69.88	85.85	-12.65	86.78	0.2653	-0.0935	351.6	-1 496c	19 496			%		
33 565	12 460	69.24	92.89	-29.55	97.48	0.2698	-0.1035	342.3	-1 505c	21 505			%		
33 567	12 465	68.27	94.84	-31.22	99.85	0.2716	-0.1046	341.7	-1 506c	21 506			%		
33 569	14 470	67.49	99.24	-42.98	108.15	0.2748	-0.1119	336.5	-1 520c	24 520			%		
34 573	15 475	65.52	102.87	-49.85	114.31	0.2784	-0.1167	334.1	-1 528c	25 528	Mm		%		
36 580	16 480	61.69	107.96	-59.02	123.05	0.2848	-0.1241	331.3	-1 537c	27 537			%		
39 595	17 485	53.22	112.99	-75.47	135.88	0.297	-0.1406	326.2	-1 548c	29 548			%		
-1 490c	18 490	29.91	89.01	-117.0	147.01	0.3124	-0.2136	307.2	11 459	33 565	min		%		
-1 495c	19 495	33.36	74.42	-112.09	134.55	0.2908	-0.1997	303.5	12 462	33 566			%		
-1 500c	20 500	37.09	58.44	-106.44	121.43	0.2704	-0.1864	298.7	12 464	33 567			%		
-1 510c	22 510	45.26	23.9	-93.37	96.38	0.2349	-0.1623	284.3	13 469	33 569			%		
-1 519c	23 520	49.52	6.76	-86.32	86.58	0.2205	-0.152	274.4	14 471	34 570	Bm		%		
-1 529c	25 530	58.0	-23.98	-72.06	75.95	0.1992	-0.1348	251.5	15 475	34 573			%		
-1 539c	27 540	65.83	-46.7	-58.75	75.05	0.1868	-0.122	231.5	15 478	35 577			%		
-1 544c	28 545	69.38	-54.68	-52.68	75.93	0.1833	-0.117	223.9	15 479	35 579			%		
-1 549c	29 550	72.72	-60.59	-46.95	76.65	0.1812	-0.1126	217.7	16 480	36 582			%		
-1 554c	30 555	75.82	-64.5	-41.62	76.77	0.1803	-0.1088	212.8	16 481	36 584			%		
-1 560c	32 560	81.29	-66.96	-32.22	74.32	0.181	-0.1027	205.6	16 483	37 589			%		
380	770	100.0	0.0	0.0	0.0	0.2154	-0.0861	0.0					%		

Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, 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			%	
0 405	31 556	79.94	-66.31	-34.08	74.56	0.1807	-0.1034	207.2	15 476	37 585	Cm			%	
6 435	31 557	80.42	-82.6	-17.8	84.5	0.1724	-0.0949	192.1	16 480	44 621				%	
10 450	31 559	80.48	-108.29	14.97	109.32	0.1591	-0.078	172.1	18 491	-1 491c				%	
11 460	32 562	81.44	-111.37	27.39	114.69	0.1581	-0.0717	166.1	19 498	-1 498c				%	
12 465	33 565	82.34	-112.77	40.26	119.75	0.1579	-0.0653	160.3	21 506	-1 506c				%	
14 470	34 570	83.48	-109.79	65.41	127.8	0.1601	-0.053	149.2	24 522	-1 522c				%	
15 475	35 579	86.33	-94.64	81.3	124.77	0.169	-0.0462	139.3	26 533	-1 533c	Gm			%	
16 480	41 606	92.55	-53.33	102.14	115.22	0.1907	-0.0389	117.5	30 550	-1 550c				%	
16 485	-1 484c	96.94	-20.21	109.71	111.55	0.2063	-0.0374	100.4	32 560	10 454				%	
18 490	-1 490c	95.61	-14.83	124.45	125.34	0.2086	-0.0302	96.7	32 562	11 459	max			%	
19 495	-1 495c	94.76	-11.22	130.34	130.82	0.2101	-0.0271	94.9	32 563	12 461				%	
19 500	-1 499c	94.76	-11.22	130.34	130.82	0.2101	-0.0271	94.9	32 563	12 461				%	
22 510	-1 510c	91.28	2.92	142.55	142.58	0.2166	-0.0195	88.8	33 567	13 466				%	
23 520	-1 519c	89.77	8.54	144.07	144.32	0.2192	-0.0174	86.6	33 568	13 468	Ym			%	
26 530	-1 530c	84.06	27.32	142.33	144.93	0.2288	-0.0115	79.1	34 573	14 472				%	
27 540	-1 539c	81.79	33.86	139.63	143.68	0.2325	-0.0095	76.3	35 576	14 473				%	
28 545	-1 544c	79.35	40.37	136.19	142.05	0.2363	-0.0075	73.4	35 578	14 474				%	
29 550	-1 549c	76.75	46.79	132.12	140.16	0.2404	-0.0054	70.4	36 580	15 475				%	
31 555	-1 555c	71.13	58.79	122.64	136.0	0.2489	0.0	64.3	37 586	15 476				%	
32 560	10 451	69.5	84.42	-15.9	85.9	0.2645	-0.095	349.3	-1 492c	18 492				%	
	380	770	100.0	0.0	0.0	0.0	0.2152	-0.0857	0.0					%	

Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, 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			%	
31 556	0 405	71.84	57.81	111.35	125.47	0.2481	-0.0221	62.5	37 585	15 476	Rm			%	
31 557	6 435	71.27	68.77	29.56	74.85	0.2546	-0.0689	23.2	44 621	16 480				%	
31 559	10 450	71.19	81.9	-15.15	83.29	0.2621	-0.0944	349.5	-1 491c	18 491				%	
32 562	11 460	69.98	86.63	-25.22	90.23	0.2655	-0.1003	343.7	-1 498c	19 498				%	
33 565	12 465	68.81	90.56	-33.85	96.68	0.2685	-0.1056	339.5	-1 506c	21 506				%	
34 570	14 470	67.22	93.6	-46.01	104.3	0.2714	-0.1132	333.8	-1 522c	24 522				%	
35 579	15 475	62.81	97.27	-56.68	112.58	0.2768	-0.1215	329.7	-1 533c	26 533	Mm			%	
41 606	16 480	49.57	94.8	-81.7	125.15	0.2874	-0.1477	319.2	-1 550c	30 550				%	
-1 484c	16 485	33.36	73.3	-109.63	131.88	0.2894	-0.1962	303.7	10 454	32 560				%	
-1 490c	18 490	39.48	47.93	-101.69	112.42	0.2584	-0.1769	295.2	11 459	32 562	min			%	
-1 495c	19 495	42.69	34.2	-96.93	102.79	0.2443	-0.1679	289.4	12 461	32 563				%	
-1 499c	19 500	42.69	34.2	-96.93	102.79	0.2443	-0.1679	289.4	12 461	32 563				%	
-1 510c	22 510	52.84	-7.33	-80.67	81.0	0.2099	-0.144	264.8	13 466	33 567				%	
-1 519c	23 520	56.28	-19.89	-74.95	77.55	0.2014	-0.1373	255.1	13 468	33 568	Bm			%	
-1 530c	26 530	66.39	-49.47	-57.84	76.11	0.1852	-0.1206	229.4	14 472	34 573				%	
-1 539c	27 540	69.54	-55.96	-52.46	76.71	0.1825	-0.1162	223.1	14 473	35 576				%	
-1 544c	28 545	72.53	-60.74	-47.32	77.0	0.1809	-0.1123	217.9	14 474	35 578				%	
-1 549c	29 550	75.38	-63.87	-42.44	76.68	0.1803	-0.1088	213.6	15 475	36 580				%	
-1 555c	31 555	80.53	-65.58	-33.56	73.67	0.1813	-0.103	207.1	15 476	37 586				%	
10 451	32 560	81.82	-103.91	14.76	104.95	0.1621	-0.0782	171.9	18 492	-1 492c				%	
380	770	100.0	0.0	0.0	0.0	0.2152	-0.0857	0.0						%	



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<http://130.149.60.45/~farbmatrik/VE42/VE42LONP.PDF> /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 2/5

*rgb**_{cab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65

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}* = 25.6, 92.4, 162.1, 271.5 of CIELAB, and 90 intended hue angles:

000, 001, ..., 089, CIELAB data of CIE test colours 9 (R): 40.0 58.9 28.3, 10 (Y): 81.3 -3.0 71.8, 11 (G): 52.2 -42.3 13.6, 12 (B): 30.5 1.2 -46.3																				000, 001, ...	
no-ab	x	y	a	b	C _{AB}	A	B	C _{AB}	h _{AB}	L*	a*	b*	C* _{ab}	h _{ab}	rgb*	cab	Code _{ab}	no-ab	no		
000	40.7	44.43	0.255	1.735	-0.47	0.785	31.9	-1.4	32.0	357.4	70.0	82.3	-3.8	82.4	357.3	1.00	0.00	0.58	87BR	000	40.0
001	40.7	44.5	0.257	1.73	-0.459	0.78	31.7	-0.9	31.8	358.2	70.0	81.9	-2.6	81.9	358.1	1.00	0.00	0.55	87BR	001	40.0
002	40.8	44.7	0.248	1.725	-0.448	0.774	31.6	-0.5	31.6	359.0	70.0	81.5	-1.5	81.5	358.9	1.00	0.00	0.53	87BR	002	40.0
003	40.8	45	0.262	1.719	-0.438	0.769	31.4	-0.1	31.4	359.8	70.0	81.0	-0.2	81.0	359.7	1.00	0.00	0.51	87BR	003	40.0
004	40.8	45.3	0.264	1.714	-0.427	0.764	31.2	0.3	31.2	36.0	70.0	80.6	0.6	80.6	0.6	1.00	0.00	0.48	87BR	004	40.0
005	40.8	45.5	0.266	1.709	-0.416	0.759	31.0	0.7	31.0	1.4	70.0	80.1	2.2	80.2	1.5	1.00	0.00	0.46	87BR	005	40.0
006	40.8	45.8	0.268	1.704	-0.405	0.754	30.8	1.2	30.8	2.2	70.0	79.7	3.5	79.8	2.5	1.00	0.00	0.44	87BR	006	40.0
007	40.8	46.1	0.271	1.698	-0.394	0.749	30.6	1.6	30.6	3.1	70.0	79.2	4.8	79.4	3.4	1.00	0.00	0.42	87BR	007	40.0
008	40.9	46.3	0.273	1.693	-0.383	0.745	30.3	2.1	30.4	4.0	70.1	78.8	6.1	79.0	4.4	1.00	0.00	0.39	88BR	008	40.0
009	40.9	46.6	0.276	1.688	-0.372	0.74	30.1	2.5	30.3	4.8	70.1	78.3	7.5	78.7	6.8	1.00	0.00	0.37	88BR	009	40.0
010	40.9	46.9	0.278	1.683	-0.361	0.735	29.9	3.0	30.1	5.7	70.1	77.8	8.8	78.1	8.1	1.00	0.00	0.35	88BR	010	40.0
011	40.9	47.1	0.281	1.677	-0.35	0.732	29.7	3.4	29.9	6.6	70.1	77.4	10.3	78.1	7.5	1.00	0.00	0.33	88BR	011	40.1
012	40.9	47.4	0.283	1.672	-0.34	0.728	29.5	3.9	29.8	7.5	70.1	76.9	11.7	77.8	8.6	1.00	0.00	0.3	88BR	012	40.0
013	40.9	47.7	0.286	1.667	-0.329	0.724	29.3	4.3	29.7	8.4	70.1	76.5	13.2	77.6	9.8	1.00	0.00	0.28	88BR	013	40.0
014	41.0	48.0	0.289	1.662	-0.318	0.721	29.1	4.7	29.5	9.3	70.1	76.0	14.7	77.4	10.9	1.00	0.00	0.26	88BR	014	40.0
015	41.0	48.3	0.291	1.656	-0.308	0.717	28.9	5.2	29.4	10.2	70.1	75.6	16.2	77.3	12.1	1.00	0.00	0.24	88BR	015	40.0
016	41.0	48.6	0.294	1.651	-0.297	0.714	28.7	5.6	29.3	11.1	70.2	75.1	17.7	77.2	13.2	1.00	0.00	0.21	89BR	016	40.2
017	41.0	48.9	0.297	1.646	-0.286	0.711	28.5	6.1	29.2	12.0	70.2	74.6	19.2	77.1	14.4	1.00	0.00	0.19	89BR	017	40.2
018	41.0	49.2	0.3	1.641	-0.276	0.706	28.3	6.5	29.1	12.9	70.2	74.2	20.8	77.1	15.7	1.00	0.00	0.17	89BR	018	40.2
019	41.0	49.5	0.302	1.636	-0.266	0.706	28.1	6.9	29.0	13.8	70.2	73.7	22.4	77.1	16.9	1.00	0.00	0.15	89BR	019	40.2
020	41.1	49.8	0.305	1.631	-0.256	0.701	27.9	7.3	28.9	14.7	70.2	73.2	24.1	77.1	18.1	1.00	0.00	0.12	89BR	020	40.3
021	41.1	50.1	0.308	1.626	-0.246	0.701	27.7	7.7	28.8	15.6	70.2	72.8	25.7	77.3	19.4	1.00	0.00	0.1	89BR	021	40.3
022	41.1	50.4	0.311	1.621	-0.236	0.699	27.5	8.1	28.7	16.5	70.2	72.4	27.4	77.4	20.7	1.00	0.00	0.08	89BR	022	40.3
023	41.1	50.7	0.314	1.616	-0.226	0.697	27.4	8.6	28.6	17.4	70.2	72.0	29.1	77.6	22.0	1.00	0.00	0.06	89BR	023	40.3
024	41.1	51.0	0.317	1.611	-0.216	0.696	27.2	9.0	28.6	18.3	70.2	71.5	30.8	77.9	23.0	1.00	0.00	0.03	89BR	024	40.3
025	41.1	51.3	0.320	1.606	-0.207	0.695	27.0	9.4	28.5	19.2	70.3	71.1	32.5	78.2	24.6	1.00	0.00	0.01	89BR	025	40.4
026	41.2	51.7	0.322	1.601	-0.198	0.693	26.8	9.7	28.5	20.0	70.3	70.7	34.3	78.6	25.9	1.00	0.0	0.00	89BY	026	40.4
027	41.2	52	0.326	1.597	-0.187	0.692	26.6	10.2	28.5	20.9	70.3	70.3	36.4	79.2	27.4	1.00	0.02	0.00	89BY	027	40.5
028	41.2	52.5	0.329	1.593	-0.176	0.692	26.5	10.6	28.5	21.9	70.3	69.9	38.7	79.9	28.9	1.00	0.03	0.00	89BY	028	40.5
029	41.2	52.8	0.332	1.588	-0.165	0.693	26.3	11.1	28.6	22.8	70.3	69.5	40.9	80.7	30.2	1.00	0.05	0.00	89BY	029	40.5
030	41.3	53.2	0.336	1.584	-0.155	0.693	26.2	11.5	28.6	23.7	70.3	69.1	43.2	81.5	31.9	1.00	0.06	0.00	89BY	030	40.5
031	41.3	53.6	0.339	1.58	-0.145	0.693	26.0	11.9	28.6	24.6	70.4	68.8	45.5	82.5	33.4	1.00	0.08	0.00	89BY	031	40.6
032	41.3	54	0.342	1.576	-0.136	0.694	25.9	12.3	28.7	25.5	70.4	68.4	47.8	83.5	34.9	1.00	0.09	0.00	89BY	032	40.6
033	41.3	54.4	0.345	1.572	-0.127	0.694	25.7	12.7	28.7	26.3	70.4	68.1	50.1	84.5	36.3	1.00	0.11	0.00	89BY	033	40.7
034	41.3	54.8	0.348	1.568	-0.118	0.693	25.5	13.1	28.7	27.1	70.4	67.7	52.4	85.6	37.7	1.00	0.12	0.00	89BY	034	40.7
035	41.4	55.5	0.351	1.565	-0.11	0.695	25.4	13.4	28.8	27.8	70.4	67.4	54.7	86.8	39.0	1.00	0.13	0.00	89BY	035	40.7
036	41.4	55.4	0.354	1.561	-0.102	0.696	25.3	13.8	28.8	28.5	70.4	67.1	57.0	88.1	40.3	1.00	0.15	0.00	89BY	036	40.8
037	41.4	55.7	0.357	1.558	-0.094	0.696	25.1	14.1	28.8	29.2	70.4	66.7	59.4	89.3	41.6	1.00	0.16	0.00	89BY	037	40.8
038	41.4	56	0.36	1.554	-0.087	0.697	25.0	14.4	28.8	29.9	70.5	66.4	61.7	90.7	42.8	1.00	0.18	0.00	89BY	038	40.8
039	41.5	56.3	0.363	1.55	-0.08	0.697	24.9	14.7	28.9	30.7	70.5	66.1	64.4	92.0	44.0	1.00	0.19	0.00	89BY	039	40.9
040	41.5	56.6	0.365	1.547	-0.074	0.697	24.7	14.9	28.9	31.1	70.5	65.8	66.3	93.4	45.2	1.00	0.21	0.00	89BY	040	40.9
041	41.5	56.8	0.368	1.544	-0.068	0.698	24.6	15.2	29.0	31.7	70.5	65.5	68.7	94.9	46.3	1.00	0.22	0.00	89BY	041	41.0
042	41.5	57.1	0.37	1.54	-0.062	0.698	24.5	15.6	29.0	32.2	70.5	65.2	71.0	96.4	47.4	1.00	0.24	0.00	89BY	042	41.0
043	41.6	57.4	0.372	1.537	-0.057	0.698	24.4	15.9	29.0	32.7	70.5	64.9	73.2	97.9	48.5	1.00	0.25	0.00	89BY	043	41.1
044	41.6	57.5	0.375	1.534	-0.052	0.698	24.3	15.9	29.0	33.2	70.5	64.6	75.5	99.4	49.4	1.00	0.27	0.00	89BY	044	41.1
045	41.6	57.7	0.377	1.531	-0.047	0.698	24.1	16.1	29.0	33.7	70.6	64.3	77.8	100.9	50.4	1.00	0.28	0.00	89BY	045	41.2
046	41.6	57.9	0.379	1.528	-0.043	0.698	24.0	16.3	29.0	34.1	70.6	64.0	80.0	102.5	51.3	1.00	0.3	0.00	89BY	046	41.2
047	41.6	58.1	0.381	1.525	-0.039	0.698	23.9	16.5	29.0	34.5	70.6	63.8	82.2	104.1	52.2	1.00	0.31	0.00	89BY	047	41.3
048	41.6	58.3	0.383	1.523	-0.035	0.699	23.8	16.6	29.1	34.9	70.6	63.5	84.4	105.7	53.0	1.00	0.33	0.00	89BY	048	41.3
049	41.6	58.6	0.384	1.52	-0.032	0.699	23.7	16.8	29.1	35.2	70.6	63.3	86.6	107.3	53.9	1.00	0.34	0.00	89BY	049	41.3
050	41.7	58.8	0.386	1.517	-0.029	0.697	23.6	16.9	29.1	35.6	70.6	63.0	88.8	108.9	54.6	1.00	0.36	0.00	89BY	050	41.4
051	41.7	5.87	0.387	1.515	-0.026	0.697	23.5	17.0	29.0	35.9	70.6	62.8	90.9	110.5	55.3	1.00	0.37	0.00	89BY	051	41.4
052	41.7	5.88	0.388	1.512	-0.023	0.697	23.4	17.1	29.0	36.2	70.6	62.6	93.0	112.1	56.0	1.00	0.39	0.00	89BY	052	41.4
053	41.7	5.89	0.39	1.509	-0.02	0.697	23.3	17.2	29.0	36.5	70.6	62.4	95.1	113.7	56.7	1.00	0.41	0.00	89BY	053	41.4
054	41.7	5.9	0.391	1.508	-0.018	0.696	23.2	17.4	29.0	36.7	70.7	62.1	97.0	115.2	57.3	1.00	0.42	0.00	89BY	054	41.7
055	41.7	5.91	0.392	1.505	-0.016	0.695	23.1	17.4	29.0	37.0	70.7	61.9	99.0	116.8	57.9	1.00	0.43	0.00	89BY	055	41.7
056	41.7	5.91	0.393	1.503	-0.014	0.695	23.1	17.5	29.0	37.2	70.7	61.7	100.9	118.3	58.5	1.00	0.45	0.00	89BY	056	41.7
057	41.7	5.92	0.394	1.501	-0.013	0.694	23.0	17.6	29.0	37.4	70.7	61.5	102.8	119.9	59.1	1.00	0.46	0.00	89BY	057	41.8
058	41.7	5.93	0.395	1.499	-0.012	0.694	22.9	17.7	29.0	37.6	70.7	61.3	104.7	121.4	59.7	1.00	0.47	0.00	89BY	058	41.8
059	41.7	5.93	0.396	1.498	-0.011	0.693	22.8	17.7	28.9	37.8	70.7	61.2	106.5	122.8	60.1	1.00	0.49	0.00			

G
L
V

NUB material: code=rh4ta

http://130.149.60.45/~farbmatrik/VE42/VE42L0NP.PDF /.PS; transfer output

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

rgb^*_{cab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65

$Yxy, abc_{AB}, ABC_{AB}, LabC^*_{ab}, h_{ab}$ 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: $h_{ab} = 25.6, 92.4, 162.1, 271.5$ of CIELAB, and 90 intended hue angles:

180, 181, ..., 269, CIELAB data of CIE test colours 9 (R): 40.0 58.9 28.3, 10 (Y): 81.3 -30.3 71.8, 11 (G): 52.2 -42.3 13.6, 12 (B): 30.5 1.2 -46.3

no-ab _Y	x	y	a	b	C _{AB}	h _{AB}	L*	a*	b*	C* _{ab}	h _{ab}	rgb* _{cab}	Code _{ab}
180	59.2	0.168	0.404	0.416	-0.423	0.534	-31.6	0.7	31.6	178.6	81.4	-100.9	1.5
181	59.1	0.168	0.397	0.427	-0.436	0.528	-31.2	0.0	31.2	180.0	81.3	-99.4	0.0
182	59.1	0.167	0.391	0.422	-0.449	0.522	-30.9	-0.8	30.9	181.5	81.3	-99.0	-1.7
183	59.1	0.167	0.386	0.433	-0.462	0.517	-30.5	-1.6	30.5	183.0	81.3	-96.5	-3.4
184	59.0	0.167	0.38	0.439	-0.476	0.512	-30.1	-2.4	30.2	184.8	81.3	-95.0	-5.0
185	59.0	0.166	0.378	0.445	-0.492	0.507	-29.8	-3.2	29.9	186.1	81.3	-93.6	-6.7
186	58.9	0.166	0.368	0.451	-0.503	0.503	-29.4	-4.0	29.7	187.7	81.3	-92.1	-8.3
187	58.9	0.166	0.363	0.457	-0.517	0.499	-29.0	-4.8	29.4	189.4	81.2	-90.6	-9.9
188	58.9	0.166	0.358	0.463	-0.531	0.496	-28.7	-5.6	29.2	191.1	81.2	-89.2	-11.5
189	58.9	0.165	0.352	0.469	-0.545	0.493	-28.3	-6.4	29.0	192.8	81.2	-87.7	-13.0
190	58.9	0.165	0.347	0.475	-0.559	0.489	-28.0	-7.2	28.8	194.5	81.1	-86.3	-14.5
191	58.8	0.165	0.343	0.481	-0.573	0.488	-27.5	-8.1	28.7	196.3	81.2	-84.9	-16.0
192	58.8	0.165	0.338	0.487	-0.587	0.487	-27.2	-8.9	28.6	198.1	81.2	-83.5	-17.5
193	58.8	0.164	0.333	0.493	-0.6	0.485	-26.8	-9.7	28.5	199.8	81.1	-82.2	-18.9
194	58.7	0.164	0.328	0.5	-0.616	0.485	-26.4	-10.6	28.4	201.8	81.1	-80.6	-20.5
195	58.7	0.163	0.323	0.507	-0.631	0.484	-26.0	-11.5	28.4	203.8	81.1	-79.0	-22.1
196	58.6	0.164	0.319	0.513	-0.646	0.485	-25.5	-12.3	28.4	205.8	81.0	-77.5	-23.5
197	58.5	0.163	0.315	0.52	-0.66	0.485	-25.2	-13.1	28.4	207.6	81.0	-76.1	-24.9
198	58.5	0.163	0.311	0.525	-0.673	0.486	-24.8	-13.9	28.4	209.2	81.0	-74.8	-26.1
199	58.4	0.163	0.308	0.531	-0.685	0.486	-24.4	-14.6	28.5	210.8	80.9	-73.6	-27.3
200	58.3	0.163	0.304	0.536	-0.697	0.486	-24.0	-15.4	28.5	212.4	80.9	-72.4	-28.5
201	58.3	0.163	0.302	0.541	-0.707	0.491	-23.8	-15.8	28.6	213.6	80.9	-71.4	-29.3
202	58.3	0.163	0.299	0.546	-0.716	0.492	-23.5	-16.3	28.7	214.8	80.9	-70.4	-30.1
203	58.2	0.163	0.297	0.55	-0.725	0.494	-23.3	-16.8	28.7	215.8	80.8	-69.5	-30.9
204	58.2	0.163	0.295	0.554	-0.732	0.495	-23.0	-17.2	28.8	216.8	80.8	-68.7	-31.6
205	58.2	0.163	0.293	0.559	-0.738	0.496	-22.8	-17.6	28.8	217.6	80.8	-67.9	-32.1
206	58.6	0.164	0.292	0.563	-0.741	0.493	-22.6	-17.9	28.9	218.3	81.1	-66.9	-32.5
207	57.5	0.162	0.289	0.562	-0.756	0.503	-22.3	-18.4	28.9	219.6	81.0	-66.6	-33.3
208	56.2	0.16	0.286	0.561	-0.773	0.515	-21.8	-19.0	28.9	221.0	79.7	-66.3	-34.8
209	54.9	0.158	0.282	0.56	-0.792	0.528	-21.4	-19.6	28.9	222.5	79.9	-66.2	-36.2
210	53.5	0.155	0.278	0.559	-0.813	0.543	-20.9	-20.2	29.0	224.0	79.8	-65.8	-37.6
211	52.0	0.153	0.274	0.558	-0.835	0.56	-20.4	-20.8	29.1	225.6	77.3	-65.2	-39.0
212	50.7	0.15	0.269	0.557	-0.858	0.577	-19.9	-21.4	29.2	227.1	76.5	-64.8	-40.4
213	49.3	0.148	0.265	0.557	-0.881	0.594	-19.4	-22.0	29.3	228.5	75.6	-64.4	-41.8
214	48.2	0.146	0.262	0.558	-0.902	0.609	-18.9	-22.5	29.4	229.9	74.9	-63.9	-43.0
215	47.2	0.144	0.258	0.559	-0.921	0.623	-18.4	-22.9	29.4	231.2	74.3	-63.0	-44.2
216	46.2	0.143	0.255	0.561	-0.94	0.637	-17.9	-23.3	29.4	232.3	73.7	-62.1	-45.2
217	45.4	0.142	0.252	0.564	-0.958	0.65	-17.5	-23.7	29.5	233.5	73.1	-61.3	-46.2
218	44.5	0.141	0.249	0.566	-0.976	0.662	-17.0	-24.0	29.5	234.6	72.6	-60.4	-47.1
219	43.7	0.139	0.246	0.569	-0.993	0.675	-16.6	-24.3	29.6	235.7	72.0	-59.6	-48.0
220	42.9	0.139	0.243	0.572	-1.012	0.689	-16.2	-24.7	29.6	236.7	71.5	-58.6	-48.9
221	42.1	0.138	0.24	0.575	-1.031	0.703	-15.8	-25.1	29.6	237.8	71.0	-57.7	-49.9
222	41.3	0.137	0.237	0.578	-1.05	0.718	-15.3	-25.4	29.7	238.8	70.4	-56.7	-50.8
223	40.6	0.136	0.234	0.582	-1.07	0.734	-14.9	-25.8	29.8	239.9	69.9	-55.7	-51.7
224	39.8	0.135	0.231	0.586	-1.091	0.75	-14.4	-26.1	29.8	240.9	69.3	-54.7	-52.7
225	39.3	0.135	0.229	0.589	-1.105	0.761	-14.2	-26.3	29.9	241.6	68.9	-53.7	-53.5
226	38.7	0.134	0.227	0.591	-1.12	0.773	-13.9	-26.5	30.0	242.3	68.6	-53.2	-54.0
227	38.2	0.134	0.225	0.595	-1.136	0.786	-13.5	-26.8	30.0	243.1	68.2	-52.4	-54.7
228	37.6	0.133	0.222	0.599	-1.154	0.8	-13.2	-27.0	30.1	243.9	67.7	-51.4	-55.4
229	37.1	0.132	0.22	0.603	-1.174	0.816	-12.8	-27.3	30.1	244.8	67.3	-50.6	-56.2
230	36.3	0.132	0.217	0.609	-1.197	0.834	-12.3	-27.6	30.2	245.6	66.7	-49.7	-57.1
231	35.5	0.131	0.213	0.616	-1.222	0.855	-11.8	-27.9	30.3	247.0	66.1	-47.5	-58.1
232	34.9	0.131	0.211	0.622	-1.244	0.873	-11.4	-28.2	30.4	247.9	65.6	-46.3	-59.0
233	34.4	0.131	0.209	0.626	-1.259	0.885	-11.1	-28.4	30.5	248.4	65.3	-45.4	-59.5
234	34.0	0.13	0.207	0.631	-1.275	0.898	-10.8	-28.6	30.6	249.1	65.0	-44.5	-60.1
235	33.6	0.13	0.205	0.635	-1.291	0.911	-10.5	-28.7	30.6	249.8	64.6	-43.6	-60.7
236	33.2	0.13	0.203	0.64	-1.308	0.926	-10.2	-28.9	30.7	250.4	64.3	-42.6	-61.3
237	32.7	0.13	0.201	0.645	-1.325	0.941	-9.9	-29.1	30.8	251.1	63.9	-41.6	-61.9
238	32.3	0.129	0.199	0.651	-1.344	0.956	-9.6	-29.3	30.9	251.7	63.5	-40.6	-62.5
239	31.8	0.129	0.197	0.656	-1.363	0.973	-9.3	-29.5	30.9	252.4	63.2	-39.6	-63.2
240	31.3	0.129	0.195	0.662	-1.383	0.99	-9.0	-29.7	31.0	253.0	62.8	-38.5	-63.8
241	30.9	0.129	0.193	0.668	-1.403	1.008	-8.7	-29.9	31.1	253.7	62.4	-37.4	-64.5
242	30.4	0.128	0.19	0.675	-1.425	1.027	-8.3	-30.1	31.2	254.4	62.0	-36.2	-65.2
243	29.9	0.128	0.188	0.681	-1.447	1.046	-8.0	-30.3	31.3	255.1	61.6	-35.0	-65.8
244	29.5	0.128	0.186	0.688	-1.47	1.067	-7.7	-30.5	31.4	255.8	61.2	-33.8	-66.5
245	29.0	0.128	0.184	0.69	-1.493	1.088	-7.3	-30.7	31.6	256.4	60.8	-32.6	-67.2
246	28.5	0.127	0.181	0.703	-1.518	1.11	-7.0	-30.9	31.7	257.1	60.4	-31.4	-67.9
247	28.1	0.127	0.179	0.711	-1.543	1.133	-6.7	-31.1	31.8	257.9	59.9	-30.1	-68.7
248	27.6	0.127	0.177	0.719	-1.569	1.156	-6.3	-31.3	31.9	258.4	59.5	-28.9	-69.4
249	27.1	0.127	0.174	0.728	-1.596	1.181	-6.0	-31.5	32.0	259.1	59.1	-27.5	-70.1
250	26.6	0.127	0.172	0.737	-1.623	1.207	-5.6	-31.7	32.2	259.8	58.6	-26.1	-70.8
251	26.2	0.126	0.17	0.746	-1.651	1.233	-5.3	-31.9	32.3	260.4	58.2	-24.8	-71.6
252	25.7	0.126	0.167	0.755	-1.679	1.259	-5.0	-32.0	32.4	261.0	57.8	-23.4	-72.3
253	25.3	0.126	0.165	0.76	-1.706	1.284	-4.7	-32.2	32.5	261.6	57.4	-22.2	-72.9
254	24.9	0.126	0.163	0.774	-1.733	1.31	-4.3	-32.4	32.7	262.2	57.0	-20.7	-73.6
255	24.5	0.126	0.161	0.784	-1.761	1.336	-4.0	-32.5	32.8	262.8	56.6	-19.3	-74.3
256	24.1	0.126	0.159	0.794	-1.79	1.363	-3.7	-32.7	32.9	263.4	56.2	-18.0	-74.9
257	23.7	0.126	0.157	0.805	-1.818	1.391	-3.4	-32.9	33.0	264.0	55.8	-16.6	-75.7
258	23.4	0.126	0.155	0.816	-1.849	1.418	-3.1	-33.0	33.1	264.6	55.4	-15.2	-76.4
259	23.0	0.126	0.153	0.827	-1.879	1.448	-2.8	-33.2	33.3	265.1	55.0	-13.8	-76.9
260	22.6	0.126	0.151	0.838	-1.909	1.478	-2.5	-33.3	33.4	265.6	54.7	-12.4	-77.6
261	22.2	0.126	0.149	0.849	-1.941	1.508	-2.2	-33.5	33.5	266.1	54.3	-11.0	-78.2
262	21.9	0.126	0.147	0.86	-1.972	1.537	-1.9	-33.6	33.6	266.6	54.0	-9.8	-78.9
263	21.5	0.126	0.145	0.873	-2.004	1.571	-1.6	-33.8	33.8	267.1	53.5	-8.3	-79.5
264	21.2	0.126	0.143	0.885	-2.037	1.603	-1.3	-33.9	33.9	267.6	53.1	-6.9	-80.1
265													

http://130.149.60.45/~farbmatrik/VE42/VE42L0NP.PDF /.PS; transfer output

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

rgb^*_{cab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65

$Yxy, abc_{AB}, ABC_{AB}, LabC^*_{ab}, h_{ab}$ 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: $h_{ab} = 25.6, 92.4, 162.1, 271.5$ of CIELAB, and 90 intended hue angles:

270, 271, ..., 360, CIELAB data of CIE test colours 9 (R): 40.0 58.9 28.3, 10 (Y): 81.3 -3.0 71.8, 11 (G): 52.2 -42.3 13.6, 12 (B): 30.5 1.2 -46.3

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	19.2	0.127	0.132	0.961	-2.238	1.883	0.2	-34.7	34.7	278.3	51.0	1.1	-83.8	83.8	277.7	0.00 0.02 1.00	% B98B
271	18.9	0.127	0.13	0.974	-2.272	1.874	0.2	-34.8	34.8	277.7	50.6	2.4	-84.4	84.4	277.6	0.00 0.02 1.00	% B98B
272	18.6	0.127	0.128	0.987	-2.367	1.871	0.6	-34.9	34.9	271.1	50.3	3.7	-84.9	85.0	272.4	0.0 0.0 1.00	% B01R
273	18.4	0.127	0.127	1.0	-2.341	1.966	0.9	-35.0	35.1	271.5	49.9	4.9	-85.5	85.6	273.3	0.02 0.00 1.00	% B02R
274	18.1	0.127	0.125	1.014	-2.375	1.94	1.1	-35.1	35.2	271.8	49.6	6.1	-86.0	86.2	274.1	0.04 0.00 1.00	% B02R
275	17.8	0.127	0.123	1.01	-2.419	1.985	1.4	-35.3	35.3	272.2	49.2	7.7	-86.7	87.1	274.2	0.06 0.00 1.00	% B03R
276	17.4	0.127	0.121	1.05	-2.471	2.038	1.7	-35.4	35.5	272.8	48.7	9.5	-87.5	88.0	276.1	0.07 0.00 1.00	% B03R
277	17.0	0.127	0.119	1.07	-2.521	2.089	2.0	-35.6	35.6	273.2	48.3	11.1	-88.2	88.9	277.2	0.09 0.00 1.00	% B04R
278	16.7	0.127	0.117	1.089	-2.57	2.139	2.3	-35.7	35.8	273.7	47.9	12.8	-88.9	89.8	278.2	0.11 0.00 1.00	% B05R
279	16.4	0.128	0.115	1.088	-2.618	2.188	2.6	-35.8	35.9	274.1	47.5	14.4	-89.6	90.7	279.1	0.13 0.00 1.00	% B06R
280	15.7	0.128	0.113	1.128	-2.667	2.248	2.9	-35.9	36.0	274.5	47.1	16.1	-90.3	91.5	279.5	0.15 0.00 1.00	% B07R
281	15.8	0.128	0.111	1.149	-2.717	2.29	3.1	-36.1	36.2	274.9	46.7	17.6	-90.9	92.6	280.9	0.16 0.00 1.00	% B08R
282	15.5	0.128	0.109	1.171	-2.769	2.344	3.4	-36.2	36.3	275.4	46.3	19.3	-91.6	93.6	281.9	0.18 0.00 1.00	% B09R
283	15.1	0.129	0.107	1.195	-2.826	2.403	3.7	-36.3	36.5	275.8	45.8	21.2	-92.3	94.7	282.9	0.2 0.00 1.00	% B10R
284	14.8	0.129	0.105	1.222	-2.888	2.468	4.0	-36.4	36.6	276.3	45.4	23.1	-93.0	95.9	283.9	0.21 0.00 1.00	% B11R
285	14.6	0.129	0.103	1.252	-2.95	2.542	4.3	-36.5	36.8	276.8	44.9	25.3	-93.9	97.2	285.0	0.23 0.00 1.00	% B11R
286	14.0	0.13	0.101	1.286	-3.038	2.624	4.7	-36.7	37.0	277.3	44.3	27.6	-94.8	98.7	286.2	0.25 0.00 1.00	% B12R
287	13.7	0.13	0.098	1.322	-3.121	2.712	5.0	-36.8	37.1	277.8	43.8	29.9	-95.7	100.2	287.3	0.27 0.00 1.00	% B13R
288	13.3	0.13	0.096	1.36	-3.21	2.804	5.4	-36.9	37.3	278.3	43.2	32.4	-96.6	101.9	288.5	0.28 0.00 1.00	% B14R
289	12.9	0.131	0.093	1.4	-3.393	2.962	5.8	-37.0	37.5	278.9	42.6	34.8	-97.5	103.6	289.6	0.3 0.00 1.00	% B15R
290	12.5	0.131	0.091	1.442	-3.481	3.038	6.2	-37.1	37.7	279.4	42.0	37.1	-98.5	105.3	290.7	0.32 0.00 1.00	% B16R
291	12.1	0.132	0.088	1.486	-3.563	3.114	6.5	-37.3	37.8	279.9	41.4	39.8	-99.4	107.1	291.8	0.34 0.00 1.00	% B17R
292	11.7	0.132	0.086	1.532	-3.699	3.226	6.8	-37.4	38.0	280.3	40.8	42.3	-100.4	108.9	292.8	0.35 0.00 1.00	% B17R
293	11.4	0.133	0.084	1.58	-3.719	3.344	7.2	-37.5	38.2	280.8	40.3	44.8	-101.3	110.8	293.8	0.37 0.00 1.00	% B18R
294	11.0	0.133	0.081	1.629	-3.833	3.465	7.5	-37.6	38.3	281.3	39.7	47.2	-102.2	112.6	294.8	0.39 0.00 1.00	% B19R
295	10.7	0.133	0.079	1.682	-3.951	3.544	7.8	-37.7	38.4	281.8	39.1	49.7	-103.1	114.5	295.8	0.41 0.00 1.00	% B20R
296	10.4	0.134	0.077	1.732	-4.069	3.716	8.1	-37.8	38.7	282.1	38.5	52.1	-104.0	116.4	296.6	0.42 0.00 1.00	% B21R
297	10.1	0.134	0.075	1.785	-4.19	3.846	8.4	-37.9	38.8	282.5	38.0	54.4	-104.9	118.2	297.4	0.44 0.00 1.00	% B22R
298	9.8	0.135	0.073	1.839	-4.312	3.977	8.7	-38.0	39.0	282.9	37.4	56.7	-105.8	120.0	298.2	0.46 0.00 1.00	% B23R
299	9.4	0.135	0.071	1.896	-4.465	4.141	9.0	-38.1	39.1	283.3	36.8	59.0	-106.8	121.8	299.1	0.48 0.00 1.00	% B24R
300	9.0	0.136	0.069	1.959	-4.618	4.312	9.3	-38.2	39.2	283.7	36.2	61.3	-107.8	123.6	300.0	0.49 0.00 1.00	% B24R
301	8.5	0.136	0.064	2.111	-4.925	4.637	9.9	-38.3	39.5	284.5	35.0	67.1	-109.5	128.4	301.4	0.51 0.00 1.00	% B25R
302	8.1	0.137	0.062	2.202	-5.123	4.852	10.2	-38.3	39.6	284.9	34.3	70.1	-110.6	131.0	302.3	0.53 0.00 1.00	% B26R
303	7.8	0.138	0.06	2.287	-5.31	5.055	10.5	-38.3	39.8	285.3	33.7	72.9	-111.5	133.2	303.1	0.55 0.00 1.00	% B27R
304	7.4	0.138	0.058	2.342	-5.498	5.272	10.8	-38.4	39.9	285.7	33.0	75.2	-112.5	135.0	304.0	0.57 0.00 1.00	% B28R
305	6.4	0.131	0.05	2.589	-5.422	6.267	10.5	-38.7	40.1	285.3	30.5	79.6	-116.5	141.1	304.3	0.58 0.00 1.00	% B29R
306	6.0	0.131	0.047	2.578	-5.887	6.7	10.8	-38.7	40.2	285.6	29.4	83.4	-118.2	144.7	305.2	0.6 0.00 1.00	% B30R
307	6.0	0.138	0.048	2.758	-6.779	6.629	11.7	-38.5	40.2	286.9	29.5	87.7	-117.6	146.7	306.7	0.62 0.00 1.00	% B31R
308	6.4	0.146	0.05	2.886	-6.338	6.212	12.5	-38.2	40.2	288.1	30.5	90.0	-115.7	146.6	307.8	0.63 0.00 1.00	% B31R
309	6.3	0.153	0.052	2.872	-6.951	5.84	13.2	-38.0	40.2	289.2	31.4	92.2	-114.4	148.2	308.7	0.64 0.00 1.00	% B32R
310	7.3	0.16	0.056	2.855	-5.772	5.49	14.0	-37.7	40.3	290.3	32.6	92.7	-112.7	145.6	309.5	0.67 0.00 1.00	% B33R
311	7.8	0.168	0.059	2.836	-5.297	5.13	14.8	-37.5	40.3	291.5	33.7	94.1	-110.2	145.0	310.5	0.69 0.00 1.00	% B34R
312	8.4	0.176	0.062	2.815	-4.857	4.799	15.7	-37.2	40.4	292.8	34.8	95.6	-108.2	144.3	311.4	0.7 0.00 1.00	% B35R
313	9.0	0.184	0.066	2.794	-4.527	4.487	16.6	-36.9	40.5	294.2	36.0	97.0	-106.0	143.7	312.4	0.72 0.00 1.00	% B36R
314	9.6	0.192	0.071	2.771	-4.241	4.195	17.7	-36.6	40.6	295.6	37.1	98.5	-103.9	143.0	313.3	0.74 0.00 1.00	% B37R
315	10.3	0.202	0.073	2.748	-3.925	3.925	18.6	-36.2	40.7	297.2	38.5	99.8	-101.6	142.4	314.4	0.76 0.00 1.00	% B38R
316	11.1	0.211	0.077	2.724	-3.654	3.675	19.7	-35.8	40.9	298.8	39.8	101.1	-99.3	141.1	315.5	0.77 0.00 1.00	% B38R
317	11.9	0.221	0.081	2.7	-3.495	3.446	20.9	-35.4	41.2	300.5	41.1	102.5	-97.0	141.1	316.5	0.79 0.00 1.00	% B39R
318	12.8	0.23	0.086	2.676	-3.174	3.237	22.1	-35.0	41.4	302.2	42.4	103.8	-94.8	140.5	317.6	0.81 0.00 1.00	% B40R
319	13.7	0.239	0.091	2.652	-2.862	3.042	23.3	-34.6	41.6	303.8	43.5	105.1	-92.2	139.9	318.7	0.83 0.00 1.00	% B41R
320	14.6	0.249	0.094	2.628	-2.769	2.874	24.5	-34.1	42.1	305.7	45.1	106.4	-89.8	139.3	319.8	0.84 0.00 1.00	% B42R
321	15.6	0.258	0.099	2.605	-2.592	2.718	25.8	-33.7	42.4	307.3	46.4	107.6	-87.5	138.7	320.8	0.86 0.00 1.00	% B43R
322	16.6	0.267	0.103	2.582	-2.431	2.578	27.1	-33.2	42.9	309.2	47.8	108.7	-85.1	138.1	321.9	0.88 0.00 1.00	% B44R
323	17.6	0.276	0.107	2.56	-2.284	2.451	28.4	-32.7	43.3	311.0	49.1	109.8	-82.8	137.5	322.9	0.9 0.00 1.00	% B45R
324	18.6	0.284	0.112	2.538	-2.151	2.337	29.8	-32.2	43.8	312.7	50.4	110.9	-80.4	137.0	324.0	0.91 0.00 1.00	% B46R
325	19.8	0.292	0.116	2.516	-2.03	2.235	31.1	-31.6	44.4	314.4	51.6	111.8	-78.2	136.5	325.0	0.93 0.00 1.00	% B47R
326	20.9	0.3	0.12	2.496	-1.921	2.143	32.4	-31.1	44.9	316.1	52.9	112.7	-76.0	136.0	326.0	0.95 0.00 1.00	% B48R
327	23.0	0.313	0.128	2.442	-1.739	1.981	34.4	-30.0	45.7	318.8	55.1	113.3	-71.9	134.2	327.6	0.97 0.00 1.00	% B49R
328	25.2	0.324	0.136	2.377	-1.582	1.822	36.4	-28.9	46.2	321.4	57.2	114.3	-67.0	132.0	329.1	0.99 0.00 1.00	% B50R
329	27.0	0.331	0.142	2.32	-1.469	1.716	37.0	-27.9	46.3	322.9	58.9	112.0	-64.6	129.3	330.0	1.00 0.00 0.99	% B51R
330	28.5	0.336	0.148	2.265	-1.384	1.621	37.4	-27.0	46.2	324.1	60.3	110.4	-61.9	126.6	330.7	1.00 0.00 0.97	% B51R
331	29.7	0.339	0.153	2.213	-1.32	1.542	37.5	-26.2	45.8	324.9	61.3	108.6	-59.6	123.9	331.2	1.00 0.00 0.95	% B52R
332	31.4	0.345	0.16	2.154	-1.232	1.443	37.9	-25.9	45.4	326.5	62.9	106.7	-56.3	1202			