

Figure 1 consists of two panels, (a) and (b), showing the evolution of the color index $\log p_{rm} - 0.5 \log Y + \log Y_I$ as a function of λ_{01} (top panel) and h_{ab} (bottom panel). The top panel shows the evolution from 400 to 800 nm, with points labeled R, G, Y, B, and M. The bottom panel shows the evolution from 0 to 360 degrees, with points labeled R, G, Y, B, and M. Both panels include curves for $\log p_{rm}$, $\log p_{rm}^m$, $\log p_{rm}^m$, and $\log Y, 0.5 \log p_{rm} + \log Y_I$. The top panel also includes curves for $\log p_{rm}^m$, $\log p_{rm}^m$, $\log p_{rm}^m$, and $\log Y, 0.5 \log p_{rm} + \log Y_I$. The bottom panel also includes curves for $\log p_{rm}^m$, $\log p_{rm}^m$, $\log p_{rm}^m$, and $\log Y, 0.5 \log p_{rm} + \log Y_I$.

Top Diagram (CIE62):

- Y-axis: B^* (ranging from -200 to 200)
- X-axis: A^* (ranging from -200 to 200)
- Label: CIE62
- Equations:

$$X_w = 96,31, Y_w = 99,99, Z_w = 82,24$$

$$x_w = 0,3457, y_w = 0,3589, z_w = 0,2952$$

$$A_4 = (a_4 - a_{4,w}) Y / [Y / Y_{18}]^{1/3}$$

$$B_4 = (b_4 - b_{4,w}) Y / [Y / Y_{18}]^{1/3}$$

$$a_4 = n_a [(5,645x - 2,666 + 2,570z) / y]$$

$$b_4 = n_b [(-1,871x + 1,457 - 3,861z) / y]$$

$$n_a = 1,40, n_b = 0,50$$

$$n = D50$$
- Wavelengths: $\lambda_{B,G,Y,R} = 475, 503, 574, 494, c \text{ nm}$
- Labels: Ostwald colours (o), $Y_w = 99,99$ max (m) chromatic value, D50 chroma (A^*, B_4)

Bottom Diagram (CIE64):

- Y-axis: B^* (ranging from -200 to 200)
- X-axis: A^* (ranging from -200 to 200)
- Label: CIE62
- Equations:

$$X_w = 96,31, Y_w = 99,99, Z_w = 82,24$$

$$x_w = 0,3457, y_w = 0,3589, z_w = 0,2952$$

$$A_4 = (a_4 - a_{4,w}) Y$$

$$B_4 = (b_4 - b_{4,w}) Y$$

$$a_4 = n_a [(5,645x - 2,666 + 2,570z) / y]$$

$$b_4 = n_b [(-1,871x + 1,457 - 3,861z) / y]$$

$$n_a = 1,40, n_b = 0,50$$

$$n = D50$$
- Wavelengths: $\lambda_{B,G,Y,R} = 475, 503, 574, 494, c \text{ nm}$
- Labels: Ostwald colours (o), $Y_w = 99,99$ max (m) chromatic value, D50 chromatic value (A_4, B_4)

TUB-test chart DE74; 4 CIE and 2 R17M observers, colorimetric calculations of chromatic values
purity definition: $a=1,4[5,645x-2,666+2,570z]/y$, $b=0,5[-1,871x+1,457-3,861z]/y$

see similar files: <http://farbe.li.tu-berlin.de/DE74/DE74L0NP.PDF> /
technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmatrik>

TUB registration: 20180801-DE74/DE74L0NP.PDF /.PS
application for measurement of offset print output

TUB material: code=rha4ta

CIE10 tristimulus values, chromatic values, and putities ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.										
no.	O	C	tristimulus values and chromaticities				nu-chromatic values			
	λ	X	Y	Z	x	y	z	x_{AB}	y_{AB}	z_{AB}
00	376	55.24	26.06	71.08	0.362	0.171	0.466	118.6	-66.2	135.9
01	458	13.22	7.40	75.87	0.136	0.076	0.786	15.9	-85.2	86.7
02	460	13.26	8.89	77.33	0.133	0.089	0.777	10.0	-85.2	85.8
03	462	13.28	10.68	78.42	0.129	0.104	0.765	2.9	-84.4	84.5
04	468	13.28	10.68	78.42	0.129	0.104	0.765	2.9	-84.4	84.5
05	468	13.66	17.92	80.19	0.122	0.160	0.717	-24.0	-78.1	81.8
06	471	14.70	24.41	80.73	0.122	0.203	0.673	-45.2	-71.4	84.5
07	473	15.60	28.17	80.89	0.125	0.225	0.648	-56.2	-67.3	87.7
08	475	18.32	36.37	81.08	0.134	0.267	0.597	-77.1	-58.5	96.7
09	477	22.35	45.10	81.16	0.150	0.303	0.546	-94.5	-49.1	106.5
10	477C	22.35	45.10	81.16	0.150	0.303	0.546	-94.5	-49.1	106.5
11	479	27.82	53.94	81.17	0.170	0.331	0.498	-106.4	-39.9	113.6
12	480	30.64	58.21	79.19	0.182	0.346	0.471	-111.1	-33.1	115.9
13	484	25.67	56.42	59.80	0.180	0.397	0.421	-122.2	-10.8	122.7
14	492	22.50	56.65	38.03	0.192	0.483	0.324	-133.4	16.2	134.4
15	503	21.56	57.40	24.28	0.208	0.555	0.235	-138.4	33.8	142.5
16	512G	22.19	58.45	18.53	0.223	0.589	0.186	-139.1	41.8	145.3
17	521	24.28	60.61	13.79	0.246	0.614	0.139	-138.2	49.6	146.9
18	531	29.00	64.47	10.07	0.280	0.622	0.097	-133.2	57.6	145.1
19	541	41.29	73.93	10.07	0.330	0.589	0.080	-118.6	66.2	135.9
20	563	83.41	92.59	5.28	0.460	0.510	0.029	-15.8	85.2	86.7
21	564	83.37	91.09	3.82	0.467	0.510	0.021	-9.9	85.2	85.8
22	565	83.35	89.31	2.74	0.475	0.509	0.015	-2.9	84.4	84.5
23	565Y	83.35	89.31	2.74	0.475	0.509	0.015	-2.9	84.4	84.5
24	568	82.96	82.07	0.96	0.490	0.494	0.005	24.0	78.1	81.8
25	571	81.93	75.58	0.44	0.518	0.478	0.002	45.3	71.3	84.5
26	573	81.03	71.82	0.27	0.529	0.469	0.001	56.3	67.3	87.7
27	577	78.31	63.62	0.08	0.551	0.447	0.000	71.7	58.4	96.8
28	581	74.28	54.89	0.01	0.575	0.424	0.000	94.5	49.1	106.6
29	581R	74.28	54.89	0.01	0.575	0.424	0.000	94.5	49.1	106.6
30	587	68.81	46.05	0.00	0.599	0.400	0.000	106.4	39.9	113.6
31	589	67.60	44.04	0.93	0.600	0.391	0.008	109.1	36.6	115.1
32	692	70.96	43.57	21.37	0.522	0.320	0.157	122.2	10.8	122.7
33	697	74.12	43.34	43.14	0.461	0.269	0.268	133.4	-16.2	134.4
34	708	75.07	42.59	56.88	0.434	0.244	0.325	138.4	-33.8	142.5
35	717	74.44	41.54	62.63	0.416	0.232	0.350	139.2	-41.8	145.3
36	726	72.35	39.38	67.37	0.403	0.219	0.376	138.3	-49.6	146.9
37	736	67.62	35.52	71.08	0.388	0.203	0.408	133.2	-57.7	145.3
38	745	55.24	26.06	71.08	0.362	0.171	0.466	118.6	-66.2	135.9
39	823	13.22	7.40	75.87	0.136	0.076	0.786	15.9	-85.2	86.7
40	D50	96.63	100.00	81.17	0.347	0.359	0.359	0.0	0.0	0.0
$a^*_{D50} = a^*_{D50} = 1.4[(5.645x - 2.666 + 2.570z)/y]$ $A^*_{D50} = (a^*_{D50})^2$ $C^*_{AB,D50} = [A^*_{D50} + B^*_{D50}]^{1/2}$ $b^*_{D50} = b^*_{D50} = 0.5[(-1.871x + 1.457 - 3.861z)/y]$ $B^*_{D50} = (b^*_{D50})^2$ $H^*_{AB,D50} = \text{atan2}(B^*_{D50}, A^*_{D50})$										

CIE10 tristimulus values, chromatic values, and putities ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.										
no.	O	C	n-purities			n-purities				
λ	X	Y	Z	x	y	z	x_{AB}	y_{AB}	z_{AB}	h_{AB}
00	376	26.06	4.74	-2.98	5.60	327	4.55	-2.54	5.21	330
01	458	7.40	2.34	-1.96	12.19	281	2.15	-11.52	11.72	280
02	460	8.89	1.31	-10.02	10.11	277	1.12	-9.58	9.64	276
03	462	10.68	0.46	-8.35	8.36	273	0.27	-7.90	7.91	272
04	468	10.68	0.46	-8.35	8.36	273	0.27	-7.90	7.91	272
05	468	17.92	-1.15	-4.81	4.94	256	-1.34	-4.36	4.55	252
06	471	24.41	-1.66	-3.37	3.76	243	-1.85	-2.92	3.46	237
07	473	28.17	-1.80	-2.83	3.36	237	-1.99	-2.39	3.11	230
08	475	36.37	-1.93	-2.05	2.82	226	-2.12	-1.60	2.66	217
09	477	45.10	-1.90	-1.53	2.44	218	-2.09	-1.09	2.36	207
10	477C	45.10	-1.90	-1.53	2.44	218	-2.09	-1.09	2.36	207
11	479	53.94	-1.78	-1.18	2.14	213	-1.97	-0.74	2.10	200
12	480	58.21	-1.71	-1.01	1.99	210	-1.90	-0.56	1.99	196
13	484	56.42	-1.97	-0.63	2.07	197	-2.16	-0.19	2.17	185
14	492	56.65	-2.06	-0.28	1.64	184	-2.35	0.28	2.37	173
15	503	57.40	-2.22	0.14	2.22	176	-2.41	0.58	2.48	163
16	512G	58.45	-2.19	0.26	2.20	173	-2.38	0.71	2.48	163
17	521	60.61	-2.09	0.37	2.12	169	-2.28	0.81	2.42	160
18	531	64.47	-1.87	0.44	1.92	166	-2.06	0.89	2.25	156
19	541	73.93	-1.48	0.54	1.63	152	-1.60	0.89	1.83	150
20	563	92.59	0.01	0.47	0.47	87	-0.17	0.92	0.93	100
21	564	91.09	0.07	0.48	0.49	80	-0.10	0.93	0.94	96
22	565	89.31	0.15	0.49	0.52	72	-0.03	0.94	0.94	91
23	565Y	89.31	0.15	0.49	0.52	72	-0.03	0.94	0.94	91
24	568	82.07	0.48	0.50	0.69	46	0.29	0.95	0.90	72
25	571	75.58	0.78	0.49	0.93	32	0.59	0.94	1.11	57
26	573	71.82	0.97	0.49	1.09	26	0.78	0.93	1.22	50
27	577	63.62	1.40	0.47	1.47	18	1.21	0.91	1.52	37
28	581	54.89	1.91	0.44	1.96	13	1.72	0.89	1.94	27
29	581R	54.89	1.91	0.44	1.96	13	1.72	0.89	1.94	27
30	587	46.05	2.50	0.41	2.53	9	2.31	0.86	2.46	28
31	589	44.04	2.66	0.38	2.69	8	2.47	0.83	2.61	26
32	692	43.57	2.99	-0.19	3.00	356	2.80	0.24	2.81	5
33	697	43.34	3.26	-0.82	3.36	345	3.07	-0.37	3.10	353
34	708	42.59	3.44	-1.24	3.65	340	3.25	-0.79	3.34	346
35	717	41.54	3.54	-1.45	3.82	337	3.35	-1.00	3.49	343
36	726	39.38	3.70	-1.70	4.07	335	3.51	-1.26	3.73	338
37	736	35.52	3.94	-2.07	4.45	332	3.75	-1.62	4.08	336
38	745	26.06	4.74	-2.98	5.60	327	4.55	-2.54	5.21	330
39	823	7.40	2.34	-1.96	12.19	281	2.15	-11.52	11.72	280
40	D50	100.00	0.189	-0.447	0.485	292	0.0	0.0	0.0	0
$a^*_{D50} = a^*_{D50} = 1.4[(5.645x - 2.666 + 2.570z)/y]$ $A^*_{D50} = (a^*_{D50})^2$ $C^*_{AB,D50} = [A^*_{D50} + B^*_{D50}]^{1/2}$ $b^*_{D50} = b^*_{D50} = 0.5[(-1.871x + 1.457 - 3.861z)/y]$ $B^*_{D50} = (b^*_{D50})^2$ $H^*_{AB,D50} = \text{atan2}(B^*_{D50}, A^*_{D50})$										

CIE10 tristimulus values, chromatic values, and putities ($n=1.4, n_0=0.5$).											
Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by hue angle											
no.	O	C	n-purities			m-purities					
λ	X	Y	Z	x	y	x_{AB}	y_{AB}	z_{AB}	x_{AB}	y_{AB}	z_{AB}
00	692	43.57	2.99	-0.19	3.00	356	2.80	0.24	2.81	905	353
01	697	43.34	3.26	-0.82	3.36	345	3.07	-0.37	3.10	963	345
02	708	42.59	3.44	-1.24	3.65	340	3.25	-0.79	3.34	964	346
03	717	41.54	3.54	-1.45	3.82	337	3.35	-1.00	3.49	948	349
04	726	39.38	3.70	-1.70	4.07	335	3.51	-1.26	3.73	948	349
05	736	35.52	3.94	-2.07	4.45	332	3.75	-1.62	4.08	936	336
06	376	26.06	4.74	-2.98	5.60	327	4.55	-2.54	5.21	930	330
07	458	7.40	2.34	-1.96	12.19	281	2.15	-1.52	11.72	884	276
08	460	8.89	1.31	-10.02	10.11	277	1.12	-9.58	9.64	876	276
09	462	10.68	0.46	-8.35	8.36	273	0.27	-7.90	7.91	876	276
10	462	10.68	0.46	-8.35	8.36	273	0.27	-7.90	7.91	272	272
11	468	17.92	-1.15	-4.81	4.94	256	-1.34	-4.36	4.56	252	252
12	471	24.41	-1.66	-3.37	3.76	243	-1.85	-2.92	3.46	237	237
13	473	28.17	-1.80	-2.83	3.36	237	-1.99	-2.39	3.11	230	230
14	475	36.37	-1.93	-2.05	2.82	226	-2.12	-1.60	2.66	217	217
15	477	45.10	-1.90	-1.53	2.44	218	-2.09	-1.09	2.36	207	207
16	477C	45.10	-1.90	-1.53	2.44	218	-2.09	-1.09	2.36	207	207
17	479	53.94	-1.78	-1.18	2.14	213	-1.97	-0.74	2.10	200	200
18	480	58.21	-1.71	-1.01	1.99	210	-1.90	-0.56	1.99	200	200
19	484	56.42	-1.97	-0.63	2.07	197	-2.16	-0.19	2.17	185	185
20	492	56.65	-2.06	-0.28	1.64	184	-2.35	0.28	2.37	173	173
21	503	57.40	-2.22	0.14	2.22	176	-2.41	0.58	2.48	166	166
22	512	58.45	-2.19	0.26	2.20	173	-2.38	0.71	2.48	163	163
23	521	60.61	-2.09	0.37	2.12	169	-2.28	0.81	2.42	163	163
24	531	64.47	-1.87	0.44	1.92	166	-2.06	0.89	2.25	156	156
25	541	73.93	-1.41	0.44	1.48	162	-1.60	0.89	1.83	150	150
26	563	92.59	0.01	0.47	0.47	87	-0.17	0.92	0.93	105	105
27	564	91.09	0.07	0.48	0.49	82	-0.10	0.93	0.94	96	96
28	565	91.15	0.15	0.48	0.50	77	-0.05	0.94	0.94	96	96
29	565	89.31	0.15	0.45	0.52	72	-0.03	0.94	0.94	91	91
30	568	82.07	0.48	0.50	0.69	46	0.29	0.95	0.99	72	72
31	571	75.18	0.78	0.49	0.93	32	0.59	0.94	1.11	57	57
32	573	71.82	0.97	0.49	1.09	26	0.78	0.93	1.22	50	50
33	575	67.82	1.15	0.49	1.24	20	0.93	0.92	1.36	43	43
34	581	54.89	1.91	0.44	1.96	13	1.72	0.89	1.94	27	27
35	581	54.89	1.91	0.44	1.96	13	1.72	0.89	1.94	27	27
36	587R	46.05	2.50	0.41	2.53	9	2.31	0.86	2.46	20	20
37	589	44.04	2.66	0.38	2.69	8	2.47	0.83	2.61	18	18
38	593	40.57	3.00	0.36	3.00	3	3.00	0.80	3.00	10	10
39	697	43.34	3.26	-0.82	3.36	345	3.07	-0.37	3.10	963	345

$U=D_{50}$ 100.00 1.00 0.485 2.267 0.447 0.85 2.92

$A_{AB} = 0.0$ 0.0 0.0 0.0 0.0 0.0 0.0

$C_{AB} = [A_{AB}^2 - B_{AB$

CIEF02 tristimulus values, chromatic values, and putities ($n_s=1.4$, $n_b=0.5$).
Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.

no.	O	C	tristimulus values and chromaticities	chromatic values	putities
			X Y Z x y z	A_m B_m C_m	A_{m0} B_{m0} C_{m0}
00	386		51.50 23.94 74.68 0.343 0.159 0.497	111.1 -72.0 132.4 327	
01	460		12.38 6.54 76.19 0.130 0.068 0.801	15.8 -86.3 87.8 280	
02	465		12.41 9.58 78.25 0.123 0.095 0.780	3.7 -85.2 85.3 272	
03	467		14.25 11.64 78.87 0.120 0.113 0.766	-4.2 -83.5 83.6 267	
04	473		13.31 20.43 79.83 0.117 0.179 0.702	-35.1 -74.4 82.3 244	
05	475		14.02 24.19 79.97 0.118 0.204 0.676	-46.9 -70.1 84.5 236	
06	479		17.82 36.91 80.16 0.132 0.273 0.594	-80.9 -56.2 98.5 214	
07	479		17.82 36.91 80.16 0.132 0.273 0.594	-80.9 -56.2 98.5 214	
08	481		21.98 46.03 80.19 0.148 0.310 0.541	-99.2 -46.2 109.4 205	
09	481		21.98 46.03 80.19 0.148 0.310 0.541	-99.2 -46.2 109.4 205	
10	483C		25.52 55.03 80.21 0.169 0.338 0.492	-111.3 -36.3 117.2 198	
11	484		28.85 57.21 79.07 0.174 0.346 0.478	-114.1 -33.0 118.8 196	
12	489		25.36 57.41 57.70 0.180 0.408 0.410	-126.6 -6.4 126.7 182	
13	497		22.33 57.50 36.81 0.191 0.492 0.315	-136.8 19.4 138.1 171	
14	505		21.31 58.03 24.30 0.205 0.559 0.234	-142.8 49.5 151.1 160	
15	512		21.41 58.69 18.79 0.216 0.593 0.190	-142.8 49.5 151.1 160	
16	521G		22.42 59.91 14.10 0.232 0.621 0.146	-142.8 49.5 151.1 160	
17	524		25.32 62.97 14.10 0.247 0.615 0.137	-142.8 49.5 151.1 160	
18	539		30.29 66.55 7.57 0.290 0.637 0.072	-135.0 63.6 149.3 154	
19	541		44.95 76.05 0.35 0.509 0.487 0.002	35.4 76.8 84.6 65	
20	568		84.08 93.45 4.02 0.463 0.514 0.022	-15.4 88.7 90.1 99	
21	568		84.08 93.45 4.02 0.463 0.514 0.022	-15.4 88.7 90.1 99	
22	569		84.05 90.41 1.96 0.476 0.512 0.011	-3.4 87.6 87.7 92	
23	570Y		84.00 88.35 1.33 0.483 0.508 0.007	-4.4 85.9 86.1 87	
24	573		83.15 79.56 0.38 0.509 0.487 0.002	35.4 76.8 84.6 65	
25	575		82.44 75.20 0.24 0.520 0.478 0.001	47.2 72.7 86.7 56	
26	580		78.64 63.07 0.05 0.554 0.444 0.000	81.2 58.5 100.1 35	
27	580		78.64 63.07 0.05 0.554 0.444 0.000	81.2 58.5 100.1 35	
28	585		74.48 53.96 0.02 0.579 0.420 0.000	99.5 48.6 110.7 26	
29	591		68.94 44.96 0.00 0.605 0.394 0.000	111.6 35.4 119.8 17	
30	592		67.61 42.78 1.14 0.606 0.383 0.010	114.4 35.4 119.8 17	
31	694		71.10 42.58 22.52 0.522 0.312 0.165	126.9 8.7 127.2 3	
32	702		74.12 42.49 43.40 0.463 0.265 0.271	137.0 -17.0 138.1 352	
33	710		75.15 41.96 55.91 0.434 0.242 0.323	141.7 -32.9 145.5 346	
34	717		75.05 41.30 61.43 0.422 0.232 0.345	143.1 -40.3 148.7 344	
35	726G		74.04 40.08 66.11 0.410 0.222 0.366	143.1 -40.3 148.7 344	
36	729		71.14 37.02 66.11 0.408 0.212 0.379	143.0 -50.2 151.5 340	
37	744		66.16 33.43 72.64 0.384 0.194 0.421	135.3 -61.2 148.5 335	
38	756		51.50 23.94 74.68 0.343 0.159 0.497	111.1 -72.0 132.4 327	
39	825		12.38 6.54 76.19 0.130 0.068 0.801	15.8 -86.3 87.8 280	
40	D50		96.46 100.00 82.22 0.346 0.358 0.358	0.0 0.0 0.0 0	

$a^*_{D50}=a^*_{m0}$, $b^*_{D50}=b^*_{m0}$, $c^*_{D50}=c^*_{m0}$, $A^*_{D50}=A^*_{m0}$, $B^*_{D50}=B^*_{m0}$, $C^*_{D50}=C^*_{m0}$
 $a^*_{D50}=a^*_{m0}$, $b^*_{D50}=b^*_{m0}$, $c^*_{D50}=c^*_{m0}$, $A^*_{D50}=A^*_{m0}$, $B^*_{D50}=B^*_{m0}$, $C^*_{D50}=C^*_{m0}$
 $a^*_{D50}=a^*_{m0}$, $b^*_{D50}=b^*_{m0}$, $c^*_{D50}=c^*_{m0}$, $A^*_{D50}=A^*_{m0}$, $B^*_{D50}=B^*_{m0}$, $C^*_{D50}=C^*_{m0}$

CIEF02 tristimulus values, chromatic values, and putities ($n_s=1.4$, $n_b=0.5$).
Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.

no.	O	C	tristimulus values and chromaticities	chromatic values	putities
			X Y Z x y z	A_m B_m C_m	A_{m0} B_{m0} C_{m0}
00	386		51.50 23.94 74.68 0.343 0.159 0.497	111.1 -72.0 132.4 327	
01	460		12.38 6.54 76.19 0.130 0.068 0.801	15.8 -86.3 87.8 280	
02	465		12.41 9.58 78.25 0.123 0.095 0.780	3.7 -85.2 85.3 272	
03	467		14.25 11.64 78.87 0.120 0.113 0.766	-4.2 -83.5 83.6 267	
04	473		13.31 20.43 79.83 0.117 0.179 0.702	-35.1 -74.4 82.3 244	
05	475		14.02 24.19 79.97 0.118 0.204 0.676	-46.9 -70.1 84.5 236	
06	479		17.82 36.91 80.16 0.132 0.273 0.594	-80.9 -56.2 98.5 214	
07	479		17.82 36.91 80.16 0.132 0.273 0.594	-80.9 -56.2 98.5 214	
08	481		21.98 46.03 80.19 0.148 0.310 0.541	-99.2 -46.2 109.4 205	
09	481		21.98 46.03 80.19 0.148 0.310 0.541	-99.2 -46.2 109.4 205	
10	483C		25.52 55.03 80.21 0.169 0.338 0.492	-111.3 -36.3 117.2 198	
11	484		28.85 57.21 79.07 0.174 0.346 0.478	-114.1 -33.0 118.8 196	
12	489		25.36 57.41 57.70 0.180 0.408 0.410	-126.6 -6.4 126.7 182	
13	497		22.33 57.50 36.81 0.191 0.492 0.315	-136.8 19.4 138.1 171	
14	505		21.31 58.03 24.30 0.205 0.559 0.234	-142.8 49.5 151.1 160	
15	512		21.41 58.69 18.79 0.216 0.593 0.190	-142.8 49.5 151.1 160	
16	521G		22.42 59.91 14.10 0.232 0.621 0.146	-142.8 49.5 151.1 160	
17	524		25.32 62.97 14.10 0.247 0.615 0.137	-142.8 49.5 151.1 160	
18	539		30.29 66.55 7.57 0.290 0.637 0.072	-135.0 63.6 149.3 154	
19	541		44.95 76.05 0.35 0.509 0.487 0.002	35.4 76.8 84.6 65	
20	568		84.08 93.45 4.02 0.463 0.514 0.022	-15.4 88.7 90.1 99	
21	568		84.08 93.45 4.02 0.463 0.514 0.022	-15.4 88.7 90.1 99	
22	569		84.05 90.41 1.96 0.476 0.512 0.011	-3.4 87.6 87.7 92	
23	570Y		84.00 88.35 1.33 0.483 0.508 0.007	-4.4 85.9 86.1 87	
24	573		83.15 79.56 0.38 0.509 0.487 0.002	35.4 76.8 84.6 65	
25	575		82.44 75.20 0.24 0.520 0.478 0.001	47.2 72.7 86.7 56	
26	580		78.64 63.07 0.05 0.554 0.444 0.000	81.2 58.5 100.1 35	
27	580		78.64 63.07 0.05 0.554 0.444 0.000	81.2 58.5 100.1 35	
28	585		74.48 53.96 0.02 0.579 0.420 0.000	99.5 48.6 110.7 26	
29	591		68.94 44.96 0.00 0.605 0.394 0.000	111.6 35.4 119.8 17	
30	592		67.61 42.78 1.14 0.606 0.383 0.010	114.4 35.4 119.8 17	
31	694		71.10 42.58 22.52 0.522 0.312 0.165	126.9 8.7 127.2 3	
32	702		74.12 42.49 43.40 0.463 0.265 0.271	137.0 -17.0 138.1 352	
33	710		75.15 41.96 55.91 0.434 0.242 0.323	141.7 -32.9 145.5 346	
34	717		75.05 41.30 61.43 0.422 0.232 0.345	143.1 -40.3 148.7 344	
35	726G		74.04 40.08 66.11 0.410 0.222 0.366	143.1 -40.3 148.7 344	
36	729		71.14 37.02 66.11 0.408 0.212 0.379	143.0 -50.2 151.5 340	
37	744		66.16 33.43 72.64 0.384 0.194 0.421	135.3 -61.2 148.5 335	
38	756		51.50 23.94 74.68 0.343 0.159 0.497	111.1 -72.0 132.4 327	
39	825		12.38 6.54 76.19 0.130 0.068 0.801	15.8 -86.3 87.8 280	
40	D50		96.46 100.00 82.22 0.346 0.358 0.358	0.0 0.0 0.0 0	

$a^*_{D50}=a^*_{m0}$, $b^*_{D50}=b^*_{m0}$, $c^*_{D50}=c^*_{m0}$, $A^*_{D50}=A^*_{m0}$, $B^*_{D50}=B^*_{m0}$, $C^*_{D50}=C^*_{m0}$
 $a^*_{D50}=a^*_{m0}$, $b^*_{D50}=b^*_{m0}$, $c^*_{D50}=c^*_{m0}$, $A^*_{D50}=A^*_{m0}$, $B^*_{D50}=B^*_{m0}$, $C^*_{D50}=C^*_{m0}$
 $a^*_{D50}=a^*_{m0}$, $b^*_{D50}=b^*_{m0}$, $c^*_{D50}=c^*_{m0}$, $A^*_{D50}=A^*_{m0}$, $B^*_{D50}=B^*_{m0}$, $C^*_{D50}=C^*_{m0}$

CIEF02 tristimulus values, chromatic values, and putities ($n_s=1.4$, $n_b=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by hue angle.										
no.	λ	C tristimulus values and chromaticities						chromatic values		
		X	Y	Z	x	y	z	A_m	B_m	C_m
00	592	67.61	42.78	1.14	0.606	0.383	0.010	114.4	35.4	119.8 17
01	694	71.10	42.58	22.52	0.522	0.312	0.165	126.9	8.7	127.2 3
02	702	74.12	42.49	43.40	0.463	0.265	0.271	137.0	-17.0	138.1 352
03	710	75.15	41.96	55.91	0.434	0.242	0.323	141.7	-32.9	145.5 346
04	717	75.05	41.30	61.43	0.422	0.232	0.345	143.1	-40.3	148.7 344
05	726G	74.04	40.08	66.11	0.410	0.222	0.366	143.1	-40.3	148.7 344
06	729	71.14	37.02	66.11	0.408	0.212	0.379	143.0	-50.2	151.5 340
07	744	66.16	33.43	72.64	0.384	0.194	0.421	135.3	-61.2	148.5 335
08	756	51.50	23.94	74.68	0.343	0.159	0.497	111.1	-72.0	132.4 327
09	825	12.38	6.54	76.19	0.130	0.068	0.801	15.8	-86.3	87.8 280
10	465	12.41	9.58	78.25	0.123	0.095	0.780	3.7	-85.2	85.3 272
11	467	12.45	11.64	78.87	0.120	0.113	0.766	-4.2	-83.5	83.6 267
12	473B	13.31	20.43	79.83	0.117	0.179	0.702	-35.1	-74.4	82.3 244
13	475	14.02	24.19	79.97	0.118	0.204	0.676	-46.9	-70.1	84.5 236
14	479	17.82	36.91	80.16	0.132	0.273	0.594	-80.9	-56.2	98.5 214
15	479	17.82	36.91	80.16	0.132	0.273	0.594	-80.9	-56.2	98.5 214
16	481	21.98	46.03	80.19	0.148	0.310	0.541	-99.2	-46.2	109.4 205
17	481	21.98	46.03	80.19	0.148	0.310	0.541	-99.2	-46.2	109.4 205
18	483C	25.52	55.03	80.21	0.169	0.338	0.492	-111.3	-36.3	117.2 198
19	484	28.85	57.21	79.07	0.174	0.346	0.478	-114.1	-33.0	118.8 196
20	489	25.36	57.41	57.70	0.180	0.408	0.410	-126.6	-6.4	126.7 182
21	497	22.33	57.50	36.81	0.191	0.492	0.315	-136.8	19.4	138.1 171
22	505	21.31	58.03	24.30	0.205	0.559	0.234	-142.8	49.5	151.1 160
23	512G	21.41	58.69	18.79	0.216	0.593	0.190	-142.8	49.5	151.1 160
24	521	22.42	59.91	14.10	0.232	0.621	0.146	-142.8	49.5	151.1 160
25	524	25.32	62.97	14.10	0.247	0.615	0.137	-142.8	52.6	152.0 155
26	539	30.29	66.55	7.57	0.290	0.637	0.072	-135.0	63.6	149.3 154
27	541	44.95	76.05	0.35	0.509	0.487	0.002	35.4	76.8	84.6 65
28	568	84.08	93.45	4.02	0.463	0.514	0.022	-15.4	88.7	90.1 99
29	568	84.08	93.45	4.02	0.463	0.514	0.022	-15.4	88.7	90.1 99
30	569	84.05	90.41	1.96	0.476	0.512	0.011	-3.4	87.6	87.7 92
31	570	84.00	88.35	1.33	0.483	0.508	0.007	-4.4	85.9	86.1 87
32	573Y	83.15	79.56	0.38	0.509	0.487	0.002	35.4	76.8	84.6 65
33	574	75.40	75.80	0.00	0.550	0.441	0.001	87.2	78.7	87.7 66
34	580	78.64	63.07	0.05	0.554	0.400	0.000	81.5	85.8	100.1 33
35	580	78.64	63.07	0.05	0.554	0.400	0.000	81.5	85.8	100.1 33
36	585R	74.48	53.96	0.02	0.579	0.420	0.000	99.5	48.6	110.7 26
37	590	70.81	47.91	0.01	0.590	0.400	0.000	114.2	47.9	119.8 19
38	592	67.61	42.78	1.14	0.606	0.383	0.010	114.4	35.4	119.8 17
39	694	71.10	42.58	22.52	0.522	0.312	0.165	126.9	8.7	127.2 3
U-D50 96.46 100.00 82.22 0.344 0.558 0.358 0.0 0.0 0.0										
$a_m = a_m - a_n$ $b_m = b_m - b_n$ $c_m = c_m - c_n$ $A_m = (a_m - a_n) / Y_{CA}$ $B_m = (b_m - b_n) / Y_{CA}$ $C_m = (c_m - c_n) / Y_{CA}$										
$a_{m0} = a_m - a_{n0}$ $b_{m0} = b_m - b_{n0}$ $c_{m0} = c_m - c_{n0}$ $A_{m0} = (a_{m0} - a_{n0}) / Y_{CA0}$ $B_{m0} = (b_{m0} - b_{n0}) / Y_{CA0}$ $C_{m0} = (c_{m0} - c_{n0}) / Y_{CA0}$										
DE70 ΔE^*_{ab} ΔE^*_{ab} ΔE^*_{ab}										

see similar files: <http://farbe.li.tu-berlin.de/DE74/DE74L0NP.PDF> / .PS
 technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmnetik>

TUB registration: 20180801-DE74/DE74L0NP.PDF /.PS
 application for measurement of offset print output

TUB material: code=rha4ta

CIEF10 tristimulus values, chromatic values, and putities ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.										
no.	O	C	tristimulus values and chromaticities	chromatic values			putities			
			X Y Z x y z	A_{44}	B_{44}	C_{44}	A_{44}	B_{44}	C_{44}	H_{44}
00 380	52.92	25.78	74.65 0.345 0.168 0.486	109.4	-70.4	130.1	327			
01 455	13.14	6.61	74.65 0.139 0.070 0.790	18.8	-84.7	86.7	282			
02 460	13.28	9.49	77.94 0.131 0.094 0.773	7.6	-85.3	85.6	275			
03 462	13.30	11.32	78.97 0.128 0.109 0.762	0.4	-84.4	84.4	270			
04 464	13.34	13.45	79.69 0.125 0.126 0.748	-7.8	-82.7	83.1	264			
05 468	13.69	16.87	80.47 0.121 0.165 0.713	-27.0	-77.6	82.2	250			
06 471	14.73	25.21	80.80 0.121 0.208 0.669	-48.4	-70.5	85.5	235			
07 472	15.63	28.96	80.89 0.124 0.230 0.644	-59.3	-66.4	89.1	228			
08 475	18.33	37.06	80.98 0.134 0.271 0.593	-79.9	-57.6	98.5	215			
09 477	22.39	45.70	81.01 0.150 0.306 0.543	-96.9	-48.3	108.3	206			
10 477C	24.94	50.08	81.01 0.159 0.320 0.519	-103.4	-43.7	112.3	202			
11 479	30.58	58.60	78.68 0.182 0.349 0.468	-113.1	-32.1	117.5	195			
12 479	29.07	56.38	80.12 0.175 0.340 0.483	-110.8	-36.1	116.6	198			
13 484	25.63	56.72	99.32 0.180 0.400 0.418	-123.7	-10.0	124.1	184			
14 492	22.37	56.85	36.73 0.192 0.490 0.316	-134.8	17.9	136.0	172			
15 503	21.57	57.63	22.95 0.211 0.564 0.224	-139.3	35.6	143.8	165			
16 511G	22.30	58.68	17.25 0.227 0.597 0.175	-139.7	43.5	146.3	162			
17 521	24.56	60.88	12.62 0.250 0.620 0.128	-138.2	51.2	147.4	159			
18 532	29.89	65.12	9.04 0.287 0.625 0.086	-132.2	59.4	145.0	155			
19 545	43.82	74.21	6.37 0.352 0.596 0.051	-109.4	70.4	130.1	141			
20 563	83.59	93.38	6.37 0.455 0.509 0.034	-18.8	84.6	86.7	102			
21 564	83.45	90.50	3.08 0.471 0.511 0.017	-7.6	85.3	85.6	95			
22 565	83.43	88.67	2.06 0.479 0.509 0.011	-0.4	84.3	84.3	90			
23 566Y	83.40	86.54	1.34 0.486 0.505 0.007	7.8	82.7	83.1	84			
24 568	83.04	81.32	0.56 0.503 0.493 0.003	27.0	77.6	82.2	70			
25 571	82.00	74.78	0.23 0.522 0.476 0.001	48.4	70.5	85.5	55			
26 573	81.10	71.03	0.14 0.532 0.466 0.000	59.3	66.4	89.1	48			
27 577	78.40	62.93	0.05 0.554 0.445 0.000	79.9	57.6	98.5	35			
28 581	74.33	54.29	0.02 0.577 0.421 0.000	96.9	48.3	108.3	25			
29 584	71.79	49.91	0.01 0.589 0.410 0.000	103.4	43.7	112.3	22			
30 591	66.15	41.39	2.33 0.602 0.376 0.021	113.1	32.1	117.5	15			
31 588	67.67	43.61	0.91 0.603 0.388 0.008	110.9	36.1	116.6	18			
32 689	71.10	43.27	21.71 0.522 0.317 0.159	123.7	9.9	124.1	4			
33 697	74.36	43.14	44.30 0.459 0.266 0.273	134.8	-17.9	136.0	352			
34 708	75.16	42.36	58.08 0.428 0.241 0.330	139.3	-35.6	143.8	345			
35 716M	74.43	41.31	68.78 0.414 0.230 0.353	138.2	-51.2	147.4	339			
36 726	72.17	39.11	68.41 0.401 0.217 0.380	138.2	-59.4	145.0	335			
37 737	66.83	34.86	71.99 0.384 0.200 0.414	132.2	-59.4	145.0	333			
38 750	52.92	25.78	74.65 0.345 0.168 0.486	109.4	-70.4	130.1	327			
39 820	13.14	6.61	74.65 0.139 0.070 0.790	18.8	-84.7	86.7	282			
U=D50	96.74	100.00	81.03 0.348 0.360 0.360	0.0	0.0	0.0				

$a^*_{D50}=1.4[(5.645x-2.666+2.570z)/y]$ $A_{44}=(a-a_4)/Y$ $C_{44}=[A_{44}^2+B_{44}^2+12]$
 $b^*_{D50}=0.5[(-1.871x+1.457-3.861z)/y]$ $B_{44}=(b-b_4)/Y$ $H_{44}=[A_{44}^2+B_{44}^2+12]$

CIEF10 tristimulus values, chromatic values, and putities ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.												
no.	O	C	n-purities					nu-purities				
			p_{λ}	p_{λ}	p_{λ}	p_{λ}	h_{λ}	p_{λ}	p_{λ}	p_{λ}	h_{λ}	
			p_{λ}	p_{λ}	p_{λ}	p_{λ}	h_{λ}	p_{λ}	p_{λ}	p_{λ}	h_{λ}	
00 380	25.78	4.44	1.47	1.56	3.46	324	4.24	-2.73	5.05	327		
01 455	6.61	3.04	-13.26	13.60	282		2.84	-12.81	13.12	282		
02 460	9.49	1.00	-9.43	9.48	276	0.80	-8.99	9.02	275			
03 462	11.32	0.23	-7.90	7.90	271	0.03	-7.45	7.45	270			
04 464	13.45	-0.39	-6.60	6.66	266	-0.58	-6.16	6.18	264			
05 468	18.67	-1.25	-4.60	4.77	254	-1.44	-4.15	4.40	250			
06 471	25.21	-1.72	-3.24	3.67	241	-1.91	-2.80	3.39	235			
07 472	28.96	-1.85	-2.74	3.31	235	-2.05	-2.29	3.07	228			
08 475	37.06	-1.96	-2.00	2.80	225	-2.15	-1.55	2.65	215			
09 477	45.70	-1.92	-1.50	2.44	217	-2.12	-1.05	2.37	206			
10 477C	50.08	-1.87	-1.31	2.29	215	-2.06	-0.87	2.24	202			
11 479	58.60	-1.73	-0.99	2.00	209	-1.93	-0.54	2.00	195			
12 479	56.38	-1.77	-1.08	2.07	211	-1.96	-0.64	2.06	198			
13 484	56.72	-1.98	-0.62	1.80	197	-2.18	-0.17	2.18	184			
14 492	56.85	-2.17	-0.12	1.18	183	-2.37	0.31	2.39	172			
15 503	57.63	-2.22	-0.17	1.23	175	-2.41	0.61	2.49	165			
16 511G	58.68	-2.18	0.29	1.22	172	-2.38	0.74	2.42	162			
17 521	60.88	-2.07	0.39	1.21	169	-2.27	0.84	2.42	159			
18 532	65.12	-1.83	0.46	1.89	165	-2.03	0.91	2.22	155			
19 545	74.21	-1.28	0.50	1.37	158	-1.47	0.94	1.95	147			
20 563	93.38	-0.00	0.46	0.46	0.90	-0.20	0.90	0.92	102			
21 564	90.50	0.10	0.49	0.50	0.77	-0.08	0.94	0.94	95			
22 565	88.67	0.18	0.50	0.54	0.69	-0.00	0.95	0.95	90			
23 566Y	86.54	0.28	0.51	0.58	0.60	0.09	0.95	0.96	84			
24 568	81.32	0.52	0.50	0.73	0.44	0.33	0.95	1.01	70			
25 571	74.78	0.84	0.49	0.97	0.30	0.64	0.94	1.14	55			
26 573	71.03	1.03	0.48	1.14	25	0.83	0.93	1.25	48			
27 577	62.93	1.46	0.46	1.53	17	1.27	0.91	1.56	35			
28 581	54.29	1.97	0.44	2.02	12	1.78	0.89	1.99	25			
29 584	49.91	2.26	0.43	2.30	10	2.07	0.87	2.25	22			
30 591	41.39	2.92	0.32	2.94	6	2.73	0.77	2.84	15			
31 588	43.61	2.73	0.38	2.76	7	2.54	0.82	2.67	18			
32 689	43.27	3.05	-0.21	3.06	355	2.86	0.23	2.86	4			
33 697	43.14	3.31	-0.86	3.43	345	3.12	-0.41	3.15	352			
34 708	42.36	3.48	-1.28	3.71	339	3.29	-0.84	3.39	345			
35 716M	41.31	3.57	-1.50	3.87	337	3.38	-1.05	3.54	342			
36 726	39.11	3.73	-1.75	4.12	334	3.53	-1.31	3.77	339			
37 737	34.86	3.98	-2.15	4.53	331	3.79	-1.70	4.15	335			
38 750	25.78	4.44	-3.16	5.46	324	4.24	-2.73	5.05	327			
39 820	6.61	3.04	-13.26	13.60	282	2.84	-12.81	13.12	282			
U=D50	100.00	0.193	-0.445	0.486	293	0.0	0.0	0.0	0.0			
$a^*_{D50}=1.4[(5.645x-2.666+2.570z)/y]$ $A_{44}=(a-a_4)/Y$ $C_{44}=[A_{44}^2+B_{44}^2+12]$ $b^*_{D50}=0.5[(-1.871x+1.457-3.861z)/y]$ $B_{44}=(b-b_4)/Y$ $H_{44}=[A_{44}^2+B_{44}^2+12]$												

CIEF10 tristimulus values, chromatic values, and putities ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by hue angle.										
no.	O	C	tristimulus values and chromaticities	chromatic values			putities			
			X Y Z x y z	A_{44}	B_{44}	C_{44}	A_{44}	B_{44}	C_{44}	
00 388	67.67	43.61	0.91 0.603 0.388 0.008	110.9	36.1	116.6	378			
01 689	71.10	43.27	21.71 0.522 0.317 0.159	123.7	9.9	124.1	364			
02 697	74.36	43.14	44.30 0.459 0.266 0.273	134.8	-17.9	136.0	352			
03 708	75.16	42.36	58.08 0.428 0.241 0.330	139.3	-35.6	143.8	345			
04 716	74.43	41.31	68.78 0.414 0.230 0.353	139.7	-43.6	144.8	340			
05 726M	72.17	39.11	68.41 0.401 0.217 0.380	138.2	-51.2	147.4	339			
06 737	66.83	34.86	71.99 0.384 0.200 0.414	132.2	-59.4	145.0	333			
07 380	52.92	25.78	74.65 0.345 0.168 0.486	109.4	-70.4	130.1	327			
08 455	13.14	6.61	74.65 0.139 0.070 0.793	18.8	-84.7	86.7	282			
09 460	13.28	9.49	77.94 0.131 0.094 0.773	7.6	-85.3	85.6	275			
10 462	13.30	11.32	78.97 0.128 0.109 0.762	0.4	-84.4	84.4	270			
11 464	13.34	13.45	79.69 0.125 0.126 0.748	-7.8	-82.7	83.1	264			
12 468B	13.69	16.87	80.47 0.121 0.165 0.713	-27.0	-77.6	82.2	250			
13 471	14.73	25.21	80.80 0.121 0.208 0.669	-48.4	-70.5	85.5	235			
14 472	15.63	28.96	80.89 0.124 0.230 0.644	-59.3	-66.4	89.1	228			
15 475	18.33	37.06	80.98 0.134 0.271 0.593	-79.9	-57.6	98.5	215			
16 477	22.39	45.70	81.01 0.150 0.306 0.543	-96.9	-48.3	108.3	206			
17 477C	24.94	50.08	81.01 0.159 0.320 0.519	-103.4	-43.7	112.3	202			
18 479C	30.58	58.60	78.68 0.182 0.349 0.468	-113.1	-32.1	117.5	195			
19 479	29.07	56.38	80.12 0.175 0.340 0.483	-110.8	-36.1	116.6	198			
20 484	25.63	56.72	99.32 0.180 0.400 0.418	-123.7	-10.0	124.1	184			
21 492	22.37	56.85	36.73 0.192 0.490 0.316	-134.8	17.9	136.0	177			
22 510	15.57	57.63	22.95 0.211 0.564 0.224	-139.3	35.6	143.8	166			
23 511C	22.30	59.68	12.62 0.221 0.597 0.207	-143.1	48.4	145.0	159			
24 521	24.56	60.88	12.62 0.250 0.620 0.128	-138.2	51.2	147.4	155			
25 532	25.48	62.15	9.02 0.287 0.625 0.086	-132.2	59.4	145.0	151			
26 545	43.82	74.21	6.37 0.352 0.596 0.051	-109.4	70.4	130.1	141			
27 553	51.10	74.63	3.58 0.428 0.599 0.034	-84.4	84.7	86.7	130			
28 565	83.45	90.50	3.08 0.477 0.511 0.007	-7.6	85.3	85.6	123			
29 565	83.43	88.67	2.06 0.479 0.509 0.031	-0.4	84.3	84.3	90			
30 566	83.39	86.54	1.34 0.486 0.505 0.007	7.8	82.7	83.1	84			
31 568	83.04	81.32	0.56 0.503 0.493 0.003	27.0	-77.6	82.2	70			
32 569	80.00	74.78	0.23 0.522 0.476 0.001	48.4	-70.5	85.5	65			
33 573	81.20	71.10	0.17 0.541 0.461 0.000	59.3	-66.4	89.1	60			
34 577	78.40	62.93	0.05 0.554 0.445 0.000	79.9	-57.6	98.5	33			
35 581	74.33	54.29	0.02 0.577 0.421 0.000	96.9	-48.3	108.3	20			
36 584R	71.79	49.91	0.01 0.589 0.410 0.000	103.4	-43.7	112.3	20			
37 585	67.67	43.61	0.00 0.603 0.388 0.000	110.9	-36.1	116.6	11			
38 589	71.10	43.27	21.71 0.522 0.317 0.159	123.7	9.9	124.1	4			
$U=D_{50} \quad 96.74 \quad 100.00 \quad 81.03 \quad 0.348 \quad 0.360 \quad 0.360 \quad 0.00 \quad 0.00 \quad 0.00$ $B_{44}=(a-a_0)Y \quad C_{44}=(a-b)Y \quad A_{44}=(a-b)Y \quad B_{44}=(b-b_0)Y \quad h_{44}=(a-b)Y$ $D_{50}=(a-b)Y \quad D_{50}=(a-b)Y \quad D_{50}=(a-b)Y$										

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technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmnetik>

R17M tristimulus values, chromatic values, and putities ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.												
no.	O	C	tristimulus values and chromaticities			n-chromatic values			n-purities			
			X	Y	Z	x	y	z	λ_B	λ_C	λ_R	λ_{ab}
00	373		50.84	23.58	64.46	0.366	0.169	0.464	113.4	-60.5	128.6	331
01	450		26.22	10.37	70.14	0.245	0.097	0.657	60.4	-77.6	98.3	307
02	463		19.81	9.03	72.37	0.195	0.089	0.715	38.4	-80.5	89.3	295
03	465		19.87	11.18	74.25	0.188	0.106	0.705	30.2	-80.3	85.8	290
04	470B		20.04	16.46	77.00	0.176	0.145	0.678	10.4	-77.5	79.2	277
05	474		20.76	23.15	78.71	0.169	0.188	0.641	-12.2	-71.9	72.9	260
06	477		22.69	31.32	79.75	0.169	0.234	0.596	-35.5	-64.0	73.2	240
07	479		24.27	35.77	80.07	0.173	0.255	0.571	-45.9	-59.7	75.2	232
08	481		28.86	45.22	80.48	0.186	0.292	0.520	-62.8	-49.9	80.3	218
09	482		30.21	48.30	79.14	0.191	0.306	0.501	-68.8	-45.0	82.2	213
10	487C		31.73	48.90	65.44	0.186	0.348	0.465	-86.2	-27.0	90.4	197
11	496		20.48	50.06	44.06	0.178	0.436	0.384	-111.4	1.1	111.4	179
12	500		20.60	52.31	38.55	0.184	0.469	0.345	-118.7	10.4	119.2	174
13	509		19.40	53.50	28.42	0.191	0.528	0.280	-126.9	24.2	129.2	169
14	511		21.83	56.54	28.46	0.204	0.529	0.266	-128.3	27.2	131.2	168
15	518		24.65	60.36	24.01	0.226	0.553	0.220	-130.6	36.4	135.5	164
16	530G		29.99	65.40	16.35	0.268	0.585	0.146	-126.5	50.4	136.1	158
17	538		43.18	76.41	16.37	0.317	0.562	0.120	-113.4	60.5	128.6	151
18	553		67.80	89.62	10.69	0.403	0.533	0.063	-60.4	77.6	98.3	127
19	557		74.22	90.96	8.45	0.427	0.523	0.048	-59.9	80.5	89.3	115
20	558		74.15	88.81	6.58	0.437	0.523	0.038	-30.2	80.3	85.8	110
21	561		73.98	83.52	3.84	0.458	0.517	0.023	-10.4	77.4	78.1	97
22	565		73.26	76.83	2.11	0.481	0.504	0.013	12.3	71.9	72.9	80
23	570		71.33	68.67	1.09	0.505	0.486	0.007	35.5	64.0	73.2	60
24	572		69.75	64.22	0.76	0.517	0.476	0.005	45.9	59.7	75.2	52
25	578		65.16	54.77	0.35	0.541	0.455	0.002	62.8	49.9	80.3	38
26	581		63.81	51.69	1.69	0.544	0.441	0.014	86.2	45.0	82.2	33
27	600		67.89	51.09	15.38	0.505	0.380	0.114	86.2	27.0	90.4	17
28	705		73.42	47.68	42.28	0.449	0.291	0.258	118.7	-10.4	119.2	354
29	717		74.62	46.49	52.41	0.430	0.267	0.302	126.9	-24.2	129.2	349
30	716		72.19	43.45	52.37	0.429	0.258	0.311	128.3	-27.2	131.2	348
31	723		69.37	39.63	56.82	0.418	0.238	0.342	130.6	-36.4	135.5	344
32	735		64.03	34.59	64.49	0.392	0.212	0.395	126.5	-50.4	136.2	338
33	743		50.84	23.58	64.46	0.366	0.169	0.464	113.4	-60.5	128.6	331
34	745		26.22	10.37	70.14	0.245	0.097	0.657	60.4	-77.6	98.3	307
U=D50			94.03	100.00	80.83	0.342	0.363	0.363	0.0	0.0	0.0	0
DE740-3N												
$a^*_{nm} = n_a n_b n_c = 1.4 [(5.645x - 2.666 + 2.570z)/y]$ $A_{nm} = (a^*_{nm}) Y$ $C_{ABnm} = [A^2_{nm} + B^2_{nm}]^{1/2}$ $b^*_{nm} = n_a n_b n_c = 0.5 [(-1.871x + 1.457 - 3.861z)/y]$ $B_{nm} = (b^*_{nm}) Y$ $h_{ABnm} = \text{atan2}[B_{nm}/A_{nm}]$												

R17M tristimulus values, chromatic values, and putities ($n=1.4, n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.												
no.	O	C	tristimulus values and chromaticities			n-chromatic values			n-purities			
			X	Y	Z	x	y	z	λ_B	λ_C	λ_R	λ_{ab}
00	373		50.84	23.58	64.46	0.366	0.169	0.464	113.4	-60.5	128.6	331
01	450		26.22	10.37	70.14	0.245	0.097	0.657	60.4	-77.6	98.3	307
02	463		19.81	9.03	72.37	0.195	0.089	0.715	38.4	-80.5	89.3	295
03	465		19.87	11.18	74.25	0.188	0.106	0.705	30.2	-80.3	85.8	290
04	470B		20.04	16.46	77.00	0.176	0.145	0.678	10.4	-77.5	79.2	277
05	474		20.76	23.15	78.71	0.169	0.188	0.641	-12.2	-71.9	72.9	260
06	477		22.69	31.32	79.75	0.169	0.234	0.596	-35.5	-64.0	73.2	240
07	479		24.27	35.77	80.07	0.173	0.255	0.571	-45.9	-59.7	75.2	232
08	481		28.86	45.22	80.48	0.186	0.292	0.520	-62.8	-49.9	80.3	218
09	482		30.21	48.30	79.14	0.191	0.306	0.501	-68.8	-45.0	82.2	213
10	487C		31.73	48.90	65.44	0.186	0.348	0.465	-86.2	-27.0	90.4	197
11	496		20.48	50.06	44.06	0.178	0.436	0.384	-111.4	1.1	111.4	179
12	500		20.60	52.31	38.55	0.184	0.469	0.345	-118.7	10.4	119.2	174
13	509		19.40	53.50	28.42	0.191	0.528	0.280	-126.9	24.2	129.2	169
14	511		21.83	56.54	28.46	0.204	0.529	0.266	-128.3	27.2	131.2	168
15	518		24.65	60.36	24.01	0.226	0.553	0.220	-130.6	36.4	135.5	164
16	530G		29.99	65.40	16.35	0.268	0.585	0.146	-126.5	50.4	136.1	158
17	538		43.18	76.41	16.37	0.317	0.562	0.120	-113.4	60.5	128.6	151
18	553		67.80	89.62	10.69	0.403	0.533	0.063	-60.4	77.6	98.3	127
19	557		74.22	90.96	8.45	0.427	0.523	0.048	-59.9	80.5	89.3	115
20	558		74.15	88.81	6.58	0.437	0.523	0.038	-30.2	80.3	85.8	110
21	561		73.98	83.52	3.84	0.458	0.517	0.023	-10.4	77.4	78.1	97
22	565		73.26	76.83	2.11	0.481	0.504	0.013	12.3	71.9	72.9	80
23	570		71.33	68.67	1.09	0.505	0.486	0.007	35.5	64.0	73.2	60
24	572		69.75	64.22	0.76	0.517	0.476	0.005	45.9	59.7	75.2	52
25	578		65.16	54.77	0.35	0.541	0.455	0.002	62.8	49.9	80.3	38
26	581		63.81	51.69	1.69	0.544	0.441	0.014	86.2	45.0	82.2	33
27	600		67.89	51.09	15.38	0.505	0.380	0.114	86.2	27.0	90.4	17
28	705		73.42	47.68	42.28	0.449	0.291	0.258	118.7	-10.4	119.2	354
29	717		74.62	46.49	52.41	0.430	0.267	0.302	126.9	-24.2	129.2	349
30	716		72.19	43.45	52.37	0.429	0.258	0.311	128.3	-27.2	131.2	348
31	723		69.37	39.63	56.82	0.418	0.238	0.342	130.6	-36.4	135.5	344
32	735		64.03	34.59	64.49	0.392	0.212	0.395	126.5	-50.4	136.2	338
33	743		50.84	23.58	64.46	0.366	0.169	0.464	113.4	-60.5	128.6	331
34	745		26.22	10.37	70.14	0.245	0.097	0.657	60.4	-77.6	98.3	307
U=D50			100.00	0.001	-0.437	0.445	280	0.0	0.0	0.0	0.0	0
DE740-4N												
$a^*_{nm} = n_a n_b n_c = 1.4 [(5.645x - 2.666 + 2.570z)/y]$ $A_{nm} = (a^*_{nm}) Y$ $C_{ABnm} = [A^2_{nm} + B^2_{nm}]^{1/2}$ $b^*_{nm} = n_a n_b n_c = 0.5 [(-1.871x + 1.457 - 3.861z)/y]$ $B_{nm} = (b^*_{nm}) Y$ $h_{ABnm} = \text{atan2}[B_{nm}/A_{nm}]$												

DE740-3N

R17M tristimulus values, chromatic values, and putities ($n=1.4$, $n_0=0.5$).

Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by hue angle.

no.	O	C	tristimulus values and chromaticities			n-chromatic values			n-purities			
			X	Y	Z	x	y	z	λ_B	λ_C	λ_R	λ_{ab}
00	600		67.89	51.09	15.38	0.505	0.380	0.114	86.2	27.0	90.4	377
01	705		73.42	47.68	42.28	0.449	0.291	0.258	118.7	-10.4	119.2	354
02	714		74.62	46.49	52.41	0.430	0.267	0.302	126.9	-24.2	129.2	349
03	716		72.19	43.45	52.37	0.429	0.258	0.311	128.3	-27.2	131.2	348
04	723		69.37	39.63	56.82	0.418	0.238	0.342	130.6	-36.4	135.5	344
05	735G		64.03	34.59	64.49	0.392	0.212	0.395	126.5	-50.4	136.2	338
06	373		50.84	23.58	64.46	0.366	0.169	0.464	113.4	-60.5	128.6	331
07	450		26.22	10.37	70.14	0.245	0.097	0.657	60.4	-77.6	98.3	307
08	463		19.81	9.03	72.37	0.195	0.089	0.715	38.4	-80.5	89.3	295
09	465		19.87	11.18	74.25	0.188	0.106	0.705	30.2	-80.3	85.8	290
10	470		20.04	16.46	77.00	0.176	0.145	0.678	10.4	-77.5	79.2	277
11	474		20.76	23.15	78.71	0.169	0.188	0.641	-12.2	-71.9	72.9	266
12	477B		22.31	31.72	79.37	0.162	0.234	0.596	-35.5	-64.0	73.2	240
13	478		24.34	35.77	80.07	0.160	0.255	0.571	-59.9	-59.5	55.2	232
14	482		28.86	45.22	80.48	0.168	0.292	0.520	-62.8	-48.9	48.8	218
15	482		30.21	48.30	79.14	0.191	0.306	0.501	-68.8	-45.0	82.2	213
16	487		26.13	48.90	65.44	0.186	0.348	0.465	-68.2	-27.0	90.4	197
17	496		20.48	50.06	44.06	0.178	0.436	0.384	-111.4	-1.4	110.4	179
18	500		15.60	52.31	38.55	0.184	0.465	0.345	-118.7	-10.4	119.2	171
19	509		10.40	53.50	28.42	0.191	0.528	0.289	-128.3	-27.2	131.2	166
20	511		21.83	56.54	28.46	0.204	0.529	0.266	-120.8	-27.2	131.2	168
21	518		24.65	56.36	24.01	0.226	0.553	0.220	-130.3	-36.4	135.5	164
22	530		29.99	65.40	16.35	0.268	0.585	0.146	-126.5	50.4	136.2	158
23	536E		34.18	70.41	9.37	0.317	0.562	0.130	-113.4	60.5	128.6	151
24	553		60.89	89.62	10.69	0.403	0.533	0.063	-60.4	77.6	98.3	127
25	557		74.22	90.96	8.45	0.427	0.523	0.048	-38.4	80.5	89.3	115
26	558		74.15	88.81	6.58	0.437	0.523	0.038	-30.2	80.3	85.8	110
27	561		73.98	83.52	3.84	0.458	0.517	0.033	-10.4	77.4	78.1	107
28	568		70.83	76.83	1.95	0.480	0.504	0.031	30.2	72.9	80.5	102
29	570		71.33	68.67	1.09	0.505	0.486	0.007	35.5	64.0	73.2	60
30	572		69.75	64.22	0.76	0.517	0.476	0.005	45.9	59.5	75.2	52
31	578		65.16	54.77	0.35	0.541	0.455	0.002	62.8	49.0	80.3	38
32	579B		63.81	51.69	0.16	0.544	0.441	0.014	68.8	45.0	82.2	33
33	600		67.89	51.09	15.38	0.505	0.380	0.114	86.2	27.0	90.4	377
34	705		73.42	47.68	42.28	0.449	0.291	0.258	118.7	-10.4	119.2	-5

D=50 94.03 100.00 80.83 0.342 0.363 0.363

$$a^* = m_{ab} n_{ab} = 1.4[(5.645x - 2.666z + 2.570y) / y]$$

$$b^* = m_{ab} n_{ab} = 0.5(-1.871x + 1.457 - 3.861z) / y$$

$$C_{AB} = (a^* - a^*_0) / Y$$

$$C_{AB} = (b^* - b^*_0) / Y$$

$$C_{AB} = (a^*_{AB} + b^*_{AB}) / Y_{AB}$$

$$C_{AB} = (a^*_{AB} - b^*_{AB}) / Y_{AB}$$

DE740-3N

R17Ms tristimulus values, chromatic values, and putities ($n=1.4$, $n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.											
no.	O	C	tristimulus values and chromaticities			nu-chromatic values			nu-putities		
			X	Y	Z	x	y	z	X	Y	Z
00 375	52.09	25.14	67.62	0.359	0.173	0.466	112.5	-62.7	128.8	330	0
01 444	27.16	9.33	67.62	0.260	0.089	0.649	68.7	-76.0	102.4	312	0
02 463	21.19	9.55	72.48	0.205	0.092	0.702	42.3	-80.3	90.8	297	0
03 465	22.27	11.71	74.36	0.198	0.109	0.692	34.1	-80.1	87.1	293	0
04 470	21.43	17.01	77.11	0.185	0.147	0.667	14.3	-77.2	78.6	280	0
05 474	21.29	23.68	78.83	0.177	0.190	0.632	-8.5	-71.7	72.2	263	0
06 476	22.83	27.59	79.42	0.175	0.212	0.611	-20.3	-68.0	70.9	253	0
07 479	25.44	36.25	80.19	0.179	0.255	0.565	-42.5	-59.3	73.0	234	0
08 480	27.41	40.88	80.43	0.184	0.274	0.540	-51.9	-54.6	75.4	226	0
09 481	29.88	45.66	80.60	0.191	0.292	0.516	-59.8	-49.7	77.8	219	0
10 482C	31.14	48.71	79.26	0.195	0.306	0.498	-66.0	-44.8	79.8	214	0
11 488	25.13	49.09	60.78	0.186	0.363	0.450	-90.0	-20.9	92.4	193	0
12 496	20.67	50.20	44.12	0.179	0.436	0.383	-110.6	10.2	110.6	179	0
13 500	20.63	52.39	38.61	0.184	0.469	0.345	-118.3	10.4	118.8	174	0
14 505	20.59	54.04	33.36	0.190	0.500	0.308	-124.1	18.7	125.5	171	0
15 515	20.57	55.82	24.00	0.203	0.557	0.239	-130.5	32.0	134.3	166	0
16 522G	23.24	59.39	19.95	0.226	0.578	0.194	-131.6	40.5	137.7	162	0
17 530	29.26	65.19	16.37	0.264	0.588	0.147	-128.1	50.3	137.6	158	0
18 540	41.69	74.85	13.32	0.321	0.576	0.102	-112.5	62.7	128.8	150	0
19 542	66.62	90.66	13.33	0.390	0.531	0.078	-68.6	76.0	102.4	132	0
20 550	72.58	90.44	8.47	0.423	0.527	0.049	-42.5	80.4	90.8	117	0
21 558	72.51	88.28	6.59	0.433	0.527	0.039	-34.1	80.1	87.0	113	0
22 561	72.35	82.98	3.84	0.454	0.521	0.024	-14.2	77.2	78.5	100	0
23 565Y	71.69	76.31	2.11	0.477	0.508	0.014	8.5	71.6	72.1	83	0
24 567	70.94	72.40	1.53	0.489	0.499	0.005	20.4	67.9	70.9	73	0
25 572	68.33	63.74	0.76	0.514	0.479	0.005	42.5	59.3	73.0	54	0
26 575	66.36	59.11	0.52	0.526	0.469	0.004	51.9	54.6	75.3	46	0
27 578	63.90	54.33	0.35	0.538	0.458	0.002	59.8	49.7	77.8	39	0
28 581	62.64	51.28	1.69	0.541	0.443	0.014	66.0	44.8	79.8	34	0
29 581	68.65	50.90	0.20	0.549	0.436	0.010	90.0	20.9	92.4	31	0
30 701	73.15	49.79	36.82	0.457	0.311	0.230	110.6	-1.2	110.6	359	0
31 705	73.15	47.60	42.34	0.448	0.291	0.259	118.4	-10.4	118.8	354	0
32 710	73.19	45.95	47.59	0.438	0.275	0.285	124.1	-18.7	125.5	351	0
33 720	73.40	44.17	56.94	0.420	0.253	0.326	130.5	-32.0	134.4	346	0
34 727	70.53	40.59	61.00	0.409	0.235	0.341	131.6	-40.5	137.7	342	0
35 735M	64.51	34.79	64.58	0.393	0.212	0.394	128.1	-50.3	137.7	338	0
36 745	52.09	25.14	67.62	0.359	0.173	0.466	112.5	-62.7	128.8	330	0
37 809	27.16	9.33	67.62	0.260	0.089	0.649	68.7	-76.0	102.4	312	0
U=D50	93.78	100.00	80.94	0.341	0.363	0.363	0.0	0.0	0.0	0	0

$a^*_{nm} = n_a n_b = 1.4[(5.645x - 2.666 + 2.570z)/y]$ $A_m = (a - a_0) Y$ $C_{ABnm} = [A_m^2 + B_m^2]^{1/2}$
 $b^*_{nm} = n_b n_0 = 0.5[(-1.871x + 1.457 - 3.861z)/y]$ $B_m = (b - b_0) Y$ $H_{ABnm} = \text{atan2}[B_m/A_m]$
DE740-3N

R17Ms tristimulus values, chromatic values, and putities ($n=1.4$, $n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.											
no.	O	C	tristimulus values and chromaticities			nu-chromatic values			nu-putities		
			X	Y	Z	x	y	z	X	Y	Z
00 375	52.09	25.14	67.62	0.359	0.173	0.466	112.5	-62.7	128.8	330	0
01 444	27.16	9.33	67.62	0.260	0.089	0.649	68.7	-76.0	102.4	312	0
02 463	21.19	9.55	72.48	0.205	0.092	0.702	42.3	-80.3	90.8	297	0
03 465	22.27	11.71	74.36	0.198	0.109	0.692	34.1	-80.1	87.1	293	0
04 470	21.43	17.01	77.11	0.185	0.147	0.667	14.3	-77.2	78.6	280	0
05 474	21.29	23.68	78.83	0.177	0.190	0.632	-8.5	-71.7	72.2	263	0
06 476	22.83	27.59	79.42	0.175	0.212	0.611	-20.3	-68.0	70.9	253	0
07 479	25.44	36.25	80.19	0.179	0.255	0.565	-42.5	-59.3	73.0	234	0
08 480	27.41	40.88	80.43	0.184	0.274	0.540	-51.9	-54.6	75.4	226	0
09 481	29.88	45.66	80.60	0.191	0.292	0.516	-59.8	-49.7	77.8	219	0
10 482C	31.14	48.71	79.26	0.195	0.306	0.498	-66.0	-44.8	79.8	214	0
11 488	25.13	49.09	60.78	0.186	0.363	0.450	-90.0	-20.9	92.4	193	0
12 496	20.67	50.20	44.12	0.179	0.436	0.383	-110.6	10.2	110.6	179	0
13 500	20.63	52.39	38.61	0.184	0.469	0.345	-118.3	10.4	118.8	174	0
14 505	20.59	54.04	33.36	0.190	0.500	0.308	-124.1	18.7	125.5	171	0
15 515	20.57	55.82	24.00	0.203	0.557	0.239	-130.5	32.0	134.3	166	0
16 522G	23.24	59.39	19.95	0.226	0.578	0.194	-131.6	40.5	137.7	162	0
17 530	29.26	65.19	16.37	0.264	0.588	0.147	-128.1	50.3	137.6	158	0
18 540	41.69	74.85	13.32	0.321	0.576	0.102	-112.5	62.7	128.8	150	0
19 542	66.62	90.66	13.33	0.390	0.531	0.078	-68.6	76.0	102.4	132	0
20 550	72.58	90.44	8.47	0.423	0.527	0.049	-42.5	80.4	90.8	117	0
21 558	72.51	88.28	6.59	0.433	0.527	0.039	-34.1	80.1	87.0	113	0
22 561	72.35	82.98	3.84	0.454	0.521	0.024	-14.2	77.2	78.5	100	0
23 565Y	71.69	76.31	2.11	0.477	0.508	0.014	8.5	71.6	72.1	83	0
24 567	70.94	72.40	1.53	0.489	0.499	0.005	20.4	67.9	70.9	73	0
25 572	68.33	63.74	0.76	0.514	0.479	0.005	42.5	59.3	73.0	54	0
26 575	66.36	59.11	0.52	0.526	0.469	0.004	51.9	54.6	75.3	46	0
27 578	63.90	54.33	0.35	0.538	0.458	0.002	59.8	49.7	77.8	39	0
28 581	62.64	51.28	1.69	0.541	0.443	0.014	66.0	44.8	79.8	34	0
29 581	68.65	50.90	0.20	0.549	0.436	0.010	90.0	20.9	92.4	31	0
30 701	73.15	49.79	36.82	0.457	0.311	0.230	110.6	-1.2	110.6	359	0
31 705	73.15	47.60	42.34	0.448	0.291	0.259	118.4	-10.4	118.8	354	0
32 710	73.19	45.95	47.59	0.438	0.275	0.285	124.1	-18.7	125.5	351	0
33 720	73.40	44.17	56.94	0.420	0.253	0.326	130.5	-32.0	134.4	346	0
34 727	70.53	40.59	61.00	0.409	0.235	0.341	131.6	-40.5	137.7	342	0
35 735M	64.51	34.79	64.58	0.393	0.212	0.394	128.1	-50.3	137.7	338	0
36 745	52.09	25.14	67.62	0.359	0.173	0.466	112.5	-62.7	128.8	330	0
37 809	27.16	9.33	67.62	0.260	0.089	0.649	68.7	-76.0	102.4	312	0
U=D50	93.78	100.00	80.94	0.341	0.363	0.363	0.0	0.0	0.0	0	0

$a^*_{nm} = n_a n_b = 1.4[(5.645x - 2.666 + 2.570z)/y]$ $A_m = (a - a_0) Y$ $C_{ABnm} = [A_m^2 + B_m^2]^{1/2}$
 $b^*_{nm} = n_b n_0 = 0.5[(-1.871x + 1.457 - 3.861z)/y]$ $B_m = (b - b_0) Y$ $H_{ABnm} = \text{atan2}[B_m/A_m]$
DE740-4N

R17Ms tristimulus values, chromatic values, and putities ($n=1.4$, $n_0=0.5$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by hue angle.											
no.	O	C	tristimulus values and chromaticities					nu-chromatic values			
			X	Y	Z	x	y	z	X_{ν}	Y_{ν}	Z_{ν}
00 614	68.65	50.90	20.17	0.491	0.364	0.144	90.0	-20.9	92.4	31	0
01 701	73.15	49.79	36.82	0.457	0.311	0.230	110.6	-1.2	110.6	359	0
02 705	73.15	47.60	42.34	0.448	0.291	0.259	118.4	-10.4	118.8	354	0
03 710	73.19	45.95	47.59	0.438	0.275	0.285	124.1	-18.7	125.5	351	0
04 720	73.40	44.17	56.94	0.420	0.253	0.326	130.5	-32.0	134.4	346	0
05 727	70.53	40.59	61.00	0.409	0.235	0.341	131.6	-40.5	137.7	342	0
06 735	64.51	34.79	64.58	0.393	0.212	0.394	128.1	-50.3	137.7	338	0
07 375	52.09	25.14	67.62	0.359	0.173	0.466	112.5	-62.7	128.8	330	0
08 444	27.16	9.33	67.62	0.260	0.089	0.649	68.7	-76.0	102.4	312	0
09 463	21.19	9.55	72.48	0.205	0.092	0.702	42.3	-80.3	90.8	297	0
10 465	22.27	11.71	74.36	0.198	0.109	0.692	34.1	-80.1	87.1	293	0
11 470	21.43	17.01	77.11	0.185	0.147	0.667	34.1	-77.2	78.6	280	0
12 474B	22.09	23.68	78.83	0.177	0.190	0.632	-8.5	-77.1	72.2	263	0
13 476	22.83	27.59	79.42	0.175	0.212	0.611	-23.3	-68.0	70.9	253	0
14 480	24.44	36.25	79.42	0.175	0.253	0.563	-36.8	-68.0	70.9	253	0
15 480	27.41	40.88	80.43	0.184	0.274	0.540	-51.9	-54.6	75.5	226	0
16 481	29.88	45.86	80.60	0.191	0.292	0.516	-59.8	-49.7	77.8	219	0
17 482	31.14	49.71	79.26	0.195	0.306	0.498	-66.0	-44.8	79.8	214	0
18 488C	25.13	48.09	60.78	0.186	0.363	0.450	-90.0	-20.9	92.4	193	0
19 500	20.50	50.00	33.61	0.189	0.259	0.545	-118.3	-10.4	118.8	174	0
20 505	20.63	52.39	38.61	0.184	0.469	0.348	-118.3	-10.4	118.8	174	0
21 509	25.09	54.04	33.36	0.190	0.500	0.305	-124.1	-18.7	125.5	171	0
22 515	20.37	55.82	24.00	0.203	0.557	0.239	-130.5	-32.0	134.4	166	0
23 522G	23.24	59.39	19.95	0.226	0.578	0.194	-131.6	-40.5	137.7	162	0
24 530	29.26	65.65	16.33	0.264	0.593	0.157	-128.1	-50.3	137.7	158	0
25 536	36.23	74.85	12.62	0.325	0.576	0.102	-124.1	-50.3	137.7	158	0
26 552	66.62	66.62	13.33	0.390	0.531	0.078	-68.8	-76.0	102.4	136	0
27 557	72.58	90.44	8.47	0.423	0.527	0.049	-42.2	80.3	90.8	117	0
28 558	72.51	88.28	6.59	0.433	0.527	0.039	-44.1	80.1	87.1	113	0
29 561	72.35	82.98	3.84	0.454	0.524	0.024	-14.2	77.6	78.6	100	0
30 567	76.76	76.76	1.11	0.508	0.508	0.000	0.0	71.6	71.6	70	0
31 567	76.76	76.76	1.53	0.489	0.549	0.000	0.0	71.6	70.9	73	0
32 572F	68.33	63.74	0.76	0.514	0.479	0.005	-42.2	59.3	70.3	46	0
33 575	66.36	59.11	0.52	0.526	0.469	0.004	-51.9	54.6	75.5	46	0
34 578	63.90	54.30	0.35	0.538	0.458	0.002	-59.8	49.7	77.8	39	0
35 584	51.64	51.64	0.19	0.569	0.469	0.000	-66.0	44.8	79.8	34	0
36 614R	68.65	50.90	20.17	0.491	0.364	0.144	90.0	-20.9	92.4	31	0
7 701	73.15	49.79	36.82	0.457	0.311	0.230	110.6	-1.2	110.6	0	0
U=50	93.78	100.00	80.94	0.341	0.363	0.363	0.0	0.0	0.0	0	0