http://130.149.60.45/~farbmetrik/TN11/TN11L0NP.PDF /.PS; start output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 1/2

see similar files: http://130.149.60.45/~farbmetrik/TN11/TN11.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

Cod.	i	$[X, Y, Z, x, y]_{100}$					$[L^*, a^*, b^*, C^*_{ab}, h_{ab}, a', b', c'_{ab}]_{100}$							
0005−R00B	00	90.8	93.9	98.6	0.321	0.331	97.6	3.0	2.3	3.8	37.5	0.217	−0.212	0.01
0010−R00B	01	87.2	88.1	90.0	0.329	0.332	95.2	6.7	4.0	7.8	30.7	0.218	−0.21	0.011
0015−R00B	02	83.9	82.6	82.3	0.337	0.332	92.8	10.7	5.3	12.0	26.5	0.22	−0.208	0.013
0020−R00B	03	80.7	77.2	75.3	0.346	0.331	90.4	14.9	6.6	16.3	23.8	0.222	−0.207	0.014
0025−R00B	04	77.4	72.0	68.5	0.355	0.33	88.0	18.8	7.8	20.4	22.5	0.225	−0.205	0.016
0030−R00B	05	74.2	67.0	62.3	0.365	0.329	85.5	23.0	8.9	24.7	21.2	0.227	−0.203	0.019
0035−R00B	06	70.8	62.2	56.3	0.374	0.328	83.0	26.7	10.1	28.6	20.7	0.229	−0.202	0.021
0040−R00B	07	67.5	57.5	50.7	0.384	0.327	80.5	30.6	11.3	32.6	20.3	0.231	−0.2	0.024
0045−R00B	08	64.1	53.0	45.3	0.395	0.326	77.9	34.1	12.5	36.3	20.2	0.234	−0.198	0.027
0050−R00B	09	60.8	48.6	40.1	0.407	0.325	75.2	37.8	13.9	40.3	20.2	0.236	−0.195	0.03
0055−R00B	10	57.5	44.4	35.1	0.42	0.324	72.5	41.7	15.4	44.4	20.3	0.239	−0.193	0.034
0060−R00B	11	54.3	40.3	30.4	0.435	0.322	69.7	45.8	17.0	48.8	20.4	0.242	−0.19	0.038
0065−R00B	12	51.1	36.3	25.9	0.451	0.32	66.7	50.0	18.7	53.3	20.5	0.246	−0.186	0.043
0070−R00B	13	47.9	32.5	21.7	0.469	0.318	63.7	54.4	20.6	58.2	20.7	0.25	−0.182	0.048
0075−R00B	14	44.5	28.7	17.8	0.489	0.316	60.5	58.4	22.6	62.6	21.1	0.254	−0.178	0.054
0080−R00B	15	40.9	25.1	14.2	0.51	0.313	57.2	62.2	24.6	66.9	21.6	0.258	−0.172	0.061
0085−R00B	16	37.3	21.5	10.8	0.535	0.309	53.5	66.5	27.2	71.8	22.2	0.263	−0.166	0.069
0090−R00B	17	33.8	18.1	7.6	0.568	0.305	49.7	71.4	30.8	77.8	23.3	0.27	−0.156	0.081
0095−R00B	18	30.3	14.8	4.5	0.611	0.298	45.4	77.4	36.7	85.6	25.4	0.278	−0.14	0.098
0099−R00B	19	27.2	11.6	1.4	0.677	0.289	40.6	85.6	50.8	99.6	30.7	0.291	−0.102	0.136
0005−B00G	20	88.5	94.5	106.8	0.305	0.326	97.8	−2.2	−2.4	3.4	228.1	0.214	−0.217	0.01
0010−B00G	21	82.5	89.3	104.8	0.298	0.323	95.7	−4.2	−4.9	6.6	229.2	0.214	−0.22	0.012
0015−B00G	22	76.9	84.2	103.1	0.291	0.319	93.5	−6.0	−7.5	9.8	231.1	0.213	−0.223	0.014
0020−B00G	23	71.5	79.3	101.5	0.283	0.314	91.4	−7.9	−10.3	13.1	232.4	0.212	−0.226	0.016
0025−B00G	24	66.4	74.6	99.9	0.276	0.31	89.2	−9.4	−12.9	16.1	233.9	0.211	−0.23	0.019
0030−B00G	25	61.7	70.0	97.9	0.269	0.305	87.0	−10.6	−15.5	18.9	235.4	0.21	−0.233	0.022
0035−B00G	26	57.3	65.5	95.8	0.262	0.3	84.8	−11.8	−17.9	21.6	236.6	0.21	−0.237	0.025
0040−B00G	27	52.8	61.2	94.6	0.253	0.293	82.5	−13.3	−21.0	25.0	237.6	0.209	−0.241	0.029
0045−B00G	28	48.6	57.1	93.5	0.244	0.287	80.2	−14.7	−24.2	28.4	238.5	0.208	−0.246	0.034
0050−B00G	29	44.4	53.0	92.9	0.233	0.279	77.9	−16.3	−27.8	32.4	239.5	0.207	−0.252	0.039
0055−B00G	30	40.5	49.1	92.2	0.223	0.27	75.5	−17.8	−31.4	36.3	240.4	0.206	−0.258	0.045
0060−B00G	31	36.8	45.3	91.5	0.212	0.261	73.1	−19.1	−35.1	40.1	241.4	0.205	−0.264	0.052
0065−B00G	32	33.3	41.5	90.4	0.202	0.251	70.6	−20.2	−38.7	43.8	242.4	0.204	−0.271	0.058
0070−B00G	33	30.1	37.9	89.2	0.191	0.241	68.0	−21.1	−42.3	47.4	243.4	0.203	−0.278	0.065
0075−B00G	34	26.9	34.4	88.1	0.18	0.23	65.3	−21.8	−46.1	51.2	244.6	0.202	−0.285	0.073
0080−B00G	35	23.9	31.0	87.3	0.168	0.218	62.5	−22.6	−50.4	55.3	245.8	0.201	−0.295	0.082
0085−B00G	36	21.1	27.7	86.4	0.156	0.205	59.6	−23.1	−54.8	59.6	247.1	0.2	−0.305	0.093
0090−B00G	37	18.3	24.5	86.0	0.142	0.19	56.6	−23.7	−59.8	64.4	248.3	0.199	−0.318	0.105
0095−B00G	38	15.7	21.3	85.1	0.128	0.175	53.3	−24.3	−64.7	69.2	249.4	0.198	−0.331	0.119
0099−B00G	39	13.3	18.3	82.7	0.116	0.16	49.9	−24.1	−68.9	73.1	250.7	0.197	−0.345	0.133
0005−G00Y	40	89.8	96.7	101.6	0.312	0.336	98.7	−3.6	2.2	4.3	148.6	0.214	−0.212	0.01
0010−G00Y	41	84.5	93.4	95.1	0.31	0.342	97.4	−7.7	4.3	8.9	151.3	0.212	−0.21	0.012
0015−G00Y	42	79.3	90.1	89.1	0.307	0.349	96.0	−11.9	6.1	13.5	153.3	0.21	−0.208	0.013
0020−G00Y	43	74.3	86.8	83.5	0.304	0.355	94.7	−16.2	7.6	18.0	154.9	0.208	−0.206	0.015
0025−G00Y	44	69.4	83.5	78.3	0.3	0.361	93.2	−20.3	9.1	22.3	156.0	0.206	−0.204	0.017
0030−G00Y	45	64.6	80.1	73.3	0.296	0.367	91.7	−24.4	10.4	26.6	157.1	0.204	−0.202	0.019
0035−G00Y	46	59.8	76.7	68.3	0.292	0.374	90.2	−28.9	11.8	31.3	157.9	0.202	−0.201	0.022
0040−G00Y	47	55.3	73.2	63.7	0.288	0.381	88.6	−33.2	13.0	35.7	158.7	0.2	−0.199	0.024
0045−G00Y	48	50.7	69.8	58.9	0.283	0.389	86.9	−37.8	14.4	40.6	159.2	0.197	−0.197	0.027
0050−G00Y	49	46.3	66.3	54.3	0.277	0.397	85.1	−42.4	15.7	45.3	159.7	0.194	−0.195	0.03
0055−G00Y	50	41.9	62.8	49.7	0.272	0.407	83.3	−47.2	17.2	50.4	160.0	0.192	−0.193	0.034
0060−G00Y	51	37.8	59.2	45.3	0.266	0.416	81.4	−52.0	18.6	55.3	160.3	0.189	−0.191	0.037
0065−G00Y	52	33.5	55.6	40.8	0.258	0.428	79.4	−57.8	20.3	61.3	160.7	0.185	−0.188	0.042
0070−G00Y	53	29.1	52.0	36.2	0.248	0.443	77.3	−64.6	22.1	68.4	161.1	0.181	−0.185	0.047
0075−G00Y	54	24.9	48.3	31.9	0.237	0.459	75.0	−72.1	24.0	76.1	161.6	0.176	−0.181	0.053
0080−G00Y	55	20.9	44.6	27.8	0.224	0.478	72.6	−80.1	25.9	84.3	162.1	0.17	−0.178	0.059
0085−G00Y	56	16.6	40.8	23.6	0.205	0.503	70.1	−91.0	28.1	95.4	162.8	0.163	−0.174	0.068
0090−G00Y	57	12.6	37.1	19.7	0.182	0.535	67.3	−104.1	30.6	108.6	163.6	0.153	−0.169	0.078
0095−G00Y	58	8.2	33.3	15.7	0.143	0.583	64.4	−125.6	33.8	130.2	165.0	0.137	−0.162	0.095
0099−G00Y	59	3.7	29.5	11.7	0.083	0.658	61.2	−163.1	38.2	167.6	166.8	0.11	−0.153	0.123
0005−Y00R	60	92.7	99.0	92.7	0.326	0.348	99.6	−2.2	9.7	10.0	103.5	0.214	−0.204	0.015
0010−Y00R	61	91.1	98.1	80.7	0.338	0.364	99.3	−3.5	17.7	18.1	101.6	0.214	−0.195	0.022
0015−Y00R	62	89.9	97.2	71.6	0.347	0.376	98.9	−4.2	24.1	24.5	100.1	0.214	−0.188	0.028
0020−Y00R	63	88.8	96.2	63.7	0.357	0.387	98.5	−4.5	30.1	30.4	98.7	0.213	−0.182	0.034
0025−Y00R	64	87.7	95.2	56.8	0.366	0.397	98.1	−4.7	35.7	36.0	97.7	0.213	−0.175	0.04
0030−Y00R	65	86.8	94.2	50.7	0.375	0.407	97.7	−4.8	41.0	41.3	96.8	0.213	−0.169	0.046
0035−Y00R	66	85.8	93.1	44.9	0.383	0.416	97.3	−4.8	46.4	46.6	96.0	0.213	−0.163	0.052
0040−Y00R	67	84.8	92.0	39.6	0.392	0.425	96.8	−4.6	51.6	51.9	95.2	0.213	−0.157	0.058
0045−Y00R	68	83.8	90.8	35.0	0.4	0.433	96.3	−4.5	56.7	56.9	94.6	0.213	−0.151	0.064
0050−Y00R	69	82.8	89.6	30.6	0.408	0.441	95.8	−4.3	61.7	61.9	94.1	0.213	−0.145	0.07
0055−Y00R	70	81.7	88.3	26.6	0.416	0.449	95.3	−4.1	66.9	67.0	93.6	0.214	−0.139	0.076
0060−Y00R	71	80.6	87.0	23.1	0.423	0.456	94.8	−3.8	71.7	71.8	93.1	0.214	−0.134	0.082
0065−Y00R	72	79.5	85.7	19.8	0.43	0.463	94.2	−3.6	76.6	76.7	92.8	0.214	−0.128	0.087
0070−Y00R	73	78.3	84.3	16.5	0.437	0.471	93.6	−3.3	82.3	82.4	92.4	0.214	−0.121	0.094
0075−Y00R	74	77.1	82.8	13.3	0.445	0.478	92.9	−2.9	88.5	88.6	92.0	0.214	−0.113	0.102
0080−Y00R	75	75.8	81.3	10.4	0.453	0.485	92.2	−2.6	95.2	95.2	91.6	0.214	−0.105	0.11
0085−Y00R	76	74.6	79.7	7.7	0.461	0.492	91.5	−1.9	102.7	102.7	91.1	0.215	−0.095	0.12
0090−Y00R	77	73.4	78.0	5.2	0.469	0.498	90.8	−1.2	111.5	111.5	90.7	0.215	−0.084	0.131
0095−Y00R	78	72.1	76.2	2.9	0.477	0.504	90.0	−0.5	123.1	123.1	90.3	0.215	−0.069	0.146
0099−Y00R	79	70.8	74.5	0.7	0.485	0.51	89.2	0.1	143.7	143.7	90.0	0.215	−0.043	0.172

Cod.	$[Y, A, B, C_{AB}, h_{AB}, a, b, c_{AB}]_{100}$								$[i_d, i_c, \lambda_d, \lambda_c]_{100}$				$[X, Y, Z]_{89}$			$[L^*, a^*, b^*, C^*_{ab}, h_{ab}]_{89}$					$[Y, A, B, C_{AB}, h_{AB}]_{89}$				
0005−R00B	93.9	1.7	1.4	2.2	40.8	0.967	−0.419	0.025	37	16	587	483	80.4	83.2	87.3	93.1	2.9	2.2	3.6	37.5	83.2	1.5	1.3	1.9	40.8
0010−R00B	88.1	3.5	2.3	4.2	33.3	0.99	−0.408	0.049	38	16	592	484	77.3	78.1	79.8	90.8	6.4	3.8	7.4	30.7	78.1	3.1	2.1	3.8	33.3
0015−R00B	82.6	5.5	3.0	6.2	28.5	1.016	−0.398	0.076	39	17	597	485	74.3	73.1	72.9	88.5	10.3	5.1	11.5	26.5	73.1	4.9	2.6	5.5	28.5
0020−R00B	77.2	7.4	3.5	8.2	25.2	1.045	−0.389	0.106	40	17	600	485	71.4	68.4	66.7	86.2	14.3	6.3	15.6	23.8	68.4	6.5	3.1	7.2	25.2
0025−R00B	72.0	9.0	3.9	9.8	23.5	1.074	−0.38	0.137	40	17	603	486	68.5	63.8	60.7	83.9	18.1	7.5	19.6	22.5	63.8	8.0	3.5	8.7	23.5
0030−R00B	67.0	10.6	4.2	11.4	21.8	1.107	−0.371	0.17	41	17	606	486	65.7	59.4	55.2	81.5	22.1	8.6	23.7	21.2	59.4	9.4	3.7	10.1	21.8
0035−R00B	62.2	11.8	4.5	12.6	21.0	1.139	−0.361	0.203	41	17	608	486	62.7	55.1	49.9	79.1	25.7	9.7	27.4	20.7	55.1	10.4	4.0	11.2	21.0
0040−R00B	57.5	12.9	4.8	13.8	20.2	1.174	−0.351	0.24	42	17	610	486	59.8	50.9	44.9	76.6	29.3	10.8	31.3	20.3	50.9	11.5	4.2	12.2	20.2
0045−R00B	53.0	13.8	4.9	14.7	19.7	1.21	−0.341	0.277	42	17	611	486	56.8	46.9	40.1	74.1	32.7	12.0	34.8	20.2	46.9	12.2	4.4	13.0	19.7
0050−R00B	48.6	14.6	5.1	15.5	19.3	1.25	−0.329	0.319	42	17	612	487	53.8	43.1	35.5	71.6	36.3	13.4	38.7	20.2	43.1	13.0	4.5	13.7	19.3
0055−R00B	44.4	15.4	5.3	16.3	18.9	1.296	−0.315	0.366	42	17	613	487	50.9	39.3	31.1	69.0	40.0	14.8	42.7	20.3	39.3	13.6	4.7	14.4	18.9
0060−R00B	40.3	16.0	5.4	16.9	18.5	1.348	−0.3	0.42	43	17	615	487	48.1	35.7	26.9	66.3	43.9	16.3	46.9	20.4	35.7	14.2	4.8	15.0	18.5
0065−R00B	36.3	16.6	5.4	17.5	18.1	1.407	−0.284	0.481	43	17	616	487	45.2	32.2	22.9	63.5	48.0	18.0	51.2	20.5	32.2	14.7	4.8	15.5	18.1
0070−R00B	32.5	17.1	5.4	17.9	17.7	1.475	−0.266	0.552	43	17	618	487	42.4	28.7	19.2	60.6	52.2	19.8	55.9	20.7	28.7	15.1	4.8	15.9	17.7
0075−R00B	28.7	17.2	5.4	18.0	17.4	1.548	−0.247	0.627	43	17	619	487	39.4	25.4	15.8	57.5	56.1	21.7	60.1	21.1	25.4	15.2	4.8	16.0	17.4
0080−R00B	25.1	17.1	5.2	17.9	17.0	1.63	−0.226	0.712	44	17	621	487	36.2	22.2	12.6	54.3	59.8	23.7	64.3	21.6	22.2	15.1	4.6	15.8	17.0
0085−R00B	21.5	16.9	5.0	17.6	16.6	1.732	−0.2	0.817	44	17	623	487	33.1	19.1	9.6	50.8	63.9	26.1	69.0	22.2	19.1	14.9	4.5	15.6	16.6
0090−R00B	18.1	16.6	4.8	17.3	16.3	1.865	−0.167	0.954	45	17	625	487	30.0	16.1	6.7	47.1	68.6	29.6	74.7	23.3	16.1	14.7	4.3	15.3	16.3
0095−R00B	14.8	16.3	4.6	16.9	15.9	2.05	−0.12	1.144	45	17	628	487	26.9	13.1	4.0	42.9	74.3	35.2	82.2	25.4	13.1	14.4	4.1	15.0	15.9
0099−R00B	11.6	16.2	4.5	16.8	15.5	2.342	−0.047	1.446	46	17	631	487	24.1	10.3	1.2	38.3	82.3	48.8	95.6	30.7	10.3	14.3	4.0	14.9	15.5
0005−B00G	94.5	−1.1	−1.5	2.0	232.4	0.936	−0.451	0.024	16	36	481	582	78.4	83.7	94.6	93.3	−2.1	−2.3	3.3	228.1	83.7	−1.0	−1.3	1.8	232.4
0010−B00G	89.3	−2.2	−3.0	3.8	234.0	0.924	−0.469	0.044	16	36	480	582	73.1	79.1	92.9	91.3	−4.0	−4.7	6.3	229.2	79.1	−1.9	−2.6	3.4	234.0
0015−B00G	84.2	−3.0	−4.5	5.5	236.3	0.913	−0.489	0.067	16	36	480	581	68.1	74.6	91.3	89.2	−5.8	−7.2	9.4	231.1	74.6	−2.6	−4.0	4.9	236.3
0020−B00G	79.3	−3.7	−6.0	7.2	238.0	0.901	−0.511	0.091	16	36	480	580	63.3	70.3	90.0	87.1	−7.5	−9.8	12.5	232.4	70.3	−3.3	−5.3	6.4	238.0
0025−B00G	74.6	−4.3	−7.4	8.7	239.9	0.891	−0.535	0.117	15	36	479	580	58.9	66.1	88.5	85.0	−9.0	−12.4	15.5	233.9	66.1	−3.8	−6.5	7.7	239.9
0030−B00G	70.0	−4.6	−8.6	9.9	241.7	0.882	−0.559	0.142	15	35	479	579	54.7	62.0	86.8	82.9	−10.2	−14.9	18.2	235.4	62.0	−4.1	−7.6	8.8	241.7
0035−B00G	65.5	−4.9	−9.7	11.0	243.1	0.874	−0.584	0.168	15	35	479	579	50.7	58.1	84.9	80.8	−11.3	−17.2	20.7	236.6	58.1	−4.3	−8.6	9.8	243.1
0040−B00G	61.2	−5.2	−11.1	12.4	244.6	0.862	−0.617	0.203	15	35	479	578	46.8	54.2	83.8	78.6	−12.8	−20.2	24.0	237.6	54.2	−4.6	−9.8	11.0	244.6
0045−B00G	57.1	−5.5	−12.5	13.8	245.9	0.851	−0.654	0.241	15	35	478	578	43.0	50.5	82.8	76.4	−14.2	−23.2	27.3	238.5	50.5	−4.9	−11.0	12.2	245.9
0050−B00G	53.0	−5.8	−14.0	15.3	247.3	0.838	−0.7	0.288	15	35	478	577	39.4	47.0	82.3	74.2	−15.7	−26.7	31.1	239.5	47.0	−5.1	−12.4	13.5	247.3
0055−B00G	49.1	−6.0	−15.4	16.7	248.7	0.826	−0.751	0.34	15	35	478	577	35.9	43.5	81.7	71.9	−17.1	−30.2	34.8	240.4	43.5	−5.3	−13.7	14.8	248.7
0060−B00G	45.3	−6.0	−16.8	18.0	250.1	0.814	−0.807	0.397	15	35	477	576	32.6	40.1	81.0	69.5	−18.3	−33.7	38.5	241.4	40.1	−5.3	−14.9	15.9	250.1
0065−B00G	41.5	−6.0	−18.0	19.1	251.4	0.803	−0.87	0.46	15	35	477	576	29.5	36.8	80.1	67.1	−19.4	−37.2	42.1	242.4	36.8	−5.3	−15.9	16.9	251.4
0070−B00G	37.9	−5.9	−19.1	20.1	252.7	0.792	−0.94	0.53	15	35	477	576	26.6	33.6	79.0	64.7	−20.3	−40.7	45.6	243.4	33.6	−5.2	−16.9	17.8	252.7
0075−B00G	34.4	−5.7	−20.1	21.0	254.1	0.782	−1.022	0.611	15	35	477	575	23.9	30.5	78.0	62.1	−21.0	−44.3	49.1	244.6	30.5	−5.0	−17.8	18.6	254.1
0080−B00G	31.0	−5.4	−21.3	22.1	255.5	0.771	−1.124	0.713	15	35	476	575	21.2	27.5	77.3	59.4	−21.7	−48.4	53.1	245.8	27.5	−4.8	−18.9	19.6	255.5
0085−B00G	27.7	−5.1	−22.4	23.1	256.9	0.761	−1.247	0.835	15	34	476	574	18.7	24.5	76.6	56.6	−22.2	−52.6	57.2	247.1	24.5	−4.5	−19.9	20.5	256.9
0090−B00G	24.5	−4.8	−23.7	24.3	258.3	0.749	−1.405	0.992	15	34	476	574	16.2	21.7	76.2	53.7	−22.8	−57.4	61.9	248.3	21.7	−4.3	−21.0	21.5	258.3
0095−B00G	21.3	−4.5	−24.7	25.2	259.5	0.735	−1.595	1.18	15	34	475	574	13.9	18.9	75.4	50.6	−23.4	−62.1	66.5	249.4	18.9	−3.9	−21.8	22.3	259.5
0099−B00G	18.3	−4.0	−25.0	25.4	260.8	0.727	−1.806	1.39	15	34	475	573	11.8	16.2	73.2	47.3	−23.1	−66.2	70.2	250.7	16.2	−3.5	−22.1	22.5	260.8
0005−G00Y	96.7	−1.9	1.4	2.5	145.1	0.929	−0.419	0.027	27	−1	537	537c	79.5	85.6	90.0	94.2	−3.4	2.1	4.1	148.6	85.6	−1.7	1.2	2.2	145.1
0010−G00Y	93.4	−4.1	2.6	4.9	148.1	0.905	−0.406	0.054	26	−1	531	531c	74.9	82.8	84.2	92.9	−7.4	4.1	8.5	151.3	82.8	−3.6	2.3	4.4	148.1
0015−G00Y	90.1	−6.1	3.6	7.2	150.2	0.88	−0.394	0.08	25	−1	527	527c	70.3	79.8	78.9	91.6	−11.5	5.8	12.9	153.3	79.8	−5.4	3.2	6.4	150.2
0020−G00Y	86.8	−8.1	4.3	9.2	152.0	0.855	−0.384	0.107	24	−1	523	523c	65.8	76.9	74.0	90.3	−15.5	7.3	17.3	154.9	76.9	−7.1	3.8	8.2	152.0
0025−G00Y	83.5	−9.8	5.0	11.0	153.1	0.831	−0.374	0.133	24	−1	520	520c	61.5	73.9	69.4	88.9	−19.5	8.7	21.4	156.0	73.9	−8.6	4.4	9.8	153.1
0030−G00Y	80.1	−11.3	5.5	12.7	154.3	0.807	−0.365	0.159	23	−1	517	517c	57.2	71.0	65.0	87.5	−23.5	9.9	25.6	157.1	71.0	−10.0	4.9	11.2	154.3
0035−G00Y	76.7	−12.9	6.0	14.3	155.1	0.78	−0.355	0.187	23	−1	516	516c	53.0	67.9	60.5	86.0	−27.7	11.3	30.0	157.9	67.9	−11.4	5.3	12.7	155.1
0040−G00Y	73.2	−14.2	6.4	15.6	155.9	0.754	−0.347	0.214	22	−1	514	514c	48.9	64.9	56.4	84.4	−31.8	12.5	34.3	158.7	64.9	−12.6	5.7	13.9	155.9
0045−G00Y	69.8	−15.5	6.8	17.0	156.4	0.726	−0.337	0.244	22	−1	513	513c	44.9	61.8	52.2	82.8	−36.3	13.8	38.9	159.2	61.8	−13.7	6.0	15.1	156.4
0050−G00Y	66.3	−16.6	7.1	18.1	156.9	0.698	−0.327	0.274	22	−1	512	512c	41.0	58.7	48.1	81.1	−40.7	15.1	43.5	159.7	58.7	−14.7	6.3	16.1	156.9
0055−G00Y	62.8	−17.6	7.4	19.2	157.2	0.668	−0.316	0.305	22	−1	511	511c	37.1	55.6	44.0	79.4	−45.4	16.5	48.4	160.0	55.6	−15.5	6.6	17.0	157.2
0060−G00Y	59.2	−18.3	7.6	19.9	157.5	0.638	−0.305	0.337	22	−1	511	511c	33.5	52.4	40.1	77.5	−49.9	17.9	53.1	160.3	52.4	−16.2	6.8	17.7	157.5
0065−G00Y	55.6	−19.2	7.9	20.8	157.8	0.602	−0.292	0.375	22	−1	510	510c	29.7	49.2	36.1	75.6	−55.5	19.5	58.9	160.7	49.2	−17.0	7.0	18.5	157.8
0070−G00Y	52.0	−20.1	8.1	21.8	158.1	0.561	−0.278	0.419	22	−1	510	510c	25.8	46.0	32.1	73.6	−62.1	21.3	65.7	161.1	46.0	−17.8	7.2	19.3	158.1
0075−G00Y	48.3	−20.8	8.2	22.5	158.5	0.516	−0.263	0.466	21	−1	509	509c	22.1	42.8	28.3	71.4	−69.3	23.1	73.1	161.6	42.8	−18.5	7.3	19.9	158.5
0080−G00Y	44.6	−21.4	8.3	23.0	158.9	0.468	−0.248	0.516	21	−1	508	508c	18.5	39.5	24.6	69.1	−77.0	24.8	81.0	162.1	39.5	−18.9	7.3	20.4	158.9
0085−G00Y	40.8	−22.0	8.3	23.6	159.4	0.408	−0.23	0.579	21	−1	507	507c	14.8	36.2	20.9	66.7	−87.4	27.0	91.6	162.8	36.2	−19.5	7.4	20.9	159.4
0090−G00Y	37.1	−22.5	8.3	24.1	159.9	0.34	−0.211	0.649	21	−1	507	507c	11.2	32.8	17.4	64.0	−99.9	29.4	104.3	163.6	32.8	−19.9	7.3	21.3	159.9
0095−G00Y	33.3	−23.3	8.2	24.8	160.7	0.245	−0.187	0.746	21	−1	506	506c	7.2	29.5	13.9	61.2	−120.7	32.5	125.1	165.0	29.5	−20.7	7.3	22.0	160.7
0099−G00Y	29.5	−24.2	8.2	25.6	161.4	0.126	−0.157	0.869	21	−1	505	505c	3.3	26.1	10.3	58.2	−156.6	36.6	160.9	166.8	26.1	−21.4	7.2	22.7	161.4
0005−Y00R	99.0	−1.2	6.0	6.1	102.3	0.936	−0.374	0.063	33	13	567	465	82.1	87.7	82.1	95.0	−2.1	9.3	9.6	103.5	87.7	−1.1	5.3	5.4	102.3
0010−Y00R	98.1	−1.9	10.4	10.6	101.1	0.929	−0.328	0.109	33	13	567	466	80.7	86.9	71.5	94.7	−3.4	17.0	17.3	101.6	86.9	−1.7	9.2	9.4	101.1
0015−Y00R	97.2	−2.3	13.6	13.8	99.9	0.925	−0.294	0.143	33	13	568	467	79.6	86.1	63.5	94.3	−4.0	23.1	23.5	100.1	86.1	−2.0	12.1	12.2	99.9
0020−Y00R	96.2	−2.4	16.4	16.6	98.8	0.923	−0.264	0.172	33	13	568	468	78.7	85.2	56.5	94.0	−4.3	28.9	29.2	98.7	85.2	−2.1	14.5	14.7	98.8
0025−Y00R	95.2	−2.5	18.7	18.9	98.0	0.922	−0.238	0.199	33	13	568	468	77.7	84.3	50.3	93.6	−4.6	34.3	34.6	97.7	84.3	−2.2	16.6	16.7	98.0
0030−Y00R	94.2	−2.5	20.7	20.9	97.3	0.921	−0.214	0.222	33	13	568	469	76.9	83.4	44.9	93.2	−4.6	39.4	39.6	96.8	83.4	−2.2	18.3	18.5	97.3
0035−Y00R	93.1	−2.5	22.5	22.7	96.6	0.921	−0.192	0.244	33	13	569	469	76.0	82.5	39.8	92.8	−4.6	44.5	44.8	96.0	82.5	−2.2	20.0	20.1	96.6
0040−Y00R	92.0	−2.4	24.2	24.3	95.9	0.922	−0.171	0.264	33	13	569	469	75.1	81.5	35.1	92.3	−4.4	49.6	49.8	95.2	81.5	−2.1	21.4	21.5	95.9
0045−Y00R	90.8	−2.3	25.5	25.6	95.5	0.923	−0.153	0.282	33	14	569	470	74.2	80.4	31.0	91.9	−4.3	54.4	54.6	94.6	80.4	−2.1	22.6	22.7	95.5
0050−Y00R	89.6	−2.2	26.7	26.8	95.0	0.924	−0.136	0.3	33	14	569	470	73.3	79.4	27.1	91.4	−4.1	59.3	59.4	94.1	79.4	−2.0	23.7	23.8	95.0
0055−Y00R	88.3	−2.1	27.8	27.9	94.5	0.925	−0.119	0.316	33	14	569	470	72.4	78.3	23.5	90.9	−3.9	64.2	64.4	93.6	78.3	−1.8	24.6	24.7	94.5
0060−Y00R	87.0	−1.9	28.6	28.7	94.0	0.926	−0.105	0.33	33	14	569	470	71.4	77.1	20.4	90.4	−3.7	68.8	68.9	93.1	77.1	−1.7	25.4	25.4	94.0
0065−Y00R	85.7	−1.8	29.4	29.4	93.7	0.927	−0.091	0.343	34	14	570	470	70.4	75.9	17.5	89.8	−3.4	73.6	73.7	92.8	75.9	−1.6	26.0	26.1	93.7
0070−Y00R	84.3	−1.6	30.1	30.1	93.3	0.929	−0.077	0.358	34	14	570	471	69.3	74.7	14.6	89.2	−3.2	79.0	79.1	92.4	74.7	−1.4	26.6	26.7	93.3
0075−Y00R	82.8	−1.4	30.7	30.7	92.8	0.931	−0.063	0.371	34	14	570	471	68.3	73.3	11.8	88.6	−2.8	85.0	85.1	92.0	73.3	−1.2	27.2	27.2	92.8
0080−Y00R	81.3	−1.2	31.2	31.2	92.4	0.933	−0.05	0.384	34	14	570	471	67.2	72.0	9.2	88.0	−2.4	91.4	91.4	91.6	72.0	−1.1	27.6	27.7	92.4
0085−Y00R	79.7	−0.9	31.6	31.6	91.8	0.937	−0.038	0.397	34	14	570	471	66.1	70.6	6.8	87.3	−1.8	98.7	98.7	91.1	70.6	−0.8	28.0	28.0	91.8
0090−Y00R	78.0	−0.5	31.8	31.8	91.2	0.941	−0.026	0.409	34	14	570	471	65.0	69.1	4.6	86.5	−1.2	107.1	107.1	90.7	69.1	−0.5	28.2	28.2	91.2
0095−Y00R	76.2	−0.2	32.0	32.0	90.5	0.945	−0.014	0.42	34	14	570	472	63.8	67.5	2.5	85.8	−0.5	118.3	118.3	90.3	67.5	−0.2	28.4	28.4	90.5
0099−Y00R	74.5	0.0	32.1	32.1	89.9	0.95	−0.003	0.431	34	14	571	472	62.7	66.0	0.6	85.0	0.1	137.7	137.7	90.0	66.0	0.0	28.5	28.5	89.9

TN110−7N, NCS colours, normalized: *Yn* = *Yw* = 100 & 891/2

TUB registration: 20130201-TN11/TN11L0NP.PDF /.PS
application for measurement of display output

TUB material: code=rha4ta

TUB-test chart TN11; ; CIE data: 4 elementary colours
Calculated from *XYZ* of NCS-Standard SS019104:1998

input: *w/rgb/cmyk* −> *w/rgb/cmyk*−
output: no change compared

Cod.	i	$[X, Y, Z, x, y]_{100}$					$[L^*, a^*, b^*, C^*_{ab}, h_{ab}, a', b', c'_{ab}]_{100}$								$[Y, A, B, C_{AB}, h_{AB}, a, b, c_{AB}]_{100}$								$[i_d, i_c, \lambda_d, \lambda_c]_{100}$				$[X, Y, Z]_{89}$			$[L^*, a^*, b^*, C^*_{ab}, h_{ab}]_{89}$					$[Y, A, B, C_{AB}, h_{AB}]_{89}$				
9900−W99N	80	0.7	0.8	0.9	0.312	0.329	7.0	0.0	0.0	0.0	227.8	0.215	−0.215	0.01	0.8	0.0	0.0	0.0	229.9	0.949	−0.435	0.01	16	36	481	583	0.7	0.7	0.8	6.2	0.0	0.0	0.0	227.8	0.7	0.0	0.0	0.0	229.7
9500−W95N	81	2.4	2.5	2.8	0.312	0.329	18.1	0.0	0.0	0.0	164.0	0.215	−0.214	0.01	2.5	0.0	0.0	0.0	160.6	0.949	−0.434	0.01	20	−1	504	504c	2.1	2.2	2.4	16.7	0.0	0.0	0.0	164.0	2.2	0.0	0.0	0.0	160.5
9000−W90N	82	4.2	4.4	4.8	0.313	0.329	25.0	0.0	0.0	0.0	329.0	0.215	−0.215	0.01	4.4	0.0	0.0	0.0	326.1	0.95	−0.434	0.01	−1	27	537c	537	3.7	3.9	4.2	23.3	0.0	0.0	0.0	329.0	3.9	0.0	0.0	0.0	326.2
8500−W85N	83	6.1	6.4	7.0	0.313	0.329	30.4	0.0	0.0	0.1	325.8	0.215	−0.215	0.01	6.4	0.0	0.0	0.0	322.4	0.95	−0.435	0.01	−1	28	542c	542	5.4	5.7	6.2	28.6	0.0	0.0	0.1	325.8	5.7	0.0	0.0	0.0	322.5
8000−W80N	84	8.1	8.6	9.3	0.313	0.329	35.1	0.0	0.0	0.0	318.5	0.215	−0.215	0.01	8.6	0.0	0.0	0.0	314.9	0.95	−0.434	0.01	−1	30	550c	550	7.2	7.6	8.3	33.1	0.0	0.0	0.0	318.5	7.6	0.0	0.0	0.0	315.0
7500−W75N	85	10.4	10.9	11.9	0.313	0.329	39.4	0.1	0.0	0.1	351.1	0.216	−0.214	0.01	10.9	0.0	0.0	0.0	350.1	0.95	−0.434	0.01	−1	19	497c	497	9.2	9.7	10.5	37.2	0.1	0.0	0.1	351.1	9.7	0.0	0.0	0.0	350.1
7000−W70N	86	12.8	13.4	14.6	0.313	0.329	43.4	0.1	0.0	0.1	331.0	0.215	−0.215	0.01	13.4	0.0	0.0	0.0	327.7	0.95	−0.434	0.01	−1	26	533c	533	11.3	11.9	12.9	41.0	0.1	0.0	0.1	331.0	11.9	0.0	0.0	0.0	327.8
6500−W65N	87	15.4	16.1	17.6	0.313	0.329	47.2	0.1	0.0	0.1	342.8	0.216	−0.215	0.01	16.1	0.0	0.0	0.0	340.6	0.95	−0.434	0.01	−1	21	506c	506	13.6	14.3	15.6	44.7	0.1	0.0	0.1	342.8	14.3	0.0	0.0	0.0	340.6
6000−W60N	88	18.2	19.1	20.8	0.313	0.329	50.8	0.1	0.0	0.1	334.8	0.216	−0.215	0.01	19.1	0.0	0.0	0.0	331.8	0.95	−0.435	0.01	−1	24	523c	523	16.1	16.9	18.5	48.2	0.1	0.0	0.1	334.8	16.9	0.0	0.0	0.0	331.8
5500−W55N	89	21.3	22.4	24.4	0.313	0.329	54.4	0.1	0.0	0.1	344.2	0.216	−0.214	0.01	22.4	0.0	0.0	0.0	342.1	0.95	−0.434	0.01	−1	20	504c	504	18.9	19.8	21.6	51.7	0.1	0.0	0.1	344.2	19.8	0.0	0.0	0.0	342.1
5000−W50N	90	24.7	26.0	28.3	0.313	0.329	58.0	0.1	0.0	0.2	339.5	0.216	−0.215	0.01	26.0	0.0	0.0	0.0	336.9	0.951	−0.435	0.01	−1	22	512c	512	21.9	23.0	25.0	55.1	0.1	0.0	0.1	339.5	23.0	0.0	0.0	0.0	336.9
4500−W45N	91	28.4	29.9	32.6	0.313	0.329	61.6	0.1	0.0	0.1	337.4	0.216	−0.215	0.01	29.9	0.0	0.0	0.0	334.6	0.951	−0.435	0.01	−1	23	517c	517	25.2	26.5	28.9	58.5	0.1	0.0	0.1	337.4	26.5	0.0	0.0	0.0	334.6
4000−W40N	92	32.6	34.3	37.3	0.313	0.329	65.2	0.1	0.0	0.1	340.2	0.216	−0.215	0.01	34.3	0.0	0.0	0.0	337.6	0.95	−0.434	0.01	−1	22	511c	511	28.9	30.4	33.1	62.0	0.1	0.0	0.1	340.2	30.4	0.0	0.0	0.0	337.6
3500−W35N	93	37.2	39.2	42.7	0.313	0.329	68.9	0.1	0.0	0.1	338.0	0.216	−0.215	0.01	39.2	0.0	0.0	0.0	335.2	0.95	−0.435	0.01	−1	23	515c	515	33.0	34.7	37.8	65.5	0.1	0.0	0.1	338.0	34.7	0.0	0.0	0.0	335.2
3000−W30N	94	42.4	44.7	48.6	0.313	0.329	72.7	0.1	0.0	0.2	341.0	0.216	−0.215	0.01	44.7	0.0	0.0	0.1	338.5	0.951	−0.434	0.01	−1	21	509c	509	37.6	39.6	43.1	69.2	0.1	0.0	0.2	341.0	39.6	0.0	0.0	0.0	338.5
2500−W25N	95	48.3	50.8	55.4	0.313	0.329	76.6	0.1	0.0	0.2	336.2	0.216	−0.215	0.01	50.8	0.1	0.0	0.1	333.2	0.95	−0.435	0.01	−1	24	520c	520	42.8	45.0	49.0	72.9	0.1	0.0	0.2	336.2	45.0	0.0	0.0	0.1	333.2
2000−W20N	96	55.0	57.9	63.1	0.313	0.329	80.7	0.2	0.0	0.2	338.8	0.216	−0.215	0.01	57.9	0.1	0.0	0.1	336.0	0.95	−0.435	0.01	−1	22	514c	514	48.8	51.3	55.9	76.9	0.1	0.0	0.2	338.8	51.3	0.1	0.0	0.1	336.0
1500−W15N	97	62.8	66.0	71.9	0.313	0.329	85.0	0.2	0.0	0.2	339.6	0.216	−0.215	0.01	66.0	0.1	0.0	0.1	336.9	0.95	−0.434	0.01	−1	22	512c	512	55.6	58.5	63.7	81.0	0.2	0.0	0.2	339.6	58.5	0.1	0.0	0.1	337.0
1000−W10N	98	71.7	75.5	82.2	0.313	0.329	89.6	0.2	0.0	0.2	338.8	0.216	−0.215	0.01	75.5	0.1	0.0	0.1	336.1	0.95	−0.435	0.01	−1	22	513c	513	63.6	66.9	72.8	85.4	0.2	0.0	0.2	338.8	66.9	0.1	0.0	0.1	336.1
0500−W05N	99	82.3	86.6	94.3	0.313	0.329	94.6	0.2	0.0	0.2	338.5	0.216	−0.215	0.01	86.6	0.1	0.0	0.1	335.7	0.95	−0.435	0.01	−1	22	514c	514	72.9	76.7	83.5	90.2	0.2	0.0	0.2	338.5	76.7	0.1	0.0	0.1	335.7
0000−W00N	100	94.9	99.9	108.8	0.313	0.329	100.0	0.2	0.0	0.2	338.2	0.216	−0.215	0.01	99.9	0.1	0.0	0.1	335.4	0.95	−0.435	0.01	−1	23	515c	515	84.1	88.5	96.4	95.4	0.2	0.0	0.2	338.2	88.5	0.1	0.0	0.1	335.4

TN110−7N, NCS colours, normalized: *Yn* = *Yw* = 100 & 892/2

TUB-test chart TN11; ; CIE data: 4 elementary colours
Calculated from *XYZ* of NCS-Standard SS019104:1998

input: *w/rgb/cmyk −> rgb*$_d$
output: transfer to *rgb*$_d$