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TUB registration: 20220401-CEY5/CEY5L0NP.PDF /.PS
application for evaluation and measurement of display or print output
TUB material: code=rha4ta

Code	X	Y	Z	x	y	A	B	C _{AB}	a	b	h _{AB}	i _d	λ _d	i _c	λ _c
P65	96.86	99.99	112.33	0.313	0.323	0.0	0.0	0.0	0.968	-0.449	0				
520_705	77.59	82.03	1.14	0.482	0.51	-1.86	36.4	36.44	0.945	-0.005	92	40	575	20	476
380_520	19.17	17.86	111.07	0.129	0.12	1.86	-36.4	36.44	1.073	-2.486	272	20	476	40	575
P60	97.06	99.99	104.57	0.321	0.331	0.0	0.0	0.0	0.97	-0.418	0				
520_705	79.2	82.67	1.13	0.485	0.507	-1.04	34.12	34.14	0.958	-0.005	91	40	576	20	476
380_520	17.76	17.22	103.33	0.128	0.124	1.04	-34.12	34.14	1.031	-2.399	271	20	476	40	576
P55	97.45	99.99	95.98	0.332	0.34	0.0	0.0	0.0	0.974	-0.383	0				
520_705	81.13	83.41	1.11	0.489	0.503	-0.15	31.57	31.57	0.972	-0.005	90	40	577	20	477
380_520	16.22	16.48	94.77	0.127	0.129	0.15	-31.57	31.57	0.984	-2.299	270	20	477	40	577
P50	98.12	100.0	86.5	0.344	0.351	0.0	0.0	0.0	0.981	-0.346	0				
520_705	83.5	84.28	1.09	0.494	0.499	0.8	28.72	28.73	0.99	-0.005	88	40	577	20	477
380_520	14.52	15.61	85.31	0.125	0.135	-0.8	-28.72	28.73	0.929	-2.185	268	20	477	40	577
P45	99.2	100.0	76.07	0.36	0.363	0.0	0.0	0.0	0.992	-0.304	0				
520_705	86.44	85.3	1.06	0.5	0.493	1.81	25.53	25.59	1.013	-0.005	85	40	578	20	478
380_520	12.66	14.59	74.92	0.123	0.142	-1.81	-25.53	25.59	0.867	-2.053	265	20	478	40	578
P40	100.93	99.99	64.68	0.379	0.376	0.0	0.0	0.0	1.009	-0.258	0				
520_705	90.18	86.52	1.03	0.507	0.486	2.85	21.97	22.15	1.042	-0.004	82	40	579	20	479
380_520	10.65	13.37	63.59	0.121	0.152	-2.85	-21.97	22.15	0.796	-1.901	262	20	479	40	579
P35	103.66	100.0	52.43	0.404	0.39	0.0	0.0	0.0	1.036	-0.209	0				
520_705	95.05	87.97	0.98	0.516	0.478	3.86	18.05	18.46	1.08	-0.004	77	41	580	21	480
380_520	8.5	11.92	51.39	0.118	0.166	-3.86	-18.05	18.46	0.712	-1.723	257	21	480	41	580
P30	108.04	100.0	39.55	0.436	0.403	0.0	0.0	0.0	1.08	-0.158	0				
520_705	101.65	89.71	0.91	0.528	0.466	4.72	13.82	14.6	1.133	-0.004	71	41	582	21	482
380_520	6.28	10.18	38.59	0.114	0.185	-4.72	-13.82	14.6	0.616	-1.515	251	21	482	41	582

CEY50-3N YAB, YB, Pxx

Code	X	Y	Z	x	y	A	B	C _{AB}	a	b	h _{AB}	i _d	λ _d	i _c	λ _c
P65	96.86	99.99	112.33	0.313	0.323	0.0	0.0	0.0	0.968	-0.449	0				
470_570	20.67	60.7	25.64	0.193	0.567	-38.12	17.01	41.75	0.34	-0.168	155	28	518	-1	518c
570_470	76.09	39.19	86.57	0.376	0.194	38.12	-17.01	41.75	1.941	-0.883	335	-1	518c	28	518
P60	97.06	99.99	104.57	0.321	0.331	0.0	0.0	0.0	0.97	-0.418	0				
470_570	20.53	59.96	24.52	0.195	0.57	-37.67	15.27	40.65	0.342	-0.163	157	28	517	-1	517c
570_470	76.44	39.93	79.93	0.389	0.203	37.67	-15.27	40.65	1.914	-0.8	337	-1	517c	28	517
P55	97.45	99.99	95.98	0.332	0.34	0.0	0.0	0.0	0.974	-0.383	0				
470_570	20.35	59.05	23.24	0.198	0.575	-37.2	13.37	39.53	0.344	-0.157	160	28	517	-1	517c
570_470	77.0	40.84	72.64	0.404	0.214	37.2	-13.37	39.53	1.885	-0.711	340	-1	517c	28	517
P50	98.12	100.0	86.5	0.344	0.351	0.0	0.0	0.0	0.981	-0.346	0				
470_570	20.12	57.94	21.75	0.201	0.58	-36.72	11.34	38.43	0.347	-0.15	162	28	516	-1	516c
570_470	77.89	41.95	64.65	0.422	0.227	36.72	-11.34	38.43	1.856	-0.616	342	-1	516c	28	516
P45	99.2	100.0	76.07	0.36	0.363	0.0	0.0	0.0	0.992	-0.304	0				
470_570	19.83	56.53	20.02	0.205	0.586	-36.24	9.19	37.39	0.352	-0.141	165	28	515	-1	515c
570_470	79.26	43.36	55.96	0.443	0.242	36.24	-9.19	37.39	1.827	-0.516	345	-1	515c	28	515
P40	100.93	99.99	64.68	0.379	0.376	0.0	0.0	0.0	1.009	-0.258	0				
470_570	19.45	54.72	18.01	0.21	0.593	-35.78	6.95	36.45	0.355	-0.131	169	28	515	-1	515c
570_470	81.37	45.17	46.6	0.469	0.26	35.78	-6.95	36.45	1.801	-0.412	349	-1	515c	28	515
P35	103.66	100.0	52.43	0.404	0.39	0.0	0.0	0.0	1.036	-0.209	0				
470_570	18.92	52.34	15.66	0.217	0.602	-35.34	4.71	35.65	0.361	-0.119	172	27	514	-1	514c
570_470	84.64	47.55	36.71	0.501	0.281	35.34	-4.71	35.65	1.779	-0.308	352	-1	514c	27	514
P30	108.04	100.0	39.55	0.436	0.403	0.0	0.0	0.0	1.08	-0.158	0				
470_570	18.16	49.1	12.93	0.226	0.612	-34.89	2.59	34.99	0.369	-0.105	175	27	514	-1	514c
570_470	89.77	50.79	26.57	0.537	0.303	34.89	-2.59	34.99	1.767	-0.209	355	-1	514c	27	514

CEY50-7N YAB, GM, Pxx

TUB-test chart CEY5; YB and GM data; 8 illuminants Pxx; 2°-CIE observer
CIEXYZ, YABCA_bh, and LabC*a*b*h data; wavelength: λ₁, λ₂, λ_d and λ_c

Code	X	Y	Z	x	y	a*	b*	C* _{ab}	a'	b'	h _{ab}	i _d	λ _d	i _c	λ _c
P65	96.86	99.99	112.33	0.313	0.323	0.0	0.0	0.01	0.215	-0.086	0				
520_705	77.59	82.03	1.14	0.482	0.51	-3.69	143.72	143.76	0.213	-0.019	91	40	575	20	476
380_520	19.17	17.86	111.07	0.129	0.12	9.76	-86.61	87.16	0.222	-0.152	276	20	476	40	575
P60	97.06	99.99	104.57	0.321	0.331	0.0	0.0	0.01	0.215	-0.086	0				
520_705	79.2	82.67	1.13	0.485	0.507	-2.04	143.34	143.35	0.214	-0.02	90	40	576	20	476
380_520	17.76	17.22	103.33	0.128	0.124	5.68	-87.93	88.11	0.219	-0.154	273	20	476	40	576
P55	97.45	99.99	95.98	0.332	0.34	0.0	0.0	0.01	0.215	-0.086	0				
520_705	81.13	83.41	1.11	0.489	0.503	-0.3	142.86	142.86	0.215	-0.02	90	40	577	20	477
380_520	16.22	16.48	94.77	0.127	0.129	0.88	-89.5	89.5	0.216	-0.156	270	20	477	40	577
P50	98.12	100.0	86.5	0.344	0.351	0.0	0.0	0.01	0.215	-0.086	0				
520_705	83.5	84.28	1.09	0.494	0.499	1.52	142.22	142.23	0.216	-0.021	89	40	577	20	477
380_520	14.52	15.61	85.31	0.125	0.135	-4.77	-91.39	91.52	0.211	-0.159	267	20	477	40	577
P45	99.2	100.0	76.07	0.36	0.363	0.0	0.0	0.01	0.215	-0.086	0				
520_705	86.44	85.3	1.06	0.5	0.493	3.36	141.36	141.4	0.216	-0.021	88	40	578	20	478
380_520	12.66	14.59	74.92	0.123	0.142	-11.48	-93.71	94.41	0.206	-0.162	263	20	478	40	578
P40	100.93	99.99	64.68	0.379	0.376	0.0	0.0	0.01	0.215	-0.086	0				
520_705	90.18	86.52	1.03	0.507	0.486	5.13	140.16	140.25	0.217	-0.022	87	40	579	20	479
380_520	10.65	13.37	63.59	0.121	0.152	-19.45	-96.58	98.52	0.199	-0.167	258	20	479	40	579
P35	103.66	100.0	52.43	0.404	0.39	0.0	0.0	0.01	0.215	-0.086	0				
520_705	95.05	87.97	0.98	0.516	0.478	6.67	138.42	138.58	0.218	-0.023	87	41	580	21	480
380_520	8.5	11.92	51.39	0.118	0.166	-28.86	-100.23	104.3	0.19	-0.173	253	21	480	41	580
P30	108.04	100.0	39.55	0.436	0.403	0.0	0.0	0.01	0.215	-0.086	0				
520_705	101.65	89.71	0.91	0.528	0.466	7.71	135.78	136.0	0.218	-0.025	86	41	582	21	482
380_520	6.28	10.18	38.59	0.114	0.185	-39.78	-104.97	112.25	0.178	-0.183	249	21	482	41	582

CEY51-3N Lab*, YB, Pxx

Code	X	Y	Z	x	y	a*	b*	C* _{ab}	a'	b'	h _{ab}	i _d	λ _d	i _c	λ _c
P65	96.86	99.99	112.33	0.313	0.323	0.0	0.0	0.01	0.215	-0.086	0				
470_570	20.67	60.7	25.64	0.193	0.567	-124.57	77.11	133.18	0.152	-0.062	159	28	518	-1	518c
570_470	76.09	39.19	86.57	0.376	0.194	95.46	-37.01	102.38	0.271	-0.107	338	-1	518c	28	518
P60	97.06	99.99	104.57	0.321	0.331	0.0	0.0	0.01	0.215	-0.086	0				
470_570	20.53	59.96	24.52	0.195	0.57	-123.73	55.31	131.77	0.152	-0.063	159	28	517	-1	517c
570_470	76.44	39.93	79.93	0.389	0.203	93.53	-35.59	100.08	0.27	-0.107	339	-1	517c	28	517
P55	97.45	99.99	95.98	0.332	0.34	0.0	0.0	0.01	0.215	-0.086	0				
470_570	20.35	59.05	23.24	0.198	0.575	-122.86	53.14	130.22	0.152	-0.064	160	28	517	-1	517c
570_470	77.0	40.84	72.64	0.404	0.214	91.3	-33.88	97.38	0.268	-0.105	339	-1	517c	28	517
P50	98.12	100.0	86.5	0.344	0.351	0.0	0.0	0.01	0.215	-0.086	0				
470_570	20.12	57.94	21.75	0.201	0.58	-121.96	40.49	128.51	0.152	-0.065	161	28	516	-1	516c
570_470	77.89	41.95	64.65	0.422	0.227	88.66	-31.78	94.19	0.266	-0.104	340	-1	516c	28	516
P45	99.2	100.0	76.07	0.36	0.363	0.0	0.0	0.01	0.215	-0.086	0				
470_570	19.83	56.53	20.02	0.205	0.586	-121.08	17.19	126.64	0.152	-0.066	162	28	515	-1	515c
570_470	79.26	43.36	55.96	0.443	0.242	85.52	-29.17	90.36	0.264	-0.102	341	-1	515c	28	515
P40	100.93	99.99	64.68	0.379	0.376	0.0	0.0	0.01	0.215	-0.086	0				
470_570	19.45	54.72	18.01	0.21	0.593	-120.17	2.98	124.62	0.152	-0.068	164	28	515	-1	515c
570_470	81.37	45.17	46.6	0.469	0.26	81.73	-25.84	85.72	0.261	-0.1	342	-1	515c	28	515
P35	103.66	100.0	52.43	0.404	0.39	0.0	0.0	0.01	0.215	-0.086	0				
470_570	18.92	52.34	15.66	0.217	0.602	-119.34	27.48	122.46	0.151	-0.071	167	27	514	-1	514c
570_470	84.64	47.55	36.71	0.501	0.281	77.06	-21.49	80.0	0.257	-0.098	344	-1	514c	27	514
P30	108.04	100.0	39.55	0.436	0.403	0.0	0.0	0.01	0.215	-0.086	0				
470_570	18.16	49.1	12.93	0.226	0.612	-118.52	20.0	120.21	0.15	-0.075	170	27	514	-1	514c
570_470	89.77	50.79	26.57	0.537	0.303	71.13	-15.61	72.83	0.253	-0.094	347	-1	514c	27	514

see similar files: <http://farbe.li-tu-berlin.de/CEY5/CEY5.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20220401-CEY5/CEY5L0NP.PDF /.PS
application for evaluation and measurement of display or print output
TUB material: code=rha4ta

Code	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	A ₁₀	B ₁₀	C _{AB,10}	a ₁₀	b ₁₀	h _{AB,10}	i _d	λ _d	i _c	λ _c
P65	96.73	99.99	111.64	0.313	0.324	0.0	0.0	0.0	0.967	-0.446	0				
520_705	76.85	75.87	0.67	0.5	0.494	3.45	33.61	33.78	1.012	-0.003	84	39	573	19	472
380_520	19.78	24.02	110.85	0.127	0.155	-3.45	-33.61	33.78	0.823	-1.845	264	19	472	39	573
P60	97.09	99.99	104.01	0.322	0.332	0.0	0.0	0.0	0.97	-0.416	0				
520_705	78.61	76.75	0.67	0.503	0.491	4.08	31.66	31.93	1.024	-0.003	82	39	574	19	473
380_520	18.38	23.14	103.24	0.126	0.159	-4.08	-31.66	31.93	0.794	-1.784	262	19	473	39	574
P55	97.65	100.0	95.55	0.333	0.341	0.0	0.0	0.0	0.976	-0.382	0				
520_705	80.72	77.78	0.66	0.507	0.488	4.77	29.46	29.84	1.037	-0.003	80	39	574	19	473
380_520	16.82	22.11	94.79	0.125	0.165	-4.77	-29.46	29.84	0.76	-1.714	260	19	473	39	574
P50	98.51	100.0	86.17	0.346	0.351	0.0	0.0	0.0	0.985	-0.344	0				
520_705	83.29	78.97	0.64	0.511	0.484	5.49	26.96	27.51	1.054	-0.003	78	40	575	19	474
380_520	15.11	20.92	85.43	0.124	0.172	-5.49	-26.96	27.51	0.722	-1.633	258	19	474	40	575
P45	99.8	100.0	75.8	0.362	0.362	0.0	0.0	0.0	0.998	-0.303	0				
520_705	86.46	80.38	0.63	0.516	0.479	6.23	24.12	24.91	1.075	-0.003	75	40	576	20	475
380_520	13.23	19.51	75.09	0.122	0.18	-6.23	-24.12	24.91	0.678	-1.539	255	20	475	40	576
P40	101.75	100.0	64.44	0.382	0.375	0.0	0.0	0.0	1.017	-0.257	0				
520_705	90.46	82.05	0.61	0.522	0.473	6.96	20.9	22.03	1.102	-0.002	71	40	577	20	476
380_520	11.18	17.84	63.77	0.12	0.192	-6.96	-20.9	22.03	0.626	-1.429	251	20	476	40	577
P35	104.71	100.0	52.16	0.407	0.389	0.0	0.0	0.0	1.047	-0.208	0				
520_705	95.62	84.05	0.58	0.53	0.466	7.61	17.3	18.9	1.137	-0.002	66	40	578	20	477
380_520	8.98	15.84	51.52	0.117	0.207	-7.61	-17.3	18.9	0.567	-1.3	246	20	477	40	578
P30	109.29	99.99	39.19	0.439	0.402	0.0	0.0	0.0	1.092	-0.156	0				
520_705	102.49	86.43	0.53	0.54	0.456	8.02	13.33	15.56	1.185	-0.002	58	41	580	20	478
380_520	6.69	13.46	38.62	0.113	0.229	-8.02	-13.33	15.56	0.496	-1.147	238	20	478	41	580

CEY50-3N YAB, YB, Pxx

Code	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	A ₁₀	B ₁₀	C _{AB,10}	a ₁₀	b ₁₀	h _{AB,10}	i _d	λ _d	i _c	λ _c
P65	96.73	99.99	111.64	0.313	0.324	0.0	0.0	0.0	0.967	-0.446	0				
470_570	22.92	60.93	21.24	0.218	0.579	-36.01	18.71	40.58	0.376	-0.139	152	29	520	-1	520c
570_470	73.71	38.96	90.28	0.363	0.191	36.01	-18.71	40.58	1.891	-0.926	332	-1	520c	29	520
P60	97.09	99.99	104.01	0.322	0.332	0.0	0.0	0.0	0.97	-0.416	0				
470_570	22.86	60.26	20.37	0.22	0.582	-35.65	16.92	39.46	0.379	-0.135	154	29	520	-1	520c
570_470	74.13	39.63	83.54	0.375	0.2	35.65	-16.92	39.46	1.87	-0.843	334	-1	520c	29	520
P55	97.65	100.0	95.55	0.333	0.341	0.0	0.0	0.0	0.976	-0.382	0				
470_570	22.77	59.44	19.35	0.224	0.585	-35.27	14.97	38.32	0.383	-0.13	156	28	519	-1	519c
570_470	74.78	40.45	76.1	0.39	0.211	35.27	-14.97	38.32	1.848	-0.752	336	-1	519c	28	519
P50	98.51	100.0	86.17	0.346	0.351	0.0	0.0	0.0	0.985	-0.344	0				
470_570	22.65	58.4	18.16	0.228	0.588	-34.88	12.86	37.18	0.387	-0.124	159	28	519	-1	519c
570_470	75.76	41.49	67.91	0.409	0.224	34.88	-12.86	37.18	1.825	-0.654	339	-1	519c	28	519
P45	99.8	100.0	75.8	0.362	0.362	0.0	0.0	0.0	0.998	-0.303	0				
470_570	22.46	57.07	16.77	0.233	0.592	-34.5	10.59	36.09	0.393	-0.117	162	28	517	-1	517c
570_470	77.24	42.82	58.95	0.431	0.239	34.5	-10.59	36.09	1.803	-0.55	342	-1	517c	28	517
P40	101.75	100.0	64.44	0.382	0.375	0.0	0.0	0.0	1.017	-0.257	0				
470_570	22.17	55.33	15.14	0.239	0.597	-34.12	8.2	35.1	0.4	-0.109	166	28	516	-1	516c
570_470	79.47	44.56	49.24	0.458	0.257	34.12	-8.2	35.1	1.783	-0.441	346	-1	516c	28	516
P35	104.71	100.0	52.16	0.407	0.389	0.0	0.0	0.0	1.047	-0.208	0				
470_570	21.74	52.99	13.2	0.247	0.602	-33.75	5.77	34.24	0.41	-0.099	170	28	515	-1	515c
570_470	82.87	46.9	38.9	0.491	0.278	33.75	-5.77	34.24	1.766	-0.331	350	-1	515c	28	515
P30	109.29	99.99	39.19	0.439	0.402	0.0	0.0	0.0	1.092	-0.156	0				
470_570	21.04	49.76	10.92	0.257	0.608	-33.34	3.43	33.52	0.422	-0.087	174	27	513	-1	513c
570_470	88.14	50.13	28.23	0.529	0.301	33.34	-3.43	33.52	1.758	-0.225	354	-1	513c	27	513

CEY50-7N YAB, GM, Pxx

Code	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	a* ₁₀	b* ₁₀	C* _{ab,10}	a'10	b'10	h _{ab,10}	i _d	λ _d	i _c	λ _c
P65	96.73	99.99	111.64	0.313	0.324	0.0	0.0	0.01	0.215	-0.086	0				
520_705	76.85	75.87	0.67	0.5	0.494	7.05	144.32	144.49	0.218	-0.017	87	39	573	19	472
380_520	19.78	24.02	110.85	0.127	0.155	-16.25	-75.21	76.94	0.204	-0.138	257	19	472	39	573
P60	97.09	99.99	104.01	0.322	0.332	0.0	0.0	0.01	0.215	-0.086	0				
520_705	78.61	76.75	0.67	0.503	0.491	8.22	145.14	145.38	0.219	-0.017	86	39	574	19	473
380_520	18.38	23.14	103.24	0.126	0.159	-19.88	-76.72	79.26	0.201	-0.14	255	19	473	39	574
P55	97.65	100.0	95.55	0.333	0.341	0.0	0.0	0.01	0.215	-0.086	0				
520_705	80.72	77.78	0.66	0.507	0.488	9.43	146.1	146.41	0.219	-0.017	86	39	574	19	473
380_520	16.82	22.11	94.79	0.125	0.165	-24.13	-78.53	82.15	0.198	-0.142	252	19	473	39	574
P50	98.51	100.0	86.17	0.346	0.351	0.0	0.0	0.01	0.215	-0.086	0				
520_705	83.29	78.97	0.64	0.511	0.484	10.63	147.23	147.62	0.22	-0.018	85	40	575	19	474
380_520	15.11	20.92	85.43	0.124	0.172	-29.13	-80.71	85.81	0.194	-0.144	250	19	474	40	575
P45	99.8	100.0	75.8	0.362	0.362	0.0	0.0	0.01	0.215	-0.086	0				
520_705	86.46	80.38	0.63	0.516	0.479	11.75	148.58	149.04	0.22	-0.018	85	40	576	20	475
380_520	13.23	19.51	75.09	0.122	0.18	-35.02	-83.38	90.44	0.189	-0.148	247	20	475	40	576
P40	101.75	100.0	64.44	0.382	0.375	0.0	0.0	0.01	0.215	-0.086	0				
520_705	90.46	82.05	0.61	0.522	0.473	12.68	144.81	145.37	0.221	-0.019	84	40	577	20	476
380_520	11.18	17.84	63.77	0.12	0.192	-41.95	-86.71	96.33	0.183	-0.152	244	20	476	40	577
P35	104.71	100.0	52.16	0.407	0.389	0.0	0.0	0.01	0.215	-0.086	0				
520_705	95.62	84.05	0.58	0.53	0.466	13.22	143.99	144.59	0.221	-0.02	84	40	578	20	477
380_520	8.98	15.84	51.52	0.117	0.207	-50.02	-90.96	103.81	0.175	-0.158	241	20	477	40	578
P30	109.29	99.99	39.19	0.439	0.402	0.0	0.0	0.01	0.215	-0.086	0				
520_705	102.49	86.43	0.53	0.54	0.456	13.12	142.51	143.12	0.221	-0.021	84	41	580	20	478
380_520	6.69	13.46	38.62	0.113	0.229	-59.17	-96.52	113.21	0.165	-0.167	238	20	478	41	580

CEY51-3N Lab*, YB, Pxx

Code	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	a* ₁₀	b* ₁₀	C* _{ab,10}	a'10	b'10	h _{ab,10}	i _d	λ _d	i _c	λ _c
P65	96.73	99.99	111.64	0.313	0.324	0.0	0.0	0.01	0.215	-0.086	0				
470_570	22.92	60.93	21.24	0.218	0.579	-114.45	4.52	126.8	0.157	-0.058	154	29	520	-1	520c
570_470	73.71	38.96	90.28	0.363	0.191	91.5	-40.26	99.97	0.269	-0.109	336	-1	520c	29	520
P60	97.09	99.99	104.01	0.322	0.332	0.0	0.0	0.01	0.215	-0.086	0				
470_570	22.86	60.26	20.37	0.22	0.582	-113.55	5.28	125.26	0.157	-0.059	155	29	520	-1	520c
570_470	74.13	39.63	83.54	0.375	0.2	89.73	-39.0	97.85	0.268	-0.109	336	-1	520c	29	520
P55	97.65	100.0	95.55	0.333	0.341	0.0	0.0	0.01	0.215	-0.086	0				
470_570	22.77	59.44	19.35	0.224	0.585	-112.64	6.71	123.53	0.157	-0.06	155	28	519	-1	519c
570_470	74.78	40.45	76.1	0.39	0.211	87.65	-37.47	95.33	0.266	-0.108	336	-1	519c	28	519
P50	98.51	100.0	86.17	0.346	0.351	0.0	0.0	0.01	0.215	-0.086	0				
470_570	22.65	58.4	18.16	0.228	0.588	-111.63	8.14	121.59	0.157	-0.061	156	28	519	-1	519c
570_470	75.76	41.49	67.91	0.409	0.224	85.18	-35.57	92.31	0.264	-0.106	337	-1	519c	28	519
P45	99.8	100.0	75.8	0.362	0.362	0.0	0.0	0.01	0.215	-0.086	0				
470_570	22.46	57.07	16.77	0.233	0.592	-110.63	4.92	119.4	0.157	-0.062	157	28	517	-1	517c
570_470	77.24	42.82	58.95	0.431	0.239	82.2	-33.17	88.65	0.262	-0.105	338	-1	517c	28	517
P40	101.75	100.0	64.44	0.382	0.375	0.0	0.0	0.01	0.215	-0.086	0				
470_570	22.17	55.33	15.14	0.239	0.597	-109.64	40.79	116.94	0.157	-0.064	159	28	516	-1	516c
570_470	79.47	44.56	49.24	0.458	0.257	78.56	-30.08	84.12	0.259	-0.103	339	-1	516c	28	516
P35	104.71	100.0	52.16	0.407	0.389	0.0	0.0	0.01	0.215	-0.086	0				
470_570	21.74	52.99	13.2	0.247	0.602	-108.57	35.33	114.18	0.157	-0.067	161	28	515	-1	515c
570_470	82.87	46.9	38.9	0.491	0.278	74.02	-25.98	78.45	0.256	-0.1	340	-1	515c	28	515
P30	109.29	99.99	39.19	0.439	0.402	0.0	0.0	0.01	0.215	-0.086	0				
470_570	21.04	49.76	10.92	0.257	0.608	-107.52	27.85	111.07	0.156	-0.071	165	27	513	-1	513c
570_470	88.14	50.13	28.23	0.529	0.301	68.21	-20.4	71.19	0.252	-0.097	343	-1	513c	27	513