

see similar files: <http://farbe.li-tu-berlin.de/DE15/DE15.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmeterik>

Code	X	Y	Z	x	y	A ₀	B ₀	CAB ₀	a ₀	b ₀	hAB ₀	i _d	λ _d	i _c	λ _c
P60	97.06	99.99	104.57	0.321	0.331	0.0	0.0	0.0	0.97	-0.418	0				
520_775	79.28	82.75	1.13	0.485	0.507	-1.03	34.16	34.17	0.957	-0.005	91	40	576	20	476
380_520	17.78	17.24	103.43	0.128	0.124	1.03	-34.16	34.17	1.03	-2.398	271	20	476	40	576
P55	97.45	100.0	95.98	0.332	0.34	0.0	0.0	0.0	0.974	-0.383	0				
520_775	81.21	83.49	1.11	0.489	0.503	-0.14	31.61	31.61	0.972	-0.005	90	40	577	20	477
380_520	16.23	16.5	94.86	0.127	0.129	0.14	-31.61	31.61	0.983	-2.299	270	20	477	40	577
P50	98.12	100.0	86.5	0.344	0.351	0.0	0.0	0.0	0.98	-0.346	0				
520_775	83.58	84.36	1.09	0.494	0.499	0.81	28.75	28.76	0.99	-0.005	88	40	577	20	477
380_520	14.53	15.63	85.4	0.125	0.135	-0.8	-28.75	28.76	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	0.991	-0.304	0				
520_775	86.53	85.39	1.06	0.5	0.493	1.82	25.55	25.62	1.013	-0.005	85	40	578	20	478
380_520	12.67	14.6	75.0	0.123	0.142	-1.82	-25.55	25.62	0.867	-2.053	265	20	478	40	578
P40	100.93	100.0	64.68	0.379	0.376	0.0	0.0	0.0	1.009	-0.258	0				
520_775	90.27	86.6	1.03	0.507	0.486	2.86	21.99	22.18	1.042	-0.004	82	40	579	20	479
380_520	10.66	13.39	63.65	0.121	0.152	-2.86	-21.99	22.18	0.795	-1.9	262	20	479	40	579
P35	103.66	99.99	52.43	0.404	0.39	0.0	0.0	0.0	1.036	-0.209	0				
520_775	95.15	88.05	0.98	0.516	0.478	3.86	18.07	18.48	1.08	-0.004	77	41	581	21	480
380_520	8.51	11.94	51.44	0.118	0.166	-3.86	-18.07	18.48	0.712	-1.723	257	21	480	41	581
P30	108.04	100.0	39.55	0.436	0.403	0.0	0.0	0.0	1.08	-0.158	0				
520_775	101.75	89.8	0.92	0.528	0.466	4.73	13.83	14.62	1.132	-0.004	71	41	582	21	482
380_520	6.28	10.19	38.63	0.114	0.185	-4.73	-13.83	14.62	0.616	-1.515	251	21	482	41	582
P25	115.18	100.0	26.59	0.476	0.413	0.0	0.0	0.0	1.151	-0.106	0				
520_775	111.08	91.89	0.82	0.545	0.45	5.23	9.44	10.8	1.208	-0.003	60	42	585	21	484
380_520	4.09	8.1	25.76	0.107	0.213	-5.23	-9.44	10.79	0.505	-1.271	240	21	484	42	585

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Code	X	Y	Z	x	y	A ₀	B ₀	CAB ₀	a ₀	b ₀	hAB ₀	i _d	λ _d	i _c	λ _c
P60	97.06	99.99	104.57	0.321	0.331	0.0	0.0	0.0	0.97	-0.418	0				
475_575	19.71	59.51	18.76	0.201	0.607	-38.04	17.38	41.83	0.331	-0.126	155	29	523	-1	523c
575_475	77.35	40.48	85.8	0.379	0.198	38.03	-17.38	41.81	1.909	-0.847	335	-1	523c	29	523
P55	97.45	100.0	95.98	0.332	0.34	0.0	0.0	0.0	0.974	-0.383	0				
475_575	19.58	58.64	17.85	0.203	0.61	-37.55	15.37	40.57	0.333	-0.121	157	29	523	-1	523c
575_475	77.86	41.35	78.13	0.394	0.209	37.53	-15.37	40.56	1.881	-0.755	337	-1	523c	29	523
P50	98.12	100.0	86.5	0.344	0.351	0.0	0.0	0.0	0.98	-0.346	0				
475_575	19.42	57.56	16.79	0.207	0.613	-37.04	13.19	39.32	0.337	-0.116	160	29	522	-1	522c
575_475	78.69	42.43	69.7	0.412	0.222	37.03	-13.19	39.31	1.853	-0.657	340	-1	522c	29	522
P45	99.2	100.0	76.07	0.36	0.363	0.0	0.0	0.0	0.991	-0.304	0				
475_575	19.2	56.19	15.55	0.211	0.617	-36.53	10.87	38.11	0.341	-0.11	163	29	521	-1	521c
575_475	80.0	43.8	60.52	0.434	0.237	36.52	-10.87	38.1	1.825	-0.552	343	-1	521c	29	521
P40	100.93	100.0	64.68	0.379	0.376	0.0	0.0	0.0	1.009	-0.258	0				
475_575	18.89	54.43	14.09	0.216	0.622	-36.02	8.44	37.0	0.347	-0.103	166	29	520	-1	520c
575_475	82.03	45.56	50.59	0.46	0.255	36.02	-8.44	36.99	1.799	-0.444	346	-1	520c	29	520
P35	103.66	99.99	52.43	0.404	0.39	0.0	0.0	0.0	1.036	-0.209	0				
475_575	18.45	52.1	12.36	0.222	0.628	-35.54	5.98	36.04	0.354	-0.094	170	28	518	-1	518c
575_475	85.2	47.89	40.06	0.492	0.276	35.53	-5.98	36.03	1.778	-0.334	350	-1	518c	28	518
P30	108.04	100.0	39.55	0.436	0.403	0.0	0.0	0.0	1.08	-0.158	0				
475_575	17.8	48.92	10.33	0.23	0.634	-35.04	3.6	35.23	0.363	-0.084	174	28	517	-1	517c
575_475	90.24	51.07	29.21	0.529	0.299	35.04	-3.6	35.22	1.766	-0.228	354	-1	517c	28	517
P25	115.18	100.0	26.59	0.476	0.413	0.0	0.0	0.0	1.151	-0.106	0				
475_575	16.76	44.42	7.96	0.242	0.642	-34.39	1.54	34.43	0.377	-0.071	177	28	517	-1	517c
575_475	98.42	55.57	18.63	0.57	0.321	34.39	-1.54	34.42	1.77	-0.134	357	-1	517c	28	517

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TUB-test chart DE15; YB & GM data; 8 illuminants; 2°
CIEXYZ, YABCh1 data; wavelength λ_d and λ_c

Code	X	Y	Z	x	y	A ₁	B ₁	CAB ₁	a ₁	b ₁	hAB ₁	i _d	λ _d	i _c	λ _c
P60	97.06	99.99	104.57	0.321	0.331	0.0	0.0	0.0	0.454	-0.418	0				
520_775	79.28	82.75	1.13	0.485	0.507	13.73	34.16	36.81	0.62	-0.005	68	40	576	20	476
380_520	17.78	17.24	103.43	0.128	0.124	-13.72	-34.16	36.81	-0.341	-2.398	248	20	476	40	576
P55	97.45	100.0	95.98	0.332	0.34	0.0	0.0	0.0	0.472	-0.383	0				
520_775	81.21	83.49	1.11	0.489	0.503	13.38	31.61	34.32	0.632	-0.005	67	40	577	20	477
380_520	16.23	16.5	94.86	0.127	0.129	-13.37	-31.61	34.32	-0.338	-2.299	247	20	477	40	577
P50	98.12	100.0	86.5	0.344	0.351	0.0	0.0	0.0	0.494	-0.346	0				
520_775	83.58	84.36	1.09	0.494	0.499	12.95	28.75	31.53	0.647	-0.005	65	40	577	20	477
380_520	14.53	15.63	85.4	0.125	0.135	-12.95	-28.75	31.53	-0.334	-2.185	245	20	477	40	577
P45	99.2	100.0	76.07	0.36	0.363	0.0	0.0	0.0	0.521	-0.304	0				
520_775	86.53	85.39	1.06	0.5	0.493	12.43	25.55	28.41	0.666	-0.005	64	40	578	20	478
380_520	12.67	14.6	75.0	0.123	0.142	-12.42	-25.55	28.41	-0.329	-2.053	244	20	478	40	578
P40	100.93	100.0	64.68	0.379	0.376	0.0	0.0	0.0	0.554	-0.258	0				
520_775	90.27	86.6	1.03	0.507	0.486	11.77	21.99	24.94	0.69	-0.004	61	40	579	20	479
380_520	10.66	13.39	63.65	0.121	0.152	-11.76	-21.99	24.94	-0.323	-1.9	241	20	479	40	579
P35	103.66	99.99	52.43	0.404	0.39	0.0	0.0	0.0	0.598	-0.209	0				
520_775	95.15	88.05	0.98	0.516	0.478	10.93	18.07	21.12	0.722	-0.004	58	41	581	21	480
380_520	8.51	11.94	51.44	0.118	0.166	-10.92	-18.07	21.12	-0.316	-1.723	238	21	480	41	581
P30	108.04	100.0	39.55	0.436	0.403	0.0	0.0	0.0	0.656	-0.158	0				
520_775	101.75	89.8	0.92	0.528	0.466	9.83	13.83	16.97	0.766	-0.004	54	41	582	21	482
380_520	6.28	10.19	38.63	0.114	0.185	-9.83	-13.83	16.97	-0.307	-1.515	234	21	482	41	582
P25	115.18	100.0	26.59	0.476	0.413	0.0	0.0	0.0	0.738	-0.106	0				
520_775	111.08	91.89	0.82	0.545	0.45	8.37	9.44	12.62	0.829	-0.003	48	42	585	21	484
380_520	4.09	8.1	25.76	0.107	0.213	-8.37	-9.44	12.62	-0.295	-1.271	228	21	484	42	585

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Code	X	Y	Z	x	y	A ₁	B ₁	CAB ₁	a ₁	b ₁	hAB ₁	i _d	λ _d	i _c	λ _c
P60	97.06	99.99	104.57	0.321	0.331	0.0	0.0	0.0	0.454	-0.418	0				
475_575	19.71	59.51	18.76	0.201	0.607	-24.11	17.38	29.72	0.049	-0.126	144	29	523	-1	523c
575_475	77.35	40.48	85.8	0.379	0.198	24.1	-17.38	29.72	1.05	-0.847	324	-1	523c	29	523
P55	97.45	100.0	95.98	0.332	0.34	0.0	0.0	0.0	0.472	-0.383	0				
475_575	19.58	58.64	17.85	0.203	0.61	-24.56	15.37	28.97	0.053	-0.121	147	29	523	-1	523c
575_475	77.86	41.35	78.13	0.394	0.209	24.55	-15.37	28.96	1.066	-0.755	327	-1	523c	29	523
P50	98.12	100.0	86.5	0.344	0.351	0.0	0.0	0.0	0.494	-0.346	0				
475_575	19.42	57.56	16.79	0.207	0.613	-25.06	13.19	28.33	0.058	-0.116	152	29	522	-1	522c
575_475	78.69	42.43	69.7	0.412	0.222	25.06	-13.19	28.32	1.084	-0.657	332	-1	522c	29	522
P45	99.2	100.0	76.07	0.36	0.363	0.0	0.0	0.0	0.521	-0.304	0				
475_575	19.2	56.19	15.55	0.211	0.617	-25.63	10.87	27.84	0.064	-0.11	157	29	521	-1	521c
575_475	80.0	43.8	60.52	0.434	0.237	25.62	-10.87	27.84	1.106	-0.552	336	-1	521c	29	521
P40	100.93	100.0	64.68	0.379	0.376	0.0	0.0	0.0	0.554	-0.258	0				
475_575	18.89	54.43	14.09	0.216	0.622	-26.25	8.44	27.58	0.072	-0.103	162	29	520	-1	520c
575_475	82.03	45.56	50.59	0.46	0.255	26.25	-8.44	27.57	1.131	-0.444	342	-1	520c	29	520
P35	103.66	99.99	52.43	0.404	0.39	0.0	0.0	0.0	0.598	-0.209	0				
475_575	18.45	52.1	12.36	0.222	0.628	-26.91	5.98	27.56	0.082	-0.094	167	28	518	-1	518c
575_475	85.2	47.89	40.06	0.492	0.276	26.9	-5.98	27.56	1.16	-0.334	347	-1	518c	28	518
P30	108.04	100.0	39.55	0.436	0.403	0.0	0.0	0.0	0.656	-0.158	0				
475_575	17.8	48.92	10.33	0.23	0.634	-27.51	3.6	27.74	0.094	-0.084	172	28	517	-1	517c
575_475	90.24	51.07	29.21	0.529	0.299	27.5	-3.6	27.74	1.195	-0.228	352	-1	517c	28	517
P25	115.18	100.0	26.59	0.476	0.413	0.0	0.0	0.0	0.738	-0.106	0				
475_575	16.76	44.42	7.96	0.242	0.642	-27.85	1.54	27.9	0.111	-0.071	176	28	517	-1	517c
575_475	98.42	55.57	18.63	0.57	0.321	27.85	-1.54	27.89	1.239	-0.134	356	-1	517c	28	517

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Code	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	A _{0,10}	B _{0,10}	C _{AB0,10}	a _{0,10}	b _{0,10}	h _{AB0,10}	i _d	λ _d	i _c	λ _c
P60	97.09	99.99	104.01	0.322	0.332	0.0	0.0	0.0	0.97	-0.416	0				
520_775	78.69	76.83	0.67	0.503	0.491	4.1	31.69	31.96	1.024	-0.003	82	39	574	19	473
380_520	18.39	23.16	103.34	0.126	0.159	-4.09	-31.69	31.96	0.793	-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_775	80.81	77.85	0.66	0.507	0.488	4.78	29.49	29.87	1.037	-0.003	80	39	574	19	473
380_520	16.84	22.14	94.89	0.125	0.165	-4.78	-29.49	29.87	0.76	-1.714	260	19	473	39	574
P50	98.51	99.99	86.17	0.346	0.351	0.0	0.0	0.0	0.984	-0.344	0				
520_775	83.37	79.05	0.64	0.511	0.484	5.5	26.98	27.54	1.054	-0.003	78	40	575	19	474
380_520	15.13	20.94	85.52	0.124	0.172	-5.5	-26.98	27.54	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	0.997	-0.303	0				
520_775	86.55	80.46	0.63	0.516	0.479	6.25	24.14	24.94	1.075	-0.003	75	40	576	20	475
380_520	13.24	19.53	75.17	0.122	0.18	-6.24	-24.14	24.94	0.677	-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_775	90.55	82.13	0.61	0.522	0.473	6.98	20.92	22.06	1.102	-0.002	71	40	577	20	476
380_520	11.19	17.86	63.83	0.12	0.192	-6.97	-20.92	22.06	0.626	-1.429	251	20	476	40	577
P35	104.71	99.99	52.16	0.407	0.389	0.0	0.0	0.0	1.046	-0.208	0				
520_775	95.71	84.13	0.58	0.53	0.466	7.62	17.32	18.92	1.137	-0.002	66	40	578	20	477
380_520	8.99	15.86	51.57	0.117	0.207	-7.61	-17.32	18.92	0.566	-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_775	102.59	86.52	0.54	0.54	0.456	8.03	13.35	15.58	1.185	-0.002	58	41	580	20	478
380_520	6.69	13.47	38.65	0.113	0.229	-8.03	-13.35	15.57	0.496	-1.147	238	20	478	41	580
P25	116.54	99.99	26.13	0.48	0.412	0.0	0.0	0.0	1.165	-0.104	0				
520_775	112.13	89.37	0.47	0.555	0.442	7.96	9.15	12.13	1.254	-0.002	48	41	583	21	480
380_520	4.41	10.62	25.65	0.108	0.26	-7.96	-9.15	12.13	0.415	-0.966	228	21	480	41	583

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Code	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	A _{0,10}	B _{0,10}	C _{AB0,10}	a _{0,10}	b _{0,10}	h _{AB0,10}	i _d	λ _d	i _c	λ _c
P60	97.09	99.99	104.01	0.322	0.332	0.0	0.0	0.0	0.97	-0.416	0				
475_575	22.14	59.4	15.06	0.229	0.614	-35.52	18.69	40.14	0.372	-0.101	152	30	525	-1	525c
575_475	74.95	40.59	88.95	0.366	0.198	35.51	-18.69	40.13	1.845	-0.876	332	-1	525c	30	525
P55	97.65	100.0	95.55	0.333	0.341	0.0	0.0	0.0	0.976	-0.382	0				
475_575	22.1	58.63	14.37	0.232	0.616	-35.15	16.66	38.89	0.376	-0.098	154	30	525	-1	525c
575_475	75.55	41.36	81.17	0.381	0.208	35.13	-16.66	38.88	1.825	-0.785	334	-1	525c	30	525
P50	98.51	99.99	86.17	0.346	0.351	0.0	0.0	0.0	0.984	-0.344	0				
475_575	22.02	57.66	13.56	0.236	0.618	-34.76	14.45	37.65	0.381	-0.094	157	29	524	-1	524c
575_475	76.48	42.33	72.61	0.399	0.221	34.75	-14.45	37.64	1.805	-0.686	337	-1	524c	29	524
P45	99.8	100.0	75.8	0.362	0.362	0.0	0.0	0.0	0.997	-0.303	0				
475_575	21.89	56.4	12.59	0.24	0.62	-34.38	12.06	36.44	0.388	-0.089	160	29	523	-1	523c
575_475	77.9	43.59	63.2	0.421	0.236	34.37	-12.06	36.43	1.786	-0.579	340	-1	523c	29	523
P40	101.75	100.0	64.44	0.382	0.375	0.0	0.0	0.0	1.017	-0.257	0				
475_575	21.68	54.74	11.45	0.246	0.622	-34.01	9.53	35.32	0.395	-0.083	164	29	522	-1	522c
575_475	80.07	45.25	52.99	0.449	0.253	34.0	-9.53	35.31	1.768	-0.468	344	-1	522c	29	522
P35	104.71	99.99	52.16	0.407	0.389	0.0	0.0	0.0	1.046	-0.208	0				
475_575	21.32	52.5	10.08	0.254	0.625	-33.64	6.92	34.35	0.406	-0.076	168	29	521	-1	521c
575_475	83.39	47.49	42.07	0.482	0.274	33.64	-6.92	34.34	1.755	-0.354	348	-1	521c	29	521
P30	109.29	99.99	39.19	0.439	0.402	0.0	0.0	0.0	1.092	-0.156	0				
475_575	20.71	49.37	8.45	0.263	0.628	-33.24	4.36	33.52	0.419	-0.068	172	28	519	-1	519c
575_475	88.57	50.61	30.74	0.521	0.297	33.23	-4.36	33.52	1.749	-0.242	352	-1	519c	28	519
P25	116.54	99.99	26.13	0.48	0.412	0.0	0.0	0.0	1.165	-0.104	0				
475_575	19.65	44.86	6.51	0.276	0.631	-32.62	2.08	32.69	0.437	-0.058	176	28	517	-1	517c
575_475	96.89	55.13	19.62	0.564	0.321	32.62	-2.08	32.69	1.756	-0.142	356	-1	517c	28	517

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TUB-test chart DE15; YB & GM data; 8 illuminants; 10°
CIEXYZ, YABCh1 data; wavelength λ_d and λ_c

Code	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	A _{1,10}	B _{1,10}	C _{AB1,10}	a _{1,10}	b _{1,10}	h _{AB1,10}	i _d	λ _d	i _c	λ _c
P60	97.09	99.99	104.01	0.322	0.332	0.0	0.0	0.0	0.455	-0.416	0				
520_775	78.69	76.83	0.67	0.503	0.491	16.94	31.69	35.94	0.676	-0.003	61	39	574	19	473
380_520	18.39	23.16	103.34	0.126	0.159	-16.93	-31.69	35.94	-0.275	-1.784	241	19	473	39	574
P55	97.65	100.0	95.55	0.333	0.341	0.0	0.0	0.0	0.475	-0.382	0				
520_775	80.81	77.85	0.66	0.507	0.488	16.56	29.49	33.82	0.687	-0.003	60	39	574	19	473
380_520	16.84	22.14	94.89	0.125	0.165	-16.56	-29.49	33.82	-0.272	-1.714	240	19	473	39	574
P50	98.51	99.99	86.17	0.346	0.351	0.0	0.0	0.0	0.498	-0.344	0				
520_775	83.37	79.05	0.64	0.511	0.484	16.09	26.98	31.42	0.701	-0.003	59	40	575	19	474
380_520	15.13	20.94	85.52	0.124	0.172	-16.09	-26.98	31.42	-0.27	-1.633	239	19	474	40	575
P45	99.8	100.0	75.8	0.362	0.362	0.0	0.0	0.0	0.526	-0.303	0				
520_775	86.55	80.46	0.63	0.516	0.479	15.5	24.14	28.69	0.719	-0.003	57	40	576	20	475
380_520	13.24	19.53	75.17	0.122	0.18	-15.49	-24.14	28.69	-0.266	-1.539	237	20	475	40	576
P40	101.75	100.0	64.44	0.382	0.375	0.0	0.0	0.0	0.562	-0.257	0				
520_775	90.55	82.13	0.61	0.522	0.473	14.73	20.92	25.59	0.741	-0.002	54	40	577	20	476
380_520	11.19	17.86	63.83	0.12	0.192	-14.72	-20.92	25.59	-0.262	-1.429	234	20	476	40	577
P35	104.71	99.99	52.16	0.407	0.389	0.0	0.0	0.0	0.607	-0.208	0				
520_775	95.71	84.13	0.58	0.53	0.466	13.72	17.32	22.09	0.77	-0.002	51	40	578	20	477
380_520	8.99	15.86	51.57	0.117	0.207	-13.71	-17.32	22.09	-0.256	-1.3	231	20	477	40	578
P30	109.29	99.99	39.19	0.439	0.402	0.0	0.0	0.0	0.667	-0.156	0				
520_775	102.59	86.52	0.54	0.54	0.456	12.36	13.35	18.19	0.81	-0.002	47	41	580	20	478
380_520	6.69	13.47	38.65	0.113	0.229	-12.36	-13.35	18.19	-0.249	-1.147	227	20	478	41	580
P25	116.54	99.99	26.13	0.48	0.412	0.0	0.0	0.0	0.75	-0.104	0				
520_775	112.13	89.37	0.47	0.555	0.442	10.51	9.15	13.94	0.867	-0.002	41	41	583	21	480
380_520	4.41	10.62	25.65	0.108	0.26	-10.51	-9.15	13.93	-0.239	-0.966	221	21	480	41	583

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Code	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	A _{1,10}	B _{1,10}	C _{AB1,10}	a _{1,10}	b _{1,10}	h _{AB1,10}	i _d	i _c	λ _c	
P60	97.09	99.99	104.01	0.322	0.332	0.0	0.0	0.0	0.455	-0.416	0				
475_575	22.14	59.4	15.06	0.229	0.614	-21.46	18.69	28.46	0.094	-0.101	138	30	525	-1	525
575_475	74.95	40.59	88.95	0.366	0.198	21.45	-18.69	28.45	0.984	-0.876	318	-1	525c	30	525
P55	97.65	100.0	95.55	0.333	0.341	0.0	0.0	0.0	0.475	-0.382	0				
475_575	22.1	58.63	14.37	0.232	0.616	-22.01	16.66	27.61	0.099	-0.098	142	30	525	-1	525
575_475	75.55	41.36	81.17	0.381	0.208	22.01	-16.66	27.6	1.007	-0.785	322	-1	525c	30	525
P50	98.51	99.99	86.17	0.346	0.351	0.0	0.0	0.0	0.498	-0.344	0				
475_575	22.02	57.66	13.56	0.236	0.618	-22.64	14.45	26.86	0.105	-0.094	147	29	524	-1	524
575_475	76.48	42.33	72.61	0.399	0.221	22.64	-14.45	26.86	1.032	-0.686	327	-1	524c	29	524
P45	99.8	100.0	75.8	0.362	0.362	0.0	0.0	0.0	0.526	-0.303	0				
475_575	21.89	56.4	12.59	0.24	0.62	-23.35	12.06	26.28	0.112	-0.089	152	29	523	-1	523
575_475	77.9	43.59	63.2	0.421	0.236	23.34	-12.06	26.27	1.062	-0.579	332	-1	523c	29	523
P40	101.75	100.0	64.44	0.382	0.375	0.0	0.0	0.0	0.562	-0.257	0				
475_575	21.68	54.74	11.45	0.246	0.622	-24.12	9.53	25.94	0.121	-0.083	158	29	522	-1	522
575_475	80.07	45.25	52.99	0.449	0.253	24.12	-9.53	25.93	1.095	-0.468	338	-1	522c	29	522
P35	104.71	99.99	52.16	0.407	0.389	0.0	0.0	0.0	0.607	-0.208	0				
475_575	21.32	52.5	10.08	0.254	0.625	-24.93	6.92	25.88	0.132	-0.076	164	29	521	-1	521
575_475	83.39	47.49	42.07	0.482	0.274	24.93	-6.92	25.87	1.132	-0.354	344	-1	521c	29	521
P30	109.29	99.99	39.19	0.439	0.402	0.0	0.0	0.0	0.667	-0.156	0				
475_575	20.71	49.37	8.45	0.263	0.628	-25.69	4.36	26.06	0.147	-0.068	170	28	519	-1	519
575_475	88.57	50.61	30.74	0.521	0.297	25.69	-4.36	26.05	1.175	-0.242	350	-1	519c	28	519
P25	116.54	99.99	26.13	0.48	0.412	0.0	0.0	0.0	0.75	-0.104	0				
475_575	19.65	44.86	6.51	0.276	0.631	-26.15	2.08	26.24	0.167	-0.058	175	28	517	-1	517
575_475	96.89	55.13	19.62	0.564	0.321	26.15	-2.08	26.23	1.224	-0.142	355	-1	517c	28	517