

see similar files: <http://farbe.li-tu-berlin.de/CEY4/CEY4.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmeterik>

Code	X	Y	Z	x	y	A	B	C _{AB}	a	b	h _{AB}	i _d	λ _d	i _c	λ _c
D65	95.04	99.99	108.89	0.312	0.329	0.0	0.0	0.0	0.95	-0.435	0				
520_705	76.58	81.9	1.16	0.479	0.513	-1.26	35.21	35.23	0.935	-0.005	92	40	575	20	476
380_520	18.35	17.99	107.61	0.127	0.124	1.26	-35.21	35.23	1.02	-2.392	272	20	476	40	575
D50	96.42	100.0	82.49	0.345	0.358	0.0	0.0	0.0	0.964	-0.329	0				
520_705	82.68	84.21	1.11	0.492	0.501	1.48	27.34	27.38	0.981	-0.005	86	40	577	20	478
380_520	13.64	15.68	81.29	0.123	0.141	-1.48	-27.34	27.38	0.869	-2.073	266	20	478	40	577
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
A00	109.84	99.99	35.58	0.447	0.407	0.0	0.0	0.0	1.098	-0.142	0				
520_705	104.13	90.3	0.89	0.533	0.462	4.92	12.49	13.43	1.153	-0.003	68	41	583	21	483
380_520	5.6	9.59	34.65	0.112	0.192	-4.92	-12.49	13.43	0.584	-1.445	248	21	483	41	583
E00	100.0	100.0	100.0	0.333	0.333	0.0	0.0	0.0	1.0	-0.4	0				
520_705	82.86	83.57	1.09	0.494	0.498	-0.71	32.99	33.0	0.991	-0.005	91	40	577	20	476
380_520	17.03	16.32	98.8	0.128	0.123	0.71	-32.99	33.0	1.043	-2.421	271	20	476	40	577
C00	98.07	100.0	118.22	0.31	0.316	0.0	0.0	0.0	0.98	-0.472	0				
520_705	77.91	81.94	1.09	0.484	0.509	-2.44	38.31	38.39	0.95	-0.005	93	40	576	20	475
380_520	20.05	17.95	117.01	0.129	0.115	2.44	-38.31	38.39	1.116	-2.606	273	20	475	40	576
P00	102.06	100.0	81.06	0.36	0.353	0.0	0.0	0.0	1.02	-0.324	0				
520_705	88.32	85.38	1.04	0.505	0.488	1.17	27.26	27.29	1.034	-0.004	87	40	579	20	477
380_520	13.64	14.51	79.93	0.126	0.134	-1.17	-27.26	27.29	0.939	-2.202	267	20	477	40	579
Q00	97.93	100.0	118.95	0.309	0.315	0.0	0.0	0.0	0.979	-0.475	0				
520_705	77.4	81.76	1.14	0.482	0.51	-2.67	38.44	38.54	0.946	-0.005	93	40	576	20	475
380_520	20.42	18.13	117.68	0.13	0.116	2.67	-38.44	38.54	1.126	-2.596	273	20	475	40	576

CEY40-3N YAB, YB, Dxx

Code	X	Y	Z	x	y	A	B	C _{AB}	a	b	h _{AB}	i _d	λ _d	i _c	λ _c
D65	95.04	99.99	108.89	0.312	0.329	0.0	0.0	0.0	0.95	-0.435	0				
470_570	20.94	61.44	26.3	0.192	0.565	-37.45	16.24	40.82	0.34	-0.171	156	28	517	-1	517c
570_470	74.0	38.45	82.47	0.379	0.197	37.45	-16.24	40.82	1.924	-0.857	336	-1	517c	28	517
D50	96.42	100.0	82.49	0.345	0.358	0.0	0.0	0.0	0.964	-0.329	0				
470_570	20.35	58.72	22.14	0.201	0.58	-36.26	10.51	37.76	0.346	-0.15	163	28	515	-1	515c
570_470	75.97	41.17	60.26	0.428	0.232	36.26	-10.51	37.76	1.844	-0.585	343	-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
A00	109.84	99.99	35.58	0.447	0.407	0.0	0.0	0.0	1.098	-0.142	0				
470_570	17.86	47.88	12.01	0.229	0.615	-34.74	2.0	34.79	0.373	-0.1	176	27	514	-1	514c
570_470	91.87	52.01	23.52	0.548	0.31	34.74	-2.0	34.79	1.766	-0.18	356	-1	514c	27	514
E00	100.0	100.0	100.0	0.333	0.333	0.0	0.0	0.0	1.0	-0.4	0				
470_570	20.09	58.12	23.14	0.198	0.573	-38.02	13.99	40.51	0.345	-0.159	159	28	517	-1	517c
570_470	79.8	41.77	76.75	0.402	0.21	38.02	-13.99	40.51	1.91	-0.734	339	-1	517c	28	517
C00	98.07	100.0	118.22	0.31	0.316	0.0	0.0	0.0	0.98	-0.472	0				
470_570	21.27	60.55	27.65	0.194	0.553	-38.11	17.57	41.97	0.351	-0.182	155	28	518	-1	518c
570_470	76.7	39.34	90.45	0.371	0.19	38.11	-17.57	41.97	1.949	-0.919	335	-1	518c	28	518
P00	102.06	100.0	81.06	0.36	0.353	0.0	0.0	0.0	1.02	-0.324	0				
470_570	19.54	55.53	20.11	0.205	0.583	-37.14	9.96	38.45	0.351	-0.144	164	28	516	-1	516c
570_470	82.42	44.36	60.86	0.439	0.236	37.14	-9.96	38.45	1.858	-0.548	344	-1	516c	28	516
Q00	97.93	100.0	118.95	0.309	0.315	0.0	0.0	0.0	0.979	-0.475	0				
470_570	20.65	60.7	26.17	0.192	0.564	-38.79	18.41	42.94	0.34	-0.172	154	28	518	-1	518c
570_470	77.17	39.19	92.65	0.369	0.187	38.79	-18.41	42.94	1.969	-0.945	334	-1	518c	28	518

CEY40-7N YAB, GM, Dxx

TUB-test chart CEY4; YB and GM data; 8 illuminants Dxx; 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
D65	95.04	99.99	108.89	0.312	0.329	0.0	0.0	0.01	0.215	-0.086	0				
520_705	76.58	81.9	1.16	0.479	0.513	-2.53	142.99	143.01	0.214	-0.02	91	40	575	20	476
380_520	18.35	17.99	107.61	0.127	0.124	6.77	-86.32	86.59	0.22	-0.152	274	20	476	40	575
D50	96.42	100.0	82.49	0.345	0.358	0.0	0.0	0.01	0.215	-0.086	0				
520_705	82.68	84.21	1.11	0.492	0.501	2.85	141.13	141.16	0.216	-0.021	88	40	577	20	478
380_520	13.64	15.68	81.29	0.123	0.141	-9.11	-91.18	91.63	0.208	-0.159	264	20	478	40	577
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
A00	109.84	99.99	35.58	0.447	0.407	0.0	0.0	0.01	0.215	-0.086	0				
520_705	104.13	90.3	0.89	0.533	0.462	7.87	134.7	134.93	0.218	-0.026	86	41	583	21	483
380_520	5.6	9.59	34.65	0.112	0.192	-43.36	-106.7	115.18	0.174	-0.186	247	21	483	41	583
E00	100.0	100.0	100.0	0.333	0.333	0.0	0.0	0.01	0.215	-0.086	0				
520_705	82.86	83.57	1.09	0.494	0.498	-1.33	143.87	143.87	0.214	-0.02	90	40	577	20	476
380_520	17.03	16.32	98.8	0.128	0.123	3.91	-89.91	89.99	0.218	-0.157	272	20	476	40	577
C00	98.07	100.0	118.22	0.31	0.316	0.0	0.0	0.01	0.215	-0.086	0				
520_705	77.91	81.94	1.09	0.484	0.509	-4.79	145.12	145.2	0.213	-0.019	91	40	576	20	475
380_520	20.05	17.95	117.01	0.129	0.115	12.49	-86.49	87.39	0.224	-0.152	278	20	475	40	576
P00	102.06	100.0	81.06	0.36	0.353	0.0	0.0	0.01	0.215	-0.086	0				
520_705	88.32	85.38	1.04	0.505	0.488	2.12	142.75	142.76	0.216	-0.021	89	40	579	20	477
380_520	13.64	14.51	79.93	0.126	0.134	-7.12	-93.96	94.23	0.209	-0.163	265	20	477	40	579
Q00	97.93	100.0	118.95	0.309	0.315	0.0	0.0	0.01	0.215	-0.086	0				
520_705	77.4	81.76	1.14	0.482	0.51	-5.25	144.35	144.45	0.213	-0.019	92	40	576	20	475
380_520	20.42	18.13	117.68	0.13	0.116	13.53	-86.1	87.16	0.225	-0.151	278	20	475	40	576

CEY41-3N Lab*, YB, Dxx

Code	X	Y	Z	x	y	a*	b*	C* _{ab}	a'	b'	h _{ab}	i _d	λ _d	i _c	λ _c
D65	95.04	99.99	108.89	0.312	0.329	0.0	0.0	0.01	0.215	-0.086	0				
470_570	20.94	61.44	26.3	0.192	0.565	-123.00	5.48	131.2	0.153	-0.063	159	28	517	-1	517c
570_470	74.0	38.45	82.47	0.379	0.197	96.4	-36.88	103.21	0.272	-0.108	339	-1	517c	28	517
D50	96.42	100.0	82.49	0.345	0.358	0.0	0.0	0.01	0.215	-0.086	0				
470_570	20.35	58.72	22.14	0.201	0.58	-121.0	38.46	126.97	0.153	-0.066	162	28	515	-1	515c
570_470	75.97	41.17	60.26	0.428	0.232	89.84	-31.34	95.15	0.267	-0.104	340	-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	-120.1	82.98	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
A00	109.84	99.99	35.58	0.447	0.407	0.0	0.0	0.01	0.215	-0.086	0				
470_570	17.86	47.88	12.01	0.229	0.615	-118.2	77.18	119.52	0.15	-0.076	171	27	514	-1	514c
570_470	91.87	52.01	23.52	0.548	0.31	69.0	-13.39	70.29	0.252	-0.093	349	-1	514c	27	514
E00	100.0	100.0	100.0	0.333	0.333	0.0	0.0	0.01	0.215	-0.086	0				
470_570	20.09	58.12	23.14	0.198	0.573	-124.4	44.11	131.99	0.151	-0.063	160	28	517	-1	517c
570_470	79.8	41.77	76.75	0.402	0.21	90.01	-33.61	96.08	0.267	-0.105	339	-1	517c	28	517
C00	98.07	100.0	118.22	0.31	0.316	0.0	0.0	0.01	0.215	-0.086	0				
470_570	21.27	60.55	27.65	0.194	0.553	-122.6	45.98	130.95	0.153	-0.062	159	28	518	-1	518c
570_470	76.7	39.34	90.45	0.371	0.19	94.32	-36.38	101.09	0.27	-0.107	338	-1	518c	28	518
P00	102.06	100.0	81.06	0.36	0.353	0.0	0.0	0.01	0.215	-0.086	0				
470_570	19.54	55.53	20.11	0.205	0.583	-122.8	38.72	128.79	0.151	-0.065	162	28	516	-1	516c
570_470	82.42	44.36	60.86	0.439	0.236	84.3	-29.25	89.23	0.263	-0.102	340	-1	516c	28	516
Q00	97.93	100.0	118.95	0.309	0.315	0.0	0.0	0.01	0.215	-0.086	0				
470_570	20.65	60.7	26.17	0.192	0.564	-125.7	48.6	134.8	0.151	-0.061	158	28	518	-1	518c
570_470	77.17	39.19	92.65	0.369	0.187	95.94	-37.66	103.07	0.271	-0.108	338	-1	518c	28	518

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

TUB registration: 20220401-CEY4/CEY4L0NP.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
D65	94.81	100.0	107.33	0.313	0.33	0.0	0.0	0.0	0.948	-0.429	0				
520_705	75.92	75.74	0.68	0.498	0.497	4.11	32.24	32.5	1.002	-0.003	82	39	573	19	473
380_520	18.79	24.15	106.53	0.125	0.161	-4.11	-32.24	32.5	0.777	-1.764	262	19	473	39	573
D50	96.72	99.99	81.41	0.347	0.359	0.0	0.0	0.0	0.967	-0.325	0				
520_705	82.54	78.93	0.66	0.509	0.486	6.19	25.43	26.18	1.045	-0.003	76	40	575	20	475
380_520	14.08	20.96	80.66	0.121	0.181	-6.19	-25.43	26.18	0.671	-1.539	256	20	475	40	575
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
A00	111.15	100.0	35.19	0.451	0.405	0.0	0.0	0.0	1.111	-0.14	0				
520_705	105.05	87.25	0.52	0.544	0.452	8.06	12.07	14.52	1.203	-0.002	56	41	581	20	479
380_520	5.98	12.64	34.64	0.112	0.237	-8.06	-12.07	14.52	0.473	-1.095	236	20	479	41	581
E00	99.99	99.99	100.0	0.333	0.333	0.0	0.0	0.0	0.999	-0.4	0				
520_705	82.17	77.89	0.64	0.511	0.484	4.28	30.9	31.19	1.054	-0.003	82	40	575	19	473
380_520	17.71	22.0	96.26	0.127	0.158	-4.28	-30.9	31.19	0.805	-1.804	262	19	473	40	575
C00	97.28	99.99	116.14	0.31	0.319	0.0	0.0	0.0	0.972	-0.464	0				
520_705	76.86	75.49	0.63	0.502	0.493	3.42	34.81	34.98	1.018	-0.003	84	39	574	19	472
380_520	20.32	24.4	115.39	0.126	0.152	-3.42	-34.81	34.98	0.832	-1.89	264	19	472	39	574
P00	102.37	99.99	81.25	0.36	0.352	0.0	0.0	0.0	1.023	-0.325	0				
520_705	87.97	80.37	0.61	0.52	0.475	5.69	25.87	26.49	1.094	-0.003	77	40	577	19	474
380_520	14.29	19.52	80.55	0.124	0.17	-5.69	-25.87	26.49	0.732	-1.65	257	19	474	40	577
Q00	97.64	100.0	118.42	0.308	0.316	0.0	0.0	0.0	0.976	-0.473	0				
520_705	76.47	75.45	0.67	0.501	0.494	2.79	35.47	35.58	1.013	-0.003	85	39	573	19	472
380_520	21.07	24.44	117.63	0.129	0.149	-2.79	-35.47	35.58	0.862	-1.925	265	19	472	39	573

CEY40-3N YAB, YB, Dxx

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
D65	94.81	100.0	107.33	0.313	0.33	0.0	0.0	0.0	0.948	-0.429	0				
470_570	23.21	61.68	21.81	0.217	0.577	-35.26	17.75	39.48	0.376	-0.141	153	29	520	-1	520c
570_470	71.5	38.21	85.4	0.366	0.195	35.26	-17.75	39.48	1.87	-0.893	333	-1	520c	29	520
D50	96.72	99.99	81.41	0.347	0.359	0.0	0.0	0.0	0.967	-0.325	0				
470_570	22.92	59.2	18.51	0.227	0.588	-34.34	11.87	36.33	0.387	-0.125	160	28	518	-1	518c
570_470	73.7	40.69	62.81	0.415	0.229	34.34	-11.87	36.33	1.811	-0.617	340	-1	518c	28	518
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
A00	111.15	100.0	35.19	0.451	0.405	0.0	0.0	0.0	1.111	-0.14	0				
470_570	20.75	48.53	10.15	0.261	0.61	-33.19	2.77	33.3	0.427	-0.083	175	27	513	-1	513c
570_470	90.28	51.36	25.0	0.541	0.308	33.19	-2.77	33.3	1.757	-0.194	355	-1	513c	27	513
E00	99.99	99.99	100.0	0.333	0.333	0.0	0.0	0.0	0.999	-0.4	0				
470_570	22.46	58.48	19.27	0.224	0.583	-36.02	15.68	39.28	0.384	-0.131	156	28	519	-1	519c
570_470	77.43	41.41	80.62	0.388	0.207	36.02	-15.68	39.28	1.869	-0.778	336	-1	519c	28	519
C00	97.28	99.99	116.14	0.31	0.319	0.0	0.0	0.0	0.972	-0.464	0				
470_570	23.33	60.81	22.94	0.217	0.567	-35.82	19.07	40.58	0.383	-0.15	151	29	520	-1	520c
570_470	73.84	39.08	93.08	0.358	0.189	35.82	-19.07	40.58	1.889	-0.952	331	-1	520c	29	520
P00	102.37	99.99	81.25	0.36	0.352	0.0	0.0	0.0	1.023	-0.325	0				
470_570	22.07	56.06	16.85	0.232	0.59	-35.31	11.47	37.13	0.393	-0.12	161	28	518	-1	518c
570_470	80.19	43.83	64.31	0.425	0.232	35.31	-11.47	37.13	1.829	-0.586	341	-1	518c	28	518
Q00	97.64	100.0	118.42	0.308	0.316	0.0	0.0	0.0	0.976	-0.473	0				
470_570	22.83	60.87	21.65	0.216	0.577	-36.6	20.17	41.79	0.375	-0.142	151	29	521	-1	521c
570_470	74.71	39.02	96.64	0.355	0.185	36.6	-20.17	41.79	1.914	-0.99	331	-1	521c	29	521

CEY40-7N YAB, GM, Dxx

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
D65	94.81	100.0	107.33	0.313	0.33	0.0	0.0	0.01	0.215	-0.086	0				
520_705	75.92	75.74	0.68	0.498	0.497	8.54	144.07	144.32	0.219	-0.017	86	39	573	19	473
380_520	18.79	24.15	106.53	0.125	0.161	-19.88	-74.95	77.55	0.201	-0.138	255	19	473	39	573
D50	96.72	99.99	81.41	0.347	0.359	0.0	0.0	0.01	0.215	-0.086	0				
520_705	82.54	78.93	0.66	0.509	0.486	12.17	146.98	147.48	0.221	-0.018	85	40	575	20	475
380_520	14.08	20.96	80.66	0.121	0.181	-33.98	-80.58	87.46	0.19	-0.144	247	20	475	40	575
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
A00	111.15	100.0	35.19	0.451	0.405	0.0	0.0	0.01	0.215	-0.086	0				
520_705	105.05	87.25	0.52	0.544	0.452	12.9	141.86	142.45	0.221	-0.022	84	41	581	20	479
380_520	5.98	12.64	34.64	0.112	0.237	-62.1	-98.56	116.49	0.162	-0.17	237	20	479	41	581
E00	99.99	99.99	100.0	0.333	0.333	0.0	0.0	0.01	0.215	-0.086	0				
520_705	82.17	77.89	0.64	0.511	0.484	8.29	146.41	146.64	0.219	-0.017	86	40	575	19	473
380_520	17.71	22.0	99.26	0.127	0.158	-21.03	-78.76	81.52	0.2	-0.142	255	19	473	40	575
C00	97.28	99.99	116.14	0.31	0.319	0.0	0.0	0.01	0.215	-0.086	0				
520_705	76.86	75.49	0.63	0.502	0.493	6.97	144.7	144.87	0.218	-0.016	87	39	574	19	472
380_520	20.32	24.4	115.39	0.126	0.152	-15.81	-74.59	76.24	0.204	-0.137	258	19	472	39	574
P00	102.37	99.99	81.25	0.36	0.352	0.0	0.0	0.01	0.215	-0.086	0				
520_705	87.97	80.37	0.61	0.52	0.475	10.48	148.8	149.17	0.22	-0.018	85	40	577	19	474
380_520	14.29	19.52	80.55	0.124	0.17	-30.66	-83.41	88.86	0.192	-0.148	249	19	474	40	577
Q00	97.64	100.0	118.42	0.308	0.316	0.0	0.0	0.01	0.215	-0.086	0				
520_705	76.47	75.45	0.67	0.501	0.494	5.67	144.02	144.13	0.218	-0.016	87	39	573	19	472
380_520	21.07	24.44	117.63	0.129	0.149	-12.69	-74.52	75.59	0.206	-0.137	260	19	472	39	573

CEY41-3N Lab*, YB, Dxx

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
D65	94.81	100.0	107.33	0.313	0.33	0.0	0.0	0.01	0.215	-0.086	0				
470_570	23.21	61.68	21.81	0.217	0.577	-112.82	2.65	124.51	0.158	-0.059	154	29	520	-1	520c
570_470	71.5	38.21	85.4	0.366	0.195	92.28	-40.19	100.65	0.27	-0.11	336	-1	520c	29	520
D50	96.72	99.99	81.41	0.347	0.359	0.0	0.0	0.01	0.215	-0.086	0				
470_570	22.92	59.2	18.51	0.227	0.588	-110.43	5.85	119.59	0.158	-0.062	157	28	518	-1	518c
570_470	73.7	40.69	62.81	0.415	0.229	86.18	-35.22	93.1	0.265	-0.106	337	-1	518c	28	518
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
A00	111.15	100.0	35.19	0.451	0.405	0.0	0.0	0.01	0.215	-0.086	0				
470_570	20.75	48.53	10.15	0.261	0.61	-107.12	5.01	110.05	0.156	-0.072	166	27	513	-1	513c
570_470	90.28	51.36	25.0	0.541	0.308	66.1	-18.28	68.59	0.251	-0.096	344	-1	513c	27	513
E00	99.99	99.99	100.0	0.333	0.333	0.0	0.0	0.01	0.215	-0.086	0				
470_570	22.46	58.48	19.27	0.224	0.583	-114.23	1.72	125.38	0.156	-0.059	155	28	519	-1	519c
570_470	77.43	41.41	80.62	0.388	0.207	86.48	-37.07	94.09	0.265	-0.107	336	-1	519c	28	519
C00	97.28	99.99	116.14	0.31	0.319	0.0	0.0	0.01	0.215	-0.086	0				
470_570	23.33	60.81	22.94	0.217	0.567	-112.94	2.97	124.75	0.158	-0.059	154	29	520	-1	520c
570_470	73.84	39.98	93.08	0.358	0.189	90.54	-39.55	98.8	0.268	-0.109	336	-1	520c	29	520
P00	102.37	99.99	81.25	0.36	0.352	0.0	0.0	0.01	0.215	-0.086	0				
470_570	22.07	56.06	16.85	0.232	0.59	-112.44	6.51	121.7	0.156	-0.061	157	28	518	-1	518c
570_470	80.19	43.83	64.31	0.425	0.232	81.1	-33.08	87.59	0.261	-0.104	337	-1	518c	28	518
Q00	97.64	100.0	118.42	0.308	0.316	0.0	0.0	0.01	0.215	-0.086	0				
470_570	22.83	60.87	21.65	0.216	0.577	-115.7	55.98	128.53	0.156	-0.057	154	29	521	-1	521c
570_470	74.71	39.02	96.64	0.355	0.185	91.93	-40.75	100.56	0.269	-0.11	336	-1	521c	29	521