

CIE02 tristimulus values, chromatic values, and putities ($n=1,4, n_0=0.5$).
Normalized Ostwald (O) tristimulus values ($Y_0=100$), ordered by wavelength.

Normalized Oswald (O) tristimulus values ($Y_{\infty}=100$) derived by wavelength.											
no.	O	C tristimulus values and chromaticities					nu-chromatic values				
		λ_n	X	Y	Z	x	y	z	A_m	B_m	C_{ABm}
00	396	31.24	12.19	76.69	0.260	0.101	0.638	72.3	-84.1	111.0	310
01	384	32.25	13.34	78.11	0.153	0.064	0.799	200	-69.1	91.3	282
02	466	13.27	8.01	79.21	0.132	0.079	0.788	13.4	-88.4	89.4	278
03	471	13.39	12.66	80.68	0.125	0.118	0.755	-4.4	-84.7	84.7	266
04	475B	14.00	19.21	81.44	0.122	0.167	0.710	-27.6	-77.9	82.7	250
05	479	15.61	27.50	81.85	0.124	0.220	0.655	-53.3	-68.9	87.1	232
06	481	18.42	36.66	82.05	0.134	0.267	0.598	-77.4	-58.9	97.2	217
07	483	20.35	41.45	82.11	0.141	0.288	0.570	-88.1	-53.6	103.1	211
08	484	22.64	46.29	82.14	0.149	0.306	0.543	-97.4	-48.4	108.8	206
09	485	25.29	51.06	82.16	0.159	0.322	0.518	-105.0	-43.3	113.6	202
10	486C	29.62	57.81	81.62	0.175	0.341	0.482	-113.2	-35.5	118.7	197
11	490	26.32	58.17	83.51	0.177	0.393	0.429	-126.0	-12.6	126.6	185
12	497	23.01	58.66	82.40	0.185	0.472	0.342	-138.9	13.8	139.6	174
13	501	22.62	59.57	35.18	0.192	0.507	0.299	-143.1	23.7	145.0	170
14	506	22.26	60.29	28.28	0.200	0.543	0.255	-146.5	33.0	150.1	167
15	519	21.83	61.02	17.06	0.218	0.610	0.170	-149.6	47.4	157.0	162
16	522G	24.04	63.42	17.06	0.230	0.606	0.163	-149.8	49.8	157.9	161
17	535	27.22	66.19	9.71	0.263	0.641	0.094	-146.3	61.3	158.7	157
18	544	35.20	72.16	7.33	0.306	0.629	0.063	-136.1	69.6	152.8	152
19	561	65.07	87.80	5.54	0.410	0.554	0.034	-72.3	84.1	111.0	130
20	568	83.05	93.65	4.13	0.459	0.517	0.022	-20.0	89.1	91.3	90
21	569	83.03	91.98	3.02	0.466	0.516	0.022	-13.4	88.4	89.4	98
22	571	82.92	89.33	1.55	0.482	0.508	0.009	-4.4	84.7	84.8	86
23	573Y	82.30	80.76	0.80	0.502	0.492	0.004	27.6	77.9	82.7	70
24	577	80.69	72.49	0.38	0.525	0.472	0.002	53.3	68.9	87.1	52
25	581	77.87	63.33	0.18	0.550	0.447	0.001	77.3	58.9	97.2	37
26	583	75.96	58.54	0.13	0.564	0.434	0.000	88.1	53.6	103.1	31
27	585	73.67	53.70	0.09	0.577	0.421	0.000	97.4	48.4	108.8	26
28	587	71.01	48.93	0.07	0.591	0.407	0.000	105.0	43.3	113.6	22
29	592R	66.69	42.18	0.61	0.609	0.385	0.005	113.3	35.5	118.7	17
30	631	69.99	41.82	18.71	0.536	0.320	0.143	126.0	12.6	126.6	5
31	702	73.30	41.33	39.75	0.474	0.267	0.257	138.9	-13.8	139.6	354
32	706	73.69	40.41	47.04	0.457	0.250	0.291	143.1	-23.7	145.1	350
33	711	74.05	39.70	53.95	0.441	0.236	0.321	146.5	-33.0	150.2	347
34	724	74.18	38.97	65.18	0.416	0.218	0.364	149.6	-47.4	157.0	342
35	727M	72.26	36.57	65.17	0.415	0.210	0.374	149.8	-49.8	157.9	341
36	740	69.08	33.80	72.53	0.393	0.192	0.413	146.3	-61.3	158.7	337
37	749	61.10	27.83	74.91	0.372	0.169	0.457	136.0	-69.6	152.8	332
38	766	31.24	12.19	76.69	0.260	0.101	0.638	72.3	-84.1	111.0	310
39	828	13.25	6.34	78.11	0.135	0.064	0.799	20.0	-89.1	91.3	282
U=50		96.31	99.99	82.24	0.345	0.358	0.358	0.0	0.0	0.0	0
$a_{Pm} = n_{Pm} P_m = 1.41 \{ (5.645x - 2.666 + 2.570y) / y \}$ $A_m = (-a \cdot a) \cdot Y$ $C_{ABm} = [A_m^2 + B_m^2]^{1/2}$ $b_{Pm} = n_{Pm} P_m = 0.51 \{ (-1.871x + 1.457 - 3.861y) / y \}$ $B_m = (b \cdot b) \cdot Y$ $h_{ABm} = atan[B_m / A_m]$											
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$$U=D50 \quad 96.31 \quad 99.99 \quad 82.24 \quad 0.345 \quad 358 \quad 0.358 \quad A_m = (a-o) \cdot Y \quad C_{ABm} = [A_m^2 + B_m^2]^{1/2} \\ b=P_{ABm} = P_0 \cdot 0.5 \cdot [(-1.871 \times 1.457 - 3.8612) / y] \quad B_m = (b-b_0) \cdot Y \quad h_{ABm} = \text{atan}([B_m / A_m])$$

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CIE02 tristimulus values, chromatic values, and putities ($n=1,4, n_0=0.5$).
Normalized Ostwald (O) tristimulus values ($Y_0=100$), ordered by wavelength.

no.	O	C	n-purities				nu-purities			
			λ_n	Y	p_{nn}	p_{nn}	λ_m	B_m	C_{ABm}	P_{ABm}
00	396	12.19	6.11	-7.36	9.57	309	5.93	-6.90	9.10	310
01	384	6.34	3.32	-14.51	14.89	282	3.15	-14.05	14.40	282
02	466	8.01	1.84	-11.50	11.65	279	1.67	-11.04	11.17	278
03	471	12.66	-0.17	-7.15	7.15	268	-0.35	-6.69	6.70	266
04	475B	19.21	-1.26	-4.51	4.69	254	-1.43	-4.05	4.30	250
05	479	27.50	-1.76	-2.96	3.45	239	-1.93	-2.50	3.17	232
06	481	36.66	-1.93	-2.06	2.83	226	-2.11	-1.60	2.65	217
07	483	41.45	-1.95	-1.75	2.62	221	-2.12	-1.29	2.48	211
08	484	46.29	-1.93	-1.50	2.44	217	-2.10	-1.04	2.35	206
09	485	51.06	-1.88	-1.30	2.29	214	-2.05	-0.84	2.22	202
10	486C	57.81	-1.78	-1.07	2.08	211	-1.95	-0.61	2.05	197
11	490	58.17	-1.99	-0.67	2.10	198	-2.16	-0.21	2.17	185
12	497	58.66	-2.19	-0.22	2.20	185	-2.35	0.14	2.38	174
13	501	59.57	-2.22	-0.06	2.22	181	-2.40	0.39	2.43	170
14	506	60.29	-2.25	0.08	2.25	177	-2.43	0.54	2.49	167
15	519	61.02	-2.27	0.31	2.30	172	-2.45	0.77	2.57	162
16	522G	63.42	-2.18	0.32	2.21	171	-2.36	0.78	2.48	161
17	535	66.19	-2.03	0.46	2.08	167	-2.21	0.92	2.39	157
18	544	72.16	-1.71	0.50	1.78	163	-1.88	0.96	2.11	152
19	561	87.80	-0.64	0.49	0.81	142	-0.82	0.95	1.26	130
20	568	93.65	-0.03	0.49	0.49	94	-0.21	0.95	0.97	98
21	569	91.98	0.02	0.50	0.50	86	-0.14	0.96	0.97	98
22	571	82.33	0.22	0.51	0.55	66	0.05	0.96	0.97	86
23	573Y	80.76	0.51	0.50	0.72	44	0.34	0.96	0.92	44
24	577	72.49	0.91	0.49	1.03	28	0.73	0.95	1.20	52
25	581	63.33	1.39	0.47	1.47	18	1.22	0.93	1.53	37
26	583	58.54	1.67	0.45	1.74	15	1.50	0.91	1.76	31
27	585	53.70	1.98	0.44	2.03	12	1.81	0.90	2.02	26
28	587	48.93	2.32	0.42	2.36	10	2.14	0.88	2.32	22
29	592R	42.18	2.86	0.38	2.88	7	2.68	0.84	2.81	17
30	631	41.82	3.18	-0.15	3.19	357	3.01	0.30	3.02	365
31	702	41.33	3.53	-0.79	3.62	347	3.36	-0.33	3.37	354
32	706	40.41	3.71	-1.04	3.86	344	3.54	-0.58	3.58	350
33	711	39.70	3.86	-1.29	4.07	341	3.69	-0.83	3.78	347
34	724	38.97	4.01	-1.67	4.35	337	3.84	-1.21	4.02	342
35	727M	38.97	4.27	-1.82	4.64	336	4.09	-1.56	4.31	341
36	740	33.80	4.04	-2.04	4.34	332	4.48	-1.81	4.69	337
37	749	27.83	5.06	-2.96	5.86	329	4.88	-2.59	5.49	332
38	766	12.19	6.11	-7.36	9.57	309	5.93	-6.90	9.10	310
39	828	6.34	3.32	-14.51	14.89	282	3.15	-14.05	14.40	282

$$U=D50 \quad 96.31 \quad 99.99 \quad 82.24 \quad 0.345 \quad 358 \quad 0.358 \quad A_m = (a-o) \cdot Y \quad C_{ABm} = [A_m^2 + B_m^2]^{1/2} \\ b=P_{ABm} = P_0 \cdot 0.5 \cdot [(-1.871 \times 1.457 - 3.8612) / y] \quad B_m = (b-b_0) \cdot Y \quad h_{ABm} = \text{atan}([B_m / A_m])$$

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CIE10 tristimulus values, chromatic values, and putities ($n_p=1,4,n_p=0.5$).

Normalized Ostwald (O) tristimulus values ($Y_n=100$), ordered by wavelength.

no.	O	tristimulus values and chromaticities				nu-chromatic values			
		λ_n	X	Y	Z	x	y	z	ν
00	376	55.24	26.06	71.08	0.362	0.171	0.466	118.6	-66.2
01	376	55.24	26.06	71.08	0.362	0.171	0.466	118.6	-66.2
02	460	13.26	8.89	77.33	0.133	0.076	0.486	10.0	-85.2
03	462	13.28	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
04	462B	13.28	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
05	468	13.66	17.92	80.19	0.122	0.160	0.717	-24.0	-78.1
06	471	14.70	24.41	80.73	0.122	0.203	0.673	-45.2	-71.4
07	473	15.60	28.17	80.89	0.125	0.225	0.648	-56.2	-67.3
08	475	18.32	36.37	81.08	0.134	0.267	0.597	-77.1	-58.5
09	477	22.35	45.10	81.16	0.150	0.303	0.546	-94.5	-49.1
10	477C	22.35	45.10	81.16	0.150	0.303	0.546	-94.5	-49.1
11	479	27.82	53.94	81.17	0.170	0.331	0.498	-106.4	-39.9
12	480	30.64	58.21	79.19	0.182	0.346	0.471	-111.1	-33.1
13	484	25.67	56.42	59.80	0.180	0.397	0.421	-122.2	-10.8
14	492	22.50	56.65	38.03	0.192	0.483	0.324	-133.4	16.2
15	503	21.56	57.40	24.28	0.208	0.555	0.235	-138.4	33.8
16	512G	22.19	58.45	18.53	0.223	0.589	0.186	-139.1	41.8
17	521	24.28	60.61	13.79	0.246	0.614	0.139	-138.2	49.6
18	531	29.00	64.47	10.07	0.280	0.622	0.097	-133.2	57.6
19	541	41.39	73.93	10.07	0.330	0.589	0.080	-118.6	66.2
20	563	83.41	92.59	5.28	0.460	0.510	0.029	-15.8	85.2
21	564	83.37	91.09	3.82	0.467	0.510	0.021	-9.9	85.2
22	565	83.35	89.31	2.74	0.475	0.509	0.015	-2.9	84.4
23	565Y	83.35	89.31	2.74	0.475	0.509	0.015	-2.9	84.4
24	568	82.96	82.07	0.96	0.499	0.494	0.005	24.0	78.1
25	571	81.93	75.58	0.44	0.518	0.478	0.002	45.3	71.3
26	573	81.03	71.82	0.27	0.529	0.469	0.001	56.3	67.3
27	577	78.31	63.62	0.08	0.551	0.447	0.000	71.1	58.4
28	581	74.28	54.89	0.01	0.575	0.424	0.000	94.5	49.1
29	581R	74.28	54.89	0.01	0.575	0.424	0.000	94.5	49.1
30	587	68.81	46.05	0.00	0.599	0.400	0.000	106.4	39.9
31	589	67.60	44.04	0.93	0.600	0.391	0.008	109.1	36.6
32	692	70.96	43.57	21.37	0.522	0.320	0.157	122.2	10.8
33	697	74.12	43.34	43.14	0.461	0.269	0.268	133.4	-16.2
34	708	80.07	42.59	44.63	0.430	0.244	0.308	138.4	-33.8
35	717M	74.44	41.54	62.63	0.416	0.232	0.350	139.2	-41.8
36	726	72.35	39.38	67.37	0.403	0.219	0.376	138.3	-49.6
37	736	67.62	35.52	71.08	0.388	0.203	0.408	133.2	-57.7
38	746	55.24	26.06	71.08	0.362	0.171	0.466	118.6	-66.2
39	823	13.22	7.40	75.87	0.136	0.076	0.786	15.9	-85.2

U=D50 96.63 100.00 81.17 0.347 0.359 0.359 A_m=0.0 0.0 0.0 C_{AB}=0.0 0.0 0.0

$a^*_m = a^*_m, p_a = 1.4[(5.645x - 2.666 + 2.570z)/y]$ $A_m = (a^*_m/y) C_{AB}$ $A_m = [A_m^2 + B_m^2]^{1/2}$

$b^*_m = b^*_m, p_b = 0.5[-(1.871x + 1.457 - 3.861z)/y]$ $B_m = (b^*_m/y) y$ $B_{AB} = \tan[B_m/A_m]$

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CIE10 tristimulus values, chromatic values, and putities ($n_p=1,4,n_p=0.5$).

Normalized Ostwald (O) tristimulus values ($Y_n=100$), ordered by wavelength.

no.	O	tristimulus values and chromaticities				nu-purities			
		λ_n	X	Y	Z	x	y	z	ν
00	376	26.06	4.74	-2.98	5.60	327	4.55	-2.54	5.21
01	376	26.06	4.74	-2.98	5.60	327	4.55	-2.54	5.21
02	460	8.89	1.31	-10.02	10.11	277	1.12	-9.58	9.64
03	462	10.68	0.46	-8.35	8.36	273	0.27	-7.90	7.91
04	462B	10.68	0.46	-8.35	8.36	273	0.27	-7.90	7.91
05	468	17.92	-1.15	-4.81	4.94	256	-1.34	-4.36	4.56
06	471	24.41	-1.66	-3.37	3.76	243	-1.85	-2.92	3.46
07	473	28.17	-1.80	-2.83	3.36	237	-1.99	-2.39	3.11
08	475	36.37	-1.93	-2.05	2.82	226	-2.12	-1.60	2.66
09	477	45.10	-1.90	-1.53	2.44	218	-2.09	-1.09	2.36
10	477C	45.10	-1.90	-1.53	2.44	218	-2.09	-1.09	2.36
11	479	53.94	-1.78	-1.18	2.14	213	-1.97	-0.74	2.10
12	480	58.21	-1.71	-1.01	1.99	210	-1.90	-0.56	1.99
13	484	56.42	-1.97	-0.63	2.07	197	-2.16	-0.19	2.17
14	492	56.65	-2.16	-0.16	2.17	184	-2.35	0.28	2.37
15	503	57.40	-2.22	0.14	2.22	176	-2.41	0.58	2.48
16	512G	58.45	-2.19	0.26	2.20	173	-2.38	0.71	2.48
17	521	60.61	-2.09	0.37	2.12	169	-2.28	0.81	2.42
18	531	64.47	-1.87	0.44	1.92	166	-2.06	0.89	2.25
19	541	73.93	-1.41	0.44	1.82	162	-1.60	0.89	1.83
20	563	92.59	0.01	0.47	0.47	87	-0.17	0.92	0.93
21	564	91.09	0.07	0.48	0.49	80	-0.10	0.93	0.94
22	565	91.31	0.15	0.49	0.52	72	-0.03	0.94	0.94
23	565Y	89.31	0.15	0.49	0.52	72	-0.03	0.94	0.94
24	568	82.07	0.48	0.50	0.69	46	0.29	0.95	0.99
25	571	75.58	0.78	0.49	0.93	32	0.58	0.94	1.11
26	573	71.82	0.97	0.49	1.09	26	0.78	0.93	1.22
27	577	63.62	1.40	0.47	1.47	18	1.21	0.91	1.52
28	581	54.89	1.91	0.44	1.96	13	1.72	0.89	1.94
29	581R	54.89	1.91	0.44	1.96	13	1.72	0.89	1.94
30	587	46.05	2.50	0.41	2.53	9	2.31	0.86	2.46
31	589	44.04	2.66	0.38	2.69	8	2.47	0.83	2.61
32	692	43.57	2.99	-0.19	3.00	356	2.80	0.24	2.81
33	697	43.34	3.26	-0.82	3.36	345	3.07	-0.37	3.10
34	708	42.59	3.44	-1.24	3.65	340	3.25	-0.79	3.34
35	717M	41.54	3.54	-1.45	3.82	337	3.35	-1.00	3.49
36	726	39.38	3.70	-1.70	4.07	335	3.51	-1.26	3.73
37	736	35.52	3.94	-2.07	4.45	342	3.75	-1.62	4.08
38	746	26.06	4.74	-2.98	5.60	327	4.55	-2.54	5.21
39	823	7.40	2.34	-11.96	12.19	281	2.15	-11.52	11.72

U=D50 100.00 100.00 -0.447 0.485 292 A_m=0.0 0.0 0.0 C_{AB}=0.0 0.0 0.0

$a^*_m = a^*_m, p_a = 1.4[(5.645x - 2.666 + 2.570z)/y]$ $A_m = (a^*_m/y) C_{AB}$ $A_m = [A_m^2 + B_m^2]^{1/2}$

$b^*_m = b^*_m, p_b = 0.5[-(1.871x + 1.457 - 3.861z)/y]$ $B_m = (b^*_m/y) y$ $B_{AB} = \tan[B_m/A_m]$

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CIE10 tristimulus values, chromatic values, and putities ($n_p=1,4,n_p=0.5$).

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

no.	O	tristimulus values and chromaticities				nu-chromatic values			
		λ_n	X	Y	Z	x	y	z	ν
00	692	70.96	43.57	21.37	0.522	0.320	0.157	122.2	10.8
01	697	74.12	43.34	43.14	0.461	0.269	0.268	133.4	-16.2
02	708	80.07	42.59	56.88	0.430	0.244	0.308	138.4	-33.8
03	717	74.44	41.54	62.63	0.416	0.232	0.350	139.2	-41.8
04	726	72.35	39.38	67.37	0.403	0.219	0.376	138.3	-49.6
05	736M	67.62	35.52	71.08	0.388	0.203	0.408	133.2	-57.7
06	746	55.24	26.06	71.08	0.362	0.171	0.466	118.6	-66.2
07	823	13.22	7.40	75.87	0.136	0.076	0.786	15.9	-85.2
08	460	13.26	8.89	77.33	0.133	0.089	0.777	10.0	-85.2
09	462	13.28	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
10	462B	13.28	10.68	78.42	0.129	0.104	0.765	2.9	-84.4
11	468	13.66	17.92	80.19	0.122	0.160	0.717	-24.0	-78.1
12	471B	14.70	24.41	80.73	0.122	0.203	0.673	-45.2	-71.4
13	473	15.60	28.17	80.89	0.125	0.225	0.648	-56.2	-67.3
14	475	18.32	36.37	81.08	0.134	0.267	0.597	-77.1	-58.5
15	477	22.35	45.10	81.16	0.150	0.303	0.546	-94.5	-49.1
16	477	22.35	45.10	81.16	0.150	0.303	0.546	-94.5	-49.1
17	479	27.82	53.94	81.17	0.170	0.331	0.498	-106.4	-39.9
18	480	30.64	58.21	79.19	0.182	0.346	0.471	-111.1	-33.1
19	484	25.67	56.42	59.80	0.180	0.397	0.421	-122.2	-10.8
20	492	22.50	56.65	38.03	0.192	0.483	0.324	-133.4	16.2
21	503	21.56	57.40	24.28	0.208	0.555	0.235	-138.4	33.8
22	512	22.19	58.45	18.53	0.223	0.589	0.186	-139.1	41.8
23	521G	24.28	60.61	13.79	0.246	0.614	0.139	-138.2	49.6
24	531	29.00	64.47	10.07	0.280	0.622	0.097	-133.2	57.6
25	541	41.39	73.93	10.07	0.330	0.589	0.080	-118.6	66.2
26	563	83.41	92.59	5.28	0.460	0.510	0.029	-15.8	85.2
27	564	83.37	91.09	3.82	0.467	0.510	0.021	-9.9	

CIEF02 tristimulus values, chromatic values, and putities ($n_1=1, n_2=0.5$).

Normalized Ostwald (O) tristimulus values ($Y_n=100$), ordered by wavelength.

no.	λ_n	C tristimulus values and chromaticities				nu-chromatic values			
		X	Y	Z	x	A_m	B_m	C_{ABm}	n_{ABm}
00	386	51.50	23.94	74.68	0.343	115.9	497	111.1	-72.0
01	396	51.50	23.94	74.68	0.343	115.9	497	111.1	-72.0
02	405	12.41	9.58	78.25	0.123	0.058	0.801	37	-85.2
03	467	12.45	11.64	78.87	0.120	0.113	0.766	-4.2	-83.5
04	473B	13.31	20.43	79.83	0.117	0.179	0.702	-35.1	-74.4
05	475	14.02	24.19	79.97	0.118	0.204	0.676	-46.9	-70.3
06	479	17.82	36.91	80.16	0.132	0.273	0.594	-80.9	-56.2
07	481	17.82	36.91	80.16	0.132	0.273	0.594	-80.9	-56.2
08	481	21.98	46.03	80.19	0.148	0.310	0.541	-99.2	-46.2
09	481	21.98	46.03	80.19	0.148	0.310	0.541	-99.2	-46.2
10	483C	27.52	55.03	80.21	0.169	0.338	0.492	-111.3	-36.7
11	484	28.85	57.21	79.07	0.174	0.346	0.478	-114.1	-33.0
12	485	25.36	57.41	57.70	0.180	0.408	0.410	-126.6	-6.4
13	497	23.37	57.50	36.81	0.191	0.492	0.315	-136.8	1.94
14	505	21.31	58.03	24.30	0.205	0.559	0.234	-141.4	35.3
15	512	21.41	58.69	18.79	0.216	0.593	0.190	-142.8	42.7
16	521G	22.42	59.91	14.10	0.232	0.621	0.146	-142.8	49.5
17	524	25.32	62.97	14.10	0.247	0.615	0.137	-142.6	52.6
18	539	30.29	66.55	7.57	0.290	0.637	0.072	-135.0	63.6
19	551	44.95	76.05	5.53	0.355	0.601	0.043	-110.8	74.3
20	568	84.08	93.45	4.02	0.463	0.514	0.022	-15.4	88.7
21	568	84.08	93.45	4.02	0.463	0.514	0.022	-15.4	88.7
22	568	84.08	93.45	4.02	0.463	0.514	0.022	-15.4	88.7
23	570Y	84.00	88.35	1.33	0.483	0.508	0.007	-3.4	85.9
24	573Y	83.15	79.56	0.38	0.509	0.487	0.002	35.4	76.8
25	575	82.44	75.80	0.24	0.520	0.478	0.001	47.2	72.7
26	580	78.64	63.07	0.05	0.554	0.444	0.000	81.2	58.5
27	585	78.64	63.07	0.05	0.554	0.444	0.000	81.2	58.5
28	585	78.64	63.07	0.05	0.554	0.444	0.000	81.2	58.5
29	590R	68.94	44.96	0.00	0.605	0.394	0.000	111.6	39.1
30	592	67.61	42.78	1.14	0.606	0.383	0.010	114.4	35.4
31	694	71.10	42.58	22.52	0.522	0.312	0.165	126.9	8.7
32	702	74.12	42.58	43.40	0.463	0.265	0.271	137.0	-17.0
33	710	75.15	41.96	55.91	0.434	0.242	0.323	141.7	-32.9
34	717	75.15	41.96	55.91	0.434	0.242	0.323	141.7	-32.9
35	726M	74.04	40.08	66.11	0.410	0.222	0.366	143.1	-47.1
36	729	71.14	37.02	66.11	0.408	0.212	0.379	143.0	-50.2
37	744	66.16	33.43	72.64	0.384	0.194	0.421	135.3	-61.2
38	756	51.50	23.94	74.68	0.343	115.9	497	111.1	-72.0
39	825	12.38	6.54	76.19	0.130	0.068	0.801	15.8	-86.3

$$U=D50 \quad 96.46, 100.00, 82.22, 0.664, 0.358, 0.358 \quad A_m = (a-o)_Y \quad C_{ABm} = [A_m^2 + B_m^2]^{1/2}$$

$$b=P_{m1}P_{m2}P_{m3}=0.5[-(1.871x+1.457-3.861z)/y] \quad B_m = (b-b)_Y \quad h_{ABm} = \text{atan}[B_m/A_m]$$

DE740-3N

CIEF02 tristimulus values, chromatic values, and putities ($n_1=1, n_2=0.5$).

Normalized Ostwald (O) tristimulus values ($Y_n=100$), ordered by wavelength.

no.	λ_n	C tristimulus values and chromaticities				nu-purities			
		X	Y	Z	x	A_m	B_m	C_{ABm}	n_{ABm}
00	386	23.94	4.82	-3.46	5.93	324	2.41	-13.21	13.42
01	396	23.94	4.82	-3.46	5.93	324	2.41	-13.21	13.42
02	405	9.58	5.57	-9.35	9.37	273	0.39	-8.90	8.90
03	467	11.64	-1.18	-7.64	7.64	268	-0.36	-7.18	7.19
04	473B	20.43	-1.54	-4.10	4.38	249	-1.72	-3.64	4.03
05	475	24.19	-1.75	-3.36	3.79	242	-1.93	-2.90	3.49
06	479	36.91	-2.01	-1.98	2.82	224	-2.19	-1.52	2.66
07	481	36.91	-2.01	-1.98	2.82	224	-2.19	-1.52	2.66
08	481	46.03	-1.97	-1.46	2.45	216	-2.15	-1.00	2.37
09	481	46.03	-1.97	-1.46	2.45	216	-2.15	-1.00	2.37
10	483C	55.03	-1.84	-1.12	2.15	211	-2.02	-0.66	2.13
11	484	57.21	-1.81	-1.03	2.09	205	-1.99	-0.57	2.07
12	485	57.41	-2.02	-0.57	2.10	195	-2.20	-0.11	2.20
13	497	57.50	-2.19	-0.12	2.20	183	-2.37	0.33	2.40
14	505	58.03	-2.25	0.14	2.26	176	-2.43	0.60	2.51
15	512	58.69	-2.25	0.26	2.26	173	-2.43	0.72	2.54
16	521G	59.91	-2.20	0.36	2.23	170	-2.38	0.82	2.52
17	524	62.97	-2.08	0.37	2.11	169	-2.26	0.83	2.41
18	539	66.55	-1.84	0.49	1.91	164	-2.02	0.95	2.24
19	551	76.05	-1.27	0.51	1.37	157	-1.45	0.97	1.75
20	568	93.45	0.01	0.49	0.49	88	-0.16	0.95	0.96
21	568	93.45	0.01	0.49	0.49	88	-0.16	0.95	0.96
22	568	93.45	0.01	0.49	0.49	88	-0.16	0.95	0.96
23	570Y	90.41	0.14	0.51	0.52	74	-0.03	0.97	0.97
24	573Y	86.35	0.23	0.51	0.56	65	0.00	0.97	0.97
25	575	75.80	0.62	0.50	0.80	38	0.44	0.96	1.06
26	580	63.07	1.46	0.46	1.54	17	1.62	0.95	1.14
27	585	63.07	1.46	0.46	1.54	17	1.62	0.95	1.14
28	585	63.07	1.46	0.46	1.54	17	1.62	0.95	1.14
29	590R	44.96	2.66	0.41	2.69	8	2.48	0.87	2.63
30	592	42.78	2.85	0.36	2.88	7	2.67	0.82	2.80
31	694	42.58	3.16	-0.25	3.17	355	2.98	0.20	2.98
32	702	42.58	3.16	-0.25	3.17	355	2.98	0.20	2.98
33	710	41.96	3.55	-1.24	3.77	340	3.37	-0.78	3.46
34	717	41.96	3.55	-1.24	3.77	340	3.37	-0.78	3.46
35	726M	40.08	3.75	-1.63	4.09	336	3.46	-0.97	3.60
36	729	37.02	4.04	-1.81	4.43	335	3.86	-1.35	4.09
37	744	33.43	4.22	-2.29	4.81	331	4.04	-1.83	4.44
38	756	23.94	4.82	-3.46	5.93	324	4.64	-3.00	5.53
39	825	6.54	2.59	-13.66	13.91	280	2.41	-13.21	13.42

$$U=D50 \quad 100.00, 100.00, -0.459, 0.493, 291 \quad A_m = (a-o)_Y \quad C_{ABm} = [A_m^2 + B_m^2]^{1/2}$$

$$b=P_{m1}P_{m2}P_{m3}=0.5[-(1.871x+1.457-3.861z)/y] \quad B_m = (b-b)_Y \quad h_{ABm} = \text{atan}[B_m/A_m]$$

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CIEF02 tristimulus values, chromatic values, and putities ($n_1=1, n_2=0.5$).

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

no.	λ_n	C tristimulus values and chromaticities				nu-chromatic values			
		X	Y	Z	x	A_m	B_m	C_{ABm}	n_{ABm}
00	592	67.61	42.78	1.14	0.606	0.383	0.010	114.4	35.4
01	694	71.10	42.58	22.52	0.522	0.312	0.165	126.9	8.7
02	702	74.12	42.58	43.40	0.463	0.265	0.271	137.0	-17.0
03	710	75.15	41.96	55.91	0.434	0.242	0.323	141.7	-32.9
04	717	75.15	41.96	55.91	0.434	0.242	0.323	141.7	-32.9
05	726M	74.04	40.08	66.11	0.410	0.222	0.366	143.1	-47.1
06	729	71.14	37.02	66.11	0.408	0.212	0.379	143.0	-50.2
07	744	66.16	33.43	72.64	0.384	0.194	0.421	135.3	-61.2
08	756	51.50	23.94	74.68	0.343	115.9	497	111.1	-72.0
09	825	12.38	6.54	76.19	0.130	0.068	0.801	15.8	-86.3
10	465	12.45	11.64	78.25	0.123	0.058	0.801	37	-85.2
11	467	12.45	11.64	78.87	0.120	0.113	0.766	-4.2	-83.5
12	473B	13.31	20.43	79.83	0.117	0.179	0.702	-35.1	-74.4
13	475	14.02	24.19	79.97	0.118	0.204	0.676	-46.9	-70.3
14	479	17.82	36.91	80.16	0.132	0.273	0.594	-80.9	-56.2
15	481	17.82	36.91	80.16	0.132	0.273	0.594	-80.9	-56.2
16	481	21.98	46.03	80.19	0.148	0.310	0.541	-99.2	-46.2
17	483C	27.52	55.03	80.21	0.169	0.338	0.492	-111.3	-36.7
18	484	28.85	57.21	79.07	0.174	0.346	0.478	-114.1	-33.0
19	485	25.36	57.41	57.70	0.180	0.408	0.410	-126.6	-6.4
20	483C	27.52	55.03	80.21	0.169	0.338	0.492	-111.3	-36.7
21	484	28.85	57.21	79.07	0.174	0.346	0.478	-114.1	-33.0
22	485	25.36	57.41	57.70	0.180	0.408	0.410	-126.6	-6.4
23	497	23.37	57.50	36.81	0.191	0.492	0.315	-136.8	1.94
24	505	21.31	58.03	24.30	0.205	0.559	0.234	-141.4	35.3
25	512	21.41	58.69	18.79	0.216	0.593	0.190	-142.8	42.7
26	521G	22.42	59.91	14.10	0.232	0.621	0.146	-142.8	49.5
27	524	25.32	62.97	14.10	0.247	0.615	0.137	-142.6	52.6
28	539	30.29	66.55	7.57	0.290	0.637	0.072	-135.0	63.6
29	551	44.95	76.05	5.53	0.355	0.601	0.043	-110.8	74.3
30	568	84.08	93.45	4.02	0.463	0.514	0.022	-15.4	88.7

CIEF10 tristimulus values, chromatic values, and putities ($n_1=1, n_2=0.5$).

Normalized Ostwald (O) tristimulus values ($Y_n=100$), ordered by wavelength.

no.	O	C tristimulus values and chromaticities						nu-chromatic values			
		λ_n	X	Y	Z	x	y	z	A_m	B_m	C_{ABm}
00	380	52.92	25.78	74.65	0.1345	0.168	0.486	109.4	-70.4	130.1	327
01	385	51.14	26.01	74.65	0.1339	0.170	0.790	18.8	-84.7	86.7	282
02	460	13.14	13.28	94.75	0.131	0.094	0.773	-7.6	-85.3	85.6	275
03	462	13.30	13.30	11.32	0.1287	0.109	0.762	-0.4	-84.4	84.4	270
04	464B	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	-108.9	-36.1	116.6	198
13	482	25.63	56.72	59.32	0.180	0.400	0.418	-123.7	-10.0	124.1	184
14	492	23.27	56.85	36.73	0.192	0.490	0.316	-134.8	17.9	136.0	167
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	147
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	83.39	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	26
29	584R	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	41.34	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	63.78	0.414	0.230	0.355	139.7	-43.5	146.3	342
36	726	71.27	39.11	68.41	0.401	0.217	0.380	138.2	-51.2	147.4	339
37	737	66.83	34.86	71.99	0.384	0.200	0.414	132.2	-59.4	145.0	335
38	750	52.92	25.78	74.65	0.1345	0.168	0.486	109.4	-70.4	130.1	327
39	820	13.34	13.61	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 0.0

$a^*_{p=m,n,p_0}=1.4[(5.645x-2.666+2.570z)/y]$ $A_m=(a-a_0)/Y$ $C_{ABm}=[A_m^2+B_m^2]^{1/2}$

$b^*_{p=m,n,p_0}=0.5[-(1.871x+1.457-3.861z)/y]$ $B_m=(b-b_0)/Y$ $h_{ABm}=\text{atan}[B_m/A_m]$

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CIEF10 tristimulus values, chromatic values, and putities ($n_1=1, n_2=0.5$).

Normalized Ostwald (O) tristimulus values ($Y_n=100$), ordered by wavelength.

no.	O	C	n-purities					nu-purities				
			λ_n	λ_p	λ_m	λ_{h_n}	λ_{h_p}	λ_n	λ_p	λ_m	λ_{h_n}	
00	380	25.78	4.44	-3.17	5.46	324	4.24	-2.73	5.05	327		
01	385	6.63	3.08	-13.26	13.60	282	2.89	-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	464B	13.45	-0.39	-6.60	6.61	266	-0.58	-6.15	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	56.60	-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	0.08	197	-1.18	-0.17	2.18	184		
14	492	56.85	-2.17	-0.12	2.18	183	-2.37	0.31	2.39	172		
15	503	57.63	-2.22	0.17	2.23	175	-2.41	0.61	2.49	165		
16	511G	58.68	-2.18	0.29	2.20	172	-2.38	0.74	2.49	162		
17	521	60.88	-2.07	0.39	2.11	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	1.75	147		
20	563	93.38	-0.00	0.46	0.46	90	-0.20	0.90	0.92	102		
21	564	90.50	0.10	0.49	0.50	77	-0.08	0.94	0.94	95		
22	565	88.67	0.18	0.50	0.54	69	-0.00	0.95	0.95	90		
23	566Y	86.54	0.28	0.51	0.58	60	0.09	0.95	0.96	84		
24	568	81.32	0.52	0.50	0.73	44	0.33	0.95	1.01	70		
25	571	74.78	0.84	0.49	0.97	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	26		
29	584R	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	4.38	-1.28	4.37	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	-3.17	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 100.00 100.00 81.03 -0.445 0.486 0.293 0.0 0.0 0.0 0.0

$a^*_{p=m,n,p_0}=1.4[(5.645x-2.666+2.570z)/y]$ $A_m=(a-a_0)/Y$ $C_{ABm}=[A_m^2+B_m^2]^{1/2}$

$b^*_{p=m,n,p_0}=0.5[-(1.871x+1.457-3.861z)/y]$ $B_m=(b-b_0)/Y$ $h_{ABm}=\text{atan}[B_m/A_m]$

DE740-4N

CIEF10 tristimulus values, chromatic values, and putities ($n_1=1, n_2=0.5$).

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

no.	O	C tristimulus values and chromaticities					nu-chromatic values				
		λ_n	X	Y	Z	x	y	λ_m	B_m	C_{ABm}	P_{ABm}
00	588	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	366
02	697	74.36	41.34	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	63.78	0.414	0.230	0.355	139.7	-43.5	146.3	342
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	337
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	0.790	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	7.4	-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	18.67	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	503	25.37	56.85	36.73	0.180	0.400	0.418	-123.7	-30.0	124.1	184
21	512	26.23	56.85	36.73	0.191	0.400	0.316	-134.8	-39.9	136.0	172
22	544	21.53	63.63	22.95	0.211	0.564	0.222	-139.3	-35.9	143.8	165
23	511G	22.30	58.68	17.25	0.227	0.597	0.175	-139.7	-43.5	146.3	162
24	521	24.56	60.88	12.62	0.250	0.620	0.128	-138.2	-51.2	147.4	159
25	532	29.89	65.12	9.04	0.287	0.625	0.086	-132.2	-59.4	145.0	155
26	545	43.82	74.21	6.37	0.352	0.596	0.051	-109.4	-70.4	130.1	147
27	563	83.59	93.38	3.37	0.455	0.509	0.034	-18.8	-84.6	86.7	102
28	564	83.45	90.50	3.08	0.471	0.511	0.017	-7.6	-85.3	85.6	95
29	565	83.43	86.67	2.06	0.479	0.509	0.011	-0.4	-84.3	84.3	90
30	566	83.43	86.34	1.34	0.476	0.515	0.005	-7.8	-82.7	83.1	84
31	567	83.04	85.56	0.56	0.501	0.933	0.003	-70.6	-77.6	82.2	70
32	571R	82.00	74.78	0.23	0.522	0.476	0.001	-48.4	-70.5	85.5	55
33	573	81.10	71.03	0.14	0.532	0.466	0.000	59.3	-66.4	89.1	48
34	577	78.40	62.93	0.05	0.554	0.445	0.000	79.9	-57.6	98.5	35
35	581	74.33	54.29	0.02	0.577	0.421	0.000	96.9	-48.3	108.3	26
36	584R	71.79	49.91	0.01	0.589	0.401	0.000	103.4	-43.7	112.3	22
37	591	66.15	41.39	2.33	0.602	0.376	0.021	113.1	-32.1	117.5	15
38	588	67.67	43.61	0.91	0.603	0.388	0.008	110.9	36.1	116.6	18
39	689	71.10	43.27	21.71	0.522	0.317	0.159	123.7	9.9	124.1	4

R17M tristimulus values, chromatic values, and putities ($n_p=1,4, n_c=0.5$).

Normalized Ostwald (O) tristimulus values ($Y_0=100$), ordered by wavelength.

no.	O	C tristimulus values and chromaticities						nu-chromatic values						
		λ_n	X	Y	Z	x	y	A_m	B_m	C_m	A_{Bm}	B_{Bm}	C_{Bm}	
00	373	50.84	23.58	64.46	0.366	0.169	0.464	113.4	-60.5	128.6	331	4.81	-2.56	5.45
01	450	26.22	10.37	70.14	0.245	0.097	0.657	60.4	-77.6	98.3	307	5.82	-7.48	9.48
02	463	19.81	9.03	72.37	0.195	0.089	0.715	38.4	-80.5	89.3	295	4.26	-8.92	9.88
03	465	19.87	11.18	74.25	0.188	0.106	0.705	30.2	-80.3	85.8	290	2.70	-7.18	7.67
04	470B	20.04	16.46	77.00	0.176	0.145	0.678	10.4	-77.5	78.2	277	0.52	-4.70	4.74
05	474	20.76	23.15	78.71	0.169	0.188	0.641	-12.2	-71.9	72.9	260	-0.53	-3.10	3.15
06	477	22.69	31.32	79.75	0.169	0.234	0.596	-35.5	-64.0	73.2	240	-1.13	-2.04	2.33
07	479	24.27	35.77	80.07	0.173	0.255	0.571	-45.9	-59.5	75.2	232	-1.28	-1.66	2.10
08	481	28.86	45.22	80.48	0.186	0.292	0.520	-62.8	-49.9	80.3	218	-1.39	-1.10	1.77
09	482	30.21	48.30	79.14	0.191	0.306	0.501	-68.8	-45.0	82.2	213	-1.42	-0.93	1.70
10	487C	26.13	48.90	65.44	0.186	0.348	0.465	-86.2	-27.0	90.4	197	-1.76	-0.55	1.84
11	496	20.48	50.06	44.06	0.178	0.436	0.384	-114.1	1.1	114.2	179	-2.22	0.02	2.22
12	500	20.60	52.31	38.55	0.184	0.469	0.345	-118.7	10.4	119.2	174	-2.27	0.19	2.27
13	509	19.04	53.50	28.42	0.191	0.528	0.280	-126.9	24.2	129.2	169	-2.37	0.45	2.41
14	511	21.83	56.54	28.46	0.204	0.529	0.266	-128.3	27.2	131.2	168	-2.27	0.48	2.32
15	518	24.65	60.36	24.01	0.226	0.553	0.220	-130.6	36.4	135.5	164	-2.16	0.60	2.24
16	530G	29.99	65.40	16.35	0.268	0.585	0.146	-126.5	50.4	136.1	158	-1.93	0.77	2.08
17	538	43.18	76.41	16.37	0.317	0.562	0.120	-113.4	60.5	128.6	151	-1.48	0.79	1.68
18	553	67.80	89.62	10.69	0.403	0.533	0.063	-60.4	77.6	98.3	127	-0.67	0.86	1.09
19	557	74.22	90.96	8.45	0.427	0.523	0.048	-38.4	80.5	89.2	115	-0.42	0.88	0.95
20	558	74.15	88.81	6.58	0.437	0.523	0.038	-30.2	80.3	85.8	110	-0.34	0.90	0.96
21	561	73.98	83.52	3.84	0.458	0.517	0.023	-10.4	77.4	78.1	97	-0.12	0.92	0.93
22	565	73.26	76.83	2.11	0.481	0.504	0.013	-12.3	75.3	75.9	82	0.16	0.92	0.94
23	570Y	71.33	68.67	1.09	0.505	0.486	0.007	35.5	64.0	73.2	60	0.51	0.93	1.06
24	572	69.75	64.22	0.76	0.517	0.476	0.005	45.9	59.5	75.2	52	0.71	0.92	1.17
25	578	65.16	54.77	0.35	0.541	0.455	0.002	62.8	49.9	80.3	38	1.14	0.91	1.46
26	581	63.81	51.69	1.69	0.544	0.441	0.014	68.8	45.0	82.2	33	0.33	0.87	1.59
27	600	67.89	51.09	15.38	0.505	0.380	0.114	86.2	27.0	90.4	17	2.68	0.52	1.77
28	705	73.42	47.68	42.28	0.449	0.291	0.258	118.7	-10.4	119.2	354	2.49	-0.21	2.50
29	714R	74.62	46.49	52.41	0.430	0.267	0.302	126.9	-24.2	129.2	349	2.73	-0.52	2.77
30	716	72.19	43.45	52.37	0.429	0.258	0.311	128.3	-27.2	131.2	348	2.95	-0.62	3.02
31	723	69.37	39.63	56.82	0.418	0.238	0.342	130.6	-36.4	135.5	344	3.29	-0.91	3.42
32	735	64.03	34.59	64.49	0.392	0.212	0.395	126.5	-50.4	136.2	338	3.65	-1.45	3.93
33	743	50.84	23.58	64.46	0.366	0.169	0.464	113.4	-60.5	128.6	331	4.81	-2.56	5.45
34	815	26.22	10.37	70.14	0.245	0.097	0.657	60.4	-77.6	98.3	307	5.82	-7.48	9.48

U=D50 94.03 100.00 80.83 0.342 0.363 0.363 0.0 0.0 0.0 0.0

R17M tristimulus values, chromatic values, and putities ($n_p=1,4, n_c=0.5$).

Normalized Ostwald (O) tristimulus values ($Y_0=100$), ordered by hue angle.

DE740-3N

R17M tristimulus values, chromatic values, and putities ($\lambda_n=1,4,5$), and putities ($n=1,4,5$).

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

no.	O	[tristimulus values and chromaticities						nu-chromatic values					
		X	Y	Z	x	y		A_m	B_m	C_m	A_{Bm}	B_{Bm}	C_{Bm}
00	600	67.89	51.09	15.38	0.505	0.380	0.114	86.2	27.0	90.4	377	1.68	0.52
01	705	73.42	47.68	42.28	0.449	0.291	0.258	118.7	-10.4	119.2	354	2.49	-0.21
02	714	74.62	46.49	52.41	0.430	0.267	0.302	126.9	-24.2	129.2	349	2.73	-0.52
03	716	72.19	43.45	52.37	0.429	0.258	0.311	128.3	-27.2	131.2	348	2.95	-0.62
04	723	69.37	39.63	56.82	0.418	0.238	0.342	130.6	-36.4	135.5	344	3.29	-0.91
05	735M	64.03	34.59	64.49	0.392	0.212	0.395	126.5	-50.4	136.2	338	3.65	-1.45
06	373	50.84	23.58	64.46	0.366	0.169	0.464	113.4	-60.5	128.6	331	4.81	-2.56
07	450	26.22	10.37	70.14	0.245	0.097	0.657	60.4	-77.6	98.3	307	5.82	-7.48
08	463	19.81	9.03	72.37	0.195	0.089	0.715	38.4	-80.5	89.3	295	4.26	-8.92
09	465	19.87	11.18	74.25	0.188	0.106	0.705	30.2	-80.3	85.8	290	2.70	-7.18
10	470	20.04	16.46	77.00	0.176	0.145	0.678	10.4	-77.5	78.2	277	0.52	-4.70
11	474	20.76	23.15	78.71	0.169	0.188	0.641	-12.2	-71.9	73.2	260	-0.53	-3.10
12	477B	22.69	31.32	79.75	0.169	0.234	0.596	-35.5	-64.0	73.2	240	-1.13	-2.04
13	479	24.27	35.77	80.07	0.173	0.255	0.571	-45.9	-59.5	75.2	232	-1.28	-1.66
14	481	28.86	45.22	80.48	0.186	0.292	0.520	-62.8	-49.9	80.3	218	-1.39	-1.10
15	482	30.21	48.30	79.14	0.191	0.306	0.501	-68.8	-45.0	82.2	213	-1.42	-0.93
16	487	26.13	48.90	65.44	0.186	0.348	0.465	-86.2	-27.0	90.4	197	-1.76	-0.55
17	496	20.48	50.06	44.06	0.178	0.436	0.384	-114.1	1.1	114.2	179	-2.22	0.02
18	500C	20.60	52.31	38.55	0.184	0.469	0.345	-118.7	10.4	119.2	174	-2.27	0.19
19	509	19.04	53.50	28.42	0.191	0.528	0.280	-126.9	24.2	129.2	169	-2.37	0.45
20	511	21.83	56.54	28.46	0.204	0.529	0.266	-128.3	27.2	131.2	168	-2.27	0.48
21	518	24.65	60.36	24.01	0.226	0.553	0.220	-130.6	36.4	135.5	164	-2.16	0.60
22	530	29.99	65.40	16.35	0.268	0.585	0.146	-126.5	50.4	136.1	158	-1.93	0.77
23	538G	43.18	76.41	16.37	0.317	0.562	0.120	-113.4	60.5	128.6	151	-1.48	0.79
24	553	67.80	89.62	10.69	0.403	0.533	0.063	-60.4	77.6	98.3	127	-0.67	0.86
25	557	74.22	90.96	8.45	0.427	0.523	0.048	-38.4	80.5	89.3	115	-0.42	0.88
26	558	74.15	88.81	6.58	0.437	0.523	0.038	-30.2	80.3	85.8	110	-0.34	0.90
27	561	73.98	83.52	3.84	0.458	0.517	0.023	-10.4	77.4	78.1	97	-0.12	0.92
28	565	73.26	76.83	2.11	0.481	0.504	0.013	-12.3	75.3	75.2	82	0.16	0.92
29	570Y	71.33	68.67	1.09	0.505	0.486	0.007	35.5	64.0	73.2	60	0.51	0.93
30	572	69.75	64.22	0.76	0.517	0.476	0.005	45.9	59.5	70.2	52	0.71	0.92
31	578	65.16	54.77	0.35	0.541	0.455	0.002	62.8	49.9	80.3	38	1.14	0.91
32	581Y	63.81	51.69	1.69	0.544	0.441	0.014	68.8	45.0	82.2	33	0.33	0.87
33	600	67.89	51.09	15.38	0.505	0.380	0.114	86.2	27.0	90.4	17	2.68	0.52
34	705	73.42	47.68	42.28	0.449	0.291	0.258	118.7	-10.4	119.2	-5	2.49	-0.21

U=D50 94.03 100.00 80.83 0.342 0.363 0.363 0.0 0.0 0.0 0.0

R17M tristimulus values, chromatic values, and putities ($n_p=1,4, n_c=0.5$).

Normalized Ostwald (O) tristimulus values ($Y_0=100$), ordered by wavelength.

DE740-7N													
DE740-7D, nchart=4, xcolor=4(D17M)													

**R17Ms tristimulus values, chromatic values, and purities ($n_a=1,4$, $n_b=0,5$).
Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.**

no.	O	tristimulus values and chromaticities						Au-chromaticities			
		X	Y	Z	x	y	z	λ_u	B_{Au}	C_{Au}	h_{Au}
00	375	52.09	25.14	67.62	0.359	0.173	0.466	112.5	-7.67	128.8	330
01	444	27.16	9.33	67.62	0.260	0.089	0.469	68.7	-76.0	102.4	312
02	463	21.19	9.55	72.48	0.205	0.092	0.702	42.3	-80.3	90.0	297
03	465	21.27	11.71	74.36	0.198	0.109	0.692	34.1	-80.1	87.1	293
04	470B	21.43	17.01	77.11	0.185	0.147	0.667	14.3	-77.2	78.6	280
05	474	22.09	23.68	78.83	0.177	0.190	0.632	-8.5	-71.7	72.2	263
06	476	22.83	27.59	79.42	0.175	0.212	0.611	-20.3	-68.0	70.9	253
07	479	25.44	36.25	80.19	0.179	0.255	0.565	-42.5	-59.3	73.0	234
08	481	26.59	43.77	80.19	0.180	0.275	0.565	-54.6	-57.5	72.6	225
09	481	29.88	45.66	80.60	0.191	0.292	0.516	-59.8	-49.8	78.8	219
10	482C	31.14	48.71	79.26	0.195	0.306	0.498	-66.0	-44.8	79.8	214
11	488	25.13	49.09	60.78	0.186	0.363	0.450	-90.0	-20.9	92.4	193
12	496	20.67	50.20	44.12	0.179	0.436	0.383	-110.6	1.2	110.6	179
13	500	20.63	52.39	38.61	0.184	0.469	0.345	-118.3	10.4	118.8	174
14	505	20.59	54.40	33.36	0.190	0.500	0.308	-124.1	18.7	125.5	171
15	515	20.37	55.82	24.00	0.203	0.557	0.239	-130.5	32.0	134.3	166
16	522G	23.24	59.28	19.95	0.226	0.578	0.194	-131.6	40.5	137.7	162
17	530	29.26	65.19	16.37	0.264	0.588	0.147	-128.1	50.3	137.6	158
18	535	33.49	68.28	13.23	0.295	0.582	0.102	-125.1	55.5	137.6	154
19	552	66.62	90.66	13.33	0.390	0.531	0.078	-68.6	76.0	102.4	312
20	557	72.58	90.44	8.47	0.423	0.527	0.049	-42.2	80.3	90.0	117
21	558	72.51	88.28	6.59	0.433	0.527	0.039	-34.1	80.1	87.0	113
22	561	72.35	82.98	3.84	0.454	0.521	0.024	-14.2	77.2	78.5	100
23	565Y	71.69	76.31	2.11	0.477	0.508	0.014	8.5	71.6	72.1	83
24	567	70.94	72.40	1.53	0.489	0.499	0.010	20.4	67.9	70.9	73
25	572	68.33	63.74	0.76	0.514	0.479	0.005	42.5	59.3	73.0	54
26	575	66.36	59.11	0.52	0.526	0.469	0.004	51.9	54.6	75.3	46
27	578	63.59	54.40	0.29	0.538	0.458	0.004	69.8	49.8	77.8	39
28	582	60.64	49.38	0.19	0.549	0.443	0.014	88.8	44.8	78.8	34
29	614R	68.65	50.90	20.17	0.491	0.364	0.144	90.0	20.9	92.4	13
30	701	73.13	49.79	36.82	0.457	0.311	0.230	110.6	-1.2	110.6	359
31	705	73.15	47.60	42.34	0.448	0.291	0.259	118.4	-10.4	118.8	354
32	710	73.19	45.95	47.59	0.438	0.275	0.285	124.1	-18.7	125.5	351
33	720	73.30	44.17	56.94	0.420	0.253	0.326	130.5	-32.0	134.4	346
34	727	70.53	40.59	61.00	0.409	0.235	0.354	131.6	-40.5	137.7	342
35	735M	64.51	34.79	64.58	0.393	0.212	0.394	128.1	-50.3	137.7	338
36	745	52.09	25.14	67.62	0.359	0.173	0.466	112.5	-76.7	128.8	330
37	809	27.16	9.33	67.62	0.260	0.089	0.469	68.7	-76.0	102.4	312
U=D50		93.78	100.00	80.94	0.341	0.363	0.363	0.0	0.0	0.0	0

$$\begin{aligned} a &= p_{an} = n_a p_a = 1,4[(5,645x - 2,666 + 2,570z)/y] & A_{nu} &= (a - a_u) Y & C_{ABnu} &= [A_{nu}^2 + B_{nu}^2]^{1/2} \\ b &= p_{bn} = n_b p_b = 0,5[(-1,871x + 1,457 - 3,861z)/y] & B_{nu} &= (b - b_u) Y & h_{ABnu} &= \text{atan}[B_{nu}/A_{nu}] \end{aligned}$$

DE740-3N

**R17Ms tristimulus values, chromatic values, and putities ($n_a=1,4$, $n_b=0,5$).
Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.**

no.	α	λ	n-purities					nu-purities				
			Y	P_{n1}	P_{n2}	h_{n1}	h_{n2}	$P_{\nu 1}$	$P_{\nu 2}$	$h_{\nu 1}$	$h_{\nu 2}$	
00	375	25.14	5.4	-2.93	5.41	327	4.47	-2.49	5.12	330		
01	444	9.33	7.43	-8.58	11.36	310	7.36	-8.14	10.98	312		
02	463	9.55	4.50	-8.85	9.93	296	4.43	-8.41	9.51	297		
03	465	11.71	2.99	-7.28	7.87	292	2.92	-6.84	7.44	293		
04	470B	17.01	0.91	-4.98	5.06	280	0.84	-4.54	4.62	280		
05	474	23.68	-0.28	-3.46	3.47	265	-0.35	-3.02	3.04	263		
06	476	27.59	-0.66	-2.90	2.97	257	-0.73	-2.46	2.57	253		
07	479	36.25	-1.10	-2.07	2.35	242	-1.17	-1.63	2.01	234		
08	480	40.88	-1.20	-1.77	1.94	230	-1.28	-1.48	1.86	226		
09	481	45.66	-1.24	-1.52	1.96	230	-1.31	-1.09	1.70	219		
10	482C	48.71	-1.28	-1.36	1.87	226	-1.35	-0.92	1.63	214		
11	488	49.09	-1.76	-0.86	1.96	206	-1.83	-0.42	1.88	193		
12	496	50.20	-2.13	-0.41	2.17	190	-2.20	0.02	2.20	179		
13	500	52.39	-2.18	-0.23	2.20	186	-2.25	0.19	2.26	174		
14	505	54.04	-2.22	-0.09	2.22	182	-2.29	0.34	2.32	171		
15	515	55.82	-2.26	0.13	2.27	176	-2.33	0.57	2.40	166		
16	522G	59.39	-2.14	0.24	2.15	173	-2.21	0.68	2.31	162		
17	530	65.19	-1.89	0.33	1.92	170	-1.96	0.77	2.11	158		
18	532	72.85	-1.43	0.39	1.48	164	-1.51	0.83	1.72	150		
19	552	90.66	-0.68	0.39	0.79	149	-0.75	0.83	1.13	132		
20	557	90.44	-0.39	0.44	0.60	131	-0.46	0.88	1.00	117		
21	558	88.28	-0.31	0.46	0.56	124	-0.38	0.90	0.98	113		
22	561	82.98	-0.10	0.49	0.50	101	-0.17	0.93	0.94	100		
23	565Y	76.31	0.18	0.50	0.53	69	0.11	0.93	0.94	83		
24	567	72.40	0.35	0.50	0.61	54	0.28	0.93	0.98	73		
25	572	63.74	0.73	0.49	0.88	33	0.66	0.93	1.14	54		
26	575	59.11	0.94	0.48	1.06	27	0.87	0.91	1.27	46		
27	578	53.33	1.17	0.47	1.26	22	1.11	0.92	1.43	38		
28	584	54.88	0.35	0.43	0.42	17	1.28	0.87	1.55	34		
29	614R	50.90	1.84	-0.02	1.84	359	1.76	0.41	1.81	13		
30	701	49.79	2.29	-0.46	2.33	348	2.22	-0.02	2.22	359		
31	705	47.60	2.55	-0.65	2.64	345	2.48	-0.22	2.49	354		
32	710	45.95	2.77	-0.84	2.89	343	2.70	-0.40	2.73	351		
33	720	44.17	3.02	-1.16	3.24	338	2.95	-0.72	3.04	346		
34	727	40.59	3.31	-1.43	3.61	336	3.24	-0.99	3.39	342		
35	735M	34.79	3.75	-1.88	4.20	333	3.68	-1.44	3.95	338		
36	745	25.14	4.54	-2.93	5.41	327	4.47	-2.49	5.12	330		
37	809	9.33	7.43	-8.58	11.36	310	7.36	-8.14	10.98	312		
U=5D	100.00	0.070		-0.438	0.444	279	0.0	0.0	0.0	0		

$$\begin{array}{lll} a=p_{an}=n_a p_a=1,4[(5,645x-2,666+2,570z)/y] & A_{nu}=(a-a_u)Y & C_{ABnu}=[A_{nu}^2+B_{nu}^2]^{1/2} \\ b=p_{bn}=n_b p_b=0,5[(-1,871x+1,457-3,861z)/y] & B_{nu}=(b-b_u)Y & h_{ABnu}=atan[B_{nu}/A_{nu}] \end{array}$$

DE740-4N

R17Ms tristimulus values, chromatic values, and putities ($n_a=1,4$, $n_b=0,5$).
Normalized *Ostwald* (*O*) tristimulus values ($Y_w=100$), ordered by hue angle.

No.	O	tristimulus values and chromaticities						nu-chromaticities			
		X	Y	Z	x	y	z	α_{nu}	β_{nu}	γ_{nu}	h_{nu}
00	614	68.65	50.90	20.17	0.491	0.364	0.144	10.0	-20.9	92.4	373
01	701	73.11	49.79	36.82	0.457	0.311	0.230	110.6	-1.2	110.6	359
02	705	73.15	47.60	42.34	0.448	0.291	0.259	118.4	-1.04	118.6	354
03	710	73.19	45.95	47.59	0.438	0.275	0.285	124.1	-1.87	125.5	351
04	720	73.40	44.17	56.94	0.420	0.253	0.326	130.5	-3.20	134.4	346
05	727M	70.53	40.59	61.00	0.409	0.235	0.354	131.6	-4.05	137.7	342
06	735	54.51	34.79	65.98	0.393	0.212	0.394	128.1	-5.03	137.7	338
07	375	62.09	25.14	67.62	0.359	0.173	0.466	112.5	-6.27	128.8	330
08	400	62.09	25.14	67.62	0.359	0.173	0.466	112.5	-6.27	128.8	330
09	463	21.19	9.55	72.48	0.205	0.092	0.702	42.1	-80.3	90.8	297
10	465	21.27	11.71	74.36	0.198	0.109	0.692	34.1	-80.1	87.1	293
11	470	21.43	13.01	77.11	0.185	0.147	0.667	14.3	-77.2	78.6	280
12	474B	22.09	23.68	78.83	0.177	0.190	0.632	-8.5	-71.7	72.2	263
13	476	22.83	27.59	79.42	0.175	0.212	0.611	-20.3	-68.0	70	253
14	479	25.44	36.25	80.19	0.179	0.255	0.565	-42.5	-59.3	73.0	234
15	480	27.41	41.08	80.43	0.184	0.274	0.540	-51.9	-54.6	75.4	226
16	481	29.88	45.86	80.60	0.191	0.292	0.516	-59.8	-49.7	77.8	219
17	482	31.13	44.81	79.26	0.195	0.306	0.498	-66.0	-44.8	79.8	214
18	488C	25.14	49.09	60.78	0.186	0.363	0.450	-90.0	-20.9	92.4	193
19	496	20.67	52.39	46.12	0.179	0.346	0.383	-110.6	-1.2	110.6	179
20	500	20.67	52.39	38.61	0.181	0.369	0.345	-118.2	-1.4	118.2	174
21	505	20.59	50.4	33.36	0.190	0.500	0.308	-116.1	18.2	116.2	171
22	515	20.37	55.82	20.00	0.202	0.557	0.239	-130.5	32.0	134.3	166
23	522G	23.24	59.39	19.95	0.226	0.578	0.194	-131.6	40.5	137.7	162
24	530	29.26	65.19	16.37	0.264	0.588	0.147	-128.1	50.3	137.6	158
25	540	41.69	74.85	13.32	0.321	0.576	0.102	-112.5	62.7	128.8	150
26	552	66.62	90.66	13.33	0.390	0.531	0.078	-68.6	76.0	102.4	132
27	557	72.58	90.44	8.47	0.423	0.527	0.049	-42.2	80.3	90.8	117
28	558	72.51	88.28	6.59	0.433	0.527	0.039	-34.1	80.1	87.0	113
29	561	72.35	82.98	3.84	0.454	0.521	0.024	-14.2	77.2	78.5	100
30	565	71.69	76.31	2.11	0.477	0.508	0.014	8.5	71.6	72.1	83
31	567	70.94	72.40	1.53	0.489	0.499	0.010	2.4	67.9	70.9	73
32	572F	68.33	63.74	0.76	0.514	0.479	0.004	0.25	59.3	73.0	54
33	574	68.33	63.74	0.33	0.514	0.479	0.004	51.9	59.3	75.4	46
34	577F	63.90	53.03	0.35	0.538	0.458	0.002	59.8	49.7	78.8	39
35	581	62.54	50.28	1.19	0.541	0.443	0.014	66.0	44.8	79.8	34
36	614R	68.65	50.90	20.17	0.491	0.364	0.144	10.0	-20.9	92.4	373
37	701	73.11	49.79	36.82	0.457	0.311	0.230	110.6	-1.2	110.6	0
11-D50 93.28 100.00 80.94 0.341 0.363 0.363 0.0 0.0 0.0 0.0											

$$a=p_{an}=n_a p_a=1,4[(5,645x-2,666+2,570z)/y] \quad A_{nu}=(a-a_u)Y \quad C_{ABnu}=[A_{nu}^2+B_{nu}^2]^{1/2}$$

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R17Ms tristimulus values, chromatic values, and putities ($n_a=1,4$, $n_b=0,5$).
Normalized *Ostwald* (*O*) tristimulus values ($Y_w=100$), odered by hue angle.

no.	O_C	n -purities					m -purities				
		Y	P_{00}	P_{01}	P_{10}	h_{00}	P_{00}	P_{01}	P_{10}	h_{00}	
00	614	50.90	1.84	-0.02	1.84	359	1.76	0.41	1.81	373	
01	701	49.79	2.29	-0.46	2.33	348	2.22	-0.02	2.22	359	
02	705	47.60	2.55	-0.65	2.64	345	2.48	-0.22	2.49	354	
03	710	45.95	2.77	-0.84	2.89	343	2.70	-0.40	2.73	351	
04	720	44.17	3.02	-1.16	3.24	338	2.95	-0.72	3.04	346	
05	727M	40.59	3.31	-1.43	3.61	336	3.24	-0.99	3.39	342	
06	735	34.79	3.75	-1.88	4.20	333	3.68	-1.44	3.95	338	
07	375	25.14	4.54	-2.93	5.41	327	4.47	-2.49	5.12	330	
08	433	16.33	7.43	-8.81	11.30	310	7.30	-8.14	10.98	312	
09	463	9.55	5.50	-8.85	9.93	296	4.43	-9.11	9.51	297	
10	465	11.71	2.99	-7.28	7.87	292	5.92	-6.84	7.44	293	
11	470	17.01	9.01	-4.98	5.06	280	0.84	-3.54	4.62	280	
12	474B	23.68	-0.28	-3.46	3.47	265	-0.35	-4.02	3.04	263	
13	476	27.59	-0.66	-2.90	2.97	257	-0.73	-2.46	2.57	253	
14	479	36.25	-1.10	-2.07	2.35	242	-1.17	-1.63	2.01	234	
15	480	40.88	-1.20	-1.77	2.14	235	-1.27	-1.33	1.84	226	
16	481	45.66	-1.24	-1.52	1.96	230	-1.31	-1.09	1.70	219	
17	482	48.71	-1.28	-1.36	1.87	226	-1.35	-0.92	1.63	214	
18	488C	49.09	-1.76	-0.86	1.96	206	-1.83	-0.42	1.88	193	
19	496	50.20	-2.13	-0.41	2.17	190	-2.20	0.02	2.20	179	
20	505	52.39	-2.18	-0.21	2.20	186	-2.25	0.20	2.22	174	
21	505	54.04	-2.42	-0.09	2.22	181	-2.29	0.34	2.32	171	
22	515	55.82	-2.26	0.13	2.27	176	-2.33	0.57	2.40	166	
23	522C	59.39	-2.14	0.24	2.15	173	-2.21	0.68	2.31	162	
24	530	65.19	-1.89	0.33	1.92	170	-1.96	0.77	2.11	158	
25	540	74.85	-1.43	0.39	1.48	164	-1.50	0.83	1.72	150	
26	552	90.66	-0.68	0.39	0.79	149	-0.75	0.83	1.13	132	
27	557	90.44	-0.39	0.44	0.60	131	-0.46	0.88	1.00	117	
28	558	88.28	-0.31	0.46	0.56	124	-0.38	0.90	0.98	113	
29	561	82.98	-0.10	0.49	0.50	101	-0.17	0.93	0.94	100	
30	565	76.31	0.18	0.50	0.53	69	0.11	0.93	0.94	83	
31	567	72.40	0.35	0.50	0.41	54	0.28	0.93	0.98	73	
32	572F	63.74	0.73	0.49	0.88	33	0.66	0.93	1.14	54	
33	625	54.43	1.94	0.48	1.06	27	1.07	0.92	1.17	46	
34	578	54.33	1.17	0.47	1.26	22	1.10	0.93	1.43	39	
35	581	51.28	1.35	0.43	1.42	17	1.28	0.87	1.55	34	
36	618F	50.90	1.84	-0.02	1.84	0	1.76	0.41	1.81	13	
37	701	49.79	2.29	-0.46	2.33	-11	-2.22	-0.02	2.22	0	
n=D50		100.00	0.070	-0.438	0.434	279	0.00	0.0	0.0	0	

$$a=p_{an}=n_a p_a=1,4[(5,645x-2,666+2,570z)/y] \quad A_{nu}=(a-a_u)Y \quad C_{ABnu}=[A_{nu}^2+B_{nu}^2]^{1/2}$$

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26