

水中真色色度檢測方法—分光光度計法

中華民國 99 年 9 月 16 日環署檢字第 0990084622 號公告
自中華民國 99 年 12 月 15 日起實施

NIEA W223.52B

一、方法概要

真色是指水樣去除濁度後之顏色。水樣利用分光光度計在 590 nm、540 nm 及 438 nm 三個波長測量透光率，由透光率計算三色激值 (Tristimulus value) 及孟氏轉換值 (Munsell values)，最後利用亞當-尼克森色值公式 (Adams-Nickerson chromatic value formula) 算出中間值 (DE, Delta E 或稱 Delta Error)。DE 值與標準品檢量線比對可求得樣品之真色色度值 (ADMI 值，美國染料製造協會，American Dye Manufacturers Institute)。

二、適用範圍

本方法適用於具有顏色之廢(污)水檢測，其顏色特性可不同於鉑-鈷標準品之黃色色系。

三、干擾

略。

四、設備及材料

(一) 分光光度計：波長能設定在 590 nm、540 nm 及 438 nm，並具有 5 cm 或 10 cm 光徑之樣品槽，且其透光率讀值需至小數點下 2 位。

(二) 抽氣過濾裝置。

(三) 濾紙：孔徑 $0.45 \mu\text{m}$ ，可耐酸鹼之濾紙 (如 Millipore 之 membrane filter 或同級品)。

(四) 離心機。

(五) 天平：可精稱至 0.1 mg。

五、試劑

(一) 試劑水。

(二) 濃鹽酸：分析級。

(三) 氯鉑酸鉀 (K_2PtCl_6)：分析級。

(四) 氯化亞鈷 ($\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$)：分析級。

(五) 色度標準儲備溶液：溶解 1.246 g 氯鉑酸鉀和 1.00 g 晶狀的氯化亞鈷於含 100 mL 濃鹽酸之試劑水中，再以試劑水定容至 1,000 mL，此標準儲備溶液為 500 色度單位(註 1)，此溶液可保存三個月。

六、採樣及保存

使用已清潔並經試劑水清洗過之塑膠瓶或玻璃瓶，在取樣前採樣瓶要用擬採集之水樣洗滌 2 至 3 次，再採集 100 mL 水樣。因生物之活性可能改變樣品顏色特性，故採樣後應盡可能在最短時間內分析；若無法即時分析，水樣應貯存於 $4\pm 2^{\circ}\text{C}$ 暗處運送及保存，並於 48 小時內完成分析。

七、步驟

(一) 檢量線製備

在分光光度計線性範圍內，取色度標準儲備溶液配製成一系列至少五種不同色度之標準溶液，其色度範圍如 25 至 250 色度單位，或其他適當範圍，於波長 590 nm、540 nm 及 438 nm 處求得其透光率，再依八、結果處理計算得標準溶液之檢量線圖。

(二) 樣品利用 0.45 μm 濾紙過濾或以離心方式去除濁度。

(三) 標準溶液與樣品皆以 590 nm、540 nm 及 438 nm 三個波長測定其透光率；在測定標準溶液與樣品之前，以試劑水設定三個波長的透光率為 $T\% = 100\%$ 。

(四) 記錄每一個標準溶液及樣品在波長 590 nm、540 nm 及 438 nm 時之透光率。

八、結果處理

將標準溶液及樣品於波長 590 nm、540 nm 及 438 nm 時之透光率，依下列公式計算得出真色色度值 (ADMI 值)。

1. 樣品及標準溶液的三色激值

$$X = (T_3 \times 0.1899) + (T_1 \times 0.791)$$

$$Y = T_2$$

$$Z = T_3 \times 1.1835$$

其中：

T_1 ：由波長 590 nm 測得之透光率

T_2 ：由波長 540 nm 測得之透光率

T_3 ：由波長 438 nm 測得之透光率

樣品的三色激值以 X_s 、 Y_s 、 Z_s 表示

標準溶液的三色激值以 X_r 、 Y_r 、 Z_r 表示

試劑水的三色激值以 X_c 、 Y_c 、 Z_c 表示，一般以試劑水調整 100 % 透光率後，其值為 $X_c=98.09$ 、 $Y_c=100.0$ 、 $Z_c=118.35$

2.將三色激值轉換成孟氏轉換值 V_x 、 V_y 、 V_z ，其值可由附表中求得。

樣品的孟氏轉換值以 V_{xs} 、 V_{ys} 、 V_{zs} 表示

標準溶液的孟氏轉換值以 V_{xr} 、 V_{yr} 、 V_{zr} 表示

試劑水的孟氏轉換值以 V_{xc} 、 V_{yc} 、 V_{zc} 表示

3.樣品及標準溶液的 DE 值

$$DE = \{(0.23\Delta V_y)^2 + [\Delta(V_x - V_y)]^2 + [0.4\Delta(V_y - V_z)]^2\}^{1/2}$$

其中：

$$\Delta V_y = V_{ys} - V_{yc}$$

$$\Delta(V_x - V_y) = (V_{xs} - V_{ys}) - (V_{xc} - V_{yc})$$

$$\Delta(V_y - V_z) = (V_{ys} - V_{zs}) - (V_{yc} - V_{zc})$$

4.將標準溶液的 DE 值，依下式算出標準溶液校正因子 F_n

$$F_n = \frac{APHA_n \times b}{DE_n}$$

$APHA_n$ ：標準溶液 n 之色度值

DE_n ：標準溶液 n 之 DE 值

b：樣品槽的光徑值 (cm)

5.以 DE_n 值為 X 軸，校正因子 F_n 為 Y 軸繪製標準溶液檢量線圖。

6.利用標準溶液檢量線圖及樣品 DE 值，求出樣品 F 值，再由下列公式求出樣品真色色度值 (ADMI 值)。

$$\text{真色色度值(ADMI值)} = \frac{F \times DE}{b}$$

b：樣品槽的光徑值（cm）

九、品質管制

- （一）檢量線：每次樣品分析前應重新製作檢量線，其線性相關係數（r 值）應大於或等於 0.990。檢量線製作完成應即以第二來源標準品配製接近檢量線中點濃度之標準品確認，其相對誤差值應在 ±15 % 以內。
- （二）檢量線查核：每 10 個樣品及每批次分析結束時，執行一次檢量線查核，以檢量線中間濃度附近的標準溶液進行，其相對誤差值應在 ±15% 以內。
- （三）空白樣品分析：每批次或每 10 個樣品至少執行一次空白樣品分析，空白分析值應小於管制值 5%。
- （四）重複樣品分析：每批次或每 10 個樣品至少執行一次重複樣品分析，其相對差異百分比應在 20% 以內。
- （五）查核樣品分析：每批次或每 10 個樣品至少執行一次查核樣品分析，其回收率應在 80 ~ 120% 範圍內。

十、精密度及準確度

某單一實驗室的精密度及準確度

精密度	樣品	分析次數	差異百分比%	標準偏差%
	墨綠色染料	20	0.18	0.24
準確度	查核樣品	分析次數	平均回收率%	標準偏差%
	150 色度單位	20	100.35	0.59

十一、參考資料

- （一）U.S. Environmental Protection Agency, Environmental Monitoring and Support Laboratory. 1983. Methods for Chemical analysis of Water and Wastes, Method 110. 1。
- （二）American Public Health Association, American Water Works Association & Water Pollution Control Federation. Standard

Methods for the Examination of Water and Waste water, 20th Ed, Method 2120 E, ADMI Tristimulus Filter Method, pp. 2-7~2-8. APHA, Washington, DC., USA, 1998.

- (三) 元智大學環境科技研究中心，廢水中色度檢驗方法之建立。EPA-83-11-3-09-02-07，行政院環境保護署環境檢驗所，1994。

註 1：一個色度單位係指 1 mg 鉑以氯鉑酸根離子（Chloroplatinate ion）態存在於 1 L 水溶液中時所產生之色度。

註 2：本檢驗相關之廢液，依一般無機廢液處理。

附表 孟氏轉換表

資料來源：參考資料三

三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z
.00	.0000	.0000	.0000	7.79	3.2971	3.2657	3.0094	43.30	7.0760	7.0160	6.5350
.01	.0084	.0082	.0069	7.80	3.2992	3.2677	3.0113	43.40	7.0830	7.0230	6.5420
.02	.0167	.0164	.0139	7.81	3.3012	3.2698	3.0132	43.50	7.0900	7.0300	6.5480
.03	.0252	.0247	.0209	7.82	3.3032	3.2718	3.0152	43.60	7.0960	7.0370	6.5550
.04	.0336	.0329	.0279	7.83	3.3053	3.2738	3.0171	43.70	7.1030	7.0440	6.5610
.05	.0421	.0412	.0349	7.84	3.3073	3.2758	3.0190	43.80	7.1100	7.0510	6.5680
.06	.0505	.0495	.0419	7.85	3.3093	3.2779	3.0209	43.90	7.1170	7.0580	6.5740
.07	.0591	.0579	.0489	7.86	3.3114	3.2799	3.0228	44.00	7.1240	7.0640	6.5800
.08	.0676	.0662	.0560	7.87	3.3134	3.2819	3.0248	44.10	7.1310	7.0710	6.5870
.09	.0761	.0746	.0631	7.88	3.3154	3.2839	3.0267	44.20	7.1380	7.0780	6.5930
.10	.0847	.0830	.0702	7.89	3.3175	3.2859	3.0286	44.30	7.1450	7.0850	6.6000
.11	.0933	.0915	.0773	7.90	3.3195	3.2879	3.0305	44.40	7.1510	7.0920	6.6060
.12	.1019	.0999	.0844	7.91	3.3215	3.2899	3.0324	44.50	7.1580	7.0980	6.6120
.13	.1106	.1084	.0915	7.92	3.3235	3.2920	3.0343	44.60	7.1650	7.1050	6.6190
.14	.1192	.1168	.0987	7.93	3.3255	3.2940	3.0362	44.70	7.1720	7.1120	6.6250
.15	.1279	.1253	.1058	7.94	3.3276	3.2960	3.0381	44.80	7.1790	7.1190	6.6310
.16	.1366	.1339	.1130	7.95	3.3296	3.2980	3.0400	44.90	7.1860	7.1250	6.6380
.17	.1453	.1424	.1202	7.96	3.3316	3.3000	3.0410	45.00	7.1920	7.1320	6.6440
.18	.1540	.1510	.1274	7.97	3.3336	3.3020	3.0438	45.10	7.1990	7.1390	6.6500
.19	.1628	.1595	.1346	7.98	3.3356	3.3040	3.0457	45.20	7.2060	7.1460	6.6570
.20	.1715	.1681	.1418	7.99	3.3376	3.3060	3.0476	45.30	7.2130	7.1520	6.6630
.21	.1803	.1767	.1491	8.00	3.3396	3.3080	3.0495	45.40	7.2190	7.1590	6.6690
.22	.1891	.1853	.1563	8.01	3.3416	3.3100	3.0514	45.50	7.2260	7.1660	6.6750
.23	.1979	.1939	.1636	8.02	3.3436	3.3119	3.0533	45.60	7.2330	7.1720	6.6820
.24	.2067	.2026	.1709	8.03	3.3456	3.3139	3.0552	45.70	7.2400	7.1790	6.6880
.25	.2156	.2112	.1782	8.04	3.3476	3.3159	3.0570	45.80	7.2460	7.1860	6.6940
.26	.2244	.2199	.1854	8.05	3.3496	3.3179	3.0589	45.90	7.2530	7.1920	6.7000
.27	.2332	.2286	.1927	8.06	3.3516	3.3199	3.0608	46.00	7.2600	7.1990	6.7070
.28	.2421	.2372	.2001	8.07	3.3536	3.3219	3.0627	46.10	7.2660	7.2060	6.7130
.29	.2510	.2459	.2074	8.08	3.3556	3.3239	3.0646	46.20	7.2730	7.2120	6.7190
.30	.2598	.2546	.2147	8.09	3.3576	3.3258	3.0665	46.30	7.2800	7.2190	6.7250
.31	.2687	.2633	.2220	8.10	3.3596	3.3278	3.0683	46.40	7.2860	7.2250	6.7320
.32	.2776	.2720	.2294	8.11	3.3616	3.3298	3.0702	46.50	7.2930	7.2320	6.7380
.33	.2865	.2807	.2367	8.12	3.3636	3.3318	3.0721	46.60	7.3000	7.2390	6.7440
.34	.2954	.2895	.2441	8.13	3.3656	3.3337	3.0740	46.70	7.3060	7.2450	6.7500
.35	.3043	.2982	.2514	8.14	3.3675	3.3357	3.0758	46.80	7.3130	7.2520	6.7560
.36	.3132	.3069	.2588	8.15	3.3695	3.3377	3.0777	46.90	7.3190	7.2580	6.7620
.37	.3221	.3157	.2662	8.16	3.3715	3.3396	3.0796	47.00	7.3260	7.2650	6.7690
.38	.3310	.3244	.2736	8.17	3.3735	3.3416	3.0814	47.10	7.3330	7.2710	6.7750
.39	.3399	.3331	.2809	8.18	3.3753	3.3436	3.0833	47.20	7.3390	7.2780	6.7810
.40	.3489	.3419	.2883	8.19	3.3774	3.3455	3.0852	47.30	7.3460	7.2850	6.7870
.41	.3587	.3506	.2957	8.20	3.3791	3.3475	3.0870	47.40	7.3520	7.2910	6.7930
.42	.3667	.3593	.3031	8.21	3.3814	3.3494	3.0889	47.50	7.3590	7.2980	6.7990
.43	.3756	.3681	.3105	8.22	3.3834	3.3514	3.0907	47.60	7.3650	7.3040	6.8050
.44	.3845	.3768	.3179	8.23	3.3853	3.3534	3.0926	47.70	7.3720	7.3110	6.8110
.45	.3944	.3855	.3253	8.24	3.3873	3.3553	3.0944	47.80	7.3790	7.3180	6.8180
.46	.4023	.3943	.3327	8.25	3.3893	3.3573	3.0963	47.90	7.3850	7.3240	6.8240
.47	.4112	.4030	.3401	8.26	3.3912	3.3592	3.0982	48.00	7.3920	7.3300	6.8300
.48	.4201	.4117	.3475	8.27	3.3932	3.3612	3.1000	48.10	7.3980	7.3360	6.8360
.49	.4289	.4204	.3549	8.28	3.3951	3.3631	3.1018	48.20	7.4050	7.3430	6.8420
.50	.4387	.4291	.3623	8.29	3.3971	3.3651	3.1037	48.30	7.4110	7.3490	6.8480
.51	.4467	.4378	.3697	8.30	3.3991	3.3670	3.1055	48.40	7.4180	7.3560	6.8540

三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z
.52	.4555	.4465	.3771	8.31	3.4010	3.3690	3.1074	48.50	7.4240	7.3620	6.8600
.53	.4644	.4552	.3845	8.32	3.4030	3.3709	3.1092	48.60	7.4310	7.3690	6.8660
.54	.4732	.4638	.3919	8.33	3.4049	3.3728	3.1111	48.70	7.4370	7.3750	6.8720
.55	.4820	.4725	.3992	8.34	3.4069	3.3748	3.1129	48.80	7.4430	7.3810	6.8780
.56	.4908	.4812	.4066	8.35	3.4088	3.3768	3.1147	48.90	7.4500	7.3880	6.8840
.57	.4996	.4898	.4140	8.36	3.4108	3.3786	3.1166	49.00	7.4560	7.3940	6.8900
.58	.5084	.4984	.4214	8.37	3.4127	3.3806	3.1184	49.10	7.4630	7.4010	6.8960
.59	.5172	.5070	.4287	8.38	3.4147	3.3825	3.1203	49.20	7.4690	7.4070	6.9020
.60	.5259	.5156	.4361	8.39	3.4166	3.3844	3.1221	49.30	7.4760	7.4130	6.9080
.61	.5347	.5242	.4435	8.40	3.4185	3.3864	3.1239	49.40	7.4820	7.4200	6.9140
.62	.5434	.5328	.4508	8.41	3.4205	3.3883	3.1257	49.50	7.4880	7.4260	6.9200
.63	.5521	.5414	.4582	8.42	3.4224	3.3902	3.1276	49.60	7.4950	7.4320	6.9260
.64	.5608	.5499	.4655	8.43	3.4244	3.3922	3.1294	49.70	7.5010	7.4390	6.9320
.65	.5695	.5584	.4728	8.44	3.4263	3.3941	3.1312	49.80	7.5070	7.4450	6.9380
.66	.5782	.5670	.4802	8.45	3.4282	3.3960	3.1330	49.90	7.5140	7.4510	6.9440
.67	.5868	.5754	.4875	8.46	3.4302	3.3976	3.1349	50.00	7.5200	7.4580	6.9500
.68	.5954	.5839	.4948	8.47	3.4321	3.3998	3.1367	50.10	7.5260	7.4640	6.9550
.69	.6040	.5924	.5021	8.48	3.4340	3.4018	3.1385	50.20	7.5330	7.4700	6.9610
.70	.6126	.6008	.5094	8.49	3.4359	3.4037	3.1403	50.30	7.5390	7.4760	6.9670
.71	.6212	.6093	.5167	8.50	3.4379	3.4056	3.1421	50.40	7.5450	7.4830	6.9730
.72	.6297	.6177	.5239	8.51	3.4398	3.4075	3.1439	50.50	7.5520	7.4890	6.9790
.73	.6382	.6260	.5312	8.52	3.4417	3.4094	3.1458	50.60	7.5580	7.4950	6.9850
.74	.6467	.6344	.5384	8.53	3.4436	3.4113	3.1476	50.70	7.5640	7.5010	6.9910
.75	.6552	.6427	.5457	8.54	3.4456	3.4132	3.1494	50.80	7.5710	7.5080	6.9970
.76	.6637	.6511	.5529	8.55	3.4475	3.4151	3.1512	50.90	7.5770	7.5140	7.0030
.77	.6721	.6594	.5601	8.56	3.4494	3.4170	3.1530	51.00	7.5830	7.5200	7.0080
.78	.6805	.6676	.5673	8.57	3.4513	3.4189	3.1548	51.10	7.5890	7.5260	7.0140
.79	.6889	.6759	.5745	8.58	3.4532	3.4208	3.1566	51.20	7.5960	7.5330	7.0200
.80	.6973	.6841	.5817	8.59	3.4551	3.4227	3.1584	51.30	7.6020	7.5390	7.0260
.81	.7056	.6924	.5889	8.60	3.4571	3.4246	3.1602	51.40	7.6080	7.5450	7.0320
.82	.7139	.7005	.5960	8.61	3.4590	3.4265	3.1620	51.50	7.6140	7.5510	7.0370
.83	.7222	.7087	.6032	8.62	3.4609	3.4282	3.1638	51.60	7.6210	7.5570	7.0430
.84	.7305	.7169	.6103	8.63	3.4628	3.4303	3.1656	51.70	7.6270	7.5630	7.0490
.85	.7387	.7250	.6174	8.64	3.4647	3.4322	3.1674	51.80	7.6330	7.5700	7.0550
.86	.7469	.7331	.6245	8.65	3.4666	3.4341	3.1692	51.90	7.6390	7.5760	7.0610
.87	.7551	.7411	.6316	8.66	3.4685	3.4360	3.1710	52.00	7.6450	7.5820	7.0660
.88	.7633	.7492	.6387	8.67	3.4704	3.4379	3.1728	52.10	7.6520	7.5880	7.0720
.89	.7714	.7572	.6457	8.68	3.4723	3.4398	3.1746	52.20	7.6580	7.5940	7.0780
.90	.7795	.7652	.6520	8.69	3.4742	3.4417	3.1763	52.30	7.6640	7.6000	7.0840
.91	.7876	.7732	.6590	8.70	3.4761	3.4435	3.1781	52.40	7.6700	7.6060	7.0900
.92	.7957	.7811	.6660	8.71	3.4780	3.4454	3.1799	52.50	7.6760	7.6130	7.0950
.93	.8037	.7890	.6730	8.72	3.4799	3.4473	3.1817	52.60	7.6820	7.6190	7.1010
.94	.8117	.7969	.6800	8.73	3.4818	3.4492	3.1835	52.70	7.6880	7.6250	7.1070
.95	.8197	.8048	.6870	8.74	3.4837	3.4511	3.1853	52.80	7.6950	7.6310	7.1120
.96	.8276	.8126	.6940	8.75	3.4855	3.4529	3.1870	52.90	7.7010	7.6370	7.1180
.97	.8355	.8204	.7010	8.76	3.4874	3.4548	3.1888	53.00	7.7070	7.6430	7.1240
.98	.8434	.8282	.7080	8.77	3.4893	3.4567	3.1906	53.10	7.7130	7.6490	7.1300
.99	.8513	.8360	.7150	8.78	3.4912	3.4586	3.1924	53.20	7.7190	7.6550	7.1350
1.00	.8591	.8437	.7220	8.79	3.4931	3.4604	3.1942	53.30	7.7250	7.6610	7.1410
1.01	.8669	.8514	.7290	8.80	3.4950	3.4623	3.1959	53.40	7.7310	7.6670	7.1470
1.02	.8747	.8591	.7360	8.81	3.4958	3.4642	3.1977	53.50	7.7370	7.6730	7.1520
1.03	.8824	.8668	.7420	8.82	3.4987	3.4660	3.1995	53.60	7.7430	7.6790	7.1580
1.04	.8902	.8744	.7490	8.83	3.5006	3.4679	3.2012	53.70	7.7490	7.6850	7.1640
1.05	.8979	.8820	.7560	8.84	3.5025	3.4698	3.2030	53.80	7.7560	7.6910	7.1690

三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z
1.06	.9055	.8896	.7630	8.85	3.5043	3.4716	3.2048	53.90	7.7620	7.6970	7.1750
1.07	.9132	.8971	.7700	8.86	3.5062	3.4735	3.2065	54.00	7.7680	7.7030	7.1810
1.08	.9208	.9046	.7760	8.87	3.5081	3.4753	3.2083	54.10	7.7740	7.7090	7.1860
1.09	.9284	.9121	.7830	8.88	3.5100	3.4772	3.2101	54.20	7.7800	7.7150	7.1920
1.10	.9359	.9196	.7900	8.89	3.5118	3.4791	3.2118	54.30	7.7860	7.7210	7.1980
1.11	.9434	.9270	.7960	8.90	3.5137	3.4809	3.2136	54.40	7.7920	7.7270	7.2030
1.12	.9509	.9344	.8030	8.91	3.5156	3.4828	3.2153	54.50	7.7980	7.7330	7.2090
1.13	.9584	.9418	.8100	8.92	3.5174	3.4846	3.2171	54.60	7.8040	7.7390	7.2140
1.14	.9658	.9492	.8160	8.93	3.5193	3.4865	3.2188	54.70	7.8100	7.7450	7.2200
1.15	.9733	.9565	.8230	8.94	3.5212	3.4883	3.2206	54.80	7.8160	7.7510	7.2260
1.16	.9806	.9638	.8300	8.95	3.5230	3.4902	3.2223	54.90	7.8220	7.7570	7.2310
1.17	.9880	.9711	.8360	8.96	3.5239	3.4920	3.2241	55.00	7.8280	7.7630	7.2370
1.18	.9953	.9783	.8430	8.97	3.5247	3.4939	3.2258	55.10	7.8340	7.7690	7.2420
1.19	1.0026	.9855	.8490	8.98	3.5286	3.4957	3.2276	55.20	7.8400	7.7750	7.2480
1.20	1.0090	.9927	.8561	8.99	3.5304	3.4976	3.2293	55.30	7.8450	7.7810	7.2530
1.21	1.0171	.9999	.8626	9.00	3.5323	3.4994	3.2311	55.40	7.8510	7.7870	7.2590
1.22	1.0243	1.0070	.8691	9.01	3.5342	3.5012	3.2328	55.50	7.8570	7.7920	7.2650
1.23	1.0315	1.0142	.8755	9.02	3.5360	3.5031	3.2346	55.60	7.8630	7.7980	7.2700
1.24	1.0387	1.0212	.8820	9.03	3.5379	3.5049	3.2363	55.70	7.8690	7.8040	7.2760
1.25	1.0458	1.0283	.8884	9.04	3.5397	3.5067	3.2381	55.80	7.8750	7.8100	7.2810
1.26	1.0529	1.0353	.8948	9.05	3.5415	3.5086	3.2398	55.90	7.8810	7.8160	7.2870
1.27	1.0600	1.0423	.9012	9.06	3.5434	3.5104	3.2415	56.00	7.8870	7.8220	7.2920
1.28	1.0670	1.0493	.9075	9.07	3.5452	3.5122	3.2433	56.10	7.8930	7.8280	7.2980
1.29	1.0741	1.0563	.9138	9.08	3.5471	3.5141	3.2453	56.20	7.8990	7.8330	7.3030
1.30	1.0811	1.0632	.9202	9.09	3.5489	3.5159	3.2467	56.30	7.9050	7.8390	7.3090
1.31	1.0880	1.0701	.9265	9.10	3.5508	3.5177	3.2485	56.40	7.9100	7.8450	7.3140
1.32	1.0950	1.0770	.9327	9.11	3.5526	3.5196	3.2502	56.50	7.9160	7.8510	7.3200
1.33	1.1019	1.0838	.9390	9.12	3.5544	3.5214	3.2519	56.60	7.9220	7.8570	7.3250
1.34	1.1088	1.0906	.9452	9.13	3.5563	3.5232	3.2537	56.70	7.9280	7.8630	7.3310
1.35	1.1156	1.0974	.9515	9.14	3.5581	3.5250	3.2554	56.80	7.9340	7.8680	7.3360
1.36	1.1224	1.1042	.9577	9.15	3.5599	3.5269	3.2571	56.90	7.9400	7.8740	7.3420
1.37	1.1292	1.1109	.9638	9.16	3.5618	3.5287	3.2588	57.00	7.9460	7.8800	7.3450
1.38	1.1360	1.1176	.9700	9.17	3.5636	3.5305	3.2606	57.10	7.9510	7.8860	7.3520
1.39	1.1428	1.1243	.9761	9.18	3.5654	3.5323	3.2623	57.20	7.9570	7.8920	7.3580
1.40	1.1495	1.1310	.9823	9.19	3.5673	3.5341	3.2640	57.30	7.9630	7.8970	7.3630
1.41	1.1562	1.1376	.9884	9.20	3.5691	3.5359	3.2657	57.40	7.9690	7.9030	7.3690
1.42	1.1629	1.1442	.9944	9.21	3.5709	3.5378	3.2674	57.50	7.9750	7.9090	7.3740
1.43	1.1695	1.1508	1.0005	9.22	3.5727	3.5396	3.2692	57.60	7.9800	7.9150	7.3800
1.44	1.1761	1.1574	1.0065	9.23	3.5746	3.5414	3.2709	57.70	7.9860	7.9200	7.3850
1.45	1.1827	1.1639	1.0126	9.24	3.5764	3.5432	3.2726	57.80	7.9920	7.9260	7.3900
1.46	1.1893	1.1704	1.0186	9.25	3.5782	3.5450	3.2743	57.90	7.9980	7.9320	7.3960
1.47	1.1958	1.1769	1.0246	9.26	3.5800	3.5468	3.2760	58.00	8.0030	7.9380	7.4010
1.48	1.2024	1.1834	1.0305	9.27	3.5818	3.5486	3.2777	58.10	8.0090	7.9430	7.4070
1.49	1.2089	1.1898	1.0365	9.28	3.5837	3.5504	3.2794	58.20	8.0150	7.9490	7.4120
1.50	1.2153	1.1962	1.0424	9.29	3.5855	3.5522	3.2811	58.30	8.0210	7.9550	7.4170
1.51	1.2218	1.2026	1.0483	9.30	3.5873	3.5540	3.2828	58.40	8.0260	7.9600	7.4230
1.52	1.2282	1.2090	1.0542	9.31	3.5891	3.5558	3.2845	58.50	8.0320	7.9660	7.4280
1.53	1.2346	1.2153	1.0601	9.32	3.5909	3.5576	3.2863	58.60	8.0380	7.9720	7.4330
1.54	1.2410	1.2217	1.0659	9.33	3.5927	3.5594	3.2880	58.70	8.0440	7.9770	7.4390
1.55	1.2473	1.2279	1.0718	9.34	3.5945	3.5612	3.2897	58.80	8.0490	7.9830	7.4440
1.56	1.2536	1.2342	1.0776	9.35	3.5963	3.5630	3.2914	58.90	8.0550	7.9890	7.4500
1.57	1.2599	1.2405	1.0834	9.36	3.5981	3.5648	3.2931	59.00	8.0610	7.9940	7.4550
1.58	1.2652	1.2467	1.0891	9.37	3.5999	3.5666	3.2948	59.10	8.0660	8.0000	7.4600
1.59	1.2724	1.2529	1.0949	9.38	3.6017	3.5684	3.2965	59.20	8.0720	8.0060	7.4660

三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z
1.60	1.2787	1.2591	1.1006	9.39	3.6035	3.5702	3.2981	59.30	8.0780	8.0110	7.4710
1.61	1.2849	1.2652	1.1064	9.40	3.6053	3.5720	3.2998	59.40	8.0830	8.0170	7.4760
1.62	1.2911	1.2714	1.1121	9.41	3.6071	3.5737	3.3015	59.50	8.0890	8.0230	7.4810
1.63	1.2972	1.2775	1.1178	9.42	3.6089	3.5755	3.3032	59.60	8.0950	8.0280	7.4870
1.64	1.3033	1.2836	1.1234	9.43	3.6107	3.5773	3.3049	59.70	8.1000	8.0340	7.4920
1.65	1.3095	1.2896	1.1291	9.44	3.6125	3.5791	3.3066	59.80	8.1060	8.0390	7.4970
1.66	1.3155	1.2957	1.1347	9.45	3.6143	3.5809	3.3083	59.90	8.1120	8.0450	7.5030
1.67	1.3216	1.3017	1.1403	9.46	3.6161	3.5827	3.3100	60.00	8.1170	8.0510	7.5080
1.68	1.3277	1.3077	1.1459	9.47	3.6179	3.5844	3.3117	60.10	8.1230	8.0560	7.5130
1.69	1.3337	1.3138	1.1515	9.48	3.6197	3.5862	3.3134	60.20	8.1290	8.0620	7.5190
1.70	1.3397	1.3196	1.1570	9.49	3.6215	3.5880	3.3150	60.30	8.1340	8.0670	7.5240
1.71	1.3456	1.3255	1.1626	9.50	3.6233	3.5898	3.3167	60.40	8.1400	8.0730	7.5290
1.72	1.3516	1.3314	1.1681	9.51	3.6251	3.5916	3.3184	60.50	8.1450	8.0790	7.5340
1.73	1.3575	1.3373	1.1736	9.52	3.6268	3.5933	3.3201	60.60	8.1510	8.0840	7.5400
1.74	1.3634	1.3432	1.1791	9.53	3.6286	3.5951	3.3218	60.70	8.1570	8.0900	7.5450
1.75	1.3693	1.3490	1.1845	9.54	3.6304	3.5969	3.3234	60.80	8.1620	8.0950	7.5500
1.76	1.3752	1.3549	1.1900	9.55	3.6322	3.5986	3.3251	60.90	8.1680	8.1010	7.5550
1.77	1.3810	1.3607	1.1954	9.56	3.6340	3.6004	3.3268	61.00	8.1730	8.1060	7.5600
1.78	1.3869	1.3665	1.2008	9.57	3.6358	3.6022	3.3285	61.10	8.1790	8.1120	7.5660
1.79	1.3927	1.3722	1.2062	9.58	3.6375	3.6039	3.3301	61.20	8.1840	8.1170	7.5710
1.80	1.3985	1.3780	1.2116	9.59	3.6393	3.6057	3.3318	61.30	8.1900	8.1230	7.5760
1.81	1.4042	1.3837	1.2170	9.60	3.6411	3.6075	3.3335	61.40	8.1960	8.1280	7.5810
1.82	1.4100	1.3894	1.2223	9.61	3.6429	3.6092	3.3351	61.50	8.2010	8.1340	7.5870
1.83	1.4157	1.3951	1.2277	9.62	3.6446	3.6110	3.3368	61.60	8.2070	8.1390	7.5920
1.84	1.4214	1.4007	1.2330	9.63	3.6464	3.6128	3.3385	61.70	8.2120	8.1450	7.5970
1.85	1.4271	1.4064	1.2383	9.64	3.6482	3.6145	3.3401	61.80	8.2180	8.1500	7.6020
1.86	1.4327	1.4120	1.2435	9.65	3.6499	3.6163	3.3418	61.90	8.2230	8.1560	7.6070
1.87	1.4384	1.4176	1.2488	9.66	3.6517	3.6180	3.3435	62.00	8.2290	8.1610	7.6120
1.88	1.4440	1.4232	1.2540	9.67	3.6535	3.6198	3.3451	62.10	8.2340	8.1670	7.6180
1.89	1.4496	1.4287	1.2593	9.68	3.6552	3.6215	3.3468	62.20	8.2400	8.1720	7.6230
1.90	1.4552	1.4343	1.2645	9.69	3.6570	3.6233	3.3485	62.30	8.2450	8.1780	7.6280
1.91	1.4607	1.4398	1.2697	9.70	3.6588	3.6250	3.3501	62.40	8.2510	8.1830	7.6330
1.92	1.4663	1.4453	1.2749	9.71	3.6605	3.6268	3.3518	62.50	8.2560	8.1890	7.6380
1.93	1.4718	1.4508	1.2800	9.72	3.6623	3.6285	3.3534	62.60	8.2620	8.1940	7.6430
1.94	1.4773	1.4563	1.2852	9.73	3.6641	3.6303	3.3551	62.70	8.2670	8.2000	7.6480
1.95	1.4828	1.4617	1.2903	9.74	3.6658	3.6320	3.3567	62.80	8.2730	8.2050	7.6540
1.96	1.4883	1.4671	1.2954	9.75	3.6676	3.6338	3.3584	62.90	8.2780	8.2100	7.6590
1.97	1.4937	1.4726	1.3005	9.76	3.6693	3.6355	3.3600	63.00	8.2840	8.2160	7.6640
1.98	1.4991	1.4780	1.3056	9.77	3.6711	3.6373	3.3617	63.10	8.2890	8.2210	7.6690
1.99	1.5045	1.4833	1.3107	9.78	3.6728	3.6390	3.3633	63.20	8.2940	8.2270	7.6740
2.00	1.5099	1.4887	1.3157	9.79	3.6746	3.6408	3.3650	63.30	8.3000	8.2320	7.6790
2.01	1.5153	1.4940	1.3208	9.80	3.6763	3.6425	3.3666	63.40	8.3050	8.2370	7.6840
2.02	1.5207	1.4994	1.3258	9.81	3.6781	3.6442	3.3683	63.50	8.3110	8.2430	7.6890
2.03	1.5260	1.5047	1.3308	9.82	3.6798	3.6460	3.3699	63.60	8.3160	8.2480	7.6940
2.04	1.5313	1.5099	1.3358	9.83	3.6816	3.6477	3.3716	63.70	8.3220	8.2540	7.7000
2.05	1.5366	1.5152	1.3407	9.84	3.6833	3.6494	3.3732	63.80	8.3270	8.2590	7.7050
2.06	1.5419	1.5205	1.3457	9.85	3.6851	3.6512	3.3749	63.90	8.3320	8.2640	7.7100
2.07	1.5472	1.5257	1.3506	9.86	3.6868	3.6529	3.3765	64.00	8.3380	8.2700	7.7150
2.08	1.5524	1.5309	1.3556	9.87	3.6886	3.6546	3.3781	64.10	8.3430	8.2750	7.7200
2.09	1.5577	1.5361	1.3605	9.88	3.6903	3.6564	3.3798	64.20	8.3490	8.2800	7.7250
2.10	1.5629	1.5413	1.3654	9.89	3.6921	3.6581	3.3814	64.30	8.3540	8.2860	7.7300
2.11	1.5681	1.5465	1.3703	9.90	3.6938	3.6598	3.3830	64.40	8.3590	8.2910	7.7350
2.12	1.5733	1.5516	1.3751	9.91	3.6955	3.6616	3.3847	64.50	8.3650	8.2960	7.7400
2.13	1.5784	1.5567	1.3800	9.92	3.6973	3.6633	3.3863	64.60	8.3700	8.3020	7.7450

三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z
2.14	1.5836	1.5619	1.3848	9.93	3.6990	3.6650	3.3879	64.70	8.3750	8.3070	7.7500
2.15	1.5887	1.5670	1.3897	9.94	3.7007	3.6667	3.3896	64.80	8.3810	8.3120	7.7550
2.16	1.5938	1.5720	1.3945	9.95	3.7025	3.6684	3.3912	64.90	8.3860	8.3180	7.7600
2.17	1.5989	1.5771	1.3993	9.96	3.7042	3.6702	3.3928	65.00	8.3910	8.3230	7.7650
2.18	1.6040	1.5822	1.4041	9.97	3.7059	3.6719	3.3945	65.10	8.3970	8.3280	7.7700
2.19	1.6091	1.5872	1.4088	9.98	3.7077	3.6736	3.3961	65.20	8.4020	8.3340	7.7750
2.20	1.6141	1.5922	1.4136	9.99	3.7094	3.6753	3.3977	65.30	8.4070	8.3390	7.7800
2.21	1.6191	1.5972	1.4183	10.00	3.7111	3.6770	3.3993	65.40	8.4130	8.3440	7.7850
2.22	1.6242	1.6022	1.4230	10.01	3.7129	3.6788	3.4010	65.50	8.4180	8.3490	7.7900
2.23	1.6292	1.6072	1.4278	10.02	3.7146	3.6805	3.4026	65.60	8.4230	8.3550	7.7950
2.24	1.6342	1.6121	1.4325	10.03	3.7163	3.6822	3.4042	65.70	8.4290	8.3600	7.8000
2.25	1.6391	1.6171	1.4371	10.04	3.7180	3.6839	3.4058	65.80	8.4340	8.3650	7.8050
2.26	1.6441	1.6220	1.4418	10.05	3.7197	3.6856	3.4074	65.90	8.4390	8.3700	7.8100
2.27	1.6490	1.6269	1.4465	10.06	3.7215	3.6873	3.4091	66.00	8.4440	8.3760	7.8150
2.28	1.6539	1.6318	1.4511	10.07	3.7232	3.6890	3.4107	66.10	8.4500	8.3810	7.8200
2.29	1.6589	1.6367	1.4557	10.08	3.7249	3.6907	3.4123	66.20	8.4550	8.3860	7.8250
2.30	1.6638	1.6416	1.4604	10.09	3.7266	3.6924	3.4139	66.30	8.4600	8.3910	7.8300
2.31	1.6686	1.6464	1.4650	10.10	3.7283	3.6941	3.4155	66.40	8.4660	8.3970	7.8350
2.32	1.6735	1.6513	1.4696	10.11	3.7301	3.6959	3.4171	66.50	8.4710	8.4020	7.8400
2.33	1.6783	1.6561	1.4741	10.12	3.7318	3.6976	3.4187	66.60	8.4760	8.4070	7.8450
2.34	1.6832	1.6609	1.4787	10.13	3.7335	3.6993	3.4204	66.70	8.4810	8.4120	7.8500
2.35	1.6880	1.6657	1.4832	10.14	3.7352	3.7010	3.4220	66.80	8.4870	8.4150	7.8550
2.36	1.6928	1.6705	1.4878	10.15	3.7369	3.7027	3.4236	66.90	8.4920	8.4230	7.8600
2.37	1.6976	1.6752	1.4923	10.16	3.7386	3.7044	3.4252	67.00	8.4970	8.4280	7.8640
2.38	1.7024	1.6800	1.4968	10.17	3.7403	3.7061	3.4268	67.10	8.5020	8.4330	7.8690
2.39	1.7071	1.6847	1.5013	10.18	3.7420	3.7077	3.4284	67.20	8.5070	8.4380	7.8740
2.40	1.7119	1.6894	1.5058	10.19	3.7437	3.7094	3.4300	67.30	8.5130	8.4430	7.8790
2.41	1.7166	1.6941	1.5103	10.20	3.7454	3.7111	3.4316	67.40	8.5180	8.4490	7.8840
2.42	1.7213	1.6988	1.5147	10.21	3.7472	3.7128	3.4332	67.50	8.5230	8.4540	7.8890
2.43	1.7261	1.7035	1.5192	10.22	3.7489	3.7145	3.4348	67.60	8.5280	8.4590	7.8940
2.44	1.7307	1.7082	1.5236	10.23	3.7506	3.7162	3.4364	67.70	8.5330	8.4640	7.8990
2.45	1.7354	1.7128	1.5281	10.24	3.7523	3.7179	3.4380	67.80	8.5390	8.4690	7.9040
2.46	1.7401	1.7175	1.5325	10.25	3.7540	3.7196	3.4396	67.90	8.5440	8.4740	7.9080
2.47	1.7447	1.7221	1.5369	10.26	3.7557	3.7213	3.4411	68.00	8.5490	8.4800	7.9130
2.48	1.7494	1.7267	1.5413	10.27	3.7574	3.7230	3.4428	68.10	8.5540	8.4850	7.9180
2.49	1.7540	1.7313	1.5456	10.28	3.7591	3.7247	3.4444	68.20	8.5590	8.4900	7.9230
2.50	1.7586	1.7359	1.5500	10.29	3.7608	3.7263	3.4460	68.30	8.5640	8.4950	7.9280
2.51	1.7632	1.7405	1.5543	10.30	3.7624	3.7280	3.4476	68.40	8.5700	8.5000	7.9330
2.52	1.7678	1.7450	1.5587	10.31	3.7641	3.7297	3.4492	68.50	8.5750	8.5050	7.9380
2.53	1.7724	1.7496	1.5630	10.32	3.7658	3.7314	3.4508	68.60	8.5800	8.5100	7.9420
2.54	1.7769	1.7541	1.5673	10.33	3.7675	3.7331	3.4523	68.70	8.5850	8.5150	7.9470
2.55	1.7815	1.7586	1.5716	10.34	3.7692	3.7347	3.4539	68.80	8.5900	8.5210	7.9520
2.56	1.7860	1.7631	1.5759	10.35	3.7709	3.7364	3.4555	68.90	8.5950	8.5260	7.9570
2.57	1.7906	1.7676	1.5802	10.36	3.7726	3.7381	3.4571	69.00	8.6000	8.5310	7.9620
2.58	1.7951	1.7721	1.5845	10.37	3.7743	3.7398	3.4587	69.10	8.6060	8.5360	7.9670
2.59	1.7996	1.7766	1.5887	10.38	3.7760	3.7414	3.4603	69.20	8.6110	8.5410	7.9710
2.60	1.8040	1.7811	1.5930	10.39	3.7777	3.7431	3.4619	69.30	8.6160	8.5460	7.9760
2.61	1.8085	1.7855	1.5972	10.40	3.7793	3.7448	3.4634	69.40	8.6210	8.5510	7.9810
2.62	1.8130	1.7899	1.6014	10.41	3.7810	3.7465	3.4650	69.50	8.6260	8.5560	7.9860
2.63	1.8174	1.7944	1.6057	10.42	3.7827	3.7481	3.4666	69.60	8.6310	8.5610	7.9910
2.64	1.8219	1.7988	1.6099	10.43	3.7844	3.7498	3.4682	69.70	8.6360	8.5660	7.9950
2.65	1.8263	1.8032	1.6141	10.44	3.7861	3.7515	3.4698	69.80	8.6410	8.5710	8.0000
2.66	1.8307	1.8076	1.6182	10.45	3.7877	3.7531	3.4713	69.90	8.6460	8.5760	8.0050
2.67	1.8351	1.8119	1.6224	10.46	3.7894	3.7548	3.4729	70.00	8.6510	8.5810	8.0100

三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z
2.68	1.8395	1.8163	1.6266	10.47	3.7911	3.7565	3.4745	70.10	8.6560	8.5860	8.0150
2.69	1.8439	1.8207	1.6307	10.48	3.7928	3.7581	3.4761	70.20	8.6610	8.5910	8.0190
2.70	1.8482	1.8250	1.6348	10.49	3.7944	3.7598	3.4776	70.30	8.6670	8.5960	8.0240
2.71	1.8526	1.8293	1.6390	10.50	3.7961	3.7615	3.4792	70.40	8.6720	8.6010	8.0290
2.72	1.8569	1.8336	1.6431	10.51	3.7978	3.7631	3.4808	70.50	8.6770	8.6060	8.0340
2.73	1.8612	1.8379	1.6472	10.52	3.7995	3.7648	3.4823	70.60	8.6820	8.6110	8.0380
2.74	1.8656	1.8422	1.6513	10.53	3.8011	3.7664	3.4839	70.70	8.6870	8.6160	8.0430
2.75	1.8699	1.8465	1.6554	10.54	3.8028	3.7681	3.4855	70.80	8.6920	8.6210	8.0480
2.76	1.8742	1.8508	1.6594	10.55	3.8045	3.7698	3.4871	70.90	8.6970	8.6260	8.0530
2.77	1.8784	1.8550	1.6635	10.56	3.8061	3.7714	3.4886	71.00	8.7020	8.6310	8.0570
2.78	1.8827	1.8593	1.6676	10.57	3.8078	3.7731	3.4902	71.10	8.7070	8.6360	8.0620
2.79	1.8870	1.8635	1.6716	10.58	3.8095	3.7747	3.4917	71.20	8.7120	8.6410	8.0670
2.80	1.8912	1.8678	1.6756	10.59	3.8111	3.7764	3.4933	71.30	8.7170	8.6460	8.0710
2.81	1.8955	1.8720	1.6797	10.60	3.8128	3.7780	3.4949	71.40	8.7220	8.6510	8.0760
2.82	1.8997	1.8762	1.6837	10.61	3.8145	3.7797	3.4964	71.50	8.7270	8.6560	8.0810
2.83	1.9039	1.8804	1.6877	10.62	3.8161	3.7813	3.4980	71.60	8.7320	8.6610	8.0860
2.84	1.9081	1.8846	1.6917	10.63	3.8178	3.7830	3.4996	71.70	8.7370	8.6660	8.0900
2.85	1.9123	1.8887	1.6956	10.64	3.8194	3.7846	3.5011	71.80	8.7420	8.6710	8.0950
2.86	1.9165	1.8929	1.6996	10.65	3.8211	3.7863	3.5027	71.90	8.7470	8.6760	8.1000
2.87	1.9207	1.8971	1.7036	10.66	3.8227	3.7879	3.5042	72.00	8.7520	8.6810	8.1040
2.88	1.9248	1.9012	1.7075	10.67	3.8244	3.7896	3.5058	72.10	8.7570	8.6860	8.1090
2.89	1.9290	1.9053	1.7115	10.68	3.8261	3.7912	3.5073	72.20	8.7620	8.6910	8.1140
2.90	1.9331	1.9094	1.7154	10.69	3.8277	3.7928	3.5089	72.30	8.7670	8.6960	8.1180
2.91	1.9373	1.9136	1.7193	10.70	3.8294	3.7945	3.5104	72.40	8.7720	8.7010	8.1230
2.92	1.9414	1.9177	1.7232	10.71	3.8310	3.7961	3.5120	72.50	8.7760	8.7060	8.1280
2.93	1.9455	1.9217	1.7271	10.72	3.8327	3.7978	3.5135	72.60	8.7810	8.7110	8.1320
2.94	1.9496	1.9258	1.7310	10.73	3.8343	3.7994	3.5151	72.70	8.7860	8.7160	8.1370
2.95	1.9537	1.9299	1.7349	10.74	3.8360	3.8010	3.5166	72.80	8.7910	8.7200	8.1420
2.96	1.9578	1.9340	1.7388	10.75	3.8376	3.8027	3.5182	72.90	8.7960	8.7250	8.1460
2.97	1.9618	1.9380	1.7427	10.76	3.8393	3.8043	3.5197	73.00	8.8010	8.7300	8.1510
2.98	1.9659	1.9420	1.7465	10.77	3.8409	3.8060	3.5213	73.10	8.8060	8.7350	8.1560
2.99	1.9700	1.9461	1.7504	10.78	3.8426	3.8076	3.5228	73.20	8.8110	8.7400	8.1600
3.00	1.9740	1.9501	1.7542	10.79	3.8442	3.8092	3.5244	73.30	8.8160	8.7450	8.1650
3.01	1.9780	1.9541	1.7580	10.80	3.8458	3.8109	3.5259	73.40	8.8210	8.7500	8.1700
3.02	1.9821	1.9581	1.7619	10.81	3.8475	3.8125	3.5275	73.50	8.8260	8.7550	8.1740
3.03	1.9861	1.9621	1.7657	10.82	3.8491	3.8141	3.5290	73.60	8.8310	8.7600	8.1790
3.04	1.9901	1.9661	1.7695	10.83	3.8508	3.8157	3.5305	73.70	8.8350	8.7640	8.1830
3.05	1.9941	1.9700	1.7733	10.84	3.8524	3.8174	3.5321	73.80	8.8400	8.7690	8.1880
3.06	1.9980	1.9740	1.7771	10.85	3.8540	3.8190	3.5336	73.90	8.8450	8.7740	8.1930
3.07	2.0020	1.9780	1.7808	10.86	3.8557	3.8206	3.5351	74.00	8.8500	8.7790	8.1970
3.08	2.0060	1.9819	1.7846	10.87	3.8573	3.8222	3.5367	74.10	8.8550	8.7840	8.2020
3.09	2.0099	1.9858	1.7884	10.88	3.8589	3.8239	3.5382	74.20	8.8600	8.7890	8.2060
3.10	2.0139	1.9898	1.7921	10.89	3.8606	3.8255	3.5397	74.30	8.8650	8.7930	8.2110
3.11	2.0178	1.9937	1.7958	10.90	3.8622	3.8271	3.5413	74.40	8.8700	8.7980	8.2160
3.12	2.0217	1.9976	1.7996	10.91	3.8638	3.8287	3.5428	74.50	8.8740	8.8030	8.2200
3.13	2.0257	2.0015	1.8033	10.92	3.8655	3.8304	3.5443	74.60	8.8790	8.8080	8.2250
3.14	2.0296	2.0054	1.8070	10.93	3.8671	3.8320	3.5459	74.70	8.8840	8.8130	8.2290
3.15	2.0335	2.0093	1.8107	10.94	3.8687	3.8336	3.5474	74.80	8.8890	8.8180	8.2340
3.16	2.0374	2.0131	1.8144	10.95	3.8704	3.8352	3.5489	74.90	8.8940	8.8220	8.2390
3.17	2.0413	2.0170	1.8181	10.96	3.8720	3.8368	3.5505	75.00	8.8990	8.8270	8.2430
3.18	2.0451	2.0208	1.8218	10.97	3.8736	3.8384	3.5520	75.10	8.9030	8.8320	8.2480
3.19	2.0490	2.0247	1.8255	10.98	3.8752	3.8401	3.5535	75.20	8.9050	8.8370	8.2520
3.20	2.0528	2.0285	1.8291	10.99	3.8769	3.8417	3.5550	75.30	8.9130	8.8420	8.2570
3.21	2.0567	2.0323	1.8328	11.00	3.8780	3.8430	3.5570	75.40	8.9180	8.8460	8.2610

三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z
3.22	2.0605	2.0362	1.8364	11.01	3.8800	3.8450	3.5580	75.50	8.9230	8.8510	8.2660
3.23	2.0644	2.0400	1.8401	11.02	3.8820	3.8460	3.5600	75.60	8.9270	8.8560	8.2700
3.24	2.0682	2.0438	1.8437	11.03	3.8830	3.8480	3.5610	75.70	8.9320	8.8610	8.2750
3.25	2.0720	2.0476	1.8473	11.04	3.8850	3.8500	3.5630	75.80	8.9370	8.8650	8.2790
3.26	2.0758	2.0513	1.8509	11.05	3.8870	3.8510	3.5640	75.90	8.9420	8.8700	8.2840
3.27	2.0796	2.0551	1.8546	11.06	3.8880	3.8530	3.5660	76.00	8.9470	8.8750	8.2890
3.28	2.0834	2.0589	1.8582	11.07	3.8900	3.8550	3.5670	76.10	8.9510	8.8800	8.2930
3.29	2.0872	2.0626	1.8617	11.08	3.8910	3.8560	3.5690	76.20	8.9560	8.8840	8.2980
3.30	2.0909	2.0664	1.8653	11.09	3.8930	3.8580	3.5700	76.30	8.9610	8.8890	8.3020
3.31	2.0947	2.0701	1.8689	11.10	3.8950	3.8590	3.5720	76.40	8.9660	8.8940	8.3070
3.32	2.0984	2.0739	1.8725	11.11	3.8960	3.8610	3.5730	76.50	8.9700	8.8990	8.3110
3.33	2.1022	2.0776	1.8760	11.12	3.8980	3.8630	3.5750	76.60	8.9750	8.9030	8.3160
3.34	2.1059	2.0813	1.8796	11.13	3.9000	3.8640	3.5760	76.70	8.9800	8.9080	8.3200
3.35	2.1096	2.0850	1.8831	11.14	3.9010	3.8660	3.5780	76.80	8.9850	8.9130	8.3250
3.36	2.1134	2.0887	1.8867	11.15	3.9030	3.8670	3.5790	76.90	8.9890	8.9180	8.3290
3.37	2.1171	2.0924	1.8902	11.16	3.9040	3.8690	3.5810	77.00	8.9940	8.9220	8.3340
3.38	2.1208	2.0961	1.8937	11.17	3.9060	3.8710	3.5820	77.10	8.9990	8.9270	8.3380
3.39	2.1245	2.0998	1.8972	11.18	3.9080	3.8720	3.5840	77.20	9.0040	8.9320	8.3420
3.40	2.1282	2.1034	1.9007	11.19	3.9090	3.8740	3.5850	77.30	9.0080	8.9360	8.3470
3.41	2.1318	2.1071	1.9042	11.20	3.9110	3.8750	3.5870	77.40	9.0130	8.9410	8.3510
3.42	2.1355	2.1107	1.9077	11.21	3.9120	3.8770	3.5880	77.50	9.0180	8.9460	8.3560
3.43	2.1392	2.1144	1.9112	11.22	3.9140	3.8790	3.5900	77.60	9.0230	8.9500	8.3600
3.44	2.1428	2.1180	1.9147	11.23	3.9160	3.8800	3.5910	77.70	9.0270	8.9550	8.3650
3.45	2.1465	2.1217	1.9182	11.24	3.9170	3.8820	3.5930	77.80	9.0320	8.9600	8.3690
3.46	2.1501	2.1253	1.9216	11.25	3.9190	3.8830	3.5940	77.90	9.0370	8.9640	8.3740
3.47	2.1538	2.1289	1.9251	11.26	3.9200	3.8850	3.5960	78.00	9.0410	8.9690	8.3780
3.48	2.1574	2.1325	1.9285	11.27	3.9220	3.8860	3.5970	78.10	9.0460	8.9740	8.3830
3.49	2.1610	2.1361	1.9320	11.28	3.9240	3.8880	3.5990	78.20	9.0510	8.9780	8.3870
3.50	2.1646	2.1397	1.9354	11.29	3.9250	3.8900	3.6000	78.30	9.0550	8.9830	8.3910
3.51	2.1682	2.1433	1.9388	11.30	3.9270	3.8910	3.6020	78.40	9.0600	8.9880	8.3960
3.52	2.1718	2.1469	1.9423	11.31	3.9280	3.8930	3.6030	78.50	9.0650	8.9920	8.4000
3.53	2.1754	2.1504	1.9457	11.32	3.9300	3.8940	3.6050	78.60	9.0690	8.9970	8.4050
3.54	2.1790	2.1540	1.9491	11.33	3.9320	3.8960	3.6060	78.70	9.0740	9.0020	8.4090
3.55	2.1826	2.1575	1.9525	11.34	3.9330	3.8980	3.6080	78.80	9.0790	9.0060	8.4140
3.56	2.1861	2.1611	1.9559	11.35	3.9350	3.8990	3.6090	78.90	9.0830	9.0110	8.4180
3.57	2.1897	2.1646	1.9592	11.36	3.9360	3.9010	3.6110	79.00	9.0880	9.0160	8.4220
3.58	2.1932	2.1682	1.9626	11.37	3.9380	3.9020	3.6120	79.10	9.0930	9.0200	8.4270
3.59	2.1968	2.1717	1.9660	11.38	3.9390	3.9040	3.6140	79.20	9.0970	9.0250	8.4310
3.60	2.2003	2.1752	1.9690	11.39	3.9410	3.9050	3.6150	79.30	9.1020	9.0290	8.4360
3.61	2.2038	2.1787	1.9727	11.40	3.9430	3.9070	3.6170	79.40	9.1070	9.0340	8.4400
3.62	2.2074	2.1822	1.9761	11.41	3.9440	3.9090	3.6180	79.50	9.1110	9.0390	8.4440
3.63	2.2109	2.1857	1.9794	11.42	3.9460	3.9100	3.6200	79.60	9.1160	9.0430	8.4490
3.64	2.2144	2.1892	1.9827	11.43	3.9470	3.9120	3.6210	79.70	9.1200	9.0480	8.4530
3.65	2.2179	2.1927	1.9861	11.44	3.9490	3.9130	3.6230	79.80	9.1250	9.0520	8.4570
3.66	2.2214	2.1962	1.9894	11.45	3.9510	3.9150	3.6240	79.90	9.1300	9.0570	8.4620
3.67	2.2249	2.1996	1.9927	11.46	3.9520	3.9160	3.6260	80.00	9.1340	9.0620	8.4660
3.68	2.2284	2.2031	1.9960	11.47	3.9540	3.9180	3.6270	80.10	9.1390	9.0660	8.4710
3.69	2.2318	2.2065	1.9993	11.48	3.9550	3.9200	3.6290	80.20	9.1430	9.0710	8.4750
3.70	2.2353	2.2100	2.0026	11.49	3.9570	3.9210	3.6300	80.30	9.1480	9.0750	8.4790
3.71	2.2388	2.2134	2.0059	11.50	3.9580	3.9230	3.6320	80.40	9.1530	9.0800	8.4840
3.72	2.2422	2.2169	2.0092	11.51	3.9600	3.9240	3.6330	80.50	9.1570	9.0840	8.4880
3.73	2.2456	2.2203	2.0125	11.52	3.9620	3.9260	3.6350	80.60	9.1620	9.0890	8.4920
3.74	2.2491	2.2237	2.0158	11.53	3.9630	3.9270	3.6360	80.70	9.1660	9.0930	8.4970
3.75	2.2525	2.2271	2.0190	11.54	3.9650	3.9290	3.6380	80.80	9.1710	9.0980	8.5010

三色激値	V _x	V _y	V _z	三色激値	V _x	V _y	V _z	三色激値	V _x	V _y	V _z
3.76	2.2559	2.2305	2.0223	11.55	3.9660	3.9310	3.6390	80.90	9.1750	9.1030	8.5050
3.77	2.2594	2.2339	2.0255	11.56	3.9680	3.9320	3.6400	81.00	9.1800	9.1070	8.5100
3.78	2.2628	2.2373	2.0288	11.57	3.9690	3.9340	3.6420	81.10	9.1850	9.1120	8.5140
3.79	2.2662	2.2407	2.0320	11.58	3.9710	3.9350	3.6430	81.20	9.1890	9.1160	8.5180
3.80	2.2696	2.2441	2.0352	11.59	3.9730	3.9370	3.6450	81.30	9.1940	9.1210	8.5230
3.81	2.2730	2.2475	2.0385	11.60	3.9740	3.9380	3.6460	81.40	9.1980	9.1250	8.5270
3.82	2.2766	2.2509	2.0417	11.61	3.9760	3.9400	3.6480	81.50	9.2030	9.1300	8.5310
3.83	2.2797	2.2542	2.0449	11.62	3.9770	3.9410	3.6490	81.60	9.2070	9.1340	8.5350
3.84	2.2831	2.2576	2.0481	11.63	3.9790	3.9430	3.6510	81.70	9.2120	9.1390	8.5400
3.85	2.2865	2.2609	2.0513	11.64	3.9800	3.9450	3.6520	81.80	9.2160	9.1430	8.5440
3.86	2.2898	2.2643	2.0545	11.65	3.9820	3.9460	3.6540	81.90	9.2210	9.1480	8.5480
3.87	2.2932	2.2676	2.0577	11.66	3.9840	3.9480	3.6550	82.00	9.2250	9.1520	8.5530
3.88	2.2966	2.2709	2.0609	11.67	3.9850	3.9490	3.6570	82.10	9.2300	9.1570	8.5570
3.89	2.2999	2.2743	2.0641	11.68	3.9870	3.9510	3.6580	82.20	9.2340	9.1610	8.5610
3.90	2.3032	2.2776	2.0672	11.69	3.9880	3.9520	3.6600	82.30	9.2390	9.1660	8.5660
3.91	2.3066	2.2809	2.0704	11.70	3.9900	3.9540	3.6610	82.40	9.2440	9.1700	8.5700
3.92	2.3099	2.2842	2.0736	11.71	3.9910	3.9550	3.6620	82.50	9.2480	9.1750	8.5740
3.93	2.3132	2.2875	2.0767	11.72	3.9930	3.9570	3.6640	82.60	9.2530	9.1790	8.5780
3.94	2.3165	2.2908	2.0799	11.73	3.9940	3.9580	3.6650	82.70	9.2570	9.1840	8.5830
3.95	2.3198	2.2941	2.0830	11.74	3.9960	3.9600	3.6670	82.80	9.2610	9.1880	8.5870
3.96	2.3231	2.2974	2.0862	11.75	3.9980	3.9620	3.6680	82.90	9.2660	9.1930	8.5910
3.97	2.3264	2.3006	2.0893	11.76	3.9990	3.9630	3.6700	83.00	9.2700	9.1970	8.5950
3.98	2.3297	2.3039	2.0924	11.77	4.0010	3.9650	3.6710	83.10	9.2750	9.2020	8.6000
3.99	2.3330	2.3072	2.0955	11.78	4.0020	3.9660	3.6730	83.20	9.2790	9.2060	8.6040
4.00	2.3363	2.3104	2.0987	11.79	4.0040	3.9680	3.6740	83.30	9.2840	9.2100	8.6080
4.01	2.3395	2.3137	2.1018	11.80	4.0050	3.9690	3.6760	83.40	9.2880	9.2150	8.6120
4.02	2.3428	2.3169	2.1049	11.81	4.0070	3.9710	3.6770	83.50	9.2930	9.2190	8.6170
4.03	2.3460	2.3202	2.1080	11.82	4.0080	3.9720	3.6780	83.60	9.2970	9.2240	8.6210
4.04	2.3493	2.3234	2.1111	11.83	4.0100	3.9740	3.6800	83.70	9.3020	9.2280	8.6250
4.05	2.3525	2.3266	2.1141	11.84	4.0120	3.9750	3.6810	83.80	9.3060	9.2330	8.6290
4.06	2.3558	2.3298	2.1172	11.85	4.0130	3.9770	3.6830	83.90	9.3110	9.2370	8.6340
4.07	2.3590	2.3331	2.1203	11.86	4.0150	3.9780	3.6840	84.00	9.3150	9.2410	8.6380
4.08	2.3622	2.3363	2.1234	11.87	4.0160	3.9800	3.6860	84.10	9.3190	9.2460	8.6420
4.09	2.3655	2.3395	2.1264	11.88	4.0180	3.9820	3.6870	84.20	9.3240	9.2500	8.6460
4.10	2.3687	2.3427	2.1295	11.89	4.0190	3.9830	3.6890	84.30	9.3280	9.2550	8.6500
4.11	2.3719	2.3459	2.1325	11.90	4.0210	3.9850	3.6900	84.40	9.3330	9.2590	8.6550
4.12	2.3751	2.3490	2.1356	11.91	4.0220	3.9860	3.6920	84.50	9.3370	9.2630	8.6590
4.13	2.3783	2.3522	2.1386	11.92	4.0240	3.9880	3.6930	84.60	9.3420	9.2680	8.6630
4.14	2.3815	2.3554	2.1417	11.93	4.0250	3.9890	3.6940	84.70	9.3460	9.2720	8.6670
4.15	2.3847	2.3586	2.1447	11.94	4.0270	3.9910	3.6960	84.80	9.3500	9.2770	8.6710
4.16	2.3879	2.3617	2.1477	11.95	4.0290	3.9920	3.6970	84.90	9.3550	9.2810	8.6760
4.17	2.3910	2.3649	2.1507	11.96	4.0300	3.9940	3.6990	85.00	9.3590	9.2850	8.6800
4.18	2.3942	2.3681	2.1538	11.97	4.0320	3.9950	3.7000	85.10	9.3640	9.2900	8.6840
4.19	2.3974	2.3712	2.1568	11.98	4.0330	3.9970	3.7020	85.20	9.3680	9.2940	8.6880
4.20	2.4005	2.3744	2.1598	11.99	4.0350	3.9980	3.7030	85.30	9.3720	9.2990	8.6920
4.21	2.4037	2.3775	2.1628	12.00	4.036	4.000	3.705	85.40	9.3770	9.3030	8.6960
4.22	2.4068	2.3806	2.1658	12.01	4.038	4.001	3.706	85.50	9.3810	9.3070	8.7010
4.23	2.4100	2.3837	2.1688	12.02	4.039	4.003	3.707	85.60	9.3860	9.3120	8.7050
4.24	2.4131	2.3869	2.1717	12.03	4.041	4.004	3.709	85.70	9.3900	9.3160	8.7090
4.25	2.4163	2.3900	2.1747	12.04	4.042	4.006	3.710	85.80	9.3940	9.3200	8.7130
4.26	2.4194	2.3931	2.1777	12.05	4.044	4.007	3.712	85.90	9.3990	9.3250	8.7170
4.27	2.4225	2.3962	2.1807	12.06	4.045	4.009	3.713	86.00	9.4030	9.3290	8.7210
4.28	2.4256	2.3993	2.1836	12.07	4.047	4.011	3.715	86.10	9.4070	9.3330	8.7260
4.29	2.4287	2.4024	2.1866	12.08	4.048	4.012	3.716	86.20	9.4120	9.3380	8.7300

三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z
4.30	2.4318	2.4055	2.1895	12.09	4.050	4.014	3.717	86.30	9.4160	9.3420	8.7340
4.31	2.4349	2.4086	2.1925	12.10	4.051	4.015	3.719	86.40	9.4200	9.3460	8.7380
4.32	2.4380	2.4117	2.1954	12.11	4.053	4.017	3.720	86.50	9.4250	9.3510	8.7420
4.33	2.4411	2.4147	2.1984	12.12	4.055	4.018	3.722	86.60	9.4290	9.3550	8.7460
4.34	2.4442	2.4178	2.2013	12.13	4.056	4.020	3.723	86.70	9.4330	9.3590	8.7500
4.35	2.4473	2.4209	2.2042	12.14	4.058	4.021	3.725	86.80	9.4380	9.3640	8.7550
4.36	2.4504	2.4239	2.2072	12.15	4.059	4.023	3.726	86.90	9.4420	9.3680	8.7590
4.37	2.4534	2.4270	2.2101	12.16	4.061	4.024	3.727	87.00	9.4460	9.3720	8.7630
4.38	2.4565	2.4300	2.2130	12.17	4.062	4.026	3.729	87.10	9.4510	9.3770	8.7670
4.39	2.4596	2.4331	2.2159	12.18	4.064	4.027	3.730	87.20	9.4550	9.3810	8.7710
4.40	2.4626	2.4361	2.2188	12.19	4.065	4.029	3.732	87.30	9.4590	9.3850	8.7750
4.41	2.4657	2.4391	2.2217	12.20	4.067	4.030	3.733	87.40	9.4640	9.3890	8.7790
4.42	2.4687	2.4422	2.2246	12.21	4.068	4.032	3.735	87.50	9.4680	9.3940	8.7830
4.43	2.4718	2.4452	2.2275	12.22	4.070	4.033	3.736	87.60	9.4720	9.3980	8.7870
4.44	2.4748	2.4482	2.2304	12.23	4.071	4.035	3.737	87.70	9.4770	9.4020	8.7910
4.45	2.4778	2.4512	2.2333	12.24	4.073	4.036	3.739	87.80	9.4810	9.4070	8.7960
4.46	2.4809	2.4542	2.2361	12.25	4.074	4.038	3.740	87.90	9.4850	9.4110	8.8000
4.47	2.4839	2.4572	2.2390	12.26	4.076	4.039	3.742	88.00	9.4900	9.4150	8.8040
4.48	2.4869	2.4602	2.2419	12.27	4.077	4.041	3.743	88.10	9.4940	9.4190	8.8080
4.49	2.4899	2.4632	2.2447	12.28	4.079	4.042	3.744	88.20	9.4980	9.4240	8.8120
4.50	2.4929	2.4662	2.2476	12.29	4.080	4.044	3.746	88.30	9.5020	9.4280	8.8160
4.51	2.4959	2.4692	2.2504	12.30	4.082	4.045	3.747	88.40	9.5070	9.4320	8.8200
4.52	2.4989	2.4722	2.2533	12.31	4.083	4.047	3.749	88.50	9.5110	9.4360	8.8240
4.53	2.5019	2.4752	2.2561	12.32	4.085	4.048	3.750	88.60	9.5150	9.4410	8.8280
4.54	2.5049	2.4781	2.2590	12.33	4.086	4.050	3.752	88.70	9.5190	9.4450	8.8320
4.55	2.5079	2.4811	2.2618	12.34	4.088	4.051	3.753	88.80	9.5240	9.4490	8.8360
4.56	2.5109	2.4841	2.2646	12.35	4.089	4.053	3.754	88.90	9.5280	9.4530	8.8400
4.57	2.5138	2.4870	2.2675	12.36	4.091	4.054	3.756	89.00	9.5320	9.4580	8.8440
4.58	2.5168	2.4900	2.2703	12.37	4.092	4.056	3.757	89.10	9.5360	9.4620	8.8480
4.59	2.5198	2.4929	2.2731	12.38	4.094	4.057	3.759	89.20	9.5410	9.4660	8.8520
4.60	2.5227	2.4959	2.2759	12.39	4.095	4.059	3.760	89.30	9.5450	9.4700	8.8570
4.61	2.5257	2.4988	2.2787	12.40	4.097	4.060	3.761	89.40	9.5490	9.4740	8.8610
4.62	2.5286	2.5017	2.2815	12.41	4.098	4.062	3.763	89.50	9.5530	9.4790	8.8650
4.63	2.5316	2.5047	2.2843	12.42	4.100	4.063	3.764	89.60	9.5580	9.4830	8.8690
4.64	2.5345	2.5079	2.2871	12.43	4.101	4.065	3.766	89.70	9.5620	9.4870	8.8730
4.65	2.5374	2.5105	2.2899	12.44	4.103	4.066	3.767	89.80	9.5660	9.4910	8.8770
4.66	2.5404	2.5134	2.2927	12.45	4.104	4.068	3.768	89.90	9.5700	9.4950	8.8810
4.67	2.5433	2.5136	2.2955	12.46	4.106	4.069	3.770	90.00	9.5740	9.5000	8.8850
4.68	2.5462	2.5192	2.2982	12.47	4.107	4.071	3.771	90.10	9.5790	9.5040	8.8890
4.69	2.5491	2.5221	2.3010	12.48	4.109	4.072	3.773	90.20	9.5830	9.5080	8.8930
4.70	2.5521	2.5250	2.3038	12.49	4.110	4.074	3.774	90.30	9.5870	9.5120	8.8970
4.71	2.5550	2.5279	2.3066	12.50	4.112	4.075	3.775	90.40	9.5910	9.5160	8.9010
4.72	2.5579	2.5308	2.3093	12.60	4.127	4.090	3.789	90.50	9.5950	9.5210	8.9050
4.73	2.5608	2.5337	2.3121	12.70	4.142	4.105	3.803	90.60	9.6000	9.5250	8.9090
4.74	2.5637	2.5366	2.3148	12.80	4.156	4.119	3.817	90.70	9.6040	9.5290	8.9130
4.75	2.5666	2.5395	2.3176	12.90	4.171	4.134	3.831	90.80	9.6080	9.5330	8.9170
4.76	2.5694	2.5423	2.3203	13.00	4.186	4.148	3.845	90.90	9.6120	9.5370	8.9210
4.77	2.5723	2.5452	2.3230	13.10	4.200	4.163	3.858	91.00	9.6160	9.5410	8.9250
4.78	2.5752	2.5481	2.3258	13.20	4.215	4.177	3.872	91.10	9.6210	9.5460	8.9290
4.79	2.5781	2.5509	2.3285	13.30	4.229	4.191	3.885	91.20	9.6250	9.5500	8.9330
4.80	2.5810	2.5538	2.3312	13.40	4.243	4.206	3.899	91.30	9.6290	9.5540	8.9370
4.81	2.5838	2.5566	2.3340	13.50	4.258	4.220	3.912	91.40	9.6330	9.5580	8.9410
4.82	2.5867	2.5595	2.3367	13.60	4.272	4.234	3.925	91.50	9.6370	9.5620	8.9450
4.83	2.5895	2.5623	2.3394	13.70	4.286	4.248	3.938	91.60	9.6410	9.5660	8.9490

三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z
4.84	2.5924	2.5652	2.3421	13.80	4.300	4.262	3.952	91.70	9.6460	9.5700	8.9530
4.85	2.5952	2.5680	2.3448	13.90	4.314	4.276	3.965	91.80	9.6500	9.5750	8.9570
4.86	2.5981	2.5708	2.3475	14.00	4.328	4.289	3.978	91.90	9.6540	9.5790	8.9600
4.87	2.6009	2.5736	2.3502	14.10	4.342	4.303	3.991	92.00	9.6580	9.5830	8.9640
4.88	2.6038	2.5765	2.3529	14.20	4.355	4.317	4.003	92.10	9.6620	9.5870	8.9680
4.89	2.6066	2.5793	2.3556	14.30	4.369	4.331	4.016	92.20	9.6660	9.5910	8.9720
4.90	2.6094	2.5821	2.3583	14.40	4.383	4.344	4.029	92.30	9.6700	9.5950	8.9760
4.91	2.6122	2.5849	2.3610	14.50	4.397	4.358	4.042	92.40	9.6750	9.5990	8.9800
4.92	2.6151	2.5877	2.3636	14.60	4.410	4.371	4.055	92.50	9.6790	9.6030	8.9840
4.93	2.6179	2.5905	2.3663	14.70	4.424	4.385	4.067	92.60	9.6830	9.6070	8.9880
4.94	2.6207	2.5933	2.3690	14.80	4.437	4.398	4.080	92.70	9.6870	9.6120	8.9920
4.95	2.6235	2.5961	2.3716	14.90	4.450	4.411	4.092	92.80	9.6910	9.6160	8.9960
4.96	2.6263	2.5989	2.3742	15.00	4.464	4.424	4.105	92.90	9.6950	9.6200	9.0000
4.97	2.6291	2.6017	2.3770	15.10	4.477	4.438	4.117	93.00	9.6990	9.6240	9.0040
4.98	2.6319	2.6044	2.3795	15.20	4.490	4.451	4.129	93.10	9.7030	9.6280	9.0080
4.99	2.6347	2.6072	2.3823	15.30	4.503	4.464	4.142	93.20	9.7070	9.6320	9.0120
5.00	2.6375	2.6100	2.3849	15.40	4.516	4.477	4.154	93.30	9.7120	9.6360	9.0160
5.01	2.6402	2.6127	2.3875	15.50	4.530	4.490	4.166	93.40	9.7160	9.6400	9.0190
5.02	2.6430	2.6155	2.3902	15.60	4.543	4.503	4.178	93.50	9.7200	9.6440	9.0230
5.03	2.6458	2.6183	2.3928	15.70	4.555	4.515	4.190	93.60	9.7240	9.6480	9.0270
5.04	2.6486	2.6210	2.3955	15.80	4.568	4.528	4.202	93.70	9.7280	9.6520	9.0310
5.05	2.6513	2.6238	2.3981	15.90	4.581	4.541	4.214	93.80	9.7320	9.6560	9.0350
5.06	2.6541	2.6265	2.4007	16.00	4.594	4.554	4.226	93.90	9.7360	9.6600	9.0390
5.07	2.6569	2.6293	2.4033	16.10	4.607	4.566	4.238	94.00	9.7400	9.6650	9.0430
5.08	2.6596	2.6320	2.4059	16.20	4.619	4.579	4.250	94.10	9.7440	9.6690	9.0470
5.09	2.6624	2.6347	2.4085	16.30	4.632	4.592	4.262	94.20	9.7480	9.6730	9.0510
5.10	2.6651	2.6375	2.4112	16.40	4.645	4.604	4.274	94.30	9.7520	9.6770	9.0550
5.11	2.6679	2.6402	2.4138	16.50	4.657	4.617	4.285	94.40	9.7560	9.6810	9.0580
5.12	2.6706	2.6429	2.4164	16.60	4.670	4.629	4.297	94.50	9.7600	9.6850	9.0620
5.13	2.6733	2.6457	2.4190	16.70	4.682	4.641	4.309	94.60	9.7640	9.6890	9.0660
5.14	2.6761	2.6484	2.4216	16.80	4.695	4.654	4.320	94.70	9.7690	9.6930	9.0700
5.15	2.6788	2.6511	2.4241	16.90	4.707	4.666	4.332	94.80	9.7730	9.6970	9.0740
5.16	2.6815	2.6538	2.4267	17.00	4.719	4.678	4.343	94.90	9.7770	9.7010	9.0780
5.17	2.6842	2.6565	2.4293	17.10	4.732	4.690	4.355	95.00	9.7810	9.7050	9.0820
5.18	2.6870	2.6592	2.4319	17.20	4.744	4.702	4.366	95.10	9.7850	9.7090	9.0860
5.19	2.6897	2.6619	2.4345	17.30	4.756	4.715	4.378	95.20	9.7890	9.7130	9.0890
5.20	2.6924	2.6646	2.4370	17.40	4.768	4.727	4.389	95.30	9.7930	9.7170	9.0930
5.21	2.6951	2.6673	2.4396	17.50	4.780	4.739	4.400	95.40	9.7970	9.7210	9.0970
5.22	2.6978	2.6700	2.4422	17.60	4.792	4.751	4.411	95.50	9.8010	9.7250	9.1010
5.23	2.7005	2.6727	2.4447	17.70	4.804	4.762	4.423	95.60	9.8050	9.7290	9.1050
5.24	2.7032	2.6753	2.4473	17.80	4.816	4.774	4.434	95.70	9.8090	9.7330	9.1090
5.25	2.7059	2.6780	2.4498	17.90	4.828	4.786	4.445	95.80	9.8130	9.7370	9.1120
5.26	2.7086	2.6807	2.4524	18.00	4.840	4.798	4.456	95.90	9.8170	9.7410	9.1160
5.27	2.7113	2.6833	2.4549	18.10	4.852	4.810	4.467	96.00	9.8210	9.7450	9.1200
5.28	2.7139	2.6860	2.4575	18.20	4.864	4.821	4.478	96.10	9.8250	9.7490	9.1240
5.29	2.7166	2.6887	2.4600	18.30	4.876	4.833	4.489	96.20	9.8290	9.7530	9.1280
5.30	2.7193	2.6913	2.4626	18.40	4.887	4.845	4.500	96.30	9.8330	9.7570	9.1320
5.31	2.7220	2.6940	2.4651	18.50	4.899	4.856	4.511	96.40	9.8370	9.7610	9.1350
5.32	2.7246	2.6966	2.4676	18.60	4.911	4.868	4.522	96.50	9.8410	9.7650	9.1390
5.33	2.7273	2.6993	2.4701	18.70	4.922	4.879	4.533	96.60	9.8450	9.7690	9.1430
5.34	2.7299	2.7019	2.4727	18.80	4.934	4.891	4.543	96.70	9.8490	9.7730	9.1470
5.35	2.7326	2.7046	2.4752	18.90	4.945	4.902	4.554	96.80	9.8530	9.7770	9.1510
5.36	2.7352	2.7072	2.4777	19.00	4.957	4.914	4.565	96.90	9.8570	9.7810	9.1540
5.37	2.7379	2.7098	2.4802	19.10	4.968	4.925	4.576	97.00	9.8610	9.7850	9.1580

三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z
5.38	2.7405	2.7125	2.4827	19.20	4.980	4.937	4.586	97.10	9.8650	9.7890	9.1620
5.39	2.7432	2.7151	2.4852	19.30	4.991	4.948	4.597	97.20	9.8690	9.7930	9.1660
5.40	2.7458	2.7177	2.4877	19.40	5.002	4.959	4.607	97.30	9.8730	9.7960	9.1700
5.41	2.7485	2.7203	2.4902	19.50	5.014	4.970	4.618	97.40	9.8770	9.8000	9.1730
5.42	2.7511	2.7230	2.4927	19.60	5.025	4.981	4.628	97.50	9.8810	9.8040	9.1770
5.43	2.7537	2.7256	2.4952	19.70	5.036	4.993	4.639	97.60	9.8850	9.8080	9.1810
5.44	2.7563	2.7282	2.4977	19.80	5.047	5.004	4.649	97.70	9.8880	9.8120	9.1850
5.45	2.7590	2.7308	2.5002	19.90	5.059	5.015	4.660	97.80	9.8920	9.8160	9.1890
5.46	2.7616	2.7334	2.5027	20.00	5.070	5.026	4.670	97.90	9.8960	9.8200	9.1920
5.47	2.7642	2.7360	2.5052	20.10	5.081	5.037	4.680	98.00	9.9000	9.8240	9.1960
5.48	2.7668	2.7386	2.5076	20.20	5.092	5.048	4.691	98.10	9.9040	9.8280	9.2000
5.49	2.7694	2.7412	2.5101	20.30	5.103	5.059	4.701	98.20	9.9080	9.8320	9.2040
5.50	2.7720	2.7438	2.5126	20.40	5.114	5.070	4.711	98.30	9.9120	9.8360	9.2070
5.51	2.7746	2.7463	2.5150	20.50	5.125	5.081	4.722	98.40	9.9160	9.8400	9.2110
5.52	2.7772	2.7489	2.5175	20.60	5.136	5.092	4.732	98.50	9.9200	9.8410	9.2150
5.53	2.7798	2.7515	2.5200	20.70	5.147	5.102	4.742	98.60	9.9240	9.8450	9.2190
5.54	2.7824	2.7541	2.5224	20.80	5.158	5.113	4.752	98.70	9.9280	9.8510	9.2230
5.55	2.7850	2.7567	2.5249	20.90	5.168	5.124	4.762	98.80	9.9320	9.8550	9.2260
5.56	2.7876	2.7592	2.5273	21.00	5.179	5.135	4.772	98.90	9.9360	9.8590	9.2300
5.57	2.7901	2.7618	2.5298	21.10	5.190	5.145	4.782	99.00	9.9400	9.8630	9.2340
5.58	2.7927	2.7644	2.5322	21.20	5.201	5.156	4.792	99.10	9.9430	9.8670	9.2380
5.59	2.7953	2.7669	2.5347	21.30	5.212	5.167	4.802	99.20	9.9470	9.8710	9.2410
5.60	2.7979	2.7695	2.5371	21.40	5.222	5.177	4.812	99.30	9.9510	9.8750	9.2450
5.61	2.8004	2.7720	2.5395	21.50	5.233	5.188	4.822	99.40	9.9550	9.8790	9.2490
5.62	2.8030	2.7746	2.5420	21.60	5.244	5.198	4.832	99.50	9.9590	9.8830	9.2520
5.63	2.8056	2.7771	2.5444	21.70	5.254	5.209	4.842	99.60	9.9630	9.8860	9.2560
5.64	2.8081	2.7797	2.5468	21.80	5.265	5.219	4.852	99.70	9.9670	9.8900	9.2600
5.65	2.8107	2.7822	2.5492	21.90	5.275	5.230	4.861	99.80	9.9710	9.8940	9.2640
5.66	2.8132	2.7847	2.5517	22.00	5.286	5.240	4.871	99.90	9.9750	9.8980	9.2670
5.67	2.8158	2.7873	2.5541	22.10	5.296	5.251	4.881	100.00	9.9780	9.9020	9.2710
5.68	2.8183	2.7898	2.5565	22.20	5.307	5.261	4.891	100.10	9.9820	9.9060	9.2750
5.69	2.8209	2.7923	2.5589	22.30	5.317	5.271	4.900	100.20	9.9860	9.9100	9.2790
5.70	2.8234	2.7948	2.5613	22.40	5.327	5.282	4.910	100.30	9.9900	9.9130	9.2820
5.71	2.8259	2.7974	2.5637	22.50	5.338	5.292	4.920	100.40	9.9940	9.9170	9.2860
5.72	2.8285	2.7999	2.5661	22.60	5.348	5.302	4.930	100.50	9.9980	9.9210	9.2900
5.73	2.8310	2.8024	2.5685	22.70	5.358	5.312	4.939	100.60	.0000	9.9250	9.2930
5.74	2.8335	2.8049	2.5709	22.80	5.369	5.323	4.949	100.70	.0000	9.9290	9.2970
5.75	2.8360	2.8074	2.5733	22.90	5.379	5.333	4.959	100.80	.0000	9.9330	9.3010
5.76	2.8386	2.8099	2.5757	23.00	5.389	5.343	4.967	100.90	.0000	9.9360	9.3040
5.77	2.8411	2.8124	2.5781	23.10	5.399	5.353	4.977	101.00	.0000	9.9400	9.3080
5.78	2.8436	2.8149	2.5804	23.20	5.410	5.363	4.986	101.10	.0000	9.9440	9.3120
5.79	2.8461	2.8174	2.5828	23.30	5.420	5.373	4.996	101.20	.0000	9.9480	9.3160
5.80	2.8486	2.8199	2.5852	23.40	5.430	5.383	5.005	101.30	.0000	9.9520	9.3190
5.81	2.8511	2.8224	2.5876	23.50	5.440	5.393	5.015	101.40	.0000	9.9560	9.3230
5.82	2.8536	2.8249	2.5899	23.60	5.450	5.403	5.024	101.50	.0000	9.9590	9.3270
5.83	2.8561	2.8274	2.5923	23.70	5.460	5.413	5.033	101.60	.0000	9.9630	9.3300
5.84	2.8586	2.8299	2.5947	23.80	5.470	5.423	5.043	101.70	.0000	9.9670	9.3340
5.85	2.8611	2.8323	2.5970	23.90	5.480	5.433	5.052	101.80	.0000	9.9710	9.3380
5.86	2.8636	2.8348	2.5994	24.00	5.490	5.443	5.061	101.90	.0000	9.9750	9.3410
5.87	2.8661	2.8373	2.6018	24.10	5.500	5.453	5.070	102.00	.0000	9.9780	9.3450
5.88	2.8686	2.8398	2.6041	24.20	5.510	5.463	5.080	102.10	.0000	9.9820	9.3490
5.89	2.8710	2.8422	2.6065	24.30	5.520	5.473	5.089	102.20	.0000	9.9860	9.3520
5.90	2.8735	2.8447	2.6088	24.40	5.530	5.482	5.098	102.30	.0000	9.9900	9.3560
5.91	2.8760	2.8471	2.6112	24.50	5.539	5.492	5.107	102.40	.0000	9.9940	9.3600

三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z
5.92	2.8785	2.8496	2.6135	24.60	5.549	5.502	5.116	102.50	.0000	9.9970	9.3630
5.93	2.8809	2.8521	2.6158	24.70	5.559	5.511	5.125	102.60	.0000	.0000	9.3670
5.94	2.8834	2.8545	2.6182	24.80	5.568	5.521	5.135	102.70	.0000	.0000	9.3700
5.95	2.8859	2.8570	2.6205	24.90	5.578	5.531	5.144	102.80	.0000	.0000	9.3740
5.96	2.8883	2.8594	2.6228	25.00	5.588	5.540	5.153	102.90	.0000	.0000	9.3780
5.97	2.8908	2.8618	2.6252	25.10	5.598	5.550	5.162	103.00	.0000	.0000	9.3810
5.98	2.8932	2.8643	2.6275	25.20	5.607	5.560	5.171	103.10	.0000	.0000	9.3850
5.99	2.8957	2.8667	2.6298	25.30	5.617	5.569	5.180	103.20	.0000	.0000	9.3890
6.00	2.8981	2.8692	2.6321	25.40	5.627	5.579	5.189	103.30	.0000	.0000	9.3920
6.01	2.9006	2.8716	2.6344	25.50	5.636	5.588	5.197	103.40	.0000	.0000	9.3960
6.02	2.9030	2.8740	2.6368	25.60	5.646	5.598	5.206	103.50	.0000	.0000	9.4000
6.03	2.9055	2.8764	2.6391	25.70	5.656	5.607	5.215	103.60	.0000	.0000	9.4030
6.04	2.9079	2.8789	2.6414	25.80	5.665	5.617	5.224	103.70	.0000	.0000	9.4070
6.05	2.9103	2.8813	2.6437	25.90	5.675	5.626	5.233	103.80	.0000	.0000	9.4100
6.06	2.9128	2.8837	2.6460	26.00	5.684	5.636	5.242	103.90	.0000	.0000	9.4140
6.07	2.9152	2.8861	2.6483	26.10	5.694	5.645	5.251	104.00	.0000	.0000	9.4180
6.08	2.9176	2.8885	2.6505	26.20	5.703	5.654	5.259	104.10	.0000	.0000	9.4210
6.09	2.9200	2.8909	2.6529	26.30	5.712	5.664	5.268	104.20	.0000	.0000	9.4250
6.10	2.9225	2.8933	2.6552	26.40	5.722	5.673	5.277	104.30	.0000	.0000	9.4280
6.11	2.9249	2.8957	2.6575	26.50	5.731	5.682	5.286	104.40	.0000	.0000	9.4320
6.12	2.9273	2.8981	2.6598	26.60	5.741	5.692	5.294	104.50	.0000	.0000	9.4360
6.13	2.9297	2.9005	2.6620	26.70	5.750	5.701	5.303	104.60	.0000	.0000	9.4390
6.14	2.9321	2.9029	2.6643	26.80	5.759	5.710	5.312	104.70	.0000	.0000	9.4430
6.15	2.9345	2.9053	2.6666	26.90	5.769	5.719	5.320	104.80	.0000	.0000	9.4460
6.16	2.9369	2.9077	2.6689	27.00	5.778	5.728	5.329	104.90	.0000	.0000	9.4500
6.17	2.9393	2.9101	2.6711	27.10	5.787	5.738	5.337	105.00	.0000	.0000	9.4540
6.18	2.9417	2.9125	2.6734	27.20	5.796	5.747	5.346	105.10	.0000	.0000	9.4570
6.19	2.9441	2.9149	2.6757	27.30	5.805	5.756	5.355	105.20	.0000	.0000	9.4610
6.20	2.9465	2.9173	2.6780	27.40	5.815	5.765	5.363	105.30	.0000	.0000	9.4640
6.21	2.9489	2.9196	2.6802	27.50	5.824	5.774	5.372	105.40	.0000	.0000	9.4680
6.22	2.9513	2.9220	2.6825	27.60	5.833	5.783	5.380	105.50	.0000	.0000	9.4710
6.23	2.9537	2.9244	2.6847	27.70	5.842	5.792	5.389	105.60	.0000	.0000	9.4750
6.24	2.9561	2.9267	2.6870	27.80	5.851	5.801	5.397	105.70	.0000	.0000	9.4790
6.25	2.9584	2.9291	2.6892	27.90	5.860	5.810	5.406	105.80	.0000	.0000	9.4820
6.26	2.9608	2.9315	2.6915	28.00	5.869	5.819	5.414	105.90	.0000	.0000	9.4860
6.27	2.9632	2.9338	2.6937	28.10	5.878	5.828	5.422	106.00	.0000	.0000	9.4890
6.28	2.9656	2.9362	2.6960	28.20	5.887	5.837	5.431	106.10	.0000	.0000	9.4930
6.29	2.9679	2.9385	2.6982	28.30	5.896	5.846	5.439	106.20	.0000	.0000	9.4960
6.30	2.9703	2.9409	2.7005	28.40	5.903	5.855	5.448	106.30	.0000	.0000	9.5000
6.31	2.9727	2.9432	2.7027	28.50	5.914	5.864	5.456	106.40	.0000	.0000	9.5040
6.32	2.9750	2.9456	2.7049	28.60	5.923	5.873	5.464	106.50	.0000	.0000	9.5070
6.33	2.9774	2.9479	2.7072	28.70	5.932	5.882	5.473	106.60	.0000	.0000	9.5110
6.34	2.9797	2.9503	2.7094	28.80	5.941	5.891	5.481	106.70	.0000	.0000	9.5140
6.35	2.9821	2.9526	2.7116	28.90	5.950	5.900	5.489	106.80	.0000	.0000	9.5180
6.36	2.9845	2.9549	2.7139	29.00	5.959	5.908	5.497	106.90	.0000	.0000	9.5210
6.37	2.9868	2.9573	2.7161	29.10	5.968	5.917	5.506	107.00	.0000	.0000	9.5250
6.38	2.9891	2.9596	2.7183	29.20	5.977	5.926	5.514	107.10	.0000	.0000	9.5280
6.39	2.9915	2.9619	2.7205	29.30	5.986	5.935	5.522	107.20	.0000	.0000	9.5320
6.40	2.9938	2.9643	2.7227	29.40	5.994	5.943	5.530	107.30	.0000	.0000	9.5350
6.41	2.9962	2.9666	2.7249	29.50	6.003	5.952	5.538	107.40	.0000	.0000	9.5390
6.42	2.9985	2.9689	2.7272	29.60	6.012	5.961	5.546	107.50	.0000	.0000	9.5420
6.43	3.0008	2.9712	2.7294	29.70	6.021	5.969	5.555	107.60	.0000	.0000	9.5460
6.44	3.0031	2.9735	2.7316	29.80	6.029	5.978	5.563	107.70	.0000	.0000	9.5490
6.45	3.0055	2.9759	2.7338	29.90	6.038	5.987	5.571	107.80	.0000	.0000	9.5530

三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z
6.46	3.0078	2.9782	2.7360	30.00	6.047	5.995	5.579	107.90	.0000	.0000	9.5560
6.47	3.0101	2.9805	2.7382	30.10	6.056	6.004	5.587	108.00	.0000	.0000	9.5600
6.48	3.0124	2.9828	2.7404	30.20	6.064	6.013	5.595	108.10	.0000	.0000	9.5630
6.49	3.0148	2.9851	2.7426	30.30	6.073	6.021	5.603	108.20	.0000	.0000	9.5670
6.50	3.0171	2.9874	2.7447	30.40	6.081	6.030	5.611	108.30	.0000	.0000	9.5700
6.51	3.0194	2.9897	2.7469	30.50	6.090	6.038	5.619	108.40	.0000	.0000	9.5740
6.52	3.0217	2.9920	2.7491	30.60	6.099	6.047	5.627	108.50	.0000	.0000	9.5770
6.53	3.0240	2.9943	2.7513	30.70	6.107	6.055	5.635	108.60	.0000	.0000	9.5810
6.54	3.0263	2.9966	2.7535	30.80	6.116	6.064	5.643	108.70	.0000	.0000	9.5840
6.55	3.0286	2.9989	2.7557	30.90	6.124	6.072	5.651	108.80	.0000	.0000	9.5880
6.56	3.0309	3.0012	2.7578	31.00	6.133	6.081	5.659	108.90	.0000	.0000	9.5910
6.57	3.0332	3.0034	2.7600	31.10	6.141	6.089	5.667	109.00	.0000	.0000	9.5950
6.58	3.0355	3.0057	2.7622	31.20	6.150	6.098	5.675	109.10	.0000	.0000	9.5980
6.59	3.0378	3.0080	2.7644	31.30	6.158	6.106	5.683	109.20	.0000	.0000	9.6020
6.60	3.0401	3.0103	2.7665	31.40	6.167	6.114	5.690	109.30	.0000	.0000	9.6050
6.61	3.0424	3.0125	2.7687	31.50	6.175	6.123	5.698	109.40	.0000	.0000	9.6090
6.62	3.0447	3.0148	2.7709	31.60	6.184	6.131	5.706	109.50	.0000	.0000	9.6120
6.63	3.0469	3.0171	2.7730	31.70	6.192	6.140	5.714	109.60	.0000	.0000	9.6160
6.64	3.0492	3.0194	2.7752	31.80	6.201	6.148	5.722	109.70	.0000	.0000	9.6190
6.65	3.0515	3.0216	2.7773	31.90	6.209	6.156	5.729	109.80	.0000	.0000	9.6230
6.66	3.0538	3.0239	2.7795	32.00	6.217	6.165	5.737	109.90	.0000	.0000	9.6260
6.67	3.0561	3.0261	2.7816	32.10	6.226	6.173	5.745	110.00	.0000	.0000	9.6300
6.68	3.0583	3.0284	2.7838	32.20	6.234	6.181	5.753	110.10	.0000	.0000	9.6330
6.69	3.0606	3.0307	2.7859	32.30	6.242	6.189	5.760	110.20	.0000	.0000	9.6360
6.70	3.0629	3.0329	2.7881	32.40	6.251	6.198	5.768	110.30	.0000	.0000	9.6400
6.71	3.0651	3.0352	2.7902	32.50	6.259	6.206	5.776	110.40	.0000	.0000	9.6430
6.72	3.0674	3.0374	2.7923	32.60	6.267	6.214	5.784	110.50	.0000	.0000	9.6470
6.73	3.0697	3.0397	2.7945	32.70	6.275	6.222	5.791	110.60	.0000	.0000	9.6500
6.74	3.0719	3.0419	2.7966	32.80	6.284	6.230	5.799	110.70	.0000	.0000	9.6540
6.75	3.0742	3.0441	2.7988	32.90	6.292	6.239	5.807	110.80	.0000	.0000	9.6570
6.76	3.0764	3.0484	2.8009	33.00	6.300	6.247	5.814	110.90	.0000	.0000	9.6610
6.77	3.0787	3.0486	2.8030	33.10	6.308	6.255	5.822	111.00	.0000	.0000	9.6640
6.78	3.0809	3.0509	2.8051	33.20	6.316	6.263	5.829	111.10	.0000	.0000	9.6670
6.79	3.0832	3.0531	2.8073	33.30	6.325	6.271	5.837	111.20	.0000	.0000	9.6710
6.80	3.0854	3.0533	2.8094	33.40	6.333	6.279	5.845	111.30	.0000	.0000	9.6740
6.81	3.0876	3.0575	2.8115	33.50	6.341	6.287	5.852	111.40	.0000	.0000	9.6780
6.82	3.0899	3.0598	2.8136	33.60	6.349	6.295	5.860	111.50	.0000	.0000	9.6810
6.83	3.0921	3.0620	2.8157	33.70	6.357	6.303	5.867	111.60	.0000	.0000	9.6850
6.84	3.0944	3.0642	2.8179	33.80	6.365	6.311	5.875	111.70	.0000	.0000	9.6880
6.85	3.0969	3.0664	2.8200	33.90	6.373	6.319	5.882	111.80	.0000	.0000	9.6910
6.86	3.0988	3.0686	2.8221	34.00	6.381	6.327	5.890	111.90	.0000	.0000	9.6950
6.87	3.1010	3.0709	2.8242	34.10	6.389	6.335	5.897	112.00	.0000	.0000	9.6980
6.88	3.1033	3.0731	2.8263	34.20	6.397	6.343	5.905	112.10	.0000	.0000	9.7020
6.89	3.1055	3.0753	2.8284	34.30	6.405	6.351	5.912	112.20	.0000	.0000	9.7050
6.90	3.1077	3.0775	2.8305	34.40	6.413	6.359	5.920	112.30	.0000	.0000	9.7080
6.91	3.1099	3.0797	2.8326	34.50	6.421	6.367	5.927	112.40	.0000	.0000	9.7120
6.92	3.1122	3.0819	2.8347	34.60	6.429	6.375	5.934	112.50	.0000	.0000	9.7150
6.93	3.1144	3.0841	2.8368	34.70	6.437	6.383	5.942	112.60	.0000	.0000	9.7190
6.94	3.1166	3.0863	2.8389	34.80	6.445	6.391	5.949	112.70	.0000	.0000	9.7220
6.95	3.1188	3.0885	2.8409	34.90	6.453	6.399	5.957	112.80	.0000	.0000	9.7250
6.96	3.1210	3.0907	2.8430	35.00	6.461	6.407	5.964	112.90	.0000	.0000	9.7290
6.97	3.1232	3.0929	2.8451	35.10	6.469	6.414	5.971	113.00	.0000	.0000	9.7320
6.98	3.1254	3.0951	2.8472	35.20	6.477	6.422	5.979	113.10	.0000	.0000	9.7360
6.99	3.1276	3.0973	2.8493	35.30	6.485	6.430	5.986	113.20	.0000	.0000	9.7390

三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z
7.00	3.1298	3.0994	2.8514	35.40	6.493	6.438	5.993	113.30	.0000	.0000	9.7420
7.01	3.1320	3.1016	2.8534	35.50	6.501	6.446	6.001	113.40	.0000	.0000	9.7460
7.02	3.1342	3.1038	2.8555	35.60	6.508	6.453	6.008	113.50	.0000	.0000	9.7490
7.03	3.1364	3.1061	2.8576	35.70	6.516	6.461	6.015	113.60	.0000	.0000	9.7520
7.04	3.1386	3.1082	2.8597	35.80	6.524	6.469	6.022	113.70	.0000	.0000	9.7560
7.05	3.1408	3.1103	2.8617	35.90	6.532	6.477	6.030	113.80	.0000	.0000	9.7590
7.06	3.1430	3.1125	2.8638	36.00	6.540	6.484	6.037	113.90	.0000	.0000	9.7630
7.07	3.1451	3.1147	2.8659	36.10	6.547	6.492	6.044	114.00	.0000	.0000	9.7660
7.08	3.1473	3.1169	2.8679	36.20	6.555	6.500	6.051	114.10	.0000	.0000	9.7690
7.09	3.1495	3.1190	2.8700	36.30	6.563	6.508	6.058	114.20	.0000	.0000	9.7730
7.10	3.1517	3.1212	2.8720	36.40	6.571	6.515	6.066	114.30	.0000	.0000	9.7760
7.11	3.1539	3.1233	2.8741	36.50	6.576	6.523	6.073	114.40	.0000	.0000	9.7790
7.12	3.1560	3.1255	2.8761	36.60	6.586	6.531	6.080	114.50	.0000	.0000	9.7830
7.13	3.1582	3.1277	2.8782	36.70	6.594	6.538	6.087	114.60	.0000	.0000	9.7860
7.14	3.1604	3.1298	2.8802	36.80	6.601	6.546	6.094	114.70	.0000	.0000	9.7890
7.15	3.1625	3.1320	2.8823	36.90	6.609	6.553	6.101	114.80	.0000	.0000	9.7930
7.16	3.1647	3.1341	2.8843	37.00	6.617	6.561	6.109	114.90	.0000	.0000	9.7960
7.17	3.1669	3.1363	2.8864	37.10	6.624	6.569	6.116	115.00	.0000	.0000	9.7990
7.18	3.1690	3.1384	2.8884	37.20	6.632	6.576	6.123	115.10	.0000	.0000	9.8030
7.19	3.1712	3.1406	2.8905	37.30	6.640	6.584	6.130	115.20	.0000	.0000	9.8060
7.20	3.1733	3.1427	2.8925	37.40	6.647	6.591	6.137	115.30	.0000	.0000	9.8090
7.21	3.1755	3.1449	2.8945	37.50	6.655	6.599	6.144	115.40	.0000	.0000	9.8130
7.22	3.1777	3.1470	2.8966	37.60	6.662	6.606	6.151	115.50	.0000	.0000	9.8160
7.23	3.1798	3.1491	2.8986	37.70	6.670	6.614	6.158	115.60	.0000	.0000	9.8190
7.24	3.1819	3.1513	2.9006	37.80	6.678	6.621	6.165	115.70	.0000	.0000	9.8230
7.25	3.1841	3.1534	2.9027	37.90	6.685	6.629	6.172	115.80	.0000	.0000	9.8260
7.26	3.1862	3.1555	2.9047	38.00	6.693	6.636	6.179	115.90	.0000	.0000	9.8290
7.27	3.1884	3.1577	2.9067	38.10	6.700	6.644	6.186	116.00	.0000	.0000	9.8330
7.28	3.1905	3.1598	2.9087	38.20	6.708	6.651	6.193	116.10	.0000	.0000	9.8360
7.29	3.1927	3.1619	2.9108	38.30	6.715	6.659	6.200	116.20	.0000	.0000	9.8390
7.30	3.1948	3.1640	2.9128	38.40	6.723	6.666	6.207	116.30	.0000	.0000	9.8430
7.31	3.1969	3.1662	2.9148	38.50	6.730	6.673	6.214	116.40	.0000	.0000	9.8460
7.32	3.1991	3.1683	2.9168	38.60	6.738	6.681	6.221	116.50	.0000	.0000	9.8490
7.33	3.2012	3.1704	2.9183	38.70	6.745	6.688	6.228	116.60	.0000	.0000	9.8530
7.34	3.2033	3.1725	2.9208	38.80	6.753	6.696	6.235	116.70	.0000	.0000	9.8560
7.35	3.2055	3.1746	2.9228	38.90	6.760	6.703	6.242	116.80	.0000	.0000	9.8590
7.36	3.2076	3.1767	2.9248	39.00	6.767	6.710	6.249	116.90	.0000	.0000	9.8620
7.37	3.2097	3.1788	2.9269	39.10	6.775	6.718	6.255	117.00	.0000	.0000	9.8660
7.38	3.2118	3.1810	2.9289	39.20	6.782	6.725	6.262	117.10	.0000	.0000	9.8690
7.39	3.2139	3.1831	2.9309	39.30	6.790	6.732	6.269	117.20	.0000	.0000	9.8720
7.40	3.2161	3.1852	2.9329	39.40	6.797	6.740	6.276	117.30	.0000	.0000	9.8760
7.41	3.2182	3.1873	2.9349	39.50	6.804	6.747	6.283	117.40	.0000	.0000	9.8790
7.42	3.2203	3.1894	2.9368	39.60	6.812	6.754	6.290	117.50	.0000	.0000	9.8820
7.43	3.2224	3.1915	2.9388	39.70	6.819	6.762	6.297	117.60	.0000	.0000	9.8850
7.44	3.2245	3.1936	2.9408	39.80	6.826	6.769	6.303	117.70	.0000	.0000	9.8890
7.45	3.2266	3.1956	2.9428	39.90	6.834	6.776	6.310	117.80	.0000	.0000	9.8920
7.46	3.2287	3.1977	2.9448	40.00	6.841	6.783	6.317	117.90	.0000	.0000	9.8950
7.47	3.2308	3.1998	2.9468	40.10	6.848	6.791	6.324	118.00	.0000	.0000	9.8990
7.48	3.2329	3.2019	2.9488	40.20	6.855	6.798	6.330	118.10	.0000	.0000	9.9020
7.49	3.2350	3.2040	2.9508	40.30	6.863	6.805	6.337	118.20	.0000	.0000	9.9050
7.50	3.2371	3.2061	2.9527	40.40	6.870	6.812	6.344	118.30	.0000	.0000	9.9080
7.51	3.2392	3.2082	2.9547	40.50	6.877	6.819	6.351	118.40	.0000	.0000	9.9120
7.52	3.2413	3.2103	2.9567	40.60	6.884	6.827	6.357	118.50	.0000	.0000	9.9150
7.53	3.2434	3.2123	2.9587	40.70	6.892	6.834	6.364	118.60	.0000	.0000	9.9180

三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z	三色激值	V _x	V _y	V _z
7.54	3.2455	3.2144	2.9606	40.80	6.899	6.841	6.371	118.70	.0000	.0000	9.9210
7.55	3.2476	3.2165	2.9626	40.90	6.906	6.848	6.378	118.80	.0000	.0000	9.9250
7.56	3.2497	3.2186	2.9646	41.00	6.913	6.855	6.384	118.90	.0000	.0000	9.9280
7.57	3.2517	3.2206	2.9666	41.10	6.920	6.862	6.391	119.00	.0000	.0000	9.9310
7.58	3.2538	3.2227	2.9685	41.20	6.928	6.869	6.398	119.10	.0000	.0000	9.9340
7.59	3.2559	3.2248	2.9705	41.30	6.935	6.877	6.404	119.20	.0000	.0000	9.9380
7.60	3.2580	3.2268	2.9724	41.40	6.942	6.884	6.411	119.30	.0000	.0000	9.9410
7.61	3.2601	3.2289	2.9744	41.50	6.949	6.891	6.418	119.40	.0000	.0000	9.9440
7.62	3.2621	3.2310	2.9764	41.60	6.956	6.898	6.424	119.50	.0000	.0000	9.9470
7.63	3.2642	3.2330	2.9783	41.70	6.963	6.905	6.431	119.60	.0000	.0000	9.9510
7.64	3.2663	3.2351	2.9803	41.80	6.970	6.912	6.437	119.70	.0000	.0000	9.9540
7.65	3.2683	3.2371	2.9822	41.90	6.977	6.919	6.444	119.80	.0000	.0000	9.9570
7.66	3.2704	3.2392	2.9842	42.00	6.985	6.926	6.451	119.90	.0000	.0000	9.9600
7.67	3.2725	3.2412	2.9861	42.10	6.992	6.933	6.457	120.00	.0000	.0000	9.9640
7.68	3.2745	3.2433	2.9881	42.20	6.999	6.940	6.464	120.10	.0000	.0000	9.9670
7.69	3.2766	3.2453	2.9900	42.30	7.006	6.947	6.470	120.20	.0000	.0000	9.9700
7.70	3.2787	3.2474	2.9920	42.40	7.013	6.954	6.477	120.30	.0000	.0000	9.9730
7.71	3.2807	3.2494	2.9939	42.50	7.020	6.961	6.483	120.40	.0000	.0000	9.9760
7.72	3.2828	3.2515	2.9958	42.60	7.027	6.968	6.490	120.50	.0000	.0000	9.9800
7.73	3.2848	3.2535	2.9978	42.70	7.034	6.975	6.496	120.60	.0000	.0000	9.9830
7.74	3.2869	3.2555	2.9997	42.80	7.041	6.982	6.503	120.70	.0000	.0000	9.9860
7.75	3.2889	3.2576	3.0017	42.90	7.048	6.989	6.509	120.80	.0000	.0000	9.9890
7.76	3.2910	3.2596	3.0036	43.00	7.055	6.996	6.516	120.90	.0000	.0000	9.9930
7.77	3.2930	3.2617	3.0055	43.10	7.062	7.003	6.522	121.00	.0000	.0000	9.9960
7.78	3.2951	3.2637	3.0075	43.20	7.069	7.009	6.529	121.10	.0000	.0000	9.9990