

燈具配光曲線試驗報告

測試標準：CIE 70(1987 年版)、CIE 84(1989 年版)

收件日期：105 年 02 月 17 日

測試日期：105 年 02 月 23 日 至 105 年 02 月 25 日

1. 報告發行日期：105 年 02 月 26 日
2. 報告編號：16021704
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報告簽署人：


報告簽署人
黃錫偉

試驗報告

測試樣品基本資料表

委測廠商：昶旭能源股份有限公司
委測廠商地址：新竹市東區公道五路二段 83 號 5F-3
製造廠商：昶旭能源股份有限公司
製造廠商地址：新竹市東區公道五路二段 83 號 5F-3
廠牌/商標：CooLED
產品名稱：25W 光引擎投射燈(40 度)
燈具型號：LE025N-40A
驅動器廠牌/型號：方晨/KPN-25WY-42V-630
光源廠牌/型號/色溫：宏齊/HT-CTP5NTAJ/4000K
額定電壓：AC100-240V
額定頻率：50/60Hz
額定消耗功率：25W
測試電壓：AC220V/60Hz

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試驗內容

試驗條件

環境溫度 (°C)	25.6
環境濕度 (% RH)	56.4

電氣量測

試驗項目	試驗結果
電壓 (V)	220.0
頻率 (Hz)	60
電流 (A)	0.121
功率 (W)	24.7
功率因數	0.928

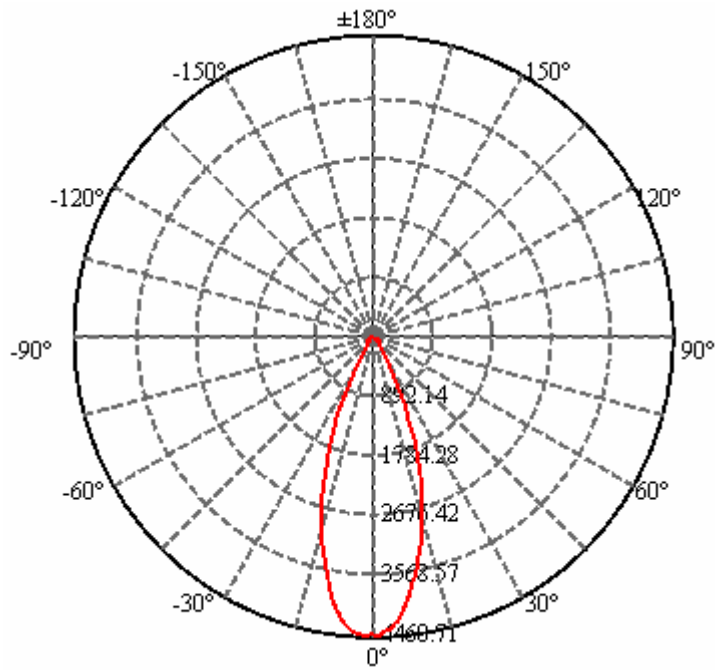
配光量測

試驗項目	試驗結果
燈具全光通量 (lm)	2108.6
燈具發光效率 (lm/W)	85.4
中心光強度 (cd)	4434.3
最大光強度 (cd)	4460.7
最大光強度角度 (°)	C : 245.0 γ : 3.0
半峰邊角 (50% I _{max})	C0_180 Left=19.4 Right=18.2
	C90_270 Left=19.7 Right=17.8
色溫(K)	3783
色座標	x : 0.3897 y : 0.3801
演色性(Ra)	93.2

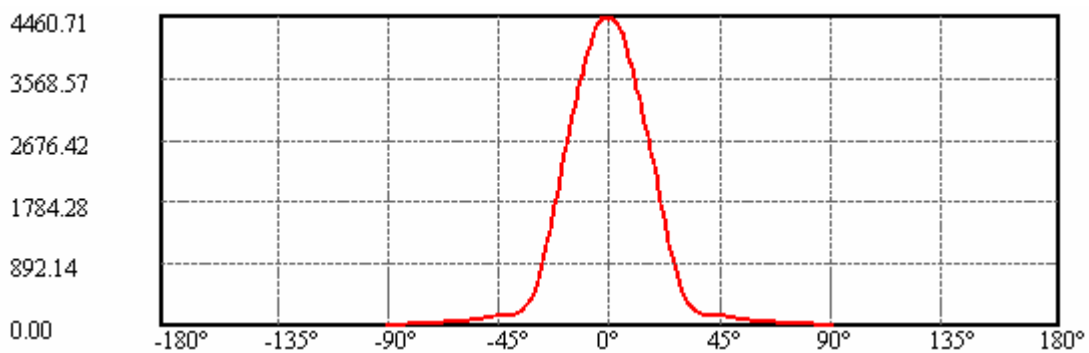
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配光曲線圖(一)

極座標圖 C0 / 180



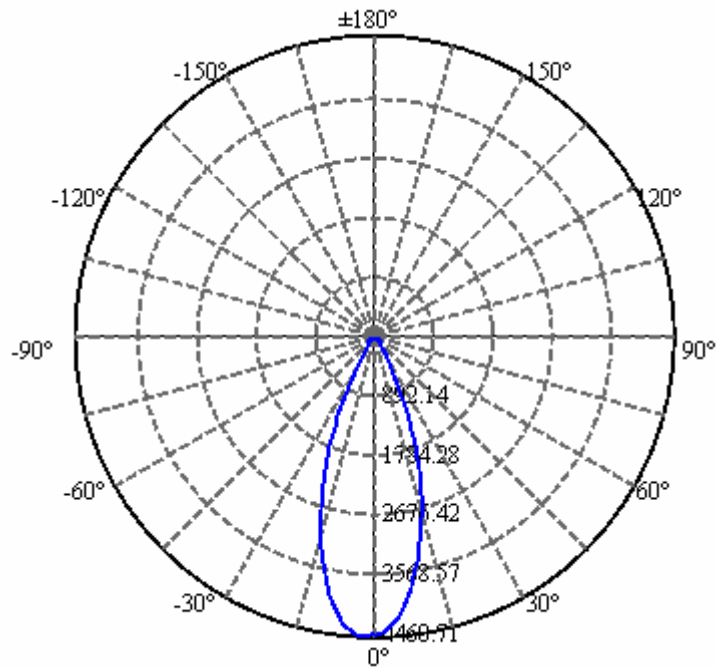
直角座標圖 C0 / 180



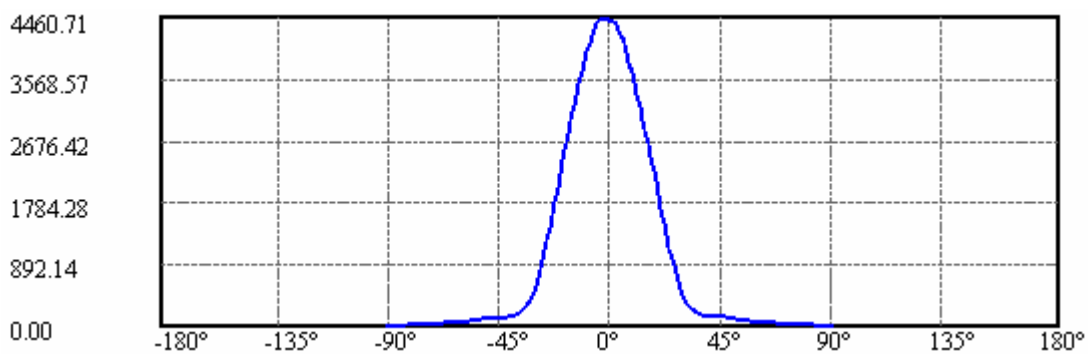
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配光曲線圖(二)

極座標圖 C90 / 270

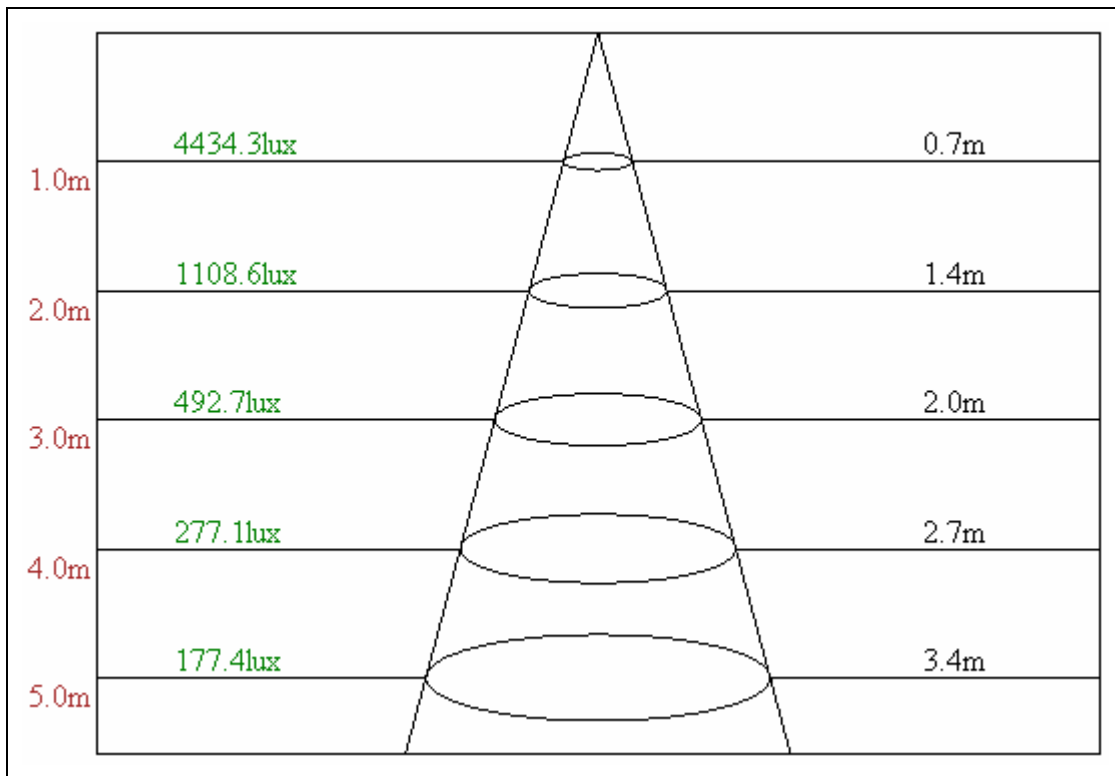


直角座標圖 C90 / 270



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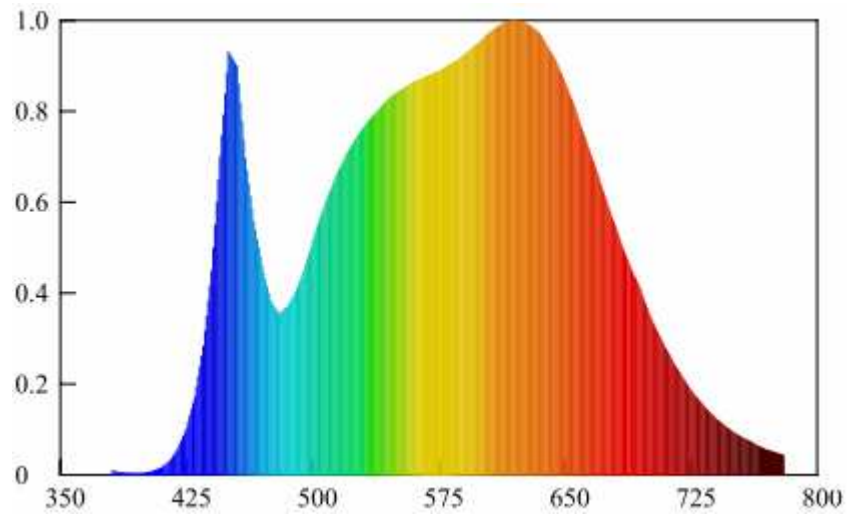
照度距離表



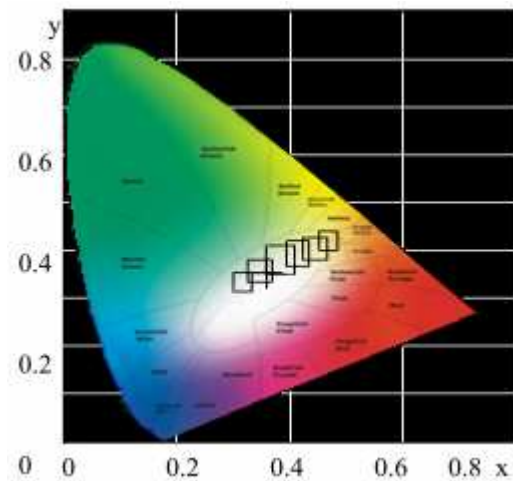
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測試結果

光譜分布圖



色座標



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測試樣品照片

測試樣品外觀

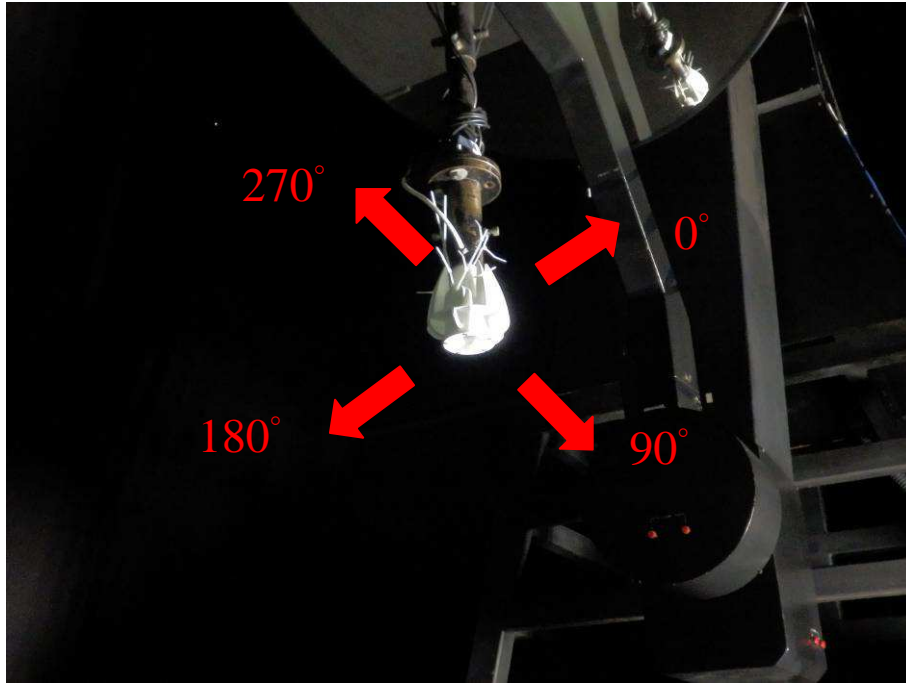


測試樣品外觀



測試樣品照片

測試樣品架設方向



光強數據表(一)

光強數據表(cd)

$\gamma/(\text{C}^\circ)$	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0
0	4434.316	4437.033	4433.152	4433.929	4430.436	4432.376	4431.988	4433.541
1	4421.51	4418.793	4415.3	4416.853	4412.583	4410.255	4408.314	4407.539
2	4386.97	4383.865	4381.537	4378.432	4379.984	4375.715	4375.327	4367.565
3	4342.339	4338.458	4334.189	4324.099	4323.323	4318.278	4313.621	4312.844
4	4281.409	4275.588	4268.214	4264.721	4258.124	4253.855	4248.421	4241.436
5	4206.896	4197.582	4190.208	4176.625	4173.908	4161.489	4154.892	4151.011
6	4102.111	4090.081	4081.543	4073.781	4065.243	4061.75	4057.093	4053.989
7	3984.908	3977.923	3968.221	3954.249	3947.652	3939.114	3933.68	3931.352
8	3853.734	3844.42	3834.33	3825.792	3819.582	3812.208	3807.551	3802.506
9	3716.738	3706.648	3691.512	3683.363	3674.437	3668.227	3663.57	3656.972
10	3573.145	3559.173	3549.471	3540.157	3533.172	3526.186	3516.096	3511.827
11	3414.804	3400.833	3390.354	3382.981	3377.159	3369.398	3363.576	3360.083
12	3261.12	3246.761	3233.566	3226.581	3218.431	3209.893	3204.459	3195.145
13	3098.123	3082.599	3070.18	3061.642	3051.552	3047.283	3041.85	3037.969
14	2939.006	2922.318	2909.123	2900.585	2890.106	2884.285	2877.688	2874.195
15	2777.948	2761.26	2746.901	2736.035	2725.944	2717.406	2709.645	2704.599
16	2612.622	2597.098	2579.246	2571.096	2554.408	2547.035	2536.945	2533.063
17	2436.041	2419.741	2406.546	2392.575	2380.544	2370.454	2362.304	2358.035
18	2259.848	2244.713	2231.13	2216.77	2203.963	2194.261	2187.275	2181.454
19	2079.774	2067.744	2052.608	2038.249	2027.77	2016.128	2006.813	2001.38
20	1894.656	1881.46	1865.937	1853.13	1841.875	1830.233	1824.023	1817.426
21	1707.208	1693.237	1675.385	1663.354	1652.487	1642.397	1635.411	1628.814
22	1516.656	1501.908	1484.832	1473.578	1464.264	1453.009	1447.188	1440.202
23	1328.432	1313.297	1301.654	1290.011	1279.533	1271.771	1266.726	1260.128
24	1154.956	1139.432	1127.79	1116.147	1106.445	1099.459	1094.802	1091.309
25	988.0772	974.106	964.0156	953.9253	947.3278	941.1183	936.0731	932.5804
30	404.3898	397.0161	392.359	387.7019	383.821	381.1044	378.3878	375.2831
35	199.4783	197.5378	197.1497	195.9855	196.3736	195.5974	195.5974	194.4331
40	149.8027	149.4147	149.0266	148.2504	148.2504	148.2504	148.6385	148.2504
45	125.7412	125.7412	124.965	124.5769	123.8007	124.1888	123.8007	123.4126
50	104.0081	103.2319	102.4558	102.0677	102.0677	102.8438	102.8438	104.0081
55	83.82745	83.05127	82.66318	82.27509	82.27509	82.66318	82.66318	83.82745
60	66.75149	66.3634	65.9753	65.58721	65.9753	65.58721	65.58721	66.75149
65	45.01844	45.40653	45.01844	45.40653	45.40653	45.01844	45.01844	45.01844
70	36.48046	36.48046	36.48046	36.48046	36.48046	35.70428	35.70428	35.31619
75	25.22585	25.61394	26.00203	26.39012	26.00203	25.61394	25.22585	25.22585
80	15.91169	15.91169	16.29978	15.91169	16.29978	15.91169	15.91169	15.91169
85	7.7618	8.149891	7.7618	8.149891	8.149891	8.149891	7.7618	8.149891
90	0	0	0	0	0	0	0	0

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光強數據表(二)

光強數據表(cd)

第 2 頁 共 10 頁

θ (°)	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0
0	4435.869	4435.869	4438.974	4438.586	4438.197	4438.197	4436.645	4431.212
1	4406.374	4406.374	4405.21	4406.762	4407.15	4410.255	4409.867	4408.314
2	4364.849	4364.849	4363.685	4369.505	4367.565	4362.908	4362.908	4362.908
3	4310.904	4312.844	4310.904	4309.74	4310.516	4309.74	4304.695	4305.859
4	4239.107	4237.943	4231.346	4230.181	4228.629	4227.853	4232.122	4233.674
5	4147.518	4143.637	4145.189	4142.861	4145.966	4145.189	4146.742	4151.399
6	4049.331	4046.227	4043.122	4043.898	4040.017	4041.569	4040.017	4041.569
7	3924.754	3920.486	3918.545	3916.604	3919.321	3920.486	3923.59	3927.471
8	3797.461	3794.356	3783.878	3781.937	3781.549	3780.773	3783.102	3785.43
9	3654.644	3650.375	3647.658	3644.166	3643.001	3637.568	3641.061	3637.568
10	3506.005	3497.467	3493.586	3486.989	3484.272	3483.108	3482.72	3486.213
11	3351.934	3343.784	3340.291	3330.977	3327.484	3324.767	3325.543	3327.096
12	3189.324	3184.667	3180.786	3179.622	3175.353	3171.472	3169.531	3171.083
13	3032.924	3024.386	3019.729	3018.952	3014.683	3011.19	3008.862	3008.862
14	2871.09	2867.209	2860.223	2858.671	2852.462	2853.238	2847.028	2845.088
15	2702.659	2696.838	2696.838	2696.838	2692.957	2687.912	2684.419	2682.478
16	2531.123	2525.302	2523.361	2522.197	2517.152	2512.495	2510.166	2509.39
17	2353.766	2351.438	2348.721	2346.78	2345.228	2343.288	2338.631	2340.571
18	2177.961	2173.692	2166.707	2167.095	2167.095	2165.542	2165.154	2165.154
19	1990.902	1987.797	1986.633	1984.692	1984.692	1987.409	1987.797	1991.29
20	1811.216	1807.723	1808.111	1803.066	1803.842	1803.454	1805.783	1808.888
21	1623.381	1622.604	1621.828	1620.664	1621.44	1620.276	1622.604	1623.769
22	1435.933	1434.769	1435.545	1436.321	1435.545	1439.038	1438.65	1440.978
23	1257.412	1255.083	1257.024	1257.412	1255.471	1256.247	1257.412	1260.128
24	1088.981	1088.204	1090.145	1090.533	1090.145	1090.921	1089.757	1092.473
25	932.1922	931.4161	931.8041	932.5804	934.1327	934.1327	934.1327	935.6851
30	372.9545	373.3426	375.2831	376.4473	378.3878	379.552	379.552	381.1044
35	194.8212	194.4331	195.2093	195.5974	195.5974	195.5974	195.5974	195.9855
40	148.2504	148.6385	149.0266	148.6385	148.6385	148.2504	149.0266	149.0266
45	123.0245	123.0245	123.0245	123.0245	123.4126	123.8007	124.1888	124.965
50	103.62	103.62	103.2319	102.8438	102.4558	102.4558	102.4558	102.8438
55	84.21553	84.21553	83.43935	82.66318	83.05127	82.66318	83.05127	83.05127
60	65.9753	66.3634	65.9753	65.58721	65.58721	65.58721	65.58721	65.58721
65	44.63035	44.63035	44.63035	45.01844	44.63035	44.63035	45.01844	45.01844
70	35.31619	35.70428	35.31619	35.70428	35.70428	36.09237	36.09237	36.09237
75	24.83776	24.83776	24.83776	25.22585	25.22585	25.61394	25.61394	26.00203
80	15.5236	15.5236	15.5236	15.5236	15.91169	15.5236	15.91169	15.91169
85	8.149891	8.149891	8.149891	8.149891	8.149891	8.149891	8.149891	8.149891
90	0	0	0	0	0	0	0	0

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光強數據表(三)

光強數據表(cd)

第 3 頁 共 10 頁

$\gamma(C^\circ)$	80.0	85.0	90.0	95.0	100.0	105.0	110.0	115.0
0	4428.883	4427.331	4426.943	4425.391	4424.614	4423.062	4425.002	4426.555
1	4409.479	4405.21	4406.762	4408.314	4402.881	4406.762	4406.762	4406.762
2	4362.132	4363.685	4371.446	4371.834	4374.551	4378.432	4376.491	4378.82
3	4306.247	4308.188	4310.128	4313.621	4320.606	4326.04	4332.249	4335.742
4	4236.002	4238.719	4246.481	4251.138	4255.019	4260.84	4267.826	4266.662
5	4148.294	4152.175	4156.833	4158.772	4164.206	4170.416	4178.177	4185.939
6	4045.063	4047.391	4051.272	4057.093	4061.75	4073.005	4081.155	4090.857
7	3926.695	3929.8	3934.845	3934.457	3941.83	3953.085	3960.847	3975.982
8	3788.535	3795.52	3799.013	3808.716	3817.642	3825.015	3836.27	3842.868
9	3642.613	3646.882	3653.479	3665.122	3676.765	3689.572	3700.051	3710.141
10	3490.482	3498.243	3508.334	3517.26	3528.126	3541.71	3551.412	3565.383
11	3329.813	3336.41	3350.769	3361.248	3376.383	3386.086	3399.281	3416.357
12	3176.129	3178.845	3189.324	3200.19	3212.609	3225.028	3242.88	3255.687
13	3013.519	3015.848	3027.878	3039.521	3048.835	3065.523	3079.494	3096.182
14	2845.088	2850.133	2859.059	2870.314	2884.285	2898.644	2919.213	2934.737
15	2679.374	2687.135	2694.121	2704.987	2718.183	2733.706	2754.663	2773.291
16	2512.883	2517.928	2529.183	2538.885	2552.08	2567.604	2586.62	2606.025
17	2341.735	2348.333	2358.423	2368.125	2380.544	2394.904	2412.756	2436.429
18	2166.318	2177.185	2184.559	2195.425	2207.844	2224.92	2241.22	2255.579
19	1993.619	2000.992	2008.366	2016.516	2029.711	2046.01	2061.146	2075.505
20	1811.604	1821.694	1830.233	1842.651	1855.07	1867.489	1884.565	1900.089
21	1629.202	1637.74	1647.054	1657.921	1673.056	1685.863	1701.775	1718.851
22	1447.576	1457.666	1463.876	1473.19	1485.22	1498.416	1516.656	1533.732
23	1269.831	1277.98	1286.906	1294.28	1308.251	1320.67	1333.865	1349.777
24	1099.847	1107.221	1117.311	1125.073	1135.94	1148.358	1161.165	1175.525
25	941.8945	950.0444	959.3585	965.9561	975.2703	987.6891	997.7795	1011.751
30	383.821	386.9258	389.2543	393.1352	396.2399	400.5089	405.554	410.9873
35	197.1497	197.5378	196.3736	194.4331	192.8808	192.8808	194.045	194.8212
40	150.1908	150.5789	149.8027	149.0266	147.4742	147.4742	147.0861	147.8623
45	125.7412	126.1293	125.7412	124.5769	124.5769	124.1888	123.8007	124.1888
50	103.2319	103.62	104.0081	104.0081	103.62	104.0081	103.62	103.62
55	83.43935	83.82745	83.43935	83.82745	83.82745	83.82745	83.43935	83.82745
60	65.58721	65.9753	65.9753	65.9753	65.9753	65.9753	65.58721	65.58721
65	45.40653	45.01844	45.40653	45.79462	45.79462	45.40653	45.40653	45.40653
70	36.86855	37.25664	36.86855	36.86855	37.25664	36.86855	37.25664	37.25664
75	26.39012	26.00203	26.39012	26.39012	26.77821	26.39012	26.77821	26.77821
80	16.29978	15.91169	16.29978	16.29978	16.29978	16.29978	16.29978	16.68787
85	8.149891	8.149891	8.149891	8.53798	8.53798	8.149891	8.149891	8.53798
90	0	0	0	0	0	0	0	0

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光強數據表(四)

光強數據表(cd)

第 4 頁 共 10 頁

$\gamma/C(^{\circ})$	120.0	125.0	130.0	135.0	140.0	145.0	150.0	155.0
0	4427.719	4428.107	4428.107	4428.107	4425.779	4425.779	4420.733	4418.405
1	4413.748	4416.853	4421.898	4422.286	4426.167	4426.167	4427.331	4426.555
2	4383.477	4388.134	4392.791	4396.284	4399.776	4409.479	4412.972	4416.464
3	4341.563	4346.997	4354.37	4357.087	4363.296	4367.565	4372.998	4383.089
4	4274.423	4280.633	4288.783	4299.649	4304.306	4319.054	4326.04	4333.414
5	4192.925	4206.508	4215.822	4220.091	4234.45	4244.152	4256.572	4267.438
6	4098.619	4103.664	4115.307	4124.232	4135.487	4147.906	4158.772	4170.416
7	3986.461	3997.327	4007.806	4018.672	4031.479	4044.286	4055.153	4069.512
8	3854.898	3867.705	3879.736	3893.707	3908.066	3924.366	3941.054	3955.025
9	3724.888	3736.919	3750.89	3767.578	3778.833	3794.356	3807.551	3824.627
10	3579.354	3596.43	3611.178	3625.537	3643.389	3658.136	3673.272	3693.841
11	3430.328	3450.12	3464.868	3478.063	3493.975	3510.274	3526.186	3542.486
12	3269.27	3287.51	3306.527	3323.603	3344.172	3359.307	3382.205	3397.34
13	3110.542	3126.065	3150.515	3166.427	3187.771	3204.848	3223.864	3239.387
14	2955.694	2972.382	2988.681	3008.474	3025.938	3040.297	3059.314	3079.106
15	2792.308	2810.548	2828.4	2844.7	2864.492	2879.24	2894.764	2909.123
16	2623.489	2637.848	2654.536	2674.328	2691.404	2708.868	2723.228	2743.02
17	2452.729	2466.7	2484.552	2501.628	2520.645	2538.109	2552.468	2568.768
18	2274.596	2290.895	2308.359	2325.436	2342.9	2357.647	2376.663	2392.963
19	2096.85	2113.926	2136.048	2151.183	2168.259	2181.842	2199.694	2216.77
20	1917.941	1935.793	1954.421	1969.945	1986.633	1999.44	2016.128	2032.039
21	1737.867	1754.943	1773.183	1792.2	1807.723	1820.918	1834.89	1849.249
22	1550.808	1568.66	1584.96	1605.528	1622.993	1637.352	1652.487	1665.682
23	1366.077	1380.824	1396.736	1416.529	1433.605	1451.457	1465.428	1482.892
24	1190.272	1206.96	1221.319	1237.619	1253.919	1269.831	1283.414	1298.161
25	1023.393	1036.589	1049.007	1064.531	1080.831	1096.354	1109.937	1123.133
30	415.2563	419.1372	421.4658	425.7348	432.7204	439.706	449.4082	458.3343
35	195.2093	196.3736	197.1497	197.9259	200.2544	202.583	204.5235	206.4639
40	147.8623	147.8623	147.4742	147.0861	147.4742	147.8623	147.8623	148.2504
45	124.5769	124.1888	123.8007	124.1888	124.1888	123.8007	124.1888	123.8007
50	104.0081	103.2319	103.62	104.0081	104.7843	105.1724	105.9486	106.3367
55	84.21553	84.21553	84.21553	84.60362	84.99171	84.60362	84.60362	84.99171
60	65.58721	65.58721	65.58721	65.58721	65.58721	65.58721	65.58721	65.9753
65	45.40653	45.40653	45.40653	45.40653	45.79462	45.79462	46.18271	46.18271
70	37.25664	37.25664	36.86855	37.25664	37.64473	37.64473	38.03282	38.03282
75	26.77821	26.77821	26.77821	26.77821	26.77821	27.1663	27.1663	27.55439
80	16.68787	16.29978	16.29978	16.29978	16.29978	16.29978	16.68787	16.68787
85	8.53798	8.53798	8.53798	8.53798	8.149891	8.149891	8.53798	8.92607
90	0	0	0	0	0	0	0	0

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光強數據表(五)

光強數據表(cd)

第 5 頁 共 10 頁

$\gamma/C(^{\circ})$	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0
0	4419.181	4416.464	4416.076	4417.241	4414.136	4419.181	4419.569	4419.569
1	4428.107	4428.107	4428.883	4430.824	4430.824	4433.929	4434.316	4434.705
2	4421.51	4421.122	4427.719	4429.271	4432.376	4435.481	4437.421	4439.75
3	4389.298	4395.896	4406.374	4412.972	4420.346	4426.555	4430.824	4435.481
4	4345.056	4354.758	4360.968	4369.894	4375.327	4381.537	4392.403	4397.06
5	4272.095	4284.902	4294.604	4306.247	4320.994	4329.92	4334.966	4350.101
6	4188.268	4199.91	4217.374	4229.405	4245.705	4256.183	4266.662	4276.752
7	4083.483	4098.231	4118.412	4132.382	4148.294	4160.713	4171.192	4187.103
8	3976.371	3991.894	4006.642	4022.165	4036.913	4048.167	4064.855	4076.886
9	3842.479	3859.555	3876.243	3899.917	3911.171	3927.471	3941.83	3956.966
10	3708.588	3724.112	3748.174	3764.473	3781.937	3797.073	3810.656	3828.12
11	3563.443	3581.683	3602.251	3617.387	3631.746	3651.151	3663.182	3684.139
12	3414.028	3431.88	3448.956	3461.763	3477.287	3491.646	3507.558	3525.41
13	3254.911	3268.494	3284.794	3302.646	3315.065	3336.022	3349.217	3372.502
14	3092.689	3110.542	3123.737	3143.529	3157.889	3174.188	3189.324	3205.235
15	2924.258	2942.887	2957.246	2973.934	2993.727	3008.862	3026.714	3041.85
16	2758.544	2776.008	2791.144	2808.219	2821.802	2836.938	2852.462	2867.597
17	2585.456	2602.144	2623.489	2638.236	2654.924	2669.283	2687.135	2698.778
18	2414.308	2430.608	2447.684	2463.208	2477.179	2490.762	2507.45	2519.093
19	2231.13	2245.489	2261.789	2279.253	2291.672	2307.583	2321.943	2333.585
20	2046.787	2066.191	2082.103	2096.85	2108.881	2122.076	2136.824	2144.974
21	1863.608	1879.908	1895.432	1912.508	1922.986	1938.122	1949.764	1960.631
22	1680.43	1695.565	1711.477	1723.12	1736.703	1749.122	1763.093	1774.348
23	1497.251	1508.118	1524.418	1538.389	1552.748	1565.555	1577.586	1589.229
24	1311.744	1324.163	1340.851	1354.822	1371.51	1383.929	1396.348	1409.155
25	1137.104	1150.299	1163.882	1179.018	1191.824	1206.96	1217.05	1231.798
30	468.4247	477.7388	488.9934	500.248	509.9503	516.5478	523.1454	530.9072
35	207.2401	208.4043	209.9567	211.5091	213.0614	213.4495	215.778	217.7185
40	148.6385	148.6385	149.0266	149.8027	150.967	150.967	150.5789	150.1908
45	124.1888	124.965	125.3531	126.1293	126.9054	127.2935	127.6816	127.2935
50	106.3367	107.1128	106.7248	105.9486	105.9486	105.1724	104.3962	104.3962
55	84.99171	84.99171	84.60362	84.60362	84.99171	84.99171	85.37981	84.99171
60	66.3634	66.3634	66.3634	67.13957	67.13957	67.13957	67.52766	67.52766
65	46.5708	47.34698	47.34698	47.34698	47.34698	47.34698	47.73507	47.73507
70	38.03282	38.42091	38.42091	38.809	38.809	38.809	39.19709	39.19709
75	27.55439	27.94248	27.94248	28.33057	28.33057	28.33057	28.33057	28.71866
80	17.07596	17.07596	17.07596	17.46405	17.85214	17.85214	18.24023	18.24023
85	8.92607	8.92607	9.31416	8.92607	9.31416	9.31416	9.31416	9.31416
90	0	0	0	0	0	0	0	0

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光強數據表(六)

光強數據表(cd)

第 6 頁 共 10 頁

$\gamma/C(^{\circ})$	200.0	205.0	210.0	215.0	220.0	225.0	230.0	235.0
0	4418.405	4416.464	4418.017	4416.076	4408.703	4410.255	4406.762	4407.926
1	4437.421	4436.645	4442.079	4441.302	4442.466	4442.079	4435.481	4434.705
2	4444.795	4445.184	4447.9	4448.288	4455.662	4456.438	4455.662	4455.273
3	4438.197	4443.243	4443.631	4446.736	4448.288	4452.557	4452.557	4457.602
4	4408.314	4411.808	4416.853	4425.391	4427.331	4433.541	4435.093	4435.481
5	4357.087	4364.072	4372.61	4373.387	4376.879	4382.313	4382.701	4388.522
6	4284.125	4293.44	4300.813	4305.083	4311.292	4316.337	4317.501	4317.89
7	4195.641	4208.836	4216.21	4220.867	4228.629	4233.286	4237.555	4239.884
8	4091.245	4102.888	4110.261	4118.023	4121.904	4128.114	4130.442	4133.547
9	3973.654	3983.744	3993.446	4008.194	4014.015	4018.672	4022.165	4017.12
10	3843.255	3853.346	3864.601	3876.631	3883.617	3892.543	3894.095	3894.483
11	3701.214	3714.41	3726.828	3734.59	3742.74	3750.502	3753.607	3753.607
12	3542.874	3565.383	3577.802	3588.281	3599.535	3603.028	3609.625	3609.237
13	3389.578	3405.878	3421.79	3432.268	3440.03	3445.463	3445.463	3447.404
14	3223.476	3238.611	3258.404	3268.882	3278.973	3282.466	3282.854	3285.182
15	3057.373	3071.733	3084.927	3096.57	3107.437	3113.646	3117.139	3120.244
16	2883.509	2898.644	2910.675	2927.363	2935.901	2945.215	2946.768	2944.827
17	2710.032	2725.944	2737.975	2747.289	2758.156	2764.753	2767.47	2766.306
18	2532.287	2543.542	2554.021	2567.604	2576.142	2583.903	2584.679	2583.515
19	2347.556	2363.08	2372.394	2382.485	2389.47	2394.127	2392.963	2392.187
20	2158.169	2169.423	2181.066	2191.156	2199.694	2203.187	2205.904	2205.904
21	1971.497	1982.364	1991.29	2000.992	2006.813	2010.306	2015.74	2015.74
22	1786.766	1796.081	1804.231	1813.545	1817.426	1825.187	1827.516	1829.844
23	1599.707	1609.409	1617.171	1630.366	1635.411	1644.725	1648.218	1650.935
24	1418.469	1428.947	1438.262	1448.352	1456.114	1465.428	1469.697	1471.637
25	1240.724	1251.978	1262.069	1272.935	1283.414	1291.564	1295.056	1298.161
30	537.5047	544.1022	551.0878	553.0283	554.5806	558.0734	560.0139	559.2377
35	219.2709	219.659	220.047	219.659	218.8828	218.4947	219.2709	220.4351
40	150.1908	149.8027	149.4147	148.2504	147.0861	145.9218	145.5338	145.5338
45	127.2935	126.5173	125.3531	124.965	123.8007	123.4126	121.8603	121.4722
50	104.7843	105.1724	105.1724	105.5605	105.1724	104.3962	103.62	103.2319
55	84.99171	84.99171	85.7679	86.15599	86.54408	86.54408	86.54408	86.54408
60	67.52766	67.52766	67.52766	67.91576	67.52766	67.91576	67.52766	67.52766
65	47.73507	47.73507	47.73507	48.12316	47.73507	47.34698	47.34698	46.95889
70	38.809	38.809	38.809	38.809	38.809	38.42091	38.42091	38.809
75	28.71866	28.33057	28.33057	28.33057	28.33057	28.33057	28.33057	27.94248
80	18.24023	18.24023	18.24023	17.85214	17.85214	17.46405	17.85214	17.85214
85	9.31416	9.70225	9.31416	9.31416	9.31416	9.31416	9.70225	8.92607
90	0	0	0	0	0	0	0	0

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光強數據表(七)

光強數據表(cd)

第 7 頁 共 10 頁

θ (C°)	240.0	245.0	250.0	255.0	260.0	265.0	270.0	275.0
0	4408.703	4409.867	4411.808	4411.808	4412.583	4414.136	4416.076	4417.629
1	4434.705	4434.316	4434.316	4437.033	4436.645	4441.302	4441.69	4441.69
2	4457.214	4449.452	4452.945	4449.452	4448.676	4447.9	4444.407	4449.452
3	4458.767	4460.707	4456.05	4457.602	4455.662	4447.9	4445.959	4444.019
4	4436.645	4430.824	4429.271	4431.988	4425.391	4423.838	4421.898	4416.464
5	4386.193	4385.029	4386.97	4384.641	4383.865	4376.879	4370.67	4364.849
6	4318.278	4317.113	4317.501	4314.396	4310.128	4306.635	4301.59	4291.111
7	4237.943	4233.286	4231.346	4220.867	4217.762	4209.613	4202.627	4198.358
8	4130.83	4131.995	4128.501	4125.009	4120.352	4109.874	4105.604	4097.455
9	4014.015	4008.97	4006.253	4003.537	3997.715	3990.342	3985.296	3975.206
10	3893.707	3890.991	3886.722	3883.229	3873.138	3866.153	3854.51	3844.42
11	3754.383	3750.89	3749.338	3743.516	3737.307	3730.322	3714.798	3704.707
12	3606.521	3603.028	3596.818	3590.997	3580.519	3570.816	3559.95	3549.083
13	3444.299	3441.582	3438.478	3428.775	3423.342	3412.087	3401.221	3393.071
14	3284.794	3278.584	3273.927	3262.673	3253.747	3242.88	3230.849	3222.699
15	3118.692	3112.482	3107.049	3094.63	3082.211	3069.404	3058.926	3048.059
16	2944.439	2937.453	2929.692	2916.497	2906.018	2894.375	2884.673	2873.031
17	2765.53	2759.708	2757.38	2743.408	2733.706	2721.675	2709.256	2697.614
18	2578.858	2575.754	2568.768	2560.618	2549.363	2537.721	2528.018	2517.54
19	2389.082	2384.813	2382.485	2375.111	2364.633	2354.93	2347.945	2336.69
20	2203.575	2200.859	2190.768	2183.395	2176.797	2167.483	2159.721	2151.959
21	2015.74	2012.635	2004.873	1996.723	1989.738	1981.976	1974.602	1964.9
22	1830.233	1826.74	1819.366	1812.38	1804.231	1796.857	1789.871	1778.617
23	1650.547	1645.114	1639.292	1629.978	1622.216	1614.843	1607.469	1595.05
24	1470.085	1467.368	1461.547	1452.233	1443.307	1435.157	1424.678	1413.036
25	1295.833	1292.728	1288.459	1276.816	1267.502	1256.635	1245.381	1232.962
30	555.7449	550.6998	544.4903	537.8928	532.8476	530.131	524.3096	520.0406
35	221.5994	223.1518	224.316	224.7041	225.8684	223.9279	222.3756	220.4351
40	145.1457	144.7576	144.3695	144.7576	146.3099	146.698	146.3099	146.3099
45	120.3079	120.3079	119.5317	119.5317	120.696	120.696	121.0841	121.8603
50	102.8438	102.8438	102.4558	102.4558	103.2319	103.2319	103.62	104.0081
55	86.93217	86.54408	86.54408	86.54408	86.93217	85.7679	85.7679	85.7679
60	67.52766	67.91576	67.52766	67.52766	67.91576	67.91576	67.91576	67.91576
65	47.34698	46.95889	46.95889	46.95889	46.95889	46.95889	46.95889	46.95889
70	38.809	38.809	38.42091	38.809	38.42091	38.809	38.42091	38.42091
75	27.94248	28.33057	27.94248	27.94248	27.94248	27.94248	27.94248	27.55439
80	17.46405	17.46405	17.46405	17.46405	17.46405	17.46405	17.07596	17.07596
85	9.31416	8.92607	9.31416	9.31416	8.92607	8.53798	9.31416	8.92607
90	0	0	0	0	0	0	0	0

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光強數據表(八)

光強數據表(cd)

第 8 頁 共 10 頁

$\gamma/C(^{\circ})$	280.0	285.0	290.0	295.0	300.0	305.0	310.0	315.0
0	4418.017	4419.181	4421.898	4417.629	4419.181	4421.122	4421.51	4422.674
1	4440.526	4438.197	4439.362	4435.481	4433.929	4434.316	4430.436	4429.659
2	4445.571	4443.243	4442.466	4437.421	4434.705	4431.6	4425.391	4422.286
3	4438.974	4433.541	4428.107	4423.062	4421.51	4411.419	4406.374	4395.12
4	4412.583	4405.21	4398.612	4391.627	4382.313	4373.775	4370.282	4362.132
5	4359.415	4358.251	4347.772	4340.011	4331.084	4322.159	4309.74	4299.649
6	4284.125	4274.812	4267.05	4253.079	4246.481	4236.391	4223.972	4211.941
7	4187.879	4183.223	4173.132	4162.266	4153.339	4141.309	4122.292	4109.097
8	4079.99	4074.169	4061.362	4047.003	4035.36	4021.001	4008.582	3993.058
9	3969.773	3960.459	3939.89	3926.695	3910.395	3895.648	3878.184	3861.496
10	3835.106	3821.91	3811.82	3797.073	3780.773	3766.026	3748.562	3731.098
11	3689.96	3677.929	3665.51	3649.987	3634.075	3619.716	3603.028	3586.34
12	3536.664	3530.067	3514.931	3501.348	3486.601	3466.42	3454.778	3431.88
13	3381.816	3368.622	3358.143	3339.514	3324.767	3313.513	3291.78	3274.704
14	3213.385	3204.848	3195.921	3183.502	3160.605	3145.469	3127.617	3107.049
15	3043.014	3032.147	3023.221	3010.414	2993.338	2977.815	2954.529	2937.842
16	2865.269	2857.507	2849.745	2836.938	2821.026	2806.279	2783.382	2769.41
17	2685.583	2678.597	2669.671	2659.969	2647.162	2633.191	2614.175	2595.158
18	2511.719	2502.405	2494.255	2484.94	2472.134	2455.058	2439.146	2417.801
19	2329.704	2317.674	2308.748	2298.269	2283.522	2269.938	2254.415	2237.727
20	2143.033	2134.495	2123.629	2113.926	2100.731	2084.431	2069.684	2052.608
21	1958.302	1946.271	1934.241	1922.598	1910.179	1893.103	1876.803	1860.504
22	1771.631	1761.929	1749.898	1737.867	1723.12	1707.596	1692.073	1671.504
23	1586.124	1573.705	1563.227	1549.643	1534.508	1518.208	1502.297	1485.997
24	1402.557	1390.526	1380.048	1368.405	1351.329	1335.418	1316.789	1300.102
25	1222.095	1211.617	1199.198	1187.167	1172.032	1155.732	1137.104	1121.58
30	514.6074	507.2337	498.3076	488.6053	478.1269	467.2604	456.3939	447.4678
35	217.3304	214.6138	211.5091	209.9567	206.852	205.2996	203.7473	203.7473
40	145.5338	145.5338	145.1457	144.7576	144.7576	144.3695	143.9814	144.3695
45	121.4722	121.4722	121.8603	121.8603	122.2484	122.6365	123.0245	123.4126
50	104.3962	103.62	102.0677	101.6796	100.9034	100.5153	100.5153	100.5153
55	86.15599	85.7679	85.37981	84.99171	84.99171	85.37981	85.37981	84.99171
60	68.30384	68.30384	67.91576	67.13957	67.13957	67.13957	67.13957	67.13957
65	46.95889	46.95889	46.95889	46.18271	46.18271	45.79462	45.79462	45.79462
70	38.42091	37.64473	38.03282	38.03282	37.64473	37.64473	37.64473	37.25664
75	27.1663	27.1663	26.39012	26.77821	26.77821	26.77821	26.39012	26.00203
80	16.68787	16.68787	16.29978	16.29978	16.29978	15.91169	15.91169	15.5236
85	8.53798	8.53798	8.53798	8.53798	8.149891	8.149891	8.149891	8.149891
90	0	0	0	0	0	0	0	0

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光強數據表(九)

光強數據表(cd)

第 9 頁 共 10 頁

w/C(°)	320.0	325.0	330.0	335.0	340.0	345.0	350.0	355.0
0	4424.614	4425.391	4432.376	4431.6	4434.316	4434.705	4430.436	4431.6
1	4427.719	4426.555	4425.779	4425.391	4422.286	4421.122	4423.45	4421.51
2	4419.569	4412.972	4413.748	4411.031	4399	4396.284	4389.686	4388.522
3	4390.462	4385.029	4374.551	4370.67	4368.341	4362.908	4357.087	4350.101
4	4352.042	4345.056	4334.966	4327.98	4314.396	4304.695	4297.321	4289.171
5	4286.455	4275.588	4263.169	4253.079	4242.212	4232.122	4222.808	4216.986
6	4203.015	4187.103	4176.237	4166.146	4151.787	4140.532	4121.904	4112.978
7	4091.633	4078.826	4060.198	4046.227	4033.808	4022.553	4008.97	3998.492
8	3976.758	3962.011	3945.711	3924.754	3910.783	3892.931	3880.9	3865.765
9	3843.644	3828.508	3810.656	3794.356	3777.28	3759.428	3744.681	3728.381
10	3715.574	3693.841	3677.153	3651.539	3634.075	3617.775	3600.311	3584.788
11	3568.876	3551.024	3533.56	3516.872	3495.527	3478.839	3450.896	3431.88
12	3415.192	3397.728	3377.159	3359.307	3338.738	3319.722	3298.377	3277.808
13	3253.359	3233.178	3216.102	3196.31	3176.905	3158.276	3132.663	3114.034
14	3088.809	3070.18	3051.94	3033.7	3007.31	2991.01	2974.322	2952.977
15	2918.049	2899.032	2880.016	2862.164	2844.7	2828.012	2808.996	2792.308
16	2750.006	2727.497	2708.092	2689.852	2673.94	2655.7	2639.788	2625.429
17	2575.365	2556.737	2536.168	2514.823	2496.195	2479.895	2469.417	2455.446
18	2398.785	2375.887	2356.094	2338.631	2320.778	2304.479	2292.836	2278.477
19	2215.606	2196.978	2177.573	2161.273	2141.481	2123.629	2109.269	2094.134
20	2031.263	2012.635	1993.23	1974.99	1960.243	1942.779	1926.867	1910.955
21	1842.263	1824.023	1804.619	1788.707	1773.183	1758.048	1739.031	1723.508
22	1653.264	1635.411	1614.843	1596.214	1578.362	1562.062	1548.479	1532.179
23	1465.428	1448.352	1424.678	1405.662	1385.87	1372.286	1356.763	1344.344
24	1280.309	1262.845	1242.664	1223.648	1206.184	1191.436	1179.794	1168.927
25	1104.892	1089.757	1070.352	1052.112	1036.589	1022.229	1010.975	1000.108
30	439.3179	432.7204	429.6157	426.899	423.4062	421.0777	418.361	411.7635
35	204.9115	205.6877	205.2996	203.3592	202.1949	201.0306	201.0306	200.6425
40	146.3099	146.3099	147.0861	147.4742	148.2504	148.6385	149.4147	149.8027
45	123.4126	123.4126	123.4126	123.0245	123.8007	123.8007	124.5769	125.3531
50	101.2915	101.6796	101.6796	102.4558	103.62	104.0081	104.3962	104.3962
55	84.99171	85.37981	84.60362	84.60362	85.37981	85.37981	84.60362	84.99171
60	66.75149	67.13957	66.75149	66.75149	67.13957	67.13957	67.13957	67.13957
65	45.79462	45.79462	45.40653	45.79462	45.79462	45.40653	45.79462	45.40653
70	37.25664	36.86855	36.48046	36.48046	36.48046	36.48046	36.48046	36.09237
75	26.00203	25.22585	25.61394	25.61394	25.61394	25.22585	25.61394	25.61394
80	15.91169	15.5236	15.5236	15.5236	15.5236	15.5236	15.5236	15.91169
85	7.7618	7.7618	7.7618	8.149891	8.149891	8.149891	7.7618	8.149891
90	0	0	0	0	0	0	0	0

-以下空白-



光強數據表(十)

光強數據表(cd)

第 10 頁 共 10 頁

$\gamma/C(^{\circ})$	360.0
0	4434.316
1	4421.51
2	4386.97
3	4342.339
4	4281.409
5	4206.896
6	4102.111
7	3984.908
8	3853.734
9	3716.738
10	3573.145
11	3414.804
12	3261.12
13	3098.123
14	2939.006
15	2777.948
16	2612.622
17	2436.041
18	2259.848
19	2079.774
20	1894.656
21	1707.208
22	1516.656
23	1328.432
24	1154.956
25	988.0772
30	404.3898
35	199.4783
40	149.8027
45	125.7412
50	104.0081
55	83.82745
60	66.75149
65	45.01844
70	36.48046
75	25.22585
80	15.91169
85	7.7618
90	0

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測試設備列表及人員

項次	儀器 編號	量儀名稱	廠牌 / 型號 / 序號
1	99A-01	角度規	Johnson
2	99E-04	數位電力計	YOKOGAWA WT210 (91JB34562)
3	99E-05	數位電力計	YOKOGAWA WT210 (91K116100)
4	99E-16	AC Power Source	APC AFC-5KW
5	990-01	立式大型分佈光度計	浙大三色 GMS-2000
6	990-22	快速光譜輻射分析儀(4 π)	浙大三色 SPR-3000
7	990-04	恆溫積分球(4 π)	浙大三色
8	1040-31	測光標準燈 110V/100W	浙大三色(S13100197)
9	99T-06	溫濕度記錄器	YOKOGAWA - SR16000 (S5K910111)
			測試人員：許文凱

-以下空白-