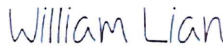
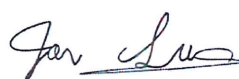
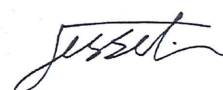




# TEST REPORT

## Of IES LM-79-08

<b>Kunde:</b> <i>Client:</i>	Luxsun Technology Company Limited		
<b>Adresse:</b> <i>Address:</i>	501, Building 16, No. 7, Xikeng South Road, Xikeng Community, Fucheng Street, Longhua District, Shenzhen, China		
<b>Hersteller:</b> <i>Manufacturer:</i>	Luxsun Technology Company Limited		
<b>Adresse:</b> <i>Address:</i>	501, Building 16, No. 7, Xikeng South Road, Xikeng Community, Fucheng Street, Longhua District, Shenzhen, China		
<b>Name der Marke:</b> <i>Brand Name:</i>	LUXSUN		
<b>Beschreibung des Produkts:</b> <i>Product Description:</i>	LED Street Light		
<b>Modelle:</b> <i>Models:</i>	LUX-SLD-75		
<b>Bewertung:</b> <i>Rating:</i>	AC100-240V, 50/60Hz, 75W		
<b>Verfahren:</b> <i>Method:</i>	IES LM-79-08: Approved Method for Electrical and Photometric Measurements of Solid-State Lighting Products		
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Please see the following test data		
<b>Datum der Prüfung:</b> <i>Date of Test:</i>	<b>Datum der Emission:</b> <i>Date of Issue:</i>	<b>Klassifizierung:</b> <i>Classification:</i>	<b>Gegenstand der Prüfung:</b> <i>Test item:</i>
2023-12-08 - 2023-12-11	2023-12-13	Commission Test	IES LM-79-08
<b>Prüflabor (Testlabor) / Testing Laboratory:</b> Shenzhen Southern LCS Compliance Testing Laboratory Ltd. Add: 101-201, No.39 Buliding, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China			
<b>Compiled von/Compiled by:</b>	<b>Check von/Check by:</b>	<b>Genehmigt von/Approved by:</b>	
			
William Lian/ Project Engineer	Ian Luo/ Director	Jesse Liu/ Manager	
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>Remark: The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory. This report contains the result of examination of the product sample submitted by the appliance. A general statement concerning the quality of the products from the series manufacturer cannot be derived therefore.</i>			





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## 1. Test Method

Test Item.....:	Integrating Sphere Test
Ambient Condition .....	24.9℃
Stabilization time .....(h):	0.5h
Orientation(burning position) of SSL product during test .....	down
Test Method .....	<p>The sample was tested according to the IES LM-79-2008.</p> <p>The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. 4π geometry was used during measurement. The sample was self-absorption correction used for integrating sphere, then operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.</p>
Test Item.....:	Goniophotometer Test
Ambient Condition.....:	24.9℃
Total operated time of the product for measurements including stabilization..... (h):	1.0h
Orientation(burning position) of SSL product during test .....	down
Test Method.....:	<p>The sample was tested according to the IES LM-79-2008.</p> <p>Photometric paramters were measured using a type C goniophotometer and software. The sample reference plane was located at the center of the sample goniometer at a test distance of 26m from the detectors. The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, Luminous efficacy, zonal flux were calculated from the software taken at 0.5° vertical intervals and 5°horizontal intervals.</p>





## 2. Product Information

Product description.....:	LED Street Light
Model Number.....:	LUX-SLD-75
Rated Inputs.....:	AC100-240V, 50/60Hz
Rated Power.....:	75W
Declared CCT.....:	3000K
LED Manufacturer.....:	LUMILEDS
LED Model.....:	L150-3070502400000
Forward current of the LED chip.....:	100mA
Date of Receipt Samples.....:	December 07, 2023
Quantity of Receipt Samples.....:	1 unit

## 3. Test equipment list

Manufacturer	Description	Equipment ID	Model	Calibration Date	Calibration Due Date
EVERFINE	Full-field Speed Goniophotometer	SLCS-S-112	GO-R5000	2023/06/15	2024/06/14
EVERFINE	Digital Power Meter	SLCS-S-103	PF2010	2023/06/15	2024/06/14
EVERFINE	AC Testing Power Source	SLCS-S-115	DPS1060	2023/06/15	2024/06/14
EVERFINE	Total Spectral Radiant Flux Standard Lamp	SLCS-S-143	D908S	2023/07/05	2024/07/04
EVERFINE	2 Meter Integrating Sphere	SLCS-S-312	HAAS2000	2023/06/15	2024/06/14
EVERFINE	Digital Power Meter	SLCS-S-309	PF9810	2023/06/15	2024/06/14
EVERFINE	AC Testing Power Source	SLCS-S-310	DPS1005	2023/06/15	2024/06/14
OSRAM	Standard Lamp	SLCS-S-313	DC24V/50W	2023/07/05	2024/07/04
Statement of Traceability: All calibration of the equipment has been performed using suitable standards traceable to national primary standards and International System of Unit(SI).					







## 4. Integrating Sphere Test Results

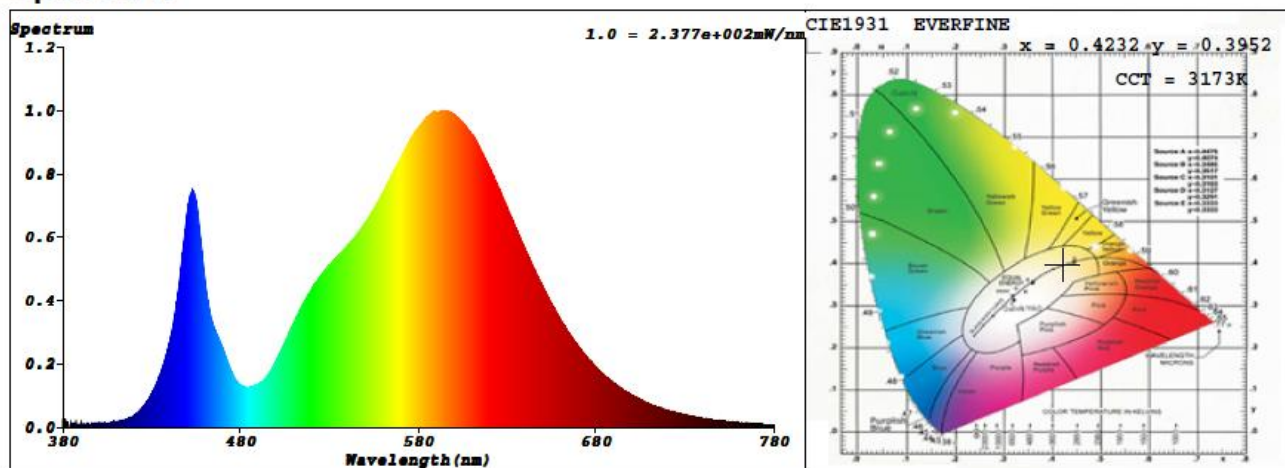
### 4.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	229.95	49.99	0.3358	0.9845	76.02

Test type	CCT (K)	CRI	Duv	Luminous flux (lm)	Luminous efficacy(lm/W)
Output	3173	73.5	-1.53e-03	11661	153.39

### 4.2 Spectrum

#### Spectrum



#### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.4232$   $y = 0.3952$  /  $u' = 0.2454$   $v' = 0.5158$  ( $duv = -1.53e-03$ )  $Dx, Dy: -0.0020, -0.0045$

CCT= 3173K Prcp WL:  $L_d = 582.7nm$  Purity=45.6%

Peak WL:  $L_p = 594nm$  FWHM: =117.1nm Ratio: R=20.5% G=77.3% B=2.2%

Render Index:  $R_a = 73.5$

R1 =70 R2 =84 R3 =94 R4 =69 R5 =70 R6 =78 R7 =78  
R8 =46 R9 =-28 R10=63 R11=64 R12=51 R13=73 R14=97 R15=63

LEVEL:OUT

#### Photometric & Radiometric Parameters

Flux = 11661 lm Eff. : 153.39 lm/W  $F_e = 33.415 W$



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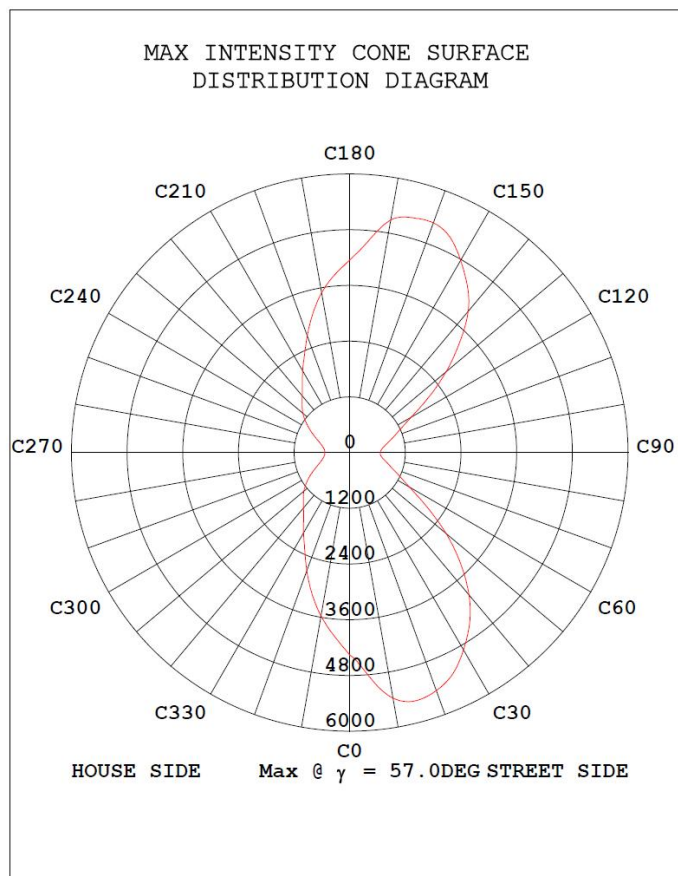
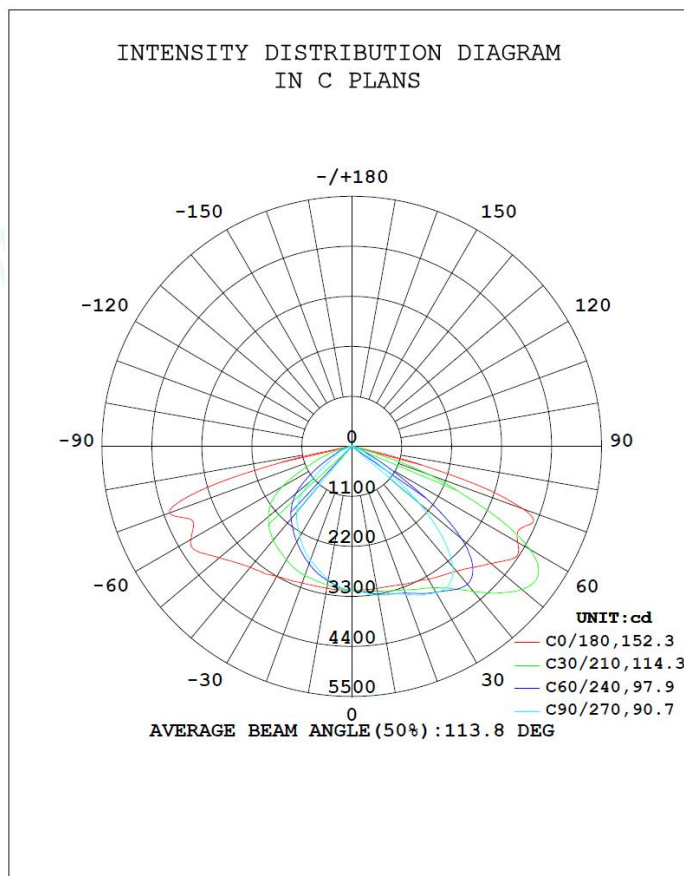
## 5. Goniophotometer Test results

### 5.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	230.1	50.00	0.3350	0.9847	75.92

Test type	Total Flux (lm)	Luminous efficacy(lm/W)	I <sub>max</sub> (cd)	ZL (0~90° )	ZL (80~90° )
Output	11652.9	153.48	5529	99.8%	0.3%

### 5.2 Luminous Intensity Distribution Diagram and C0 Plane Isolux Diagram (Unit : lx)



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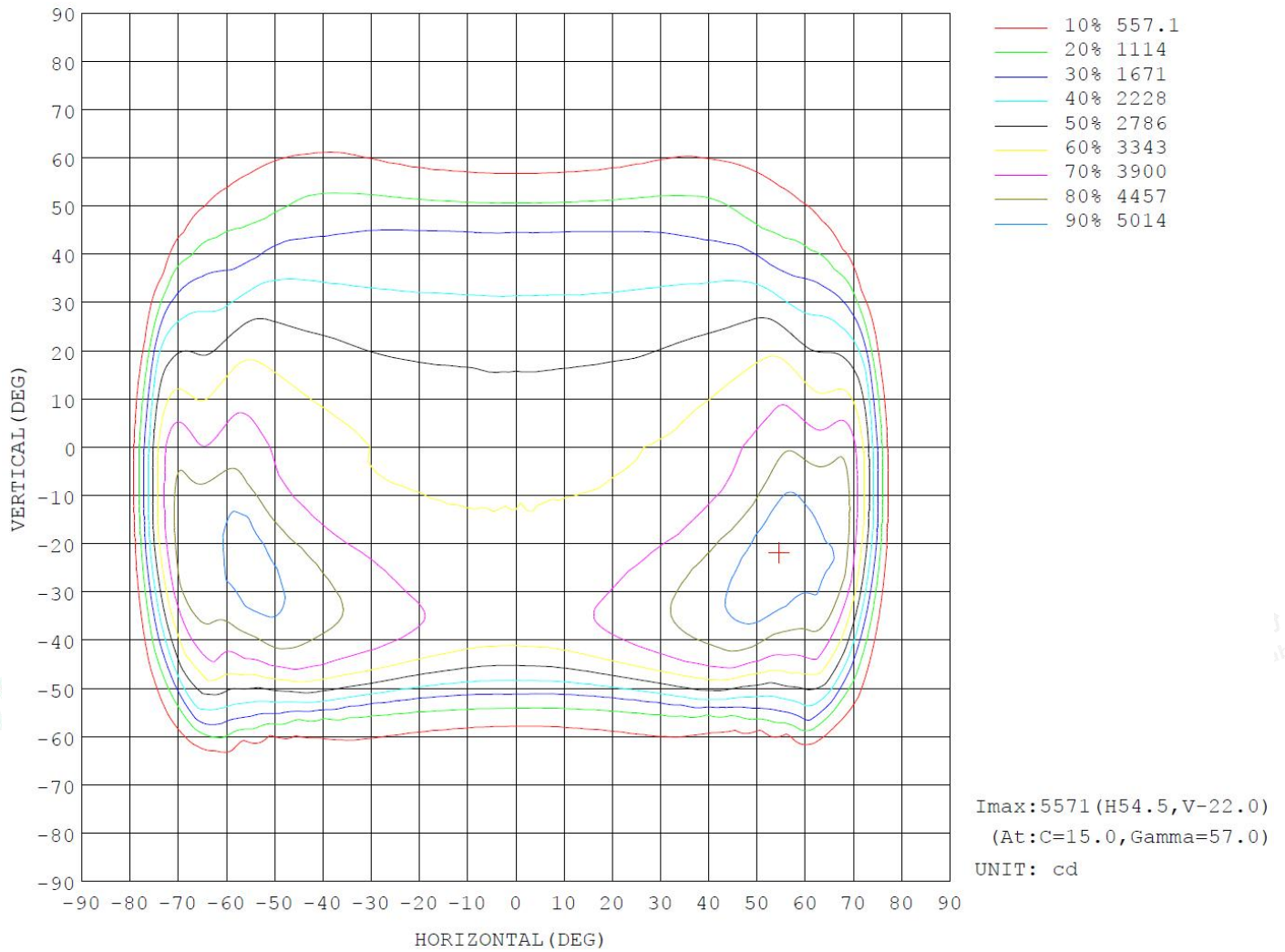


## 5.3 Zonal Flux Diagram

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	3171	3270	3322	3271	3169	3048	2969	3050	0- 10	301.8	301.8	2.59, 2.59
20	3233	3405	3462	3397	3198	2871	2666	2891	10- 20	891.6	1193	10.2, 10.2
30	3371	3692	3707	3633	3302	2591	2287	2613	20- 30	1456	2650	22.7, 22.7
40	3580	4193	3458	4076	3476	2295	1891	2321	30- 40	1990	4640	39.8, 39.8
50	4006	4262	1921	4162	3810	1909	1177	1909	40- 50	2378	7018	60.2, 60.2
60	4219	2665	415.1	2666	4094	1232	450.7	1197	50- 60	2289	9307	79.9, 79.9
70	4006	327.1	245.9	392.1	4272	464.4	193.7	412.1	60- 70	1623	10931	93.8, 93.8
80	127.5	87.10	57.05	103.9	303.4	113.9	2.204	93.63	70- 80	660.0	11591	99.5, 99.5
90	3.794	2.850	3.015	2.463	3.249	0.2591	0	0.2623	80- 90	39.05	11630	99.8, 99.8
100	2.993	0.4318	0.0887	0.2623	4.107	0.6095	0.1807	0.7009	90-100	1.426	11631	99.8, 99.8
110	4.019	0.4318	0.0887	0.2623	6.254	3.291	0.6245	3.235	100-110	1.932	11633	99.8, 99.8
120	4.275	1.290	0.1773	1.563	7.100	5.095	2.128	5.426	110-120	2.980	11636	99.9, 99.9
130	4.788	2.671	1.773	2.801	5.725	5.095	3.557	6.033	120-130	3.394	11639	99.9, 99.9
140	5.805	4.232	4.075	4.009	5.217	5.355	6.297	6.296	130-140	3.564	11643	99.9, 99.9
150	6.755	5.355	5.584	5.591	5.987	6.479	7.802	7.622	140-150	3.644	11647	99.9, 99.9
160	6.926	7.168	7.093	6.121	7.693	7.773	8.689	8.132	150-160	3.241	11650	100, 100
170	8.123	8.026	8.244	7.604	8.038	8.636	8.689	8.482	160-170	2.207	11652	100, 100
180	9.320	8.723	8.689	8.482	9.747	8.723	8.600	8.569	170-180	0.8129	11653	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



## 5.4 Isocandela Diagram







## 5.5 Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) Y (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168
5	3165	3170	3171	3180	3183	3182	3190	3196	3200	3202	3206	3210	3215	3219	3218	3221	3221	3223	3229
10	3171	3172	3186	3201	3212	3217	3234	3247	3260	3270	3276	3292	3303	3305	3306	3308	3308	3325	3322
15	3187	3197	3213	3231	3251	3261	3285	3308	3324	3337	3345	3359	3361	3365	3366	3360	3363	3379	3365
20	3233	3247	3265	3293	3317	3337	3362	3382	3390	3405	3414	3424	3435	3455	3456	3456	3461	3478	3462
25	3287	3304	3332	3370	3404	3432	3462	3477	3486	3510	3527	3546	3570	3597	3604	3604	3605	3630	3605
30	3371	3404	3426	3493	3532	3555	3588	3617	3651	3692	3700	3706	3700	3710	3708	3696	3706	3734	3707
35	3466	3513	3550	3632	3689	3741	3817	3881	3913	3930	3910	3884	3855	3835	3806	3768	3751	3755	3721
40	3580	3642	3713	3822	3929	4045	4159	4217	4230	4193	4120	4046	3957	3851	3730	3619	3533	3490	3458
45	3765	3850	3955	4150	4360	4489	4559	4532	4471	4363	4190	3990	3767	3543	3299	3092	2940	2859	2828
50	4006	4171	4384	4692	4878	4921	4890	4739	4526	4262	3920	3553	3154	2773	2429	2179	2007	1933	1921
55	4314	4673	5104	5377	5350	5242	4994	4633	4248	3765	3173	2581	2019	1583	1315	1152	1031	969	961
60	4219	4833	5267	5382	5275	4894	4523	4080	3370	2665	1799	1223	935	724	568	481	431	415	415
65	4180	4856	5004	5051	4566	3998	3242	2450	1641	876	692	526	403	357	344	342	332	328	332
70	4006	4353	4632	4365	4001	2866	1807	763	399	327	289	268	260	257	255	255	249	244	246
75	1638	2060	2170	2168	1914	1398	272	205	190	179	171	169	168	158	153	149	142	139	140
80	128	151	197	238	194	140	106	94.4	88.2	87.1	83.7	76.5	70.7	66.8	63.5	61.1	58.5	57.2	57.0
85	35.1	35.2	34.6	33.0	30.3	27.5	24.0	20.9	18.6	16.7	15.0	13.5	12.5	11.8	11.2	10.9	10.9	11.0	11.1
90	3.79	4.03	4.27	4.37	4.21	3.87	3.46	3.18	3.02	2.85	2.69	2.69	2.69	2.79	2.87	2.87	2.96	2.98	3.01
95	2.91	2.81	2.47	2.31	1.97	1.72	1.30	0.95	0.87	0.53	0.51	0.35	0.26	0.27	0.17	0.17	0.09	0.09	0.09
100	2.99	2.73	2.39	2.05	1.63	1.20	0.77	0.69	0.60	0.43	0.35	0.26	0.26	0.17	0.17	0.17	0.09	0.09	0.09
105	3.42	2.90	2.81	2.05	1.63	1.28	0.77	0.69	0.60	0.43	0.35	0.26	0.26	0.17	0.17	0.17	0.09	0.09	0.09
110	4.02	3.34	2.90	2.57	1.63	1.55	1.20	0.69	0.60	0.43	0.35	0.26	0.26	0.17	0.17	0.17	0.09	0.09	0.09
115	4.10	4.02	3.15	2.74	1.97	1.55	1.80	1.03	0.69	0.43	0.43	0.26	0.26	0.17	0.17	0.17	0.09	0.09	0.18
120	4.28	4.10	3.58	2.74	2.74	1.89	1.72	1.46	1.38	1.29	0.86	0.61	0.60	0.43	0.26	0.17	0.09	0.09	0.18
125	4.28	4.10	3.84	3.08	2.74	2.83	2.15	1.89	1.55	1.64	1.56	1.56	1.56	1.39	1.55	1.30	1.12	0.95	1.15
130	4.79	4.53	4.35	4.28	3.59	3.09	2.93	2.75	2.84	2.67	2.41	2.07	1.82	1.83	1.91	1.83	1.83	1.75	1.77
135	5.39	4.86	4.60	4.36	4.28	4.12	3.86	3.43	3.11	3.01	2.85	2.86	2.78	2.96	2.87	2.78	2.70	2.89	2.83
140	5.81	5.64	5.37	5.30	4.71	4.64	4.63	4.38	4.22	4.23	4.05	4.15	4.24	4.35	4.25	3.98	3.91	3.84	4.08
145	6.75	6.15	5.79	5.64	5.48	5.41	5.41	5.24	4.74	4.58	4.66	4.85	5.03	5.13	4.86	4.69	4.61	4.46	4.70
150	6.75	6.49	6.46	6.07	5.99	5.84	5.85	5.67	5.51	5.35	5.52	5.63	5.64	5.65	5.55	5.48	5.48	5.08	5.58
155	6.93	6.92	6.99	7.02	6.85	7.04	6.80	6.62	6.37	6.13	6.13	6.23	6.07	6.09	6.08	5.91	5.82	5.78	5.93
160	6.93	6.92	7.16	7.10	6.85	7.13	7.14	6.96	6.98	7.17	7.00	7.10	7.19	7.13	7.21	7.13	7.02	6.83	7.09
165	7.52	7.35	7.24	7.19	7.19	7.13	7.31	6.96	7.07	7.17	7.17	7.19	7.46	7.48	7.47	7.30	7.13	7.27	7.54
170	8.12	8.20	8.01	8.13	8.05	8.08	8.07	7.89	8.00	8.03	8.03	8.22	8.41	8.35	8.34	8.26	7.65	8.05	8.24
175	8.81	8.80	8.61	8.56	8.65	8.59	8.51	8.42	8.53	8.63	8.55	8.57	8.67	8.87	8.77	8.61	8.26	8.50	8.69
180	9.32	9.31	8.69	8.64	8.82	8.67	8.69	8.59	8.71	8.72	8.55	8.75	8.67	8.87	8.77	8.61	8.43	8.49	8.69



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Table--2

UNIT: cd

C (DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168
5	3227	3226	3228	3221	3218	3220	3212	3209	3205	3204	3198	3193	3192	3187	3184	3176	3173	3167	3163
10	3316	3322	3317	3304	3306	3301	3284	3280	3271	3262	3252	3235	3232	3221	3208	3190	3183	3169	3162
15	3369	3374	3366	3361	3363	3360	3349	3345	3337	3328	3314	3291	3279	3257	3234	3217	3200	3172	3163
20	3465	3464	3455	3449	3442	3436	3420	3408	3397	3381	3373	3352	3339	3307	3277	3255	3232	3198	3187
25	3610	3609	3595	3595	3581	3571	3540	3514	3485	3461	3447	3426	3407	3380	3341	3313	3280	3245	3218
30	3717	3711	3693	3700	3689	3697	3678	3659	3633	3601	3560	3526	3502	3470	3419	3378	3344	3302	3258
35	3732	3743	3758	3795	3797	3820	3829	3835	3838	3826	3781	3726	3675	3626	3554	3502	3453	3394	3330
40	3473	3514	3597	3708	3794	3906	3986	4038	4076	4118	4110	4032	3918	3813	3705	3629	3547	3476	3397
45	2846	2927	3073	3281	3490	3719	3934	4120	4256	4363	4401	4391	4317	4163	3975	3829	3710	3613	3505
50	1939	2022	2183	2427	2744	3122	3518	3872	4162	4415	4593	4702	4733	4665	4423	4145	3953	3810	3659
55	986	1058	1182	1355	1611	2039	2598	3164	3699	4172	4512	4825	5045	5120	5051	4786	4361	4069	3812
60	418	437	493	590	751	970	1263	1870	2666	3421	4127	4572	4951	5270	5299	5226	4754	4094	3690
65	331	338	350	356	370	424	566	769	1042	1911	2729	3544	4136	4576	4969	4920	4701	3870	3257
70	247	255	264	263	266	274	289	325	392	504	1034	2022	2945	4001	4548	4974	4728	4272	3188
75	141	146	155	160	166	180	183	187	200	216	241	392	1630	2654	3162	3295	3343	2895	2262
80	58.5	60.3	63.2	67.5	73.6	79.3	87.2	97.2	104	109	118	135	200	405	553	603	487	303	185
85	11.1	11.1	11.7	12.2	13.7	15.7	18.0	19.2	21.8	25.5	30.0	36.5	44.3	52.2	58.1	62.3	65.1	66.3	63.6
90	2.91	2.89	2.71	2.71	2.71	2.63	2.62	2.55	2.46	2.55	2.90	3.33	3.93	4.48	4.97	5.17	5.23	3.25	3.07
95	0.09	0.09	0.09	0.17	0.17	0.17	0.35	0.35	0.35	0.35	0.61	0.79	1.23	1.75	2.27	2.53	2.96	3.25	3.42
100	0.09	0.09	0.09	0.09	0.17	0.17	0.17	0.26	0.26	0.26	0.35	0.52	0.70	1.05	1.48	2.09	2.61	4.11	4.62
105	0.09	0.09	0.09	0.09	0.17	0.17	0.17	0.26	0.26	0.26	0.35	0.52	0.78	1.31	1.65	2.09	2.78	5.23	5.81
110	0.09	0.09	0.09	0.09	0.17	0.17	0.17	0.26	0.26	0.26	0.52	1.14	1.66	1.91	2.77	2.96	4.09	6.25	7.09
115	0.09	0.09	0.09	0.09	0.17	0.17	0.17	0.35	0.44	0.87	1.48	1.66	2.00	2.79	3.22	4.09	4.44	7.10	7.35
120	0.09	0.09	0.26	0.09	0.26	0.43	0.44	0.87	1.56	1.67	1.75	1.84	2.69	3.05	4.17	4.45	4.86	7.10	7.35
125	1.32	1.04	1.39	1.40	1.48	1.49	1.57	1.66	1.66	2.01	2.70	2.80	3.22	4.09	4.44	4.88	5.74	6.07	6.83
130	1.76	1.66	1.75	1.75	1.92	1.92	1.92	2.01	2.80	2.80	2.88	3.06	4.01	4.45	4.79	5.49	6.09	5.73	6.14
135	2.90	2.71	2.62	2.88	2.71	2.80	2.79	2.89	2.80	3.15	3.66	4.01	4.53	4.62	4.87	5.67	6.09	5.22	5.38
140	3.60	3.41	3.66	3.83	4.02	4.37	4.27	4.19	4.01	4.02	4.37	4.63	5.32	5.41	5.82	6.36	7.22	5.22	5.55
145	4.58	4.47	4.46	4.54	4.63	4.63	4.72	4.72	4.72	4.55	4.63	4.89	5.49	5.67	6.00	6.89	7.31	5.47	5.48
150	5.46	5.34	4.98	5.24	5.41	5.33	5.50	5.51	5.59	5.42	5.24	5.50	5.58	5.67	6.00	6.89	7.31	5.99	6.40
155	5.72	5.69	5.67	5.76	5.76	5.86	5.85	5.77	6.02	6.04	5.86	5.94	6.01	6.11	6.35	6.97	7.31	6.84	6.84
160	6.77	6.73	6.37	6.55	6.63	6.56	6.46	6.12	6.12	6.56	6.55	6.81	6.80	7.33	7.05	7.15	7.31	7.69	7.61
165	7.48	7.44	7.25	7.25	7.16	7.17	7.16	7.25	7.26	7.26	7.17	7.16	7.23	7.41	7.39	7.58	7.56	7.78	7.77
170	8.35	8.29	7.94	7.59	7.59	7.78	7.85	7.61	7.60	7.78	7.60	7.60	7.67	7.76	8.01	8.10	7.66	8.04	8.11
175	8.71	8.76	8.65	8.38	8.47	8.48	8.56	8.57	8.39	8.49	8.39	8.55	8.45	8.55	8.61	8.62	8.61	8.81	8.89
180	8.71	8.67	8.65	8.38	8.47	8.48	8.56	8.57	8.48	8.66	8.57	8.56	8.63	8.46	8.53	8.54	8.61	9.75	9.31



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Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168
5	3154	3158	3151	3146	3144	3138	3133	3129	3124	3114	3112	3105	3105	3105	3102	3096	3101	3093	3096
10	3144	3139	3124	3109	3096	3080	3062	3048	3039	3019	3004	2988	2976	2974	2970	2961	2969	2963	2963
15	3142	3129	3104	3081	3056	3027	2998	2967	2947	2917	2892	2860	2832	2821	2815	2805	2814	2811	2816
20	3158	3141	3102	3067	3024	2976	2925	2871	2825	2779	2747	2713	2683	2671	2666	2659	2666	2662	2668
25	3178	3147	3099	3042	2968	2889	2806	2731	2676	2625	2592	2560	2526	2508	2494	2483	2492	2487	2497
30	3201	3145	3081	2993	2880	2772	2675	2591	2525	2469	2426	2385	2347	2319	2296	2281	2287	2288	2305
35	3255	3165	3062	2933	2788	2655	2544	2447	2373	2305	2254	2203	2161	2132	2102	2085	2091	2095	2115
40	3301	3180	3036	2875	2690	2532	2404	2295	2211	2135	2081	2027	1981	1946	1908	1890	1891	1895	1917
45	3353	3180	2977	2781	2567	2384	2242	2130	2043	1953	1878	1809	1753	1707	1665	1640	1643	1647	1670
50	3442	3176	2897	2636	2400	2199	2047	1909	1805	1707	1612	1496	1388	1302	1227	1184	1177	1188	1231
55	3514	3148	2768	2432	2173	1931	1743	1605	1486	1332	1173	1023	894	804	730	686	677	687	732
60	3285	2847	2412	2046	1773	1546	1372	1232	1082	917	737	594	506	473	460	450	451	451	458
65	2702	2175	1711	1356	1151	1021	962	855	702	535	423	382	363	347	337	326	325	326	332
70	2360	1648	1126	831	692	623	553	464	366	304	277	257	242	223	206	196	194	195	204
75	1198	583	434	369	337	315	275	233	200	178	155	133	111	93.2	77.6	69.2	67.3	67.9	75.6
80	165	152	152	148	142	131	123	114	101	82.6	62.2	44.7	29.9	16.9	7.35	2.62	2.20	2.75	8.52
85	60.5	58.6	58.0	54.6	49.9	44.8	39.3	34.3	28.7	22.8	16.6	11.5	6.76	3.47	1.39	0.00	0.00	0.00	0.35
90	2.81	2.31	1.80	1.37	0.69	0.43	0.43	0.26	0.26	0.26	0.17	0.17	0.09	0.17	0.00	0.00	0.00	0.00	0.00
95	3.16	2.91	2.49	1.97	1.13	0.69	0.34	0.27	0.35	0.35	0.26	0.26	0.18	0.09	0.00	0.00	0.00	0.17	0.09
100	4.78	4.55	4.03	3.35	2.50	1.64	1.04	0.61	0.52	0.43	0.26	0.26	0.26	0.17	0.26	0.18	0.18	0.18	0.26
105	6.14	5.99	5.74	4.90	4.13	3.27	2.50	1.65	1.21	0.69	0.61	0.52	0.35	0.35	0.43	0.35	0.35	0.35	0.35
110	7.42	7.44	6.85	6.27	5.77	5.07	4.07	3.29	2.51	1.83	1.40	1.13	0.96	0.70	0.78	0.54	0.62	0.79	0.70
115	8.18	8.39	8.14	7.30	7.06	6.01	5.51	4.66	3.89	3.04	2.52	2.10	1.74	1.39	1.31	1.15	1.24	1.32	1.40
120	8.18	8.30	8.13	7.30	7.14	6.01	5.35	5.10	4.84	4.33	3.73	3.22	2.78	2.52	2.17	2.19	2.13	2.12	2.11
125	6.90	7.36	7.19	7.04	6.88	5.76	5.26	5.10	5.01	4.68	3.99	3.39	3.47	3.31	3.13	2.98	2.84	2.82	2.80
130	6.54	6.75	6.23	5.75	5.59	5.50	5.26	5.10	5.01	4.85	4.69	4.88	4.27	4.27	3.92	3.68	3.56	3.62	3.51
135	5.45	5.48	5.39	5.50	5.59	5.50	5.26	5.10	5.01	5.02	5.64	5.74	5.47	5.23	5.39	5.34	5.32	5.20	4.74
140	5.54	5.48	5.39	5.50	5.59	5.50	5.34	5.35	5.27	5.54	6.16	6.26	6.00	5.92	6.09	6.04	6.30	6.16	5.78
145	5.63	5.73	5.65	5.76	5.85	5.76	5.86	5.62	5.97	6.50	6.77	6.88	6.69	6.70	6.79	6.75	7.00	6.87	6.48
150	6.31	6.08	6.25	6.35	6.37	6.27	6.47	6.48	6.92	7.46	7.63	7.75	7.74	7.56	7.48	7.62	7.80	7.75	7.44
155	6.82	6.85	7.11	7.30	7.32	7.48	7.41	7.43	7.61	7.89	8.15	8.18	8.25	8.52	8.52	8.24	8.69	8.71	8.33
160	7.67	7.79	7.80	7.90	8.00	7.91	7.84	7.77	8.12	8.40	8.50	8.61	8.51	8.70	8.61	8.58	8.69	8.71	8.76
165	7.84	7.96	7.88	7.90	8.00	7.99	8.10	8.03	8.12	8.49	8.59	8.61	8.51	8.70	8.61	8.58	8.69	8.71	8.76
170	8.18	8.30	8.14	8.24	8.18	8.25	8.53	8.64	8.55	8.66	8.76	8.79	8.86	8.78	8.61	8.76	8.69	8.71	8.76
175	8.95	8.81	8.65	8.93	8.69	8.68	8.62	8.72	8.73	8.66	8.76	8.79	8.86	8.78	8.61	8.76	8.69	8.71	8.76
180	9.29	8.73	8.65	8.84	8.69	8.68	8.62	8.72	8.73	8.57	8.67	8.70	8.86	8.78	8.61	8.58	8.60	8.63	8.67



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Table--4

UNIT: cd

C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168	3168				
5	3101	3101	3103	3111	3110	3120	3123	3127	3132	3141	3138	3146	3150	3156	3158				
10	2976	2983	2988	3007	3017	3034	3050	3059	3075	3094	3101	3116	3133	3148	3153				
15	2829	2851	2869	2897	2923	2952	2982	3008	3032	3065	3081	3109	3127	3156	3164				
20	2676	2693	2716	2752	2789	2838	2891	2947	2990	3044	3080	3120	3147	3185	3205				
25	2508	2527	2551	2590	2635	2692	2753	2834	2907	2994	3059	3122	3161	3210	3245				
30	2324	2348	2378	2425	2474	2544	2613	2705	2799	2918	3022	3113	3183	3261	3314				
35	2138	2169	2204	2258	2318	2392	2469	2580	2692	2840	2988	3116	3222	3331	3397				
40	1952	1991	2031	2083	2151	2231	2321	2443	2576	2747	2931	3105	3255	3391	3486				
45	1709	1755	1807	1874	1956	2053	2149	2274	2421	2618	2831	3059	3283	3487	3637				
50	1301	1387	1488	1600	1699	1797	1909	2045	2214	2437	2685	2989	3304	3602	3821				
55	800	891	1016	1162	1315	1456	1573	1709	1900	2165	2450	2851	3264	3664	3991				
60	467	501	589	731	904	1060	1197	1319	1464	1645	1908	2299	2765	3241	3700				
65	340	353	371	411	522	672	775	832	886	1000	1211	1597	2114	2748	3406				
70	219	232	245	259	283	336	412	477	527	571	669	882	1363	2158	3119				
75	89.0	104	122	142	160	180	203	225	241	252	263	293	324	430	1071				
80	17.9	29.1	40.3	57.6	73.4	86.2	93.6	98.6	104	110	113	115	112	114	120				
85	2.51	5.05	8.67	12.0	17.2	21.4	24.6	26.8	28.9	30.8	32.4	33.2	33.8	34.7	35.2				
90	0.09	0.09	0.26	0.18	0.26	0.35	0.26	0.35	0.44	0.87	1.48	2.36	3.05	3.48	3.65				
95	0.09	0.09	0.17	0.17	0.26	0.26	0.35	0.52	0.70	1.32	2.18	3.14	3.65	4.01	4.18				
100	0.26	0.17	0.35	0.35	0.44	0.44	0.70	1.14	2.01	2.88	3.66	4.72	5.31	5.59	5.49				
105	0.44	0.35	0.53	0.70	0.87	1.14	1.75	2.63	3.42	4.64	5.49	6.28	6.88	7.07	6.96				
110	0.70	0.87	0.97	1.32	1.83	2.46	3.24	4.03	5.07	6.03	6.89	7.94	8.45	8.64	8.27				
115	1.49	1.74	2.01	2.36	2.97	3.59	4.30	5.34	6.21	7.26	8.11	8.64	9.57	10.02	9.66				
120	2.36	2.54	2.80	3.32	3.93	4.56	5.43	6.13	6.64	7.25	8.02	8.55	9.31	9.67	9.40				
125	2.71	2.79	3.23	3.76	4.29	5.08	5.77	6.21	6.64	7.25	7.41	7.68	8.01	7.92	7.57				
130	4.03	4.19	3.84	4.64	5.07	5.69	6.03	6.21	6.38	6.81	7.15	7.24	7.31	7.15	7.05				
135	5.07	5.24	5.07	5.16	5.77	5.95	6.03	6.21	6.38	6.38	6.54	6.54	6.61	6.54	6.44				
140	6.03	6.11	6.12	5.86	6.11	6.13	6.30	6.31	6.47	6.46	6.62	6.54	6.70	6.71	6.44				
145	6.91	7.00	6.90	6.56	6.55	6.73	6.82	6.74	6.91	6.73	6.88	6.81	6.88	6.62	6.53				
150	7.70	7.86	7.94	7.69	7.43	7.61	7.62	7.61	7.52	7.26	7.32	7.33	7.40	7.24	7.14				
155	8.39	8.47	8.38	8.23	7.86	7.96	8.21	8.05	7.96	8.04	7.93	8.02	7.83	7.68	7.57				
160	8.39	8.56	8.56	8.48	8.21	8.05	8.13	8.40	8.22	8.21	8.19	8.20	8.27	8.11	7.92				
165	8.39	8.56	8.64	8.48	8.21	8.13	8.13	8.31	8.30	8.21	8.27	8.20	8.27	8.11	7.92				
170	8.82	8.65	8.73	8.57	8.56	8.57	8.48	8.58	8.74	8.65	8.45	8.46	8.27	8.28	8.01				
175	8.82	8.65	8.73	8.57	8.47	8.57	8.57	8.49	8.65	8.65	8.54	8.64	8.61	8.54	8.53				
180	8.65	8.65	8.56	8.56	8.47	8.57	8.57	8.49	8.65	8.56	8.54	8.64	8.61	8.54	8.53				



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## 6. Photo of sample

Photo document



----- End of test report -----



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