



TEST REPORT

Of IES LM-79-08

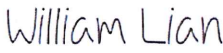

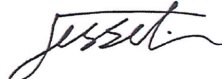
Kunde: <i>Client:</i>	Luxsun Technology Company Limited		
Adresse: <i>Address:</i>	501, Building 16, No. 7, Xikeng South Road, Xikeng Community, Fucheng Street, Longhua District, Shenzhen, China		
Hersteller: <i>Manufacturer:</i>	Luxsun Technology Company Limited		
Adresse: <i>Address:</i>	501, Building 16, No. 7, Xikeng South Road, Xikeng Community, Fucheng Street, Longhua District, Shenzhen, China		
Name der Marke: <i>Brand Name:</i>	LUXSUN		
Beschreibung des Produkts: <i>Product Description:</i>	LED Street Light		
Modelle: <i>Models:</i>	LUX-SLD-75		
Bewertung: <i>Rating:</i>	AC100-240V, 50/60Hz, 75W		
Verfahren: <i>Method:</i>	IES LM-79-08: Approved Method for Electrical and Photometric Measurements of Solid-State Lighting Products		
Prüfergebnis*: <i>Test result*:</i>	Please see the following test data		
Datum der Prüfung: <i>Date of Test:</i>	Datum der Emission: <i>Date of Issue:</i>	Klassifizierung: <i>Classification:</i>	Gegenstand der Prüfung: <i>Test item:</i>
2023-12-14 - 2023-12-15	2023-12-18	Commission Test	IES LM-79-08
Prüflabor (Testlabor) / Testing Laboratory: Shenzhen Southern LCS Compliance Testing Laboratory Ltd. Add: 101-201, No.39 Buliding, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China			
Compiled von/Compiled by:	Check von/Check by:	Genehmigt von/Approved by:	
			
William Lian/ Project Engineer	Ian Luo/ Director	Jesse Liu/ Manager	
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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.....:	4000K
LED Manufacturer.....:	LUMILEDS
LED Model.....:	L150-4070502400000
Forward current of the LED chip.....:	100mA
Date of Receipt Samples.....:	December 13, 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

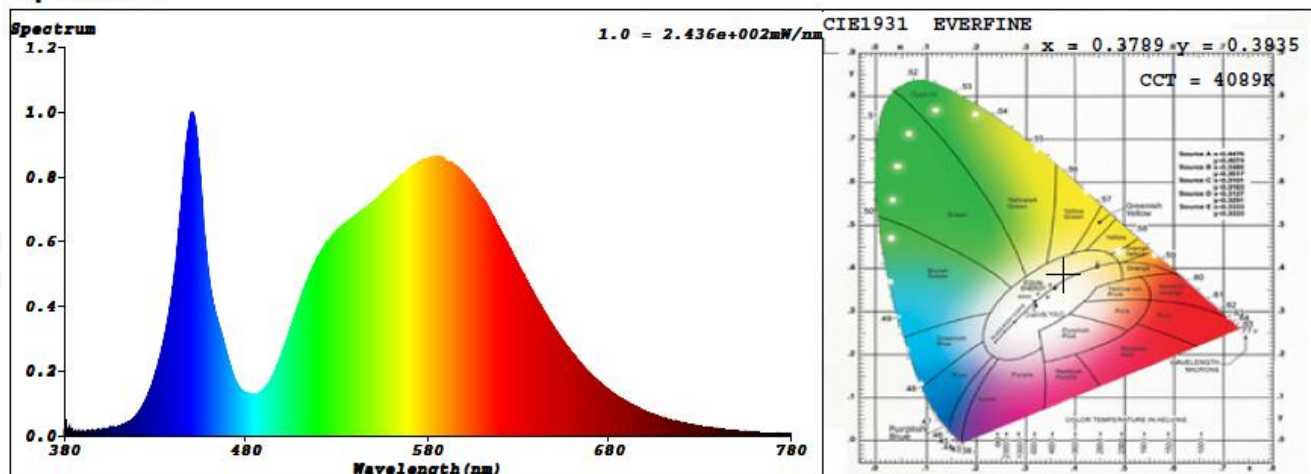
4.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	230.06	49.99	0.3337	0.9845	75.58

Test type	CCT (K)	CRI	Duv	Luminous flux (lm)	Luminous efficacy(lm/W)
Output	4089	72.8	3.59e-03	11810	156.26

4.2 Spectrum

Spectrum



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3789$ $y = 0.3835$ / $u' = 0.2214$ $v' = 0.5043$ ($duv=3.59e-03$) $Dx, Dy: 0.0023, 0.0092$

CCT= 4089K Prcp WL: $L_d=576.9nm$ Purity=28.8%

Peak WL: $L_p=451nm$ FWHM: $=18.8nm$ Ratio: $R=16.4\%$ $G=81.1\%$ $B=2.5\%$

Render Index: $R_a = 72.8$

R1 =69 R2 =79 R3 =87 R4 =72 R5 =69 R6 =71 R7 =82
R8 =52 R9 =-32 R10=51 R11=68 R12=42 R13=71 R14=93 R15=62

LEVEL:OUT

Photometric & Radiometric Parameters

Flux = 11810 lm Eff. : 156.26 lm/W $F_e = 33.578 W$



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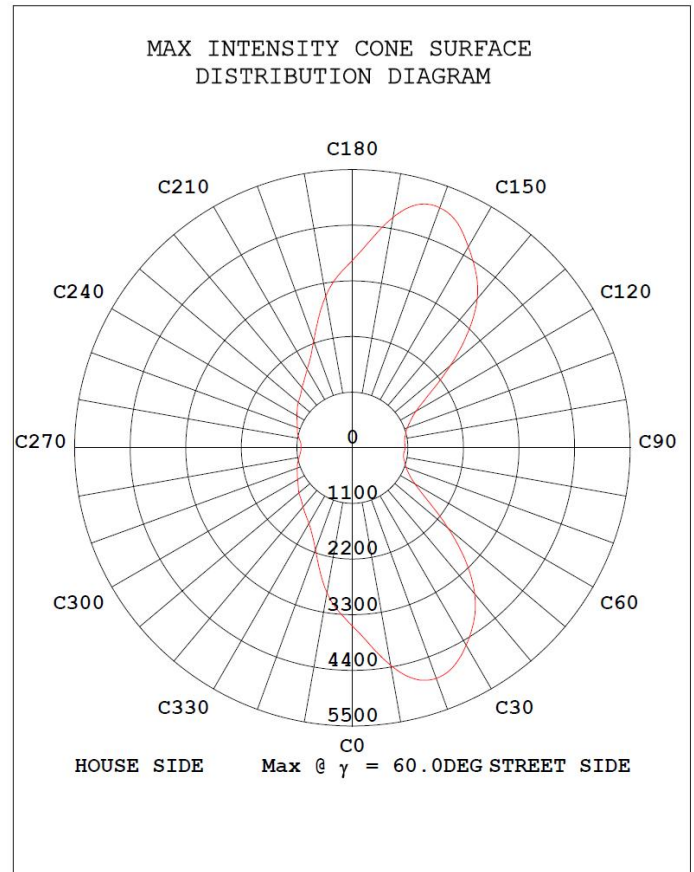
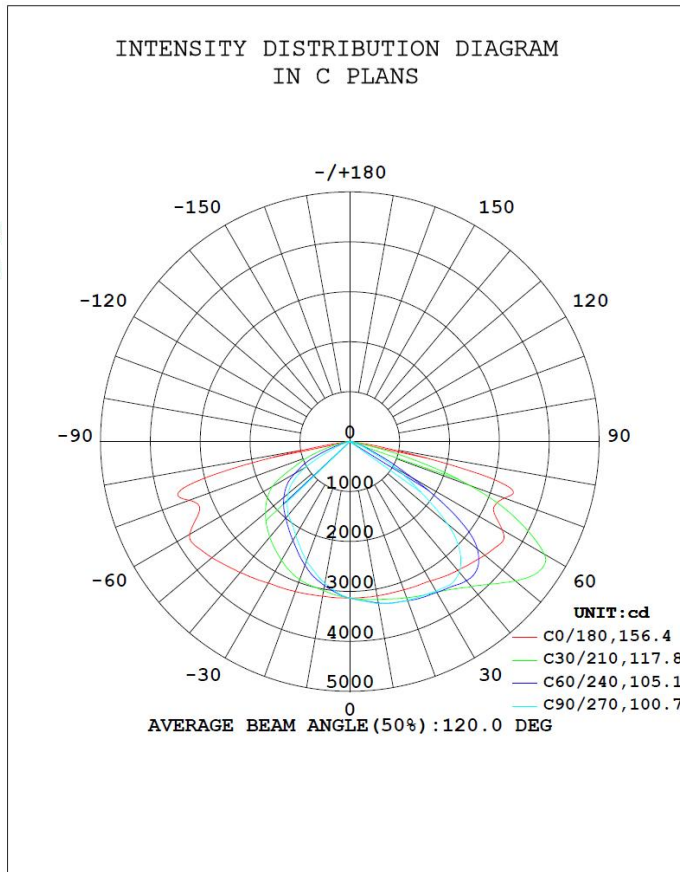
5. Goniophotometer Test results

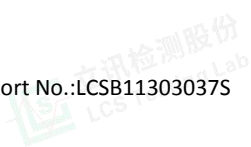
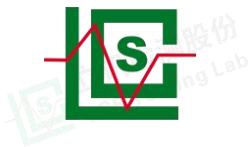
5.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	230.0	50.01	0.3337	0.9846	75.55

Test type	Total Flux (lm)	Luminous efficacy(lm/W)	I _{max} (cd)	ZL (0~90°)	ZL (80~90°)
Output	11799	156.17	5052	100%	0.5%

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





5.3 Zonal Flux Diagram

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3137	3243	3294	3250	3143	2977	2882	2966	0- 10	297.8	297.8	2.52, 2.52
20	3158	3365	3382	3397	3194	2770	2542	2735	10- 20	875.5	1173	9.94, 9.94
30	3222	3470	3454	3528	3271	2445	2170	2401	20- 30	1403	2577	21.8, 21.8
40	3364	3718	3411	3777	3420	2172	1919	2126	30- 40	1881	4458	37.8, 37.8
50	3535	3980	2550	4072	3613	1901	1620	1866	40- 50	2290	6748	57.2, 57.2
60	3528	3175	1046	3240	3708	1461	1018	1442	50- 60	2382	9130	77.4, 77.4
70	3303	455.4	265.8	475.7	3434	634.7	227.0	625.6	60- 70	1744	10874	92.2, 92.2
80	698.7	102.6	62.49	110.0	870.4	122.2	2.730	118.3	70- 80	861.4	11735	99.5, 99.5
90	0	0	0	0	0	0	0	0	80- 90	63.66	11799	100, 100
100	0	0	0	0	0	0	0	0	90-100	0	11799	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	11799	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	11799	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	11799	100, 100
140	0	0	0	0	0	0	0	0	130-140	0	11799	100, 100
150	0	0	0	0	0	0	0	0	140-150	0	11799	100, 100
160	0	0	0	0	0	0	0	0	150-160	0	11799	100, 100
170	0	0	0	0	0	0	0	0	160-170	0	11799	100, 100
180	0	0	0	0	0	0	0	0	170-180	0	11799	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



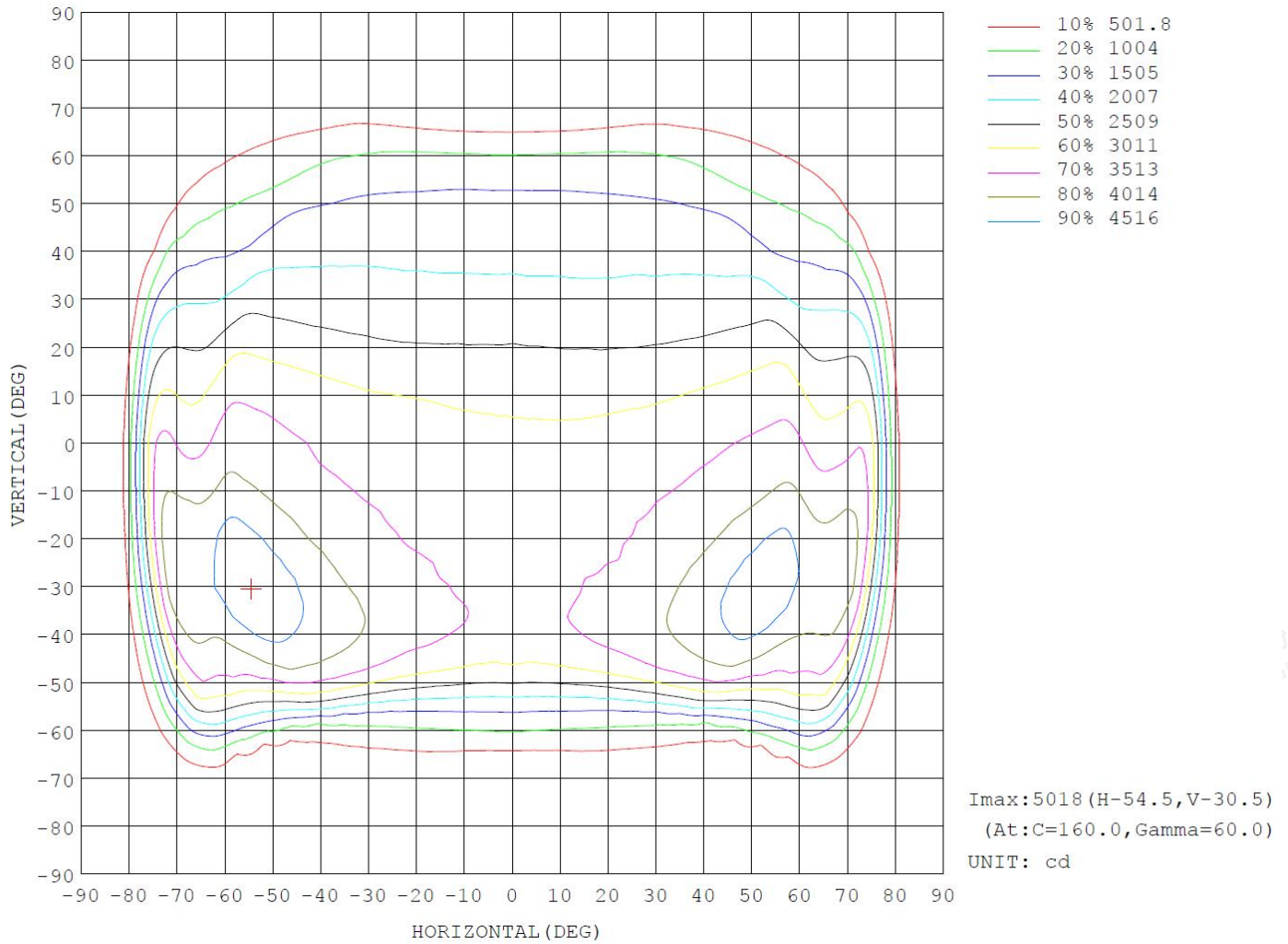
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5.4 Isocandela Diagram





5.5 Luminous Distribution Intensity Data

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132
5	3131	3143	3140	3149	3159	3161	3168	3173	3178	3181	3186	3190	3198	3195	3195	3195	3200	3204	3204
10	3137	3156	3161	3173	3190	3199	3206	3226	3234	3243	3258	3267	3280	3274	3276	3280	3283	3296	3294
15	3142	3169	3183	3202	3224	3242	3259	3286	3300	3311	3338	3332	3342	3334	3332	3333	3340	3347	3348
20	3158	3194	3212	3239	3270	3298	3328	3345	3357	3365	3384	3379	3390	3380	3365	3364	3373	3374	3382
25	3186	3232	3256	3301	3343	3371	3399	3410	3415	3420	3439	3427	3442	3425	3398	3393	3403	3395	3410
30	3222	3285	3323	3376	3426	3451	3482	3478	3481	3470	3484	3477	3485	3467	3438	3431	3436	3429	3454
35	3297	3370	3426	3491	3556	3591	3606	3591	3585	3551	3555	3544	3548	3518	3486	3473	3467	3456	3499
40	3364	3458	3537	3625	3702	3753	3791	3788	3767	3718	3686	3646	3636	3581	3511	3451	3402	3370	3411
45	3443	3570	3684	3811	3909	3985	4032	4018	3971	3914	3830	3704	3609	3487	3341	3226	3140	3084	3125
50	3535	3702	3872	4073	4250	4338	4335	4256	4141	3980	3811	3571	3337	3104	2887	2727	2593	2522	2550
55	3627	3854	4139	4463	4661	4686	4583	4363	4120	3829	3481	3033	2597	2240	1979	1825	1720	1677	1692
60	3528	3900	4363	4727	4849	4757	4504	4189	3766	3175	2480	1825	1437	1238	1132	1071	1028	1027	1046
65	3177	3708	4171	4382	4301	4013	3713	3154	2436	1596	1005	797	681	602	558	511	460	440	440
70	3303	3955	4238	4231	3767	3394	2541	1596	697	455	377	343	328	302	299	294	275	264	266
75	3091	3501	3640	3406	3099	2168	1099	320	248	224	208	195	185	177	170	166	160	153	153
80	699	896	892	989	862	543	174	126	112	103	95.6	89.0	83.0	78.1	72.8	69.3	66.1	62.2	62.5
85	56.6	58.5	60.8	62.4	58.0	47.7	36.6	28.7	24.5	20.8	18.4	16.5	15.2	13.8	12.7	12.2	11.7	11.5	11.7
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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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	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132
5	3202	3199	3199	3201	3193	3199	3190	3185	3183	3182	3177	3169	3167	3161	3153	3151	3146	3137	3133
10	3288	3287	3287	3287	3279	3282	3271	3257	3250	3240	3230	3219	3211	3194	3186	3178	3166	3143	3136
15	3343	3341	3344	3350	3344	3354	3351	3339	3333	3319	3303	3286	3267	3243	3226	3212	3193	3165	3141
20	3375	3369	3383	3395	3396	3400	3403	3397	3397	3385	3376	3352	3335	3300	3276	3258	3236	3194	3168
25	3396	3393	3418	3435	3443	3451	3469	3468	3467	3448	3445	3439	3418	3384	3352	3321	3276	3231	3192
30	3432	3435	3462	3477	3496	3501	3531	3533	3528	3525	3528	3521	3514	3475	3430	3384	3330	3271	3212
35	3464	3468	3509	3536	3557	3569	3602	3600	3614	3631	3636	3651	3653	3604	3552	3492	3428	3343	3268
40	3376	3403	3488	3559	3624	3663	3700	3727	3777	3823	3841	3842	3811	3743	3695	3619	3527	3420	3319
45	3093	3142	3260	3387	3526	3635	3754	3884	3994	4056	4072	4079	4054	3965	3891	3778	3645	3508	3376
50	2535	2605	2755	2928	3143	3362	3628	3872	4072	4217	4312	4382	4396	4306	4163	3978	3790	3613	3446
55	1689	1746	1859	2022	2285	2636	3086	3545	3921	4196	4411	4623	4759	4736	4571	4274	3975	3712	3490
60	1042	1051	1093	1154	1268	1457	1862	2531	3240	3844	4257	4590	4911	5052	4978	4626	4123	3708	3406
65	444	465	522	576	627	715	827	1036	1651	2565	3312	3886	4223	4550	4644	4450	3965	3338	2937
70	267	277	298	305	307	333	357	389	476	684	1621	2595	3503	3883	4359	4437	4162	3434	2784
75	154	161	169	174	180	190	203	218	237	265	328	1048	2215	3266	3613	3900	3767	3334	2392
80	62.9	67.1	71.0	75.3	80.8	86.8	93.7	101	110	122	138	167	544	971	1191	1090	1068	870	507
85	11.9	12.2	13.0	14.0	15.4	17.3	19.0	21.2	24.2	28.3	33.1	41.2	55.5	70.2	81.0	78.6	73.2	67.2	65.0
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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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	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132
5	3121	3120	3109	3096	3087	3086	3073	3066	3060	3050	3044	3033	3035	3036	3028	3023	3028	3022	3027
10	3108	3099	3075	3047	3031	3018	2993	2977	2964	2945	2928	2905	2896	2896	2885	2878	2882	2876	2877
15	3108	3084	3053	3016	2988	2958	2918	2886	2860	2831	2802	2763	2742	2729	2713	2702	2709	2700	2702
20	3120	3089	3044	2994	2940	2890	2826	2770	2717	2672	2635	2591	2570	2554	2540	2532	2542	2533	2532
25	3137	3081	3015	2939	2856	2777	2684	2609	2546	2492	2455	2410	2386	2366	2349	2339	2350	2340	2346
30	3141	3059	2964	2858	2743	2634	2525	2445	2380	2327	2286	2241	2218	2194	2176	2162	2170	2161	2170
35	3168	3057	2918	2769	2621	2491	2384	2301	2233	2180	2138	2091	2065	2042	2025	2014	2020	2009	2018
40	3193	3041	2858	2671	2498	2366	2254	2172	2103	2042	2000	1956	1936	1923	1912	1909	1919	1908	1908
45	3208	3008	2777	2548	2364	2230	2123	2045	1978	1917	1876	1835	1808	1795	1782	1772	1781	1773	1775
50	3215	2948	2657	2397	2211	2082	1978	1901	1838	1776	1728	1688	1661	1645	1629	1614	1620	1613	1622
55	3203	2846	2502	2218	2033	1899	1798	1721	1661	1600	1552	1507	1478	1452	1420	1392	1387	1392	1418
60	3049	2629	2248	1972	1795	1659	1554	1461	1402	1336	1273	1211	1167	1127	1073	1029	1018	1033	1073
65	2488	2037	1661	1419	1293	1231	1187	1113	1049	993	937	825	685	595	533	498	489	505	538
70	2181	1613	1233	1005	867	748	687	635	603	553	447	343	280	256	235	227	227	229	237
75	1537	918	650	504	433	383	342	301	258	202	162	140	120	98.6	83.2	74.9	74.0	75.5	85.0
80	248	203	174	160	156	144	133	122	103	80.9	59.8	42.2	28.9	18.0	8.18	2.93	2.73	3.56	10.7
85	61.9	60.6	58.6	55.7	51.9	46.4	41.1	34.7	28.9	21.8	15.3	10.5	6.30	2.94	0.51	0.00	0.09	0.09	1.47
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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Table--4

UNIT: cd

C (DEG) Y (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132	3132				
5	3032	3030	3038	3043	3046	3060	3062	3071	3079	3090	3093	3105	3111	3125	3126				
10	2892	2896	2906	2919	2932	2954	2966	2987	3003	3021	3039	3065	3082	3107	3119				
15	2724	2738	2758	2777	2805	2843	2863	2909	2929	2959	2989	3026	3051	3092	3117				
20	2549	2558	2579	2603	2639	2696	2735	2806	2850	2903	2949	3001	3041	3090	3127				
25	2362	2371	2391	2422	2464	2521	2569	2658	2736	2815	2890	2967	3030	3097	3143				
30	2188	2199	2221	2251	2293	2354	2401	2497	2592	2700	2808	2921	3009	3096	3162				
35	2035	2047	2069	2103	2146	2205	2251	2348	2451	2576	2721	2872	2999	3120	3213				
40	1912	1920	1937	1969	2015	2078	2126	2212	2320	2445	2619	2808	2981	3143	3264				
45	1783	1796	1816	1846	1896	1955	2003	2086	2188	2309	2489	2724	2945	3151	3313				
50	1633	1649	1669	1703	1755	1816	1866	1950	2041	2159	2347	2611	2890	3166	3376				
55	1447	1469	1499	1532	1579	1636	1686	1772	1861	1986	2176	2463	2805	3159	3425				
60	1122	1166	1209	1255	1313	1387	1442	1525	1617	1728	1891	2146	2509	2910	3234				
65	602	695	835	935	990	1038	1078	1113	1142	1215	1364	1607	1958	2391	2804				
70	258	284	347	453	538	573	626	675	730	842	976	1198	1567	2139	2723				
75	101	121	138	161	207	259	301	343	379	425	495	622	884	1507	2316				
80	20.8	32.0	43.6	61.3	82.8	103	118	128	136	145	148	162	193	235	466				
85	4.28	7.40	11.3	15.0	21.1	27.4	32.5	37.8	41.9	46.3	49.1	51.0	52.4	53.6	54.9				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				



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6. Photo of sample

Photo document



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



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