



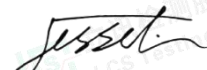
TEST REPORT

Of IES LM-79-08

Kunde: <i>Client:</i>	ARTIKA FOR LIVING INC
Adresse: <i>Address:</i>	1756 50th avenue, Lachine, Canada H8T 2V5
Hersteller: <i>Manufacturer:</i>	ARTIKA FOR LIVING INC
Adresse: <i>Address:</i>	1756 50th avenue, Lachine, Canada H8T 2V5
Name der Marke: <i>Brand Name:</i>	Artika
Beschreibung des Produkts: <i>Product Description:</i>	Vester vanity
Modelle: <i>Models:</i>	VAN-VE-MB, VAN-VE-CR
Bewertung: <i>Rating:</i>	AC120V, 60HZ, 21W
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>	N/A

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>
2022-05-11-2022-05-25	2022-05-26	Commission Test	IES LM-79-08

Prüflabor (Testlabor) / Testing Laboratory:
Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

Test von/Test by:	Check von/Check by:	Genehmigt von/Approved by:
		
Link Chai/ Project Engineer	Ian Luo/ Director	Jesse Liu/ Manager

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.

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.





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1. Test Method

Test Item.....:	Integrating Sphere Test
Ambient Condition	25.1℃
Stabilization time(h):	0.5h
Orientation(burning position) of SSL product during test	down
Test Method	The sample was tested according to the IES LM-79-2008. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was 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.
Test Item.....:	Goniophotometer Test
Ambient Condition.....:	25.1℃
Total operated time of the product for measurements including stabilization..... (h):	1.0h
Orientation(burning position) of SSL product during test	down
Test Method.....:	The sample was tested according to the IES LM-79-2008. Photometric parameters 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 1° vertical intervals and 22.5° horizontal intervals.





2. Product Information

Product description.....:	Vester vanity
Model Number.....:	VAN-VE-MB,VAN-VE-CR
Rated Inputs.....:	AC120V
Rated Power.....:	21W
Declared CCT.....:	3000K
LED Manufacturer.....:	N/A
LED Model.....:	N/A
Forward current of the LED chip.....:	N/A
Date of Receipt Samples.....:	May 9, 2022
Quantity of Receipt Samples.....:	1 unit
Remark.....:	VAN-VE-XXXXXX("XXXXXX" can be A to Z and/or 0 to 9 and/or blank (commercial code))

3. Test equipment list

Manufacturer	Description	Equipment ID	Model	Calibration Date	Calibration Due Date
EVERFINE	Full-field Speed Goniophotometer	SLCS-S-112	GO-R5000	2021/07/02	2022/07/01
EVERFINE	Digital Power Meter	SLCS-S-103	PF2010	2021/06/24	2022/06/23
EVERFINE	AC Testing Power Source	SLCS-S-115	DPS1060	2021/06/24	2022/06/23
EVERFINE	Total Spectral Radiant Flux Standard Lamp	SLCS-S-143	D908S	2021/07/02	2022/07/01
SENSING	2 Meter Integrating Sphere	SLCS-S-038	SPR-3000	2021/07/02	2022/07/01
YOKOGAWA	Digital Power Meter	SLCS-S-058	WT310	2021/06/24	2022/06/23
ALL POWER ELECTRONIC	AC Testing Power Source	SLCS-S-111	APW-105N	2021/06/24	2022/06/23
SENSING	Standard Lamp	SLCS-S-118	S11010017	2021/07/02	2022/07/01





4. Integrating Sphere Test Results

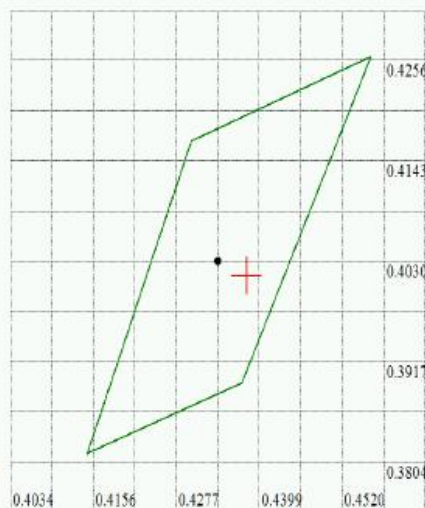
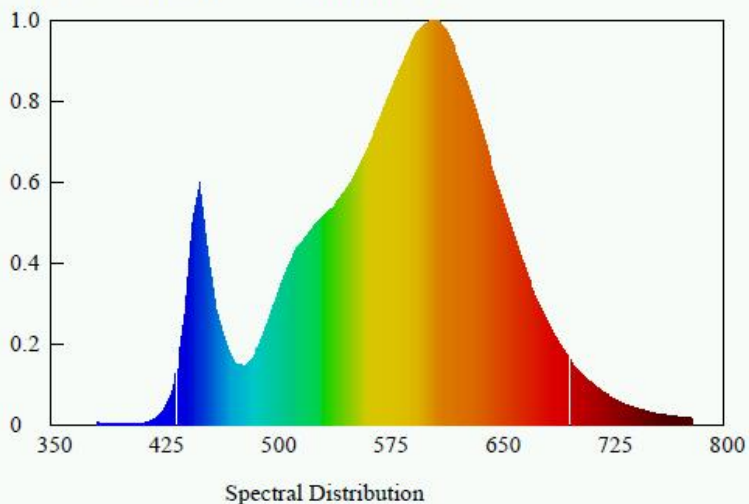
4.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	120.02	60.0	0.1765	0.9800	20.76

Test type	CCT (K)	CRI	Duv	Luminous flux (lm)	Luminous efficacy(lm/W)
Output	2961	83.2	-0.00122	1889.77	91.0

4.2 Spectrum

Spectroradiometric Parameters



Nominal CCT:LED_3000K
x0=0.4338 y0=0.4030

Chromaticity Coordinates: $x=0.4380$ $y=0.4014$ $u'=0.2524$ $v'=0.5205$

Correlated Color Temperature: 2961 K

Dominant Wavelength: 582.0 nm(E)

Colour Fidelity Index: $R_f=82$

Gamut Index: $R_g=97$

Luminous Flux: 1889.77 lm

Purity: 0.5213

Chromaticity Difference: -0.00122Duv

Peak Wavelength: 605.0 nm

Color Ratio: $K_r=45.3\%$ $K_g=47.6\%$ $K_b=7.1\%$

Bandwidth: 128.8nm

Radiant Flux: 5.825 W

Photosynthetically Active Radiation(PAR): 5.66W

Photosynthetic Photon Flux(PPF):27.52 μ mol/s

Rendering Index: $R_a=83.2$

$R_1=82$ $R_2=91$ $R_3=97$ $R_4=82$ $R_5=82$ $R_6=89$ $R_7=83$ $R_8=60$

$R_9=10$ $R_{10}=79$ $R_{11}=82$ $R_{12}=71$ $R_{13}=85$ $R_{14}=99$ $R_{15}=75$ $R_e=78$



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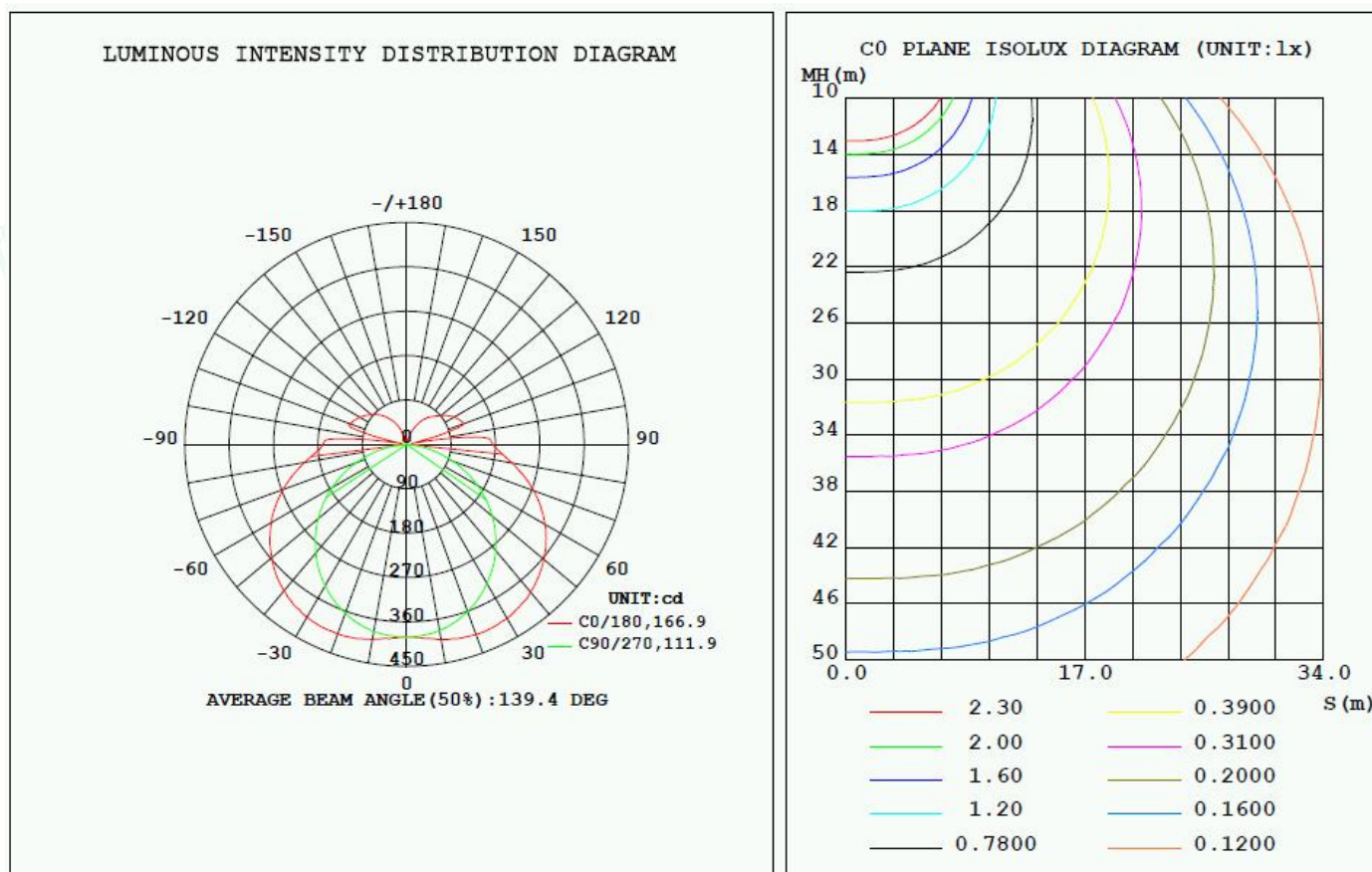
5. Goniophotometer Test results

5.1 Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	120.12	60.01	0.1751	0.9795	20.603

Test type	Total Flux (lm)	Luminous efficacy(lm/W)	Imax (cd)	Spacing Criteria (0~180°)	Spacing Criteria (90~270°)
Output	1904.04	92.41	411.2	1.55	1.26

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





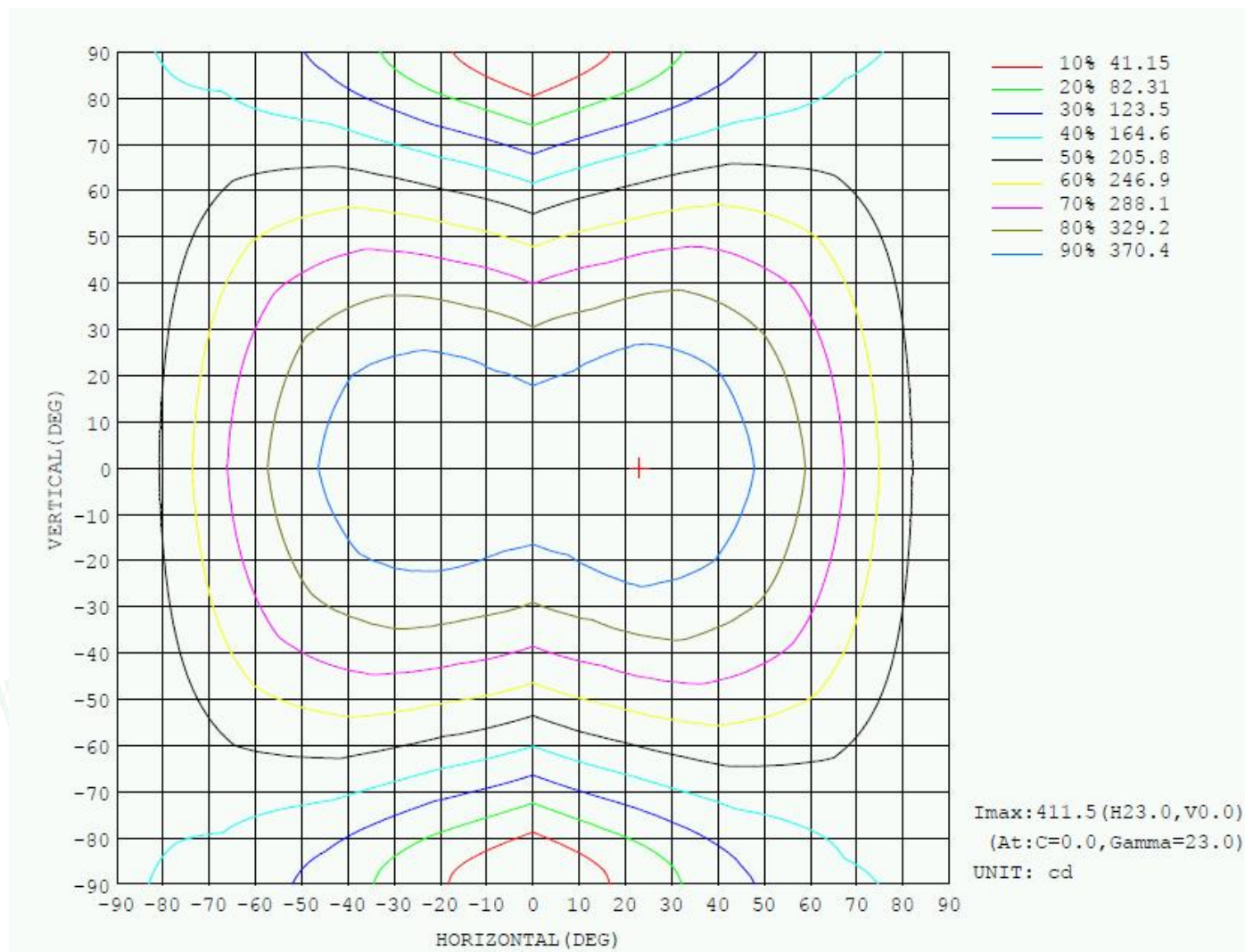
5.3 Zonal Flux Diagram

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	η lum, lamp
10	401.3	393.4	383.1	390.6	401.2	394.1	384.8	394.9	0- 10	37.43	37.43	1.97,1.97
20	410.2	391.9	360.5	386.1	409.0	391.2	363.9	394.6	10- 20	111.0	148.4	7.79,7.79
30	407.4	379.0	325.6	370.8	404.2	378.7	331.2	383.3	20- 30	176.4	324.8	17.1,17.1
40	390.9	353.5	280.8	344.6	387.1	354.2	286.9	358.4	30- 40	225.7	550.6	28.9,28.9
50	362.7	317.0	226.7	307.8	357.3	318.2	234.7	322.8	40- 50	252.8	803.4	42.2,42.2
60	323.7	269.8	165.7	261.3	317.1	272.3	174.4	275.6	50- 60	254.1	1058	55.5,55.5
70	273.8	213.7	98.97	206.2	266.9	217.4	109.4	220.0	60- 70	229.2	1287	67.6,67.6
80	216.9	155.0	33.59	147.4	210.4	157.8	43.72	159.6	70- 80	182.2	1469	77.2,77.2
90	174.8	118.1	0.5538	110.3	169.9	115.5	0.0775	116.8	80- 90	129.9	1599	84,84
100	39.43	3.625	0.2372	13.98	10.68	25.74	0.5534	27.11	90-100	71.91	1671	87.8,87.8
110	123.7	73.31	0.2372	70.62	122.4	72.70	0.7115	71.41	100-110	49.20	1720	90.3,90.3
120	110.7	69.04	0.2372	66.55	109.9	69.46	0.7906	67.61	110-120	64.61	1785	93.7,93.7
130	91.13	58.47	0.3179	58.69	94.04	60.23	0.9498	57.90	120-130	51.69	1836	96.4,96.4
140	72.65	46.01	0.5534	45.52	75.69	47.71	1.187	42.84	130-140	35.71	1872	98.3,98.3
150	51.40	30.09	0.8696	25.12	53.22	34.56	1.978	24.05	140-150	21.23	1893	99.4,99.4
160	26.91	1.096	1.186	13.97	1.373	3.051	2.767	10.09	150-160	8.425	1902	99.9,99.9
170	10.17	4.876	1.423	5.733	9.517	8.265	1.818	2.388	160-170	2.007	1904	100,100
180	1.086	1.644	1.660	1.390	1.230	1.488	1.897	1.542	170-180	0.3460	1904	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		





5.4 Isocandela Diagram





5.5 Luminous Distribution Intensity Data

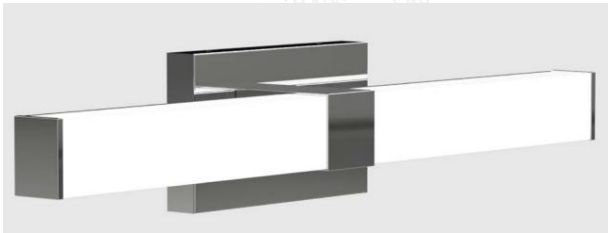
Table--1																	UNIT: cd		
C (DEG) y (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391	391			
5	395	394	393	389	388	388	390	392	395	394	393	391	389	390	393	394			
10	401	399	393	386	383	385	391	396	401	400	394	389	385	388	395	400			
15	407	403	395	379	374	379	390	400	407	403	394	383	376	383	396	405			
20	410	404	392	371	361	370	386	401	409	405	391	376	364	375	395	407			
25	410	403	387	359	345	358	380	399	408	402	387	366	349	365	390	406			
30	407	399	379	345	326	344	371	393	404	398	379	352	331	351	383	402			
35	401	390	368	328	304	327	359	385	398	390	368	336	310	335	372	394			
40	391	379	354	310	281	308	345	374	387	379	354	317	287	316	358	383			
45	379	365	337	289	254	286	327	360	375	365	338	296	262	296	342	369			
50	363	349	317	266	227	261	308	342	357	348	318	273	235	273	323	352			
55	345	329	294	241	197	234	285	323	339	329	296	247	205	248	300	332			
60	324	308	270	213	166	206	261	300	317	306	272	219	174	221	276	311			
65	300	283	243	183	133	176	234	276	294	282	246	189	142	192	249	285			
70	274	256	214	152	99.0	145	206	249	267	255	217	158	109	161	220	259			
75	246	228	184	121	65.4	114	176	221	239	227	188	126	76.0	130	189	229			
80	217	199	155	90.3	33.6	84.3	147	192	210	197	158	95.8	43.7	98.5	160	201			
85	191	174	131	65.8	8.88	60.5	123	167	185	172	131	69.0	15.9	71.3	133	175			
90	175	160	118	55.6	0.55	50.6	110	153	170	155	115	53.3	0.08	55.2	117	159			
95	159	143	92.5	16.0	0.32	13.6	62.9	122	138	116	53.3	6.63	0.32	5.86	62.4	130			
100	39.4	25.4	3.62	23.3	0.24	21.9	14.0	6.80	10.7	4.24	25.7	27.0	0.55	31.1	27.1	13.5			
105	50.2	50.7	64.2	29.9	0.24	26.0	65.7	82.2	85.0	91.0	69.7	27.0	0.55	30.8	71.2	73.6			
110	124	102	73.3	31.9	0.24	27.4	70.6	103	122	105	72.7	27.5	0.71	29.3	71.4	105			
115	118	100	73.9	33.6	0.24	28.7	70.5	99.0	117	101	73.1	27.6	0.79	29.8	71.6	101			
120	111	97.2	69.0	32.4	0.24	27.1	66.6	94.9	110	95.8	69.5	26.4	0.79	28.4	67.6	97.1			
125	102	91.1	64.2	28.0	0.24	23.7	62.8	89.3	103	90.5	65.0	23.2	0.79	25.3	62.6	91.0			
130	91.1	82.0	58.5	23.6	0.32	19.9	58.7	82.9	94.0	83.9	60.2	19.4	0.95	22.0	57.9	84.5			
135	81.3	73.9	52.4	20.2	0.40	2.26	52.6	75.9	85.4	76.7	54.6	2.84	1.19	18.7	51.6	76.7			
140	72.7	65.9	46.0	14.2	0.55	2.36	45.5	68.1	75.7	68.9	47.7	1.09	1.19	1.16	42.8	66.9			
145	63.1	56.4	38.1	1.25	0.87	12.5	37.4	57.9	65.2	59.7	41.2	12.0	1.58	3.54	33.5	55.7			
150	51.4	45.5	30.1	9.12	0.87	10.0	25.1	46.5	53.2	49.3	34.6	13.3	1.98	6.27	24.0	42.8			
155	38.6	34.2	18.9	8.56	0.87	7.22	1.23	34.7	40.2	38.1	3.39	13.7	2.77	3.79	1.16	29.4			
160	26.9	20.5	1.10	6.38	1.19	5.36	14.0	1.00	1.37	1.00	3.05	12.0	2.77	1.86	10.1	1.07			
165	1.15	4.14	10.8	3.90	1.26	4.03	9.95	14.9	17.1	17.1	14.8	8.46	2.52	1.63	4.24	11.5			
170	10.2	9.60	4.88	3.42	1.42	2.49	5.73	9.24	9.52	9.71	8.27	4.80	1.82	1.63	2.39	5.12			
175	4.01	3.02	3.06	2.50	1.66	1.78	2.55	3.70	3.45	3.46	2.72	1.71	1.82	1.63	1.54	1.91			
180	1.09	1.40	1.64	2.02	1.66	1.55	1.39	1.31	1.23	1.31	1.49	1.48	1.90	1.63	1.54	1.23			





6. Photo of sample

Photo document



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



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