

Luminaire Photograph



Light Output Ratio:	71.8%	
Luminaire Power:	15.43 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: ZHONGWENHUI
Test Date: 2018-01-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity: 65%
Test Distance: 2.990m [K=1.0000]
Remarks: LAMP: CLU028-1202C4-303H5M3-F1 Ra: 90
DRIVER: RMS-15-350AS 350mA
LENS: PM-1043A 20R
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

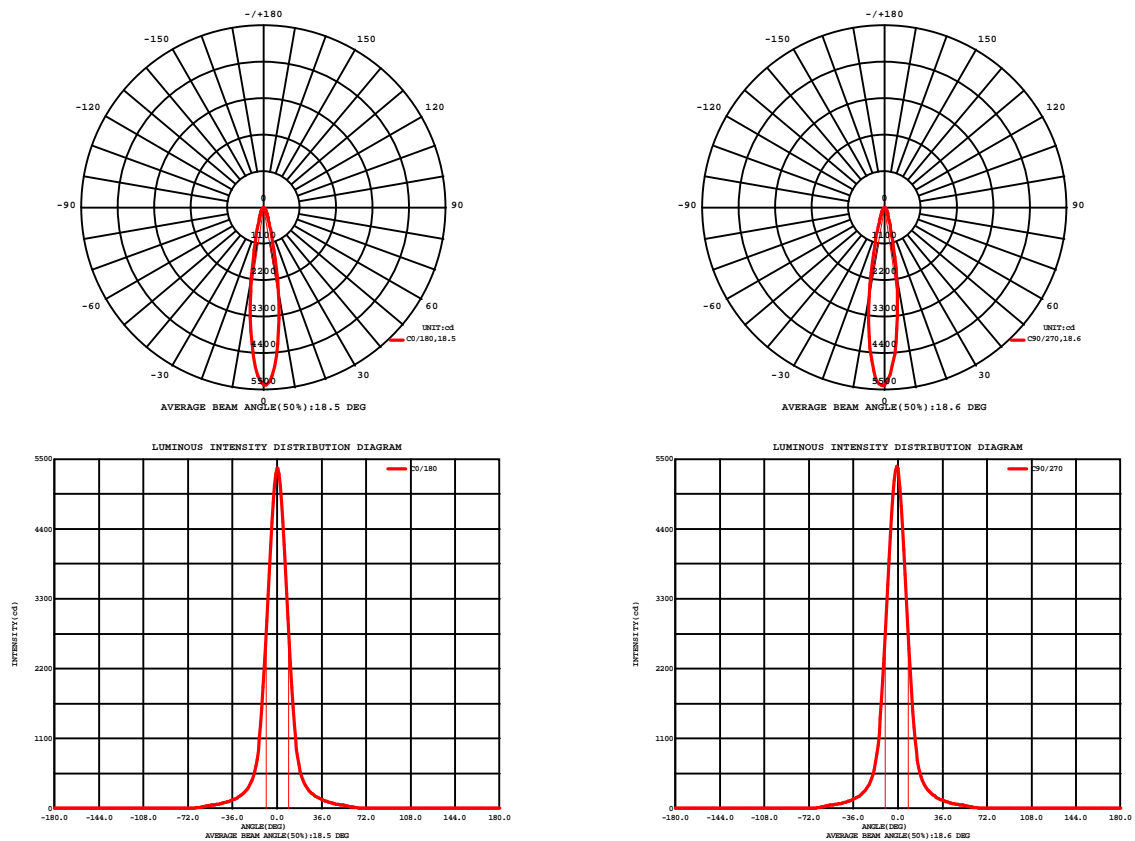


Fig. C0/C180

Fig. C90/C270

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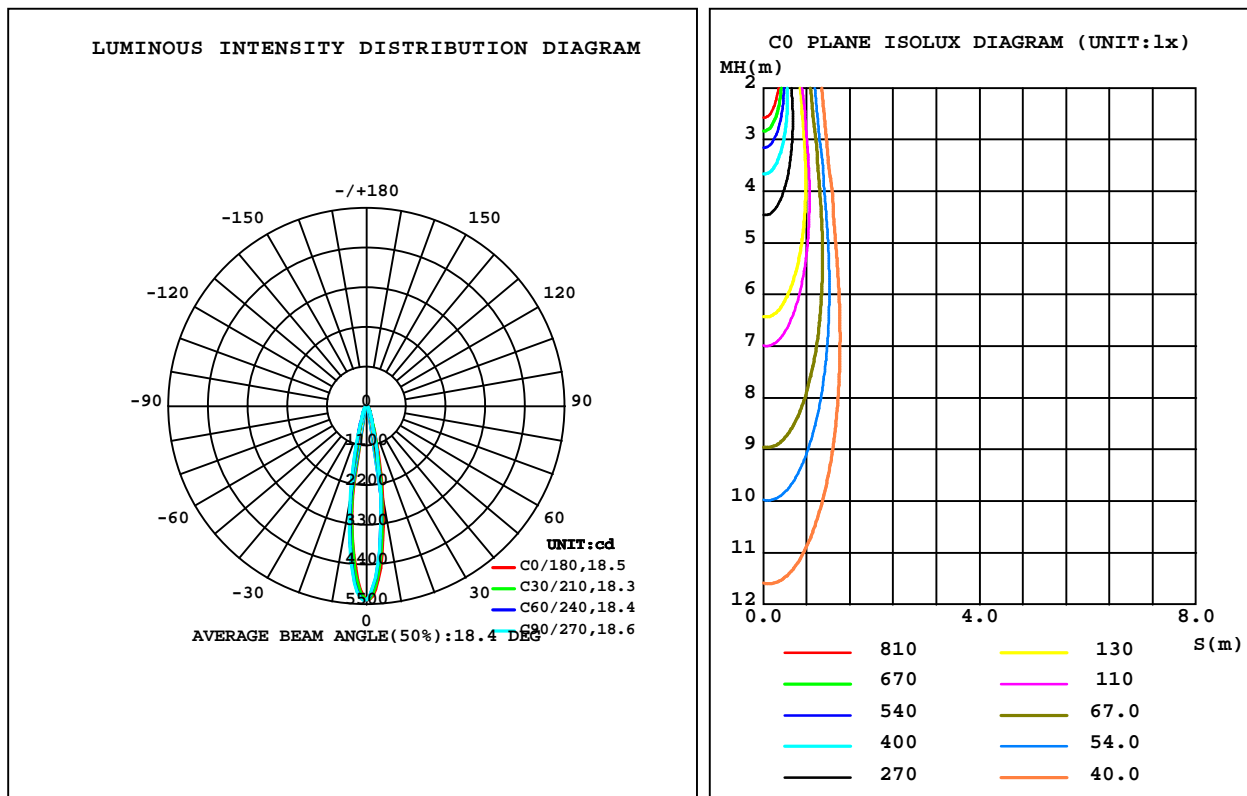


RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.78V I:0.0750A P:15.432W PF:0.9368 Freq:49.99Hz Lamp Flux:1406.16x1 lm		
NAME: 1719.218-AM-WHS-BFCTF06	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1801220249
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.46 lm/W			
MODEL	CITIZEN	I _{max} (cd)	5380	S/MH(C0/180)	0.30
NOMINAL POWER(W)	15	LOR(%)	71.8	S/MH(C90/270)	0.35
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1010.2	h UP,DN(C0-180)	0.2,34.2
NOMINAL FLUX(lm)	1406.16	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.2,37.3
LAMPS INSIDE	1	h up(%)	0.4	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	h down(%)	71.5	CIBSE SHR MAX	1.00



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Test Speed: HIGH
Temperature:25DEG
Operators:ZHONGWENHUI
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g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:CLU028-1202C4-303H5M3-F1 Ra:90
DRIVER:RMS-15-350AS 350mA
LENS:PM-1043A 20R
30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	2597	2273	2186	2231	2241	2463	2736	2724	0- 10	350.0	350.0	34.6,24.9
20	513.7	468.8	441.6	456.9	451.3	496.4	543.7	555.3	10- 20	308.0	658.0	65.1,46.8
30	210.8	198.3	193.1	190.5	195.3	202.0	214.1	213.6	20- 30	139.5	797.6	78.9,56.7
40	110.9	103.2	102.0	102.9	103.3	105.8	112.5	113.7	30- 40	92.28	889.9	88.1,63.3
50	62.77	59.06	59.16	60.26	59.94	61.05	64.49	65.41	40- 50	62.19	952.0	94.2,67.7
60	26.78	23.28	22.94	24.48	24.83	26.19	28.81	28.47	50- 60	40.08	992.1	98.2,70.6
70	2.323	1.962	1.990	2.176	2.160	2.257	2.645	2.347	60- 70	11.74	1004	99.4,71.4
80	0.3721	0.3611	0.3872	0.3826	0.3331	0.3607	0.4126	0.3662	70- 80	1.247	1005	99.5,71.5
90	0.0253	0.0135	0.0270	0.0143	0.0115	0.0129	0.0255	0.0141	80- 90	0.1712	1005	99.5,71.5
100	0.0491	0.0448	0.0559	0.0475	0.0427	0.0351	0.0369	0.0352	90-100	0.0265	1005	99.5,71.5
110	0.1369	0.1351	0.1460	0.1438	0.1266	0.1111	0.1106	0.1135	100-110	0.0835	1005	99.5,71.5
120	0.2737	0.2725	0.2872	0.2827	0.2457	0.2248	0.2312	0.2338	110-120	0.1880	1006	99.5,71.5
130	0.4474	0.4539	0.4885	0.4682	0.4105	0.3790	0.3833	0.3882	120-130	0.2966	1006	99.6,71.5
140	0.8722	0.9363	1.027	1.000	0.7923	0.7282	0.7238	0.7356	130-140	0.4569	1006	99.6,71.6
150	2.530	2.672	2.883	2.811	2.348	2.056	2.057	2.079	140-150	0.9174	1007	99.7,71.6
160	4.933	4.790	5.262	4.488	4.327	3.881	4.439	4.141	150-160	1.639	1009	99.9,71.7
170	3.762	3.104	3.033	2.673	2.788	2.420	2.711	2.835	160-170	1.127	1010	100,71.8
180	1.989	1.911	1.867	1.875	1.990	1.912	1.870	1.874	170-180	0.2228	1010	100,71.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

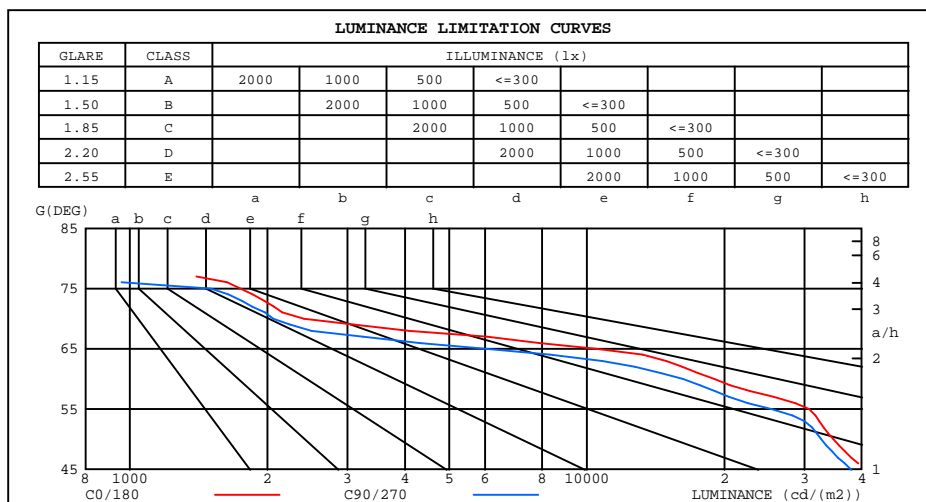
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:ZHONGWENHUI
Test Date:2018-01-22

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:CLU028-1202C4-303H5M3-F1 Ra:90
DRIVER:RMS-15-350AS 350mA
LENS:PM-1043A 20R
30minutes warm-up

RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

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SPEC.:3000K	DIM.:	SERIAL No.:1801220249
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	602	490
80	760	789
75	1751	1510
70	2410	2059
65	10504	6036
60	19005	16233
55	30629	25376
50	34646	32568
45	41059	37975

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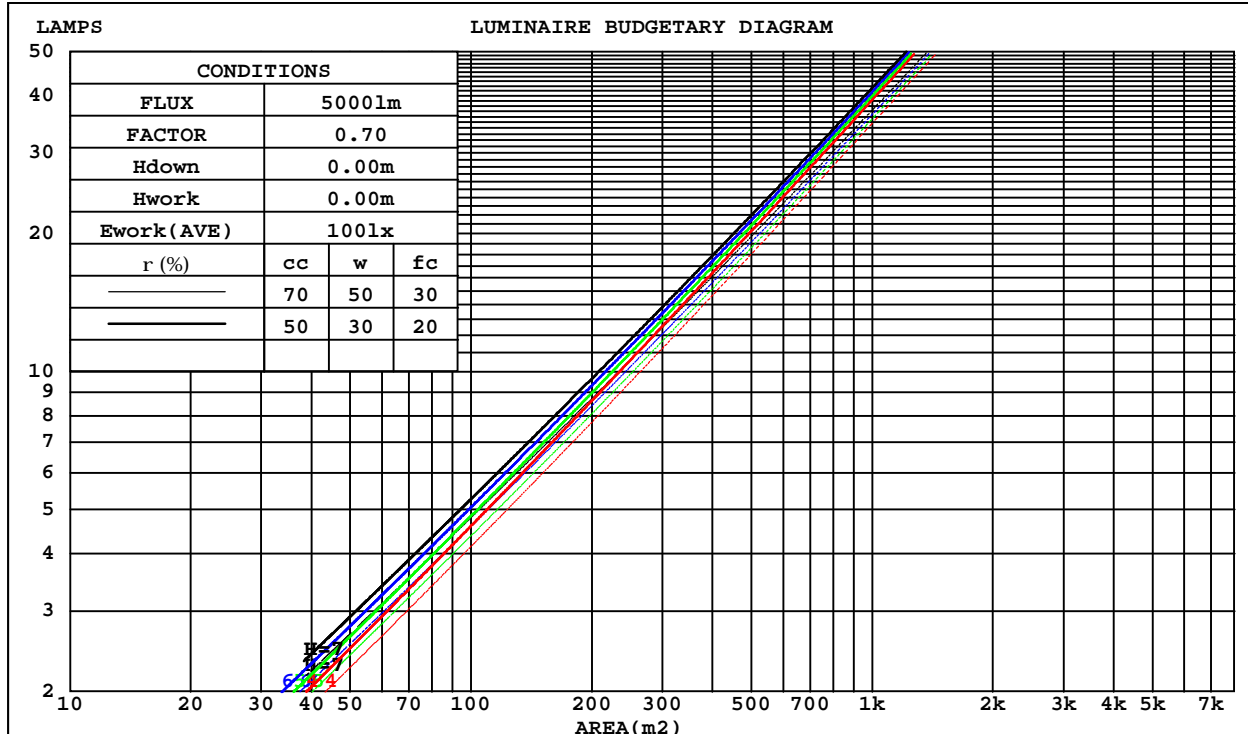


RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:1801220249
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
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RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:1801220249
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.113	.064	.020	.108	.062	.020	.099	.057	.018	.091	.052	.017	.083	.048	.015	
2.0	.107	.059	.018	.103	.057	.018	.095	.053	.016	.088	.050	.016	.082	.046	.015	
3.0	.101	.054	.016	.097	.052	.016	.091	.049	.015	.085	.047	.014	.079	.044	.014	
4.0	.095	.049	.015	.092	.048	.014	.086	.046	.014	.081	.044	.013	.077	.042	.013	
5.0	.089	.046	.013	.087	.045	.013	.082	.043	.013	.078	.041	.012	.074	.039	.012	
6.0	.084	.042	.012	.082	.042	.012	.078	.040	.012	.074	.039	.011	.071	.037	.011	
7.0	.080	.040	.011	.078	.039	.011	.074	.038	.011	.071	.036	.011	.068	.035	.010	
8.0	.076	.037	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	.065	.033	.010	
9.0	.072	.035	.010	.071	.034	.010	.068	.033	.009	.065	.033	.009	.062	.032	.009	
10.0	.069	.033	.009	.067	.033	.009	.065	.032	.009	.062	.031	.009	.060	.030	.009	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.140	.140	.140	.119	.119	.119	.081	.081	.081	.047	.047	.047	.015	.015	.015	
1.0	.125	.116	.108	.107	.099	.093	.073	.068	.064	.042	.040	.037	.013	.013	.012	
2.0	.113	.098	.086	.097	.084	.074	.066	.058	.052	.038	.034	.030	.012	.011	.010	
3.0	.103	.084	.069	.088	.073	.060	.061	.050	.042	.035	.029	.025	.011	.010	.008	
4.0	.095	.073	.057	.081	.063	.050	.056	.044	.035	.032	.026	.021	.010	.008	.007	
5.0	.088	.065	.048	.075	.056	.042	.052	.039	.029	.030	.023	.017	.010	.008	.006	
6.0	.082	.058	.041	.070	.050	.036	.048	.035	.025	.028	.021	.015	.009	.007	.005	
7.0	.076	.052	.035	.066	.045	.031	.045	.032	.022	.026	.019	.013	.009	.006	.004	
8.0	.072	.047	.031	.062	.041	.027	.043	.029	.019	.025	.017	.011	.008	.006	.004	
9.0	.068	.043	.027	.058	.038	.024	.040	.027	.017	.024	.016	.010	.008	.005	.003	
10.0	.064	.040	.024	.055	.035	.021	.038	.024	.015	.022	.014	.009	.007	.005	.003	

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30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:1801220249		
MFR.: RISE					SUR.:0.002826m2			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	18.8	19.6	19.0	19.7	19.9	18.2	19.0	18.4	19.2	19.3
3H	18.7	19.5	19.0	19.7	19.9	18.1	18.8	18.4	19.0	19.2
4H	18.6	19.3	18.9	19.6	19.8	18.0	18.7	18.3	18.9	19.2
6H	18.6	19.2	18.9	19.5	19.7	17.9	18.6	18.2	18.8	19.1
8H	18.5	19.1	18.8	19.4	19.7	17.9	18.5	18.2	18.8	19.0
12H	18.5	19.1	18.8	19.3	19.6	17.8	18.4	18.2	18.7	19.0
4H 2H	18.8	19.5	19.0	19.7	19.9	18.2	18.9	18.5	19.1	19.4
3H	18.7	19.3	19.0	19.6	19.8	18.1	18.7	18.4	19.0	19.3
4H	18.6	19.1	18.9	19.5	19.8	18.0	18.6	18.4	18.9	19.2
6H	18.5	19.0	18.9	19.3	19.7	17.9	18.4	18.3	18.7	19.1
8H	18.4	18.9	18.8	19.3	19.6	17.9	18.3	18.3	18.7	19.0
12H	18.4	18.8	18.8	19.2	19.6	17.8	18.2	18.2	18.6	19.0
8H 4H	18.4	18.9	18.8	19.3	19.6	17.9	18.3	18.3	18.7	19.0
6H	18.3	18.7	18.8	19.1	19.5	17.8	18.1	18.2	18.5	19.0
8H	18.3	18.6	18.7	19.0	19.5	17.7	18.0	18.2	18.5	18.9
12H	18.2	18.5	18.7	19.0	19.4	17.6	17.9	18.1	18.4	18.9
12H 4H	18.4	18.8	18.8	19.2	19.6	17.8	18.2	18.2	18.6	19.0
6H	18.3	18.6	18.7	19.0	19.5	17.7	18.0	18.2	18.5	18.9
8H	18.2	18.5	18.7	19.0	19.4	17.6	17.9	18.1	18.4	18.9
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.7					+ 1.3 / - 2.2				
1.5H	+ 1.1 / - 1.4					+ 0.8 / - 1.1				
2.0H	+ 2.0 / - 3.8					+ 2.2 / - 5.6				

CIE Pub.117, 1406 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.2$)

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30minutes warm-up



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UTILIZATION FACTORS TABLE

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SPEC.:3000K	DIM.:	SERIAL No.:1801220249
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

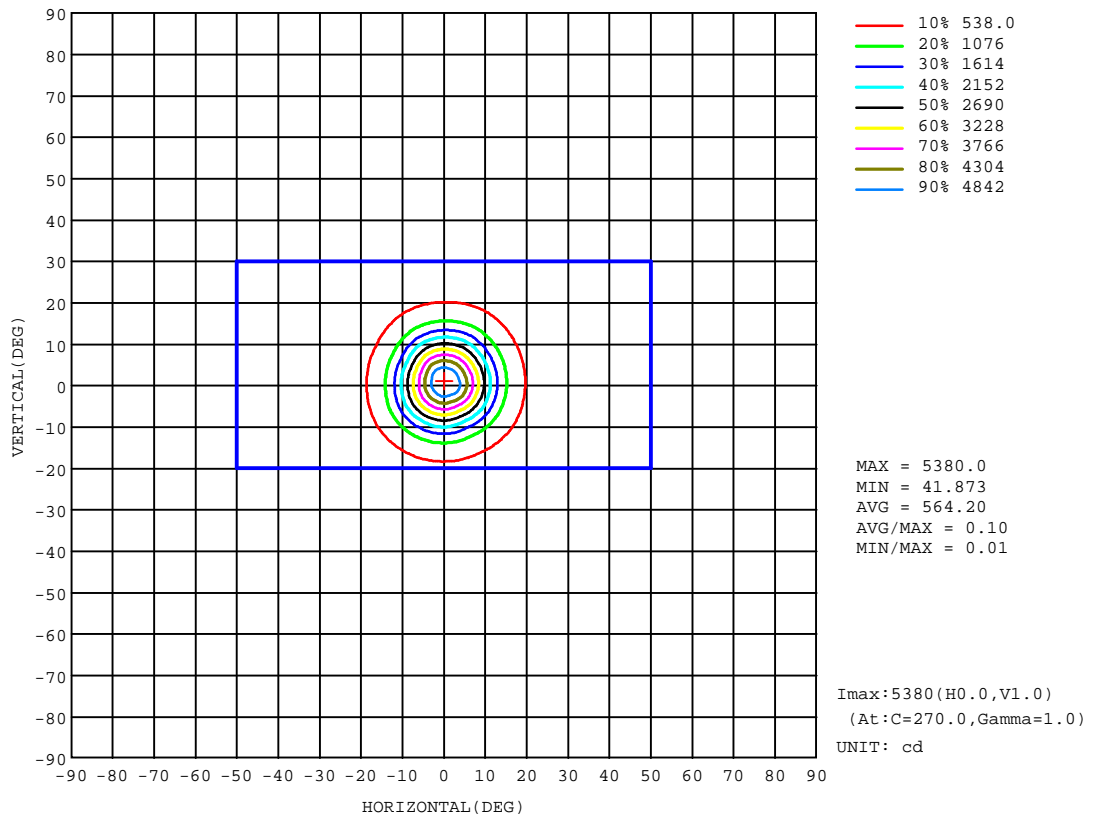
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	55	52	60	55	52	59	55	52	49
0.80	66	61	58	65	61	58	65	61	58	55
1.00	70	65	62	69	65	62	68	65	62	59
1.25	73	69	66	72	68	66	71	67	65	62
1.50	75	71	69	74	71	68	72	70	67	64
2.00	77	74	72	76	73	71	74	72	70	66
2.50	79	76	73	77	75	73	75	73	71	67
3.00	80	77	75	78	76	74	76	74	73	68
4.00	81	79	77	80	78	76	77	76	74	69
5.00	82	80	79	81	79	78	78	77	76	70
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

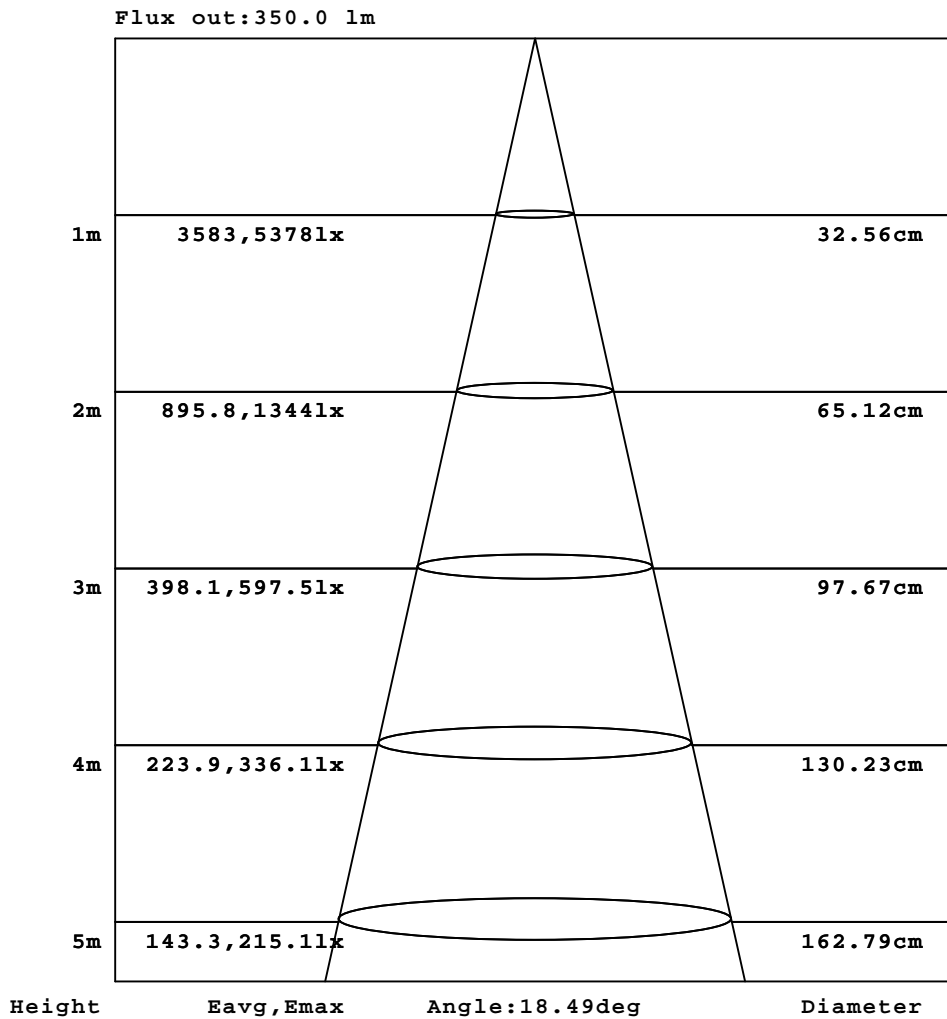


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AAI Figure

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SPEC.:3000K	DIM.:	SERIAL No.:1801220249
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: ZHONGWENHUI
 Test Date: 2018-01-22

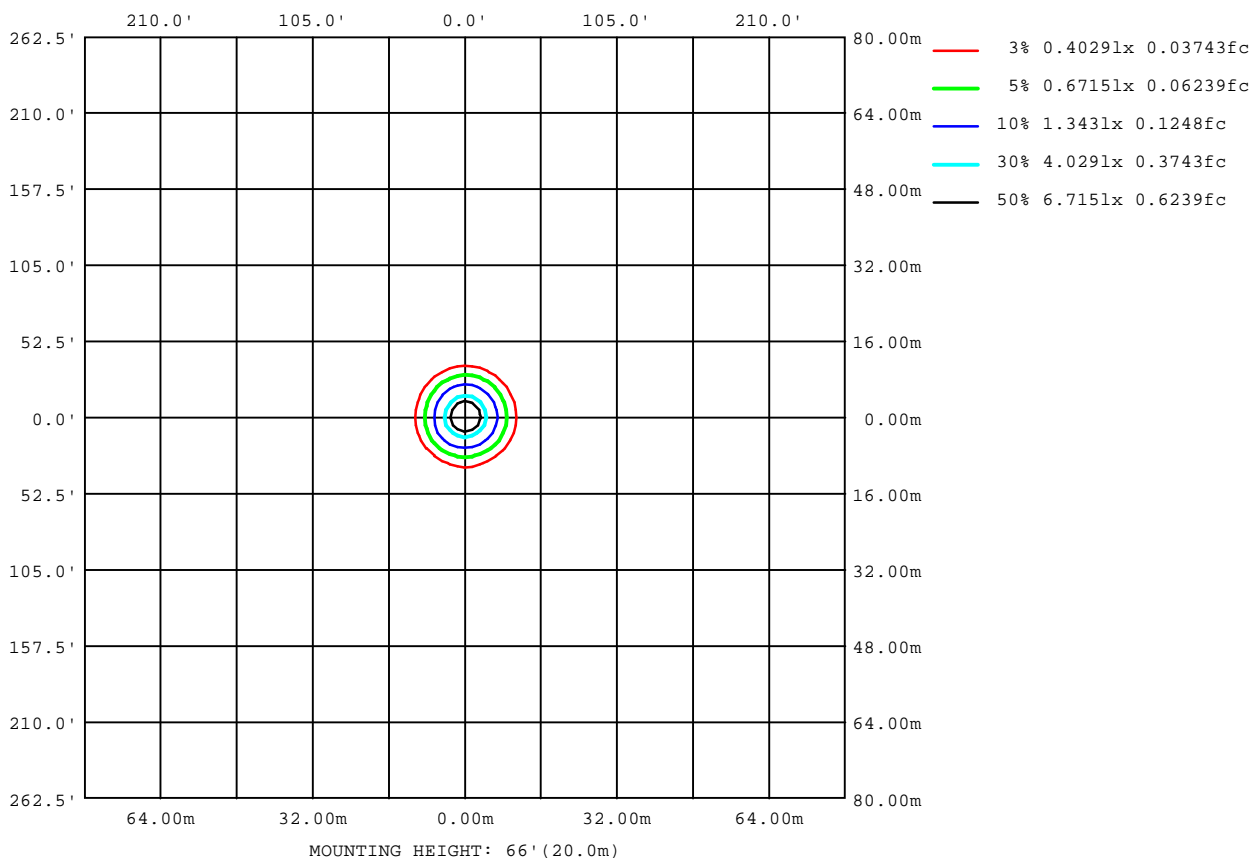
g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity: 65%
 Test Distance: 2.990m [K=1.0000]
 Remarks: LAMP: CLU028-1202C4-303H5M3-F1 Ra:90
 DRIVER: RMS-15-350AS 350mA
 LENS: PM-1043A 20R
 30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:219.78V I:0.0750A P:15.432W PF:0.9368 Freq:49.99Hz Lamp Flux:1406.16x1 lm		
NAME: 1719.218-AM-WHS-BFCTF06	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1801220249
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:ZHONGWENHUI
Test Date:2018-01-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:CLU028-1202C4-303H5M3-F1 Ra:90
DRIVER:RMS-15-350AS 350mA
LENS:PM-1043A 20R
30minutes warm-up

LED Avg.L Report

Test:U:219.78V I:0.0750A P:15.432W PF:0.9368 Freq:49.99Hz Lamp Flux:1406.16x1 lm		
NAME: 1719.218-AM-WHS-BFCTF06	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1801220249
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

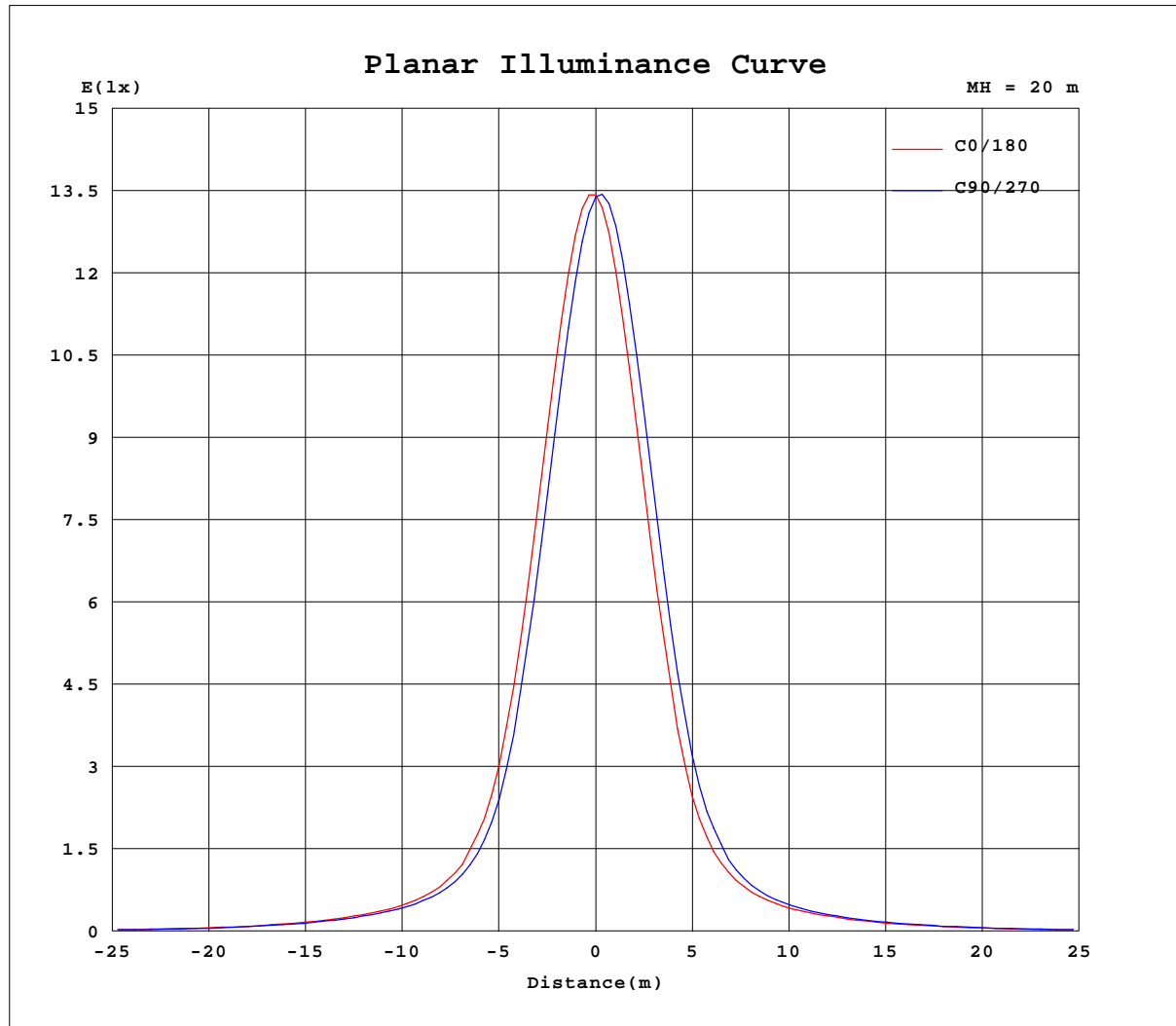
AvgL	cd/m2
L_0~180(65)av	9901
L_0~180(75)av	1711
L_0~180(85)av	546
L_90~270(65)av	8553
L_90~270(75)av	1739
L_90~270(85)av	629
L_45(65)av	9198
L_45(75)av	1692
L_45(85)av	524

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:ZHONGWENHUI
Test Date:2018-01-22

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:CLU028-1202C4-303H5M3-F1 Ra:90
DRIVER:RMS-15-350AS 350mA
LENS:PM-1043A 20R
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: ZHONGWENHUI
 Test Date: 2018-01-22

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity: 65%
 Test Distance: 2.990m [K=1.0000]
 Remarks: LAMP: CLU028-1202C4-303H5M3-F1 Ra:90
 DRIVER: RMS-15-350AS 350mA
 LENS: PM-1043A 20R
 30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.78V I:0.0750A P:15.432W PF:0.9368 Freq:49.99Hz Lamp Flux:1406.16x1 lm		
NAME: 1719.218-AM-WHS-BFCTF06	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1801220249
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

Table--1

UNIT: cd

C(°) g (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	5358	5358	5358	5358	5358	5358	5358	5358	5358	5358	5358	5358						
5	4508	4348	4091	4075	4074	4132	4134	4260	4558	4626	4641	4553						
10	2597	2404	2141	2186	2184	2277	2241	2305	2622	2736	2774	2674						
15	1107	1031	891	891	914	947	913	960	1131	1181	1250	1175						
20	514	494	444	442	450	464	451	464	529	544	570	540						
25	307	293	273	274	270	278	276	278	305	314	322	313						
30	211	204	192	193	189	192	195	195	209	214	216	211						
35	154	147	139	141	138	141	141	140	149	155	156	154						
40	111	106	100	102	102	104	103	103	109	112	115	112						
45	81.8	77.9	74.8	75.9	76.4	78.0	76.9	76.8	80.8	84.0	85.2	84.0						
50	62.8	60.0	58.1	59.2	59.7	60.8	59.9	59.7	62.4	64.5	66.0	64.8						
55	49.5	45.6	40.1	41.1	44.3	47.3	46.7	46.7	49.3	50.7	52.3	51.0						
60	26.8	24.4	22.1	22.9	23.7	25.3	24.8	25.2	27.2	28.8	29.2	27.8						
65	12.5	10.4	7.42	7.21	9.19	10.9	11.1	11.3	12.8	13.2	13.3	12.5						
70	2.32	2.02	1.91	1.99	2.23	2.12	2.16	2.11	2.40	2.64	2.52	2.17						
75	1.28	1.14	1.06	1.10	1.30	1.25	1.23	1.21	1.38	1.44	1.38	1.20						
80	0.37	0.36	0.36	0.39	0.39	0.38	0.33	0.33	0.39	0.41	0.39	0.35						
85	0.15	0.12	0.10	0.12	0.12	0.12	0.12	0.12	0.16	0.19	0.16	0.14						
90	0.03	0.01	0.01	0.03	0.02	0.01	0.01	0.01	0.01	0.03	0.01	0.02						
95	0.03	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.01	0.02	0.01	0.02						
100	0.05	0.04	0.05	0.06	0.05	0.05	0.04	0.04	0.03	0.04	0.03	0.04						
105	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.07	0.06	0.07	0.07	0.07						
110	0.14	0.13	0.14	0.15	0.15	0.14	0.13	0.11	0.11	0.11	0.11	0.12						
115	0.20	0.20	0.21	0.22	0.22	0.21	0.18	0.17	0.16	0.17	0.17	0.18						
120	0.27	0.27	0.28	0.29	0.29	0.28	0.25	0.23	0.22	0.23	0.23	0.24						
125	0.35	0.34	0.36	0.37	0.37	0.36	0.32	0.30	0.28	0.29	0.29	0.31						
130	0.45	0.43	0.47	0.49	0.48	0.46	0.41	0.39	0.37	0.38	0.38	0.40						
135	0.59	0.59	0.65	0.67	0.66	0.63	0.54	0.52	0.50	0.50	0.51	0.53						
140	0.87	0.88	0.99	1.03	1.02	0.98	0.79	0.75	0.71	0.72	0.73	0.75						
145	1.47	1.50	1.66	1.74	1.71	1.68	1.33	1.23	1.13	1.18	1.17	1.21						
150	2.53	2.56	2.79	2.88	2.84	2.78	2.35	2.12	1.99	2.06	2.05	2.11						
155	3.92	3.86	4.14	4.29	4.11	3.89	3.63	3.19	3.23	3.38	3.30	3.33						
160	4.93	4.65	4.93	5.26	4.70	4.27	4.33	3.70	4.06	4.44	4.11	4.18						
165	4.65	4.19	4.48	4.72	4.16	3.48	3.73	3.14	3.74	4.12	3.82	3.90						
170	3.76	3.32	2.89	3.03	2.67	2.68	2.79	2.40	2.44	2.71	2.61	3.06						
175	2.71	2.51	2.06	1.89	1.96	2.02	2.01	1.85	1.83	1.74	1.88	2.28						
180	1.99	1.94	1.88	1.87	1.83	1.92	1.99	1.94	1.88	1.87	1.83	1.92						

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