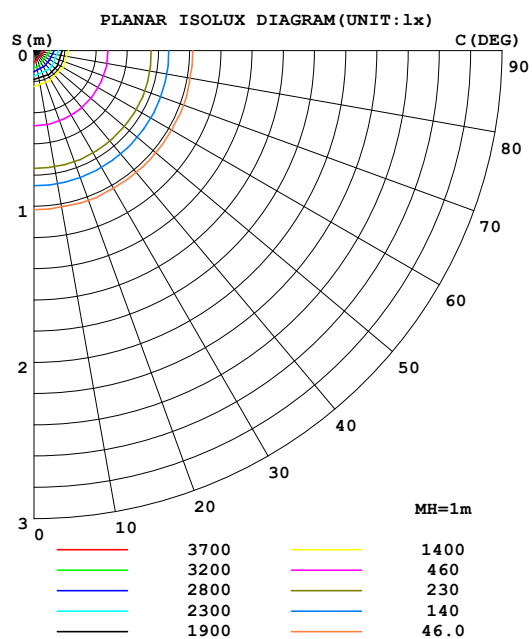
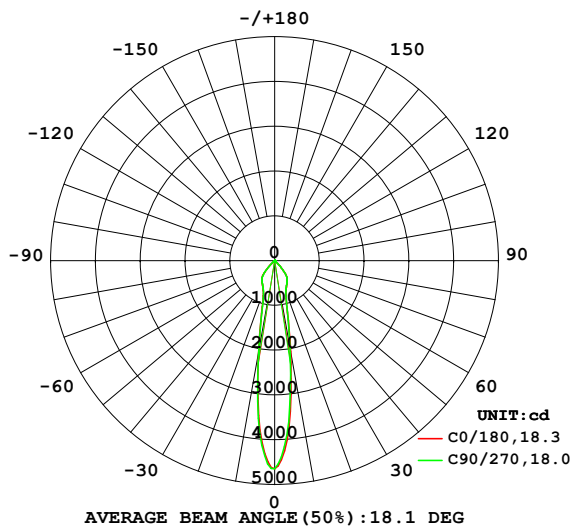


## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.5V I:0.0550A P:12.5W PF:0.9484 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.05% KDisp:0.9662		Lamp Flux:1365.01x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 2700K RA90 15D	13WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 108.80 lm/W
MODEL		Imax (cd)	4645	S/MH (C0/180)	0.32	
NOMINAL POWER(W)	13	LOR (%)	100.0	S/MH (C90/270)	0.32	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1365.0	$\eta$ UP,DN (C0-180)	0.0,49.5	
NOMINAL FLUX(lm)	1365.01	CIE CLASS	DIRECT	$\eta$ UP,DN (C180-360)	0.0,50.5	
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	240.4	$\eta$ down (%)	100.0	CIBSE SHR MAX	0.30	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	2059	2020	1990	2067	2083	2144	2084	2034	0- 10	299.2	299.2	21.9,21.9
20	748.7	744.3	740.9	750.2	748.7	746.7	738.8	737.7	10- 20	318.1	617.4	45.2,45.2
30	555.7	558.8	556.8	560.9	564.5	565.2	564.0	561.7	20- 30	293.3	910.7	66.7,66.7
40	352.4	356.7	353.6	367.3	371.5	370.2	367.1	357.5	30- 40	303.3	1214	88.9,88.9
50	21.99	23.48	23.40	24.80	26.23	26.89	26.32	22.59	40- 50	127.1	1341	98.2,98.2
60	6.943	6.803	6.897	7.122	7.504	7.231	7.347	7.218	50- 60	10.48	1352	99,99
70	5.170	5.054	5.062	5.201	5.500	5.508	5.582	5.243	60- 70	6.046	1358	99.5,99.5
80	4.107	3.771	3.789	3.768	4.033	4.199	4.342	3.946	70- 80	4.851	1362	99.8,99.8
90	0.0458	0.0403	0.0539	0.0364	0.0394	0.0391	0.0458	0.0367	80- 90	2.525	1365	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1309.4 lm

%lum = 95.9%

%lamp = 95.9%

Conical surface Flux(120deg): 1351.6 lm

%lum = 99.0%

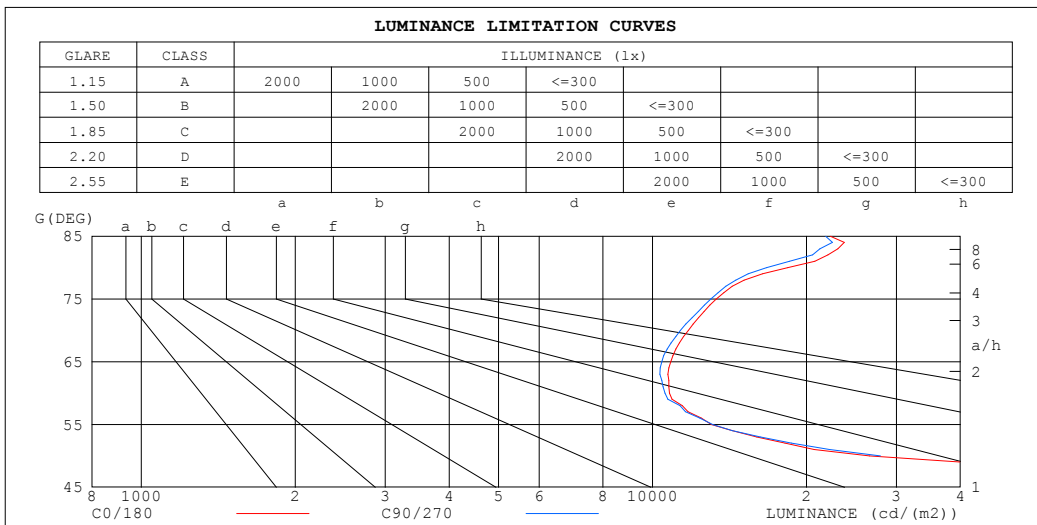
%lamp = 99.0%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-10-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
 Humidity:65.0%  
 Test Distance:3.090m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:240.5V I:0.0550A P:12.5W PF:0.9484 Freq:49.99Hz			Lamp Flux:1365.01x1 lm		
UTHDi:0.17% ITHDi:19.05% KDisp:0.9662					
NAME: FUSION-MD23-AHD-013-COB-02SC 2700K RA90 15D			13WTYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: Norming lighting			SUR.: 41mm		Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	22285	21802
80	18385	16718
75	13331	12993
70	11749	11340
65	10858	10421
60	10793	10570
55	13044	13117
50	26589	27897
45	163217	161055

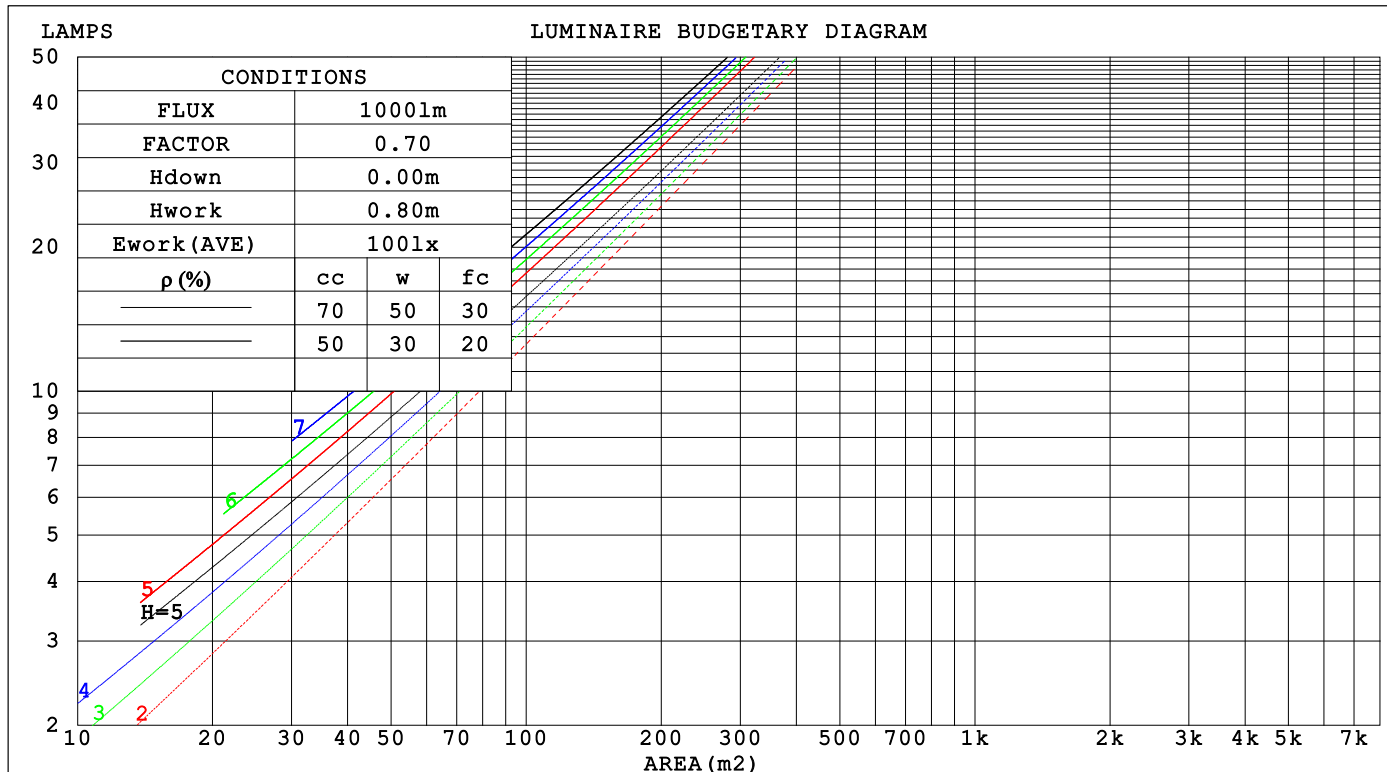
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.5V I:0.0550A P:12.5W PF:0.9484 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.05% KDisp:0.9662		Lamp Flux:1365.01x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 2700K RA90 15D 13WTYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0														
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00														
1.0	1.11	1.08	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.98	.96	.96	.94														
2.0	1.03	.00	.96	1.02	.98	.95	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88														
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.85	.88	.86	.83	.82														
4.0	.91	.85	.81	.90	.85	.81	.88	.83	.80	.86	.82	.79	.84	.81	.78	.77														
5.0	.85	.80	.76	.84	.79	.75	.83	.78	.75	.81	.77	.74	.80	.76	.73	.72														
6.0	.81	.75	.71	.80	.74	.71	.78	.74	.70	.77	.73	.70	.76	.72	.69	.68														
7.0	.76	.71	.67	.76	.70	.66	.74	.70	.66	.73	.69	.66	.72	.68	.65	.64														
8.0	.72	.67	.63	.72	.66	.63	.71	.66	.62	.70	.65	.62	.69	.65	.62	.61														
9.0	.69	.63	.59	.68	.63	.59	.67	.63	.59	.67	.62	.59	.66	.62	.59	.57														
10.0	.66	.60	.57	.65	.60	.56	.64	.60	.56	.64	.59	.56	.63	.59	.56	.55														



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:

### WEC AND CCEC

Test:U:240.5V I:0.0550A P:12.5W PF:0.9484 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.05% KDisp:0.9662 Lamp Flux:1365.01x1 lm		
NAME: FUSION-MD23-AHD-013-COB-02SC 2700K RA90 15D	13W TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.175	.100	.032	.168	.096	.031	.156	.089	.029	.144	.083	.027	.134	.077	.025		
2.0	.167	.091	.028	.161	.089	.027	.151	.084	.026	.141	.079	.025	.132	.075	.024		
3.0	.158	.084	.025	.154	.082	.025	.145	.078	.024	.136	.075	.023	.129	.071	.022		
4.0	.150	.078	.023	.146	.077	.023	.138	.073	.022	.131	.070	.021	.125	.068	.021		
5.0	.143	.073	.021	.139	.071	.021	.133	.069	.020	.126	.067	.020	.120	.064	.019		
6.0	.136	.068	.019	.133	.067	.019	.127	.065	.019	.121	.063	.019	.116	.061	.018		
7.0	.129	.064	.018	.127	.063	.018	.121	.061	.018	.117	.060	.017	.112	.058	.017		
8.0	.124	.060	.017	.121	.060	.017	.116	.058	.017	.112	.057	.016	.108	.055	.016		
9.0	.118	.057	.016	.116	.056	.016	.112	.055	.016	.108	.054	.015	.104	.053	.015		
10.0	.113	.054	.015	.111	.054	.015	.107	.053	.015	.104	.051	.015	.100	.050	.014		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016		
2.0	.156	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013		
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011		
4.0	.132	.099	.073	.114	.085	.063	.078	.059	.045	.045	.035	.026	.015	.011	.009		
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007		
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006		
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005		
8.0	.103	.064	.037	.089	.055	.032	.062	.039	.023	.036	.023	.013	.012	.008	.004		
9.0	.098	.059	.032	.084	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004		
10.0	.093	.054	.028	.080	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003		

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

Test:U:240.5V I:0.0550A P:12.5W PF:0.9484 Freq:49.99Hz UTHDi:0.17% ITHDi:19.05% KDisp:0.9662Lamp Flux:1365.01x1 lm										
NAME: FUSION-MD23-AHD-013-COB-02SC 2700K RA90 15D 13WTYPE:						WEIGHT:				
SPEC.:						DIM.:		SERIAL No.:		
MFR.: Norming lighting						SUR.: 41mm		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	25.9	26.9	26.2	27.0	27.2	25.9	26.8	26.1	27.0	27.1
3H	25.8	26.6	26.0	26.8	27.0	25.7	26.6	26.0	26.8	27.0
4H	25.7	26.5	26.0	26.7	27.0	25.7	26.5	26.0	26.7	26.9
6H	25.7	26.4	26.0	26.7	26.9	25.6	26.4	25.9	26.6	26.9
8H	25.7	26.4	26.0	26.6	26.9	25.6	26.3	25.9	26.6	26.8
12H	25.6	26.3	26.0	26.6	26.9	25.6	26.3	25.9	26.5	26.8
4H 2H	25.7	26.5	26.0	26.7	26.9	25.6	26.4	25.9	26.7	26.9
3H	25.5	26.2	25.9	26.5	26.8	25.5	26.2	25.8	26.5	26.7
4H	25.5	26.1	25.8	26.4	26.7	25.4	26.1	25.8	26.4	26.7
6H	25.5	26.0	25.8	26.3	26.7	25.4	26.0	25.8	26.3	26.6
8H	25.5	26.0	25.9	26.3	26.7	25.4	25.9	25.8	26.3	26.6
12H	25.5	25.9	25.9	26.3	26.7	25.4	25.9	25.8	26.2	26.6
8H 4H	25.4	25.9	25.8	26.2	26.6	25.3	25.8	25.7	26.2	26.5
6H	25.4	25.8	25.8	26.2	26.6	25.3	25.7	25.7	26.1	26.5
8H	25.4	25.8	25.8	26.2	26.6	25.3	25.7	25.8	26.1	26.6
12H	25.4	25.8	25.9	26.2	26.7	25.4	25.7	25.8	26.1	26.6
12H 4H	25.3	25.8	25.7	26.2	26.6	25.3	25.7	25.7	26.1	26.5
6H	25.3	25.7	25.8	26.1	26.6	25.3	25.6	25.7	26.1	26.5
8H	25.4	25.7	25.8	26.1	26.6	25.3	25.6	25.8	26.1	26.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.5 / - 8.9					+ 2.5 / - 9.1				
1.5H	+ 4.7 / - 9.0					+ 4.7 / - 9.2				
2.0H	+ 7.1 / - 3.5					+ 7.1 / - 3.6				

CIE Pub.117, 1365 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.1)  
Area: 0.0013 m2

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:240.5V I:0.0550A P:12.5W PF:0.9484 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.05% KDisp:0.9662 Lamp Flux:1365.01x1 lm		
NAME: FUSION-MD23-AHD-013-COB-02SC 2700K RA90 15D	13WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

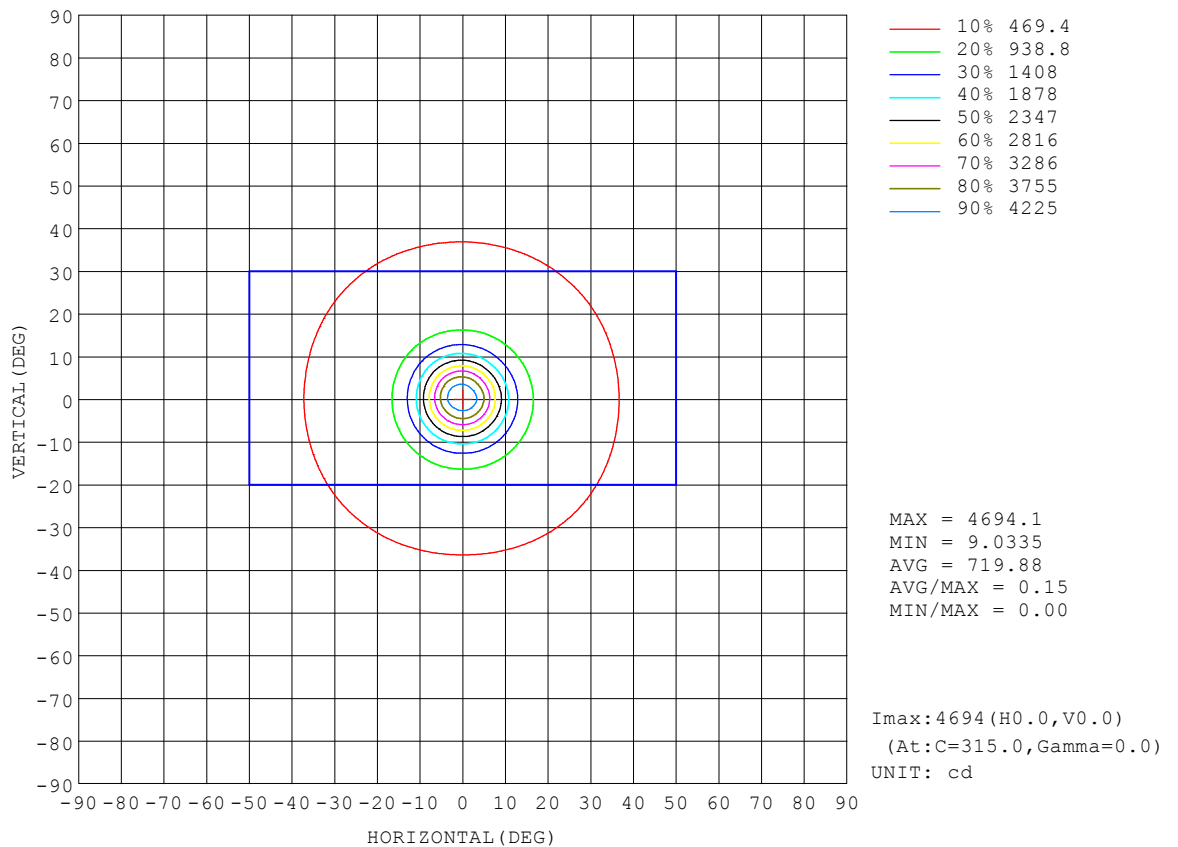
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	78	74	84	78	74	83	77	74	70
0.80	93	86	82	92	86	82	91	85	82	78
1.00	98	92	88	97	91	87	95	91	87	83
1.25	102	96	93	101	96	92	99	95	92	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	104	100	98	92
2.50	110	106	102	108	104	101	105	102	100	94
3.00	111	108	105	109	106	104	106	104	101	95
4.00	113	110	108	111	109	107	108	106	104	97
5.00	115	112	110	112	110	109	108	107	105	98
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2024-10-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity: 65.0%  
Test Distance: 3.090m [K=1.0000]  
Remarks:

ISOCANDELA DIAGRAM

Test:U:240.5V I:0.0550A P:12.5W PF:0.9484 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.05% KDisp:0.9662		Lamp Flux:1365.01x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 2700K RA90 15D	13WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



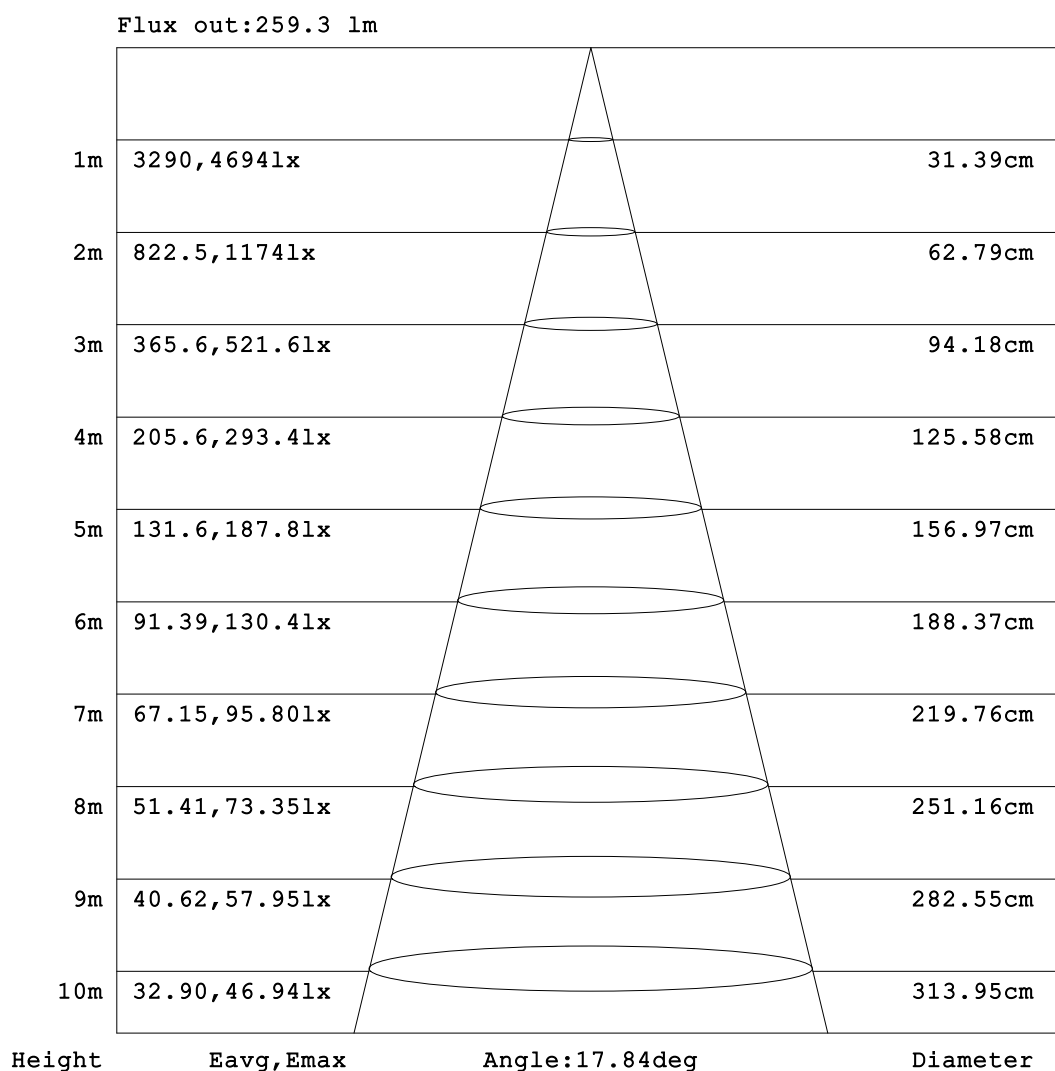
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:



AAI Figure

Test:U:240.5V I:0.0550A P:12.5W PF:0.9484 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.05% KDisp:0.9662		Lamp Flux:1365.01x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 2700K RA90 15D	13WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



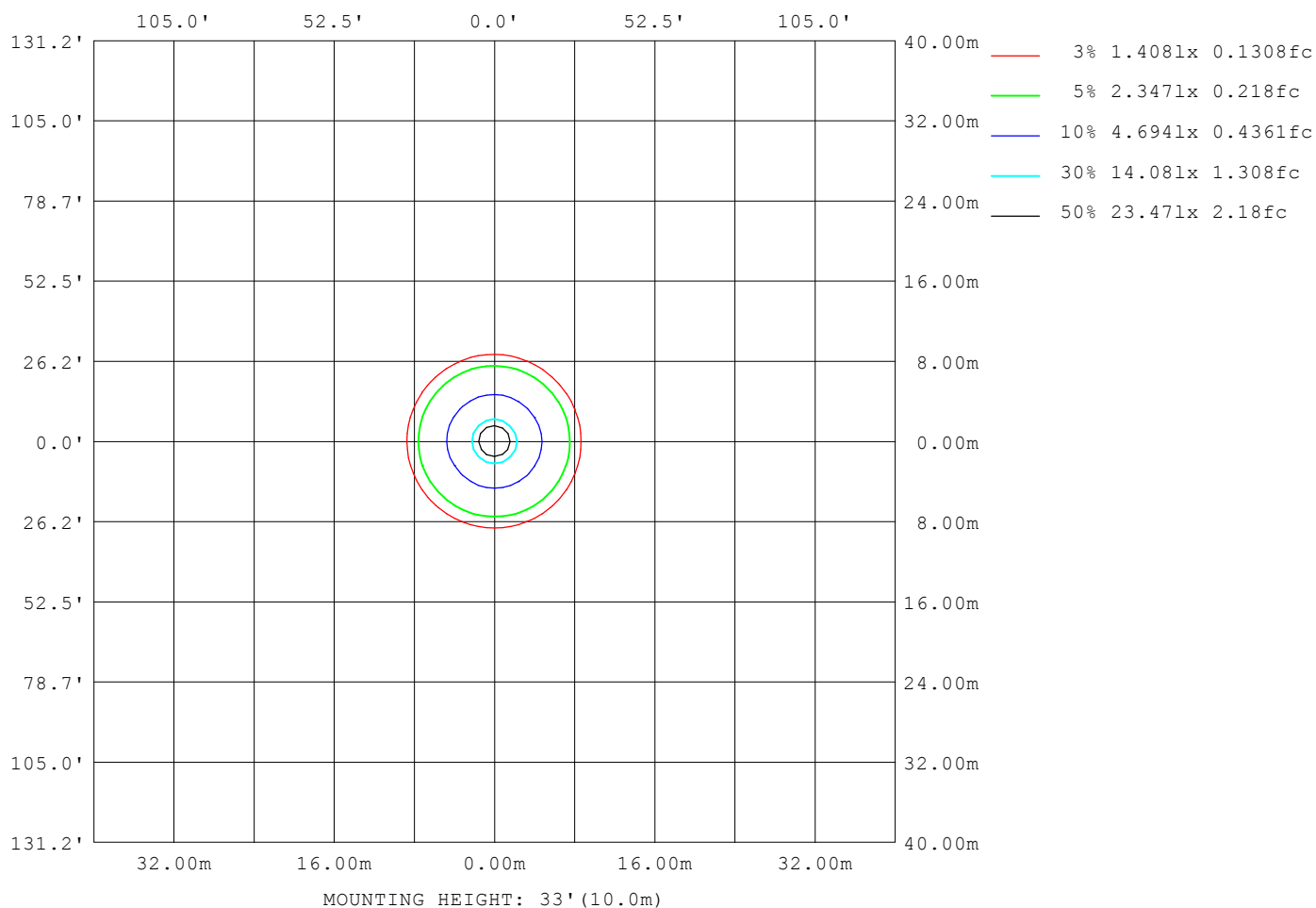
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

Test:U:240.5V I:0.0550A P:12.5W PF:0.9484 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.05% KDisp:0.9662		Lamp Flux:1365.01x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 2700K RA90 15D	13WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-10-16

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:

### LED Avg.L Report

Test:U:240.5V I:0.0550A P:12.5W PF:0.9484 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.05% KDisp:0.9662		Lamp Flux:1365.01x1 lm
NAME: FUSION-MD23-AHD-013-COB-02SC 2700K RA90 15D 13WTYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

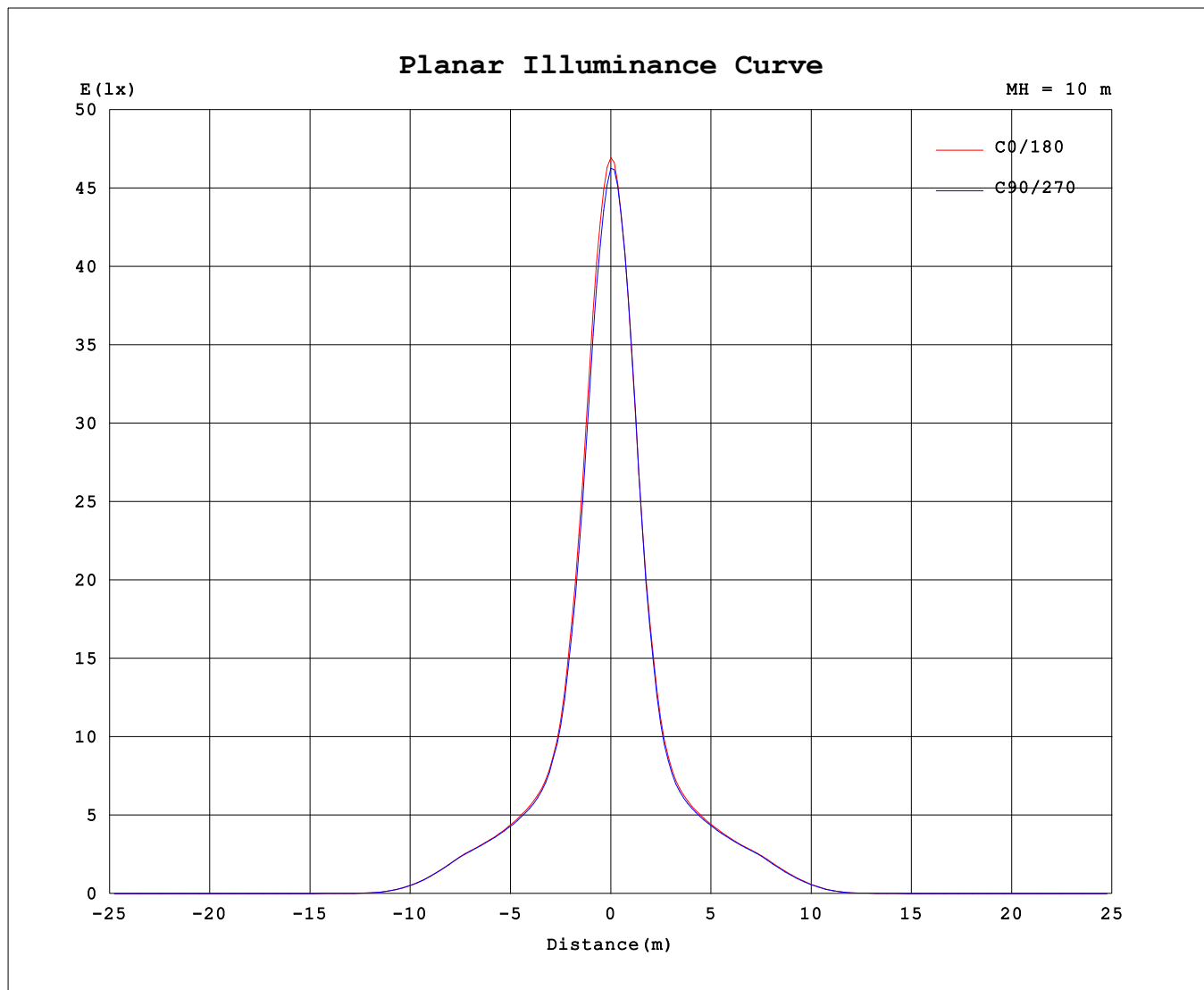
AvgL	cd/m2
L_0~180 (65) av	11138
L_0~180 (75) av	13661
L_0~180 (85) av	24428
L_90~270 (65) av	10960
L_90~270 (75) av	13750
L_90~270 (85) av	24951
L_45 (65) av	10932
L_45 (75) av	13530
L_45 (85) av	24241

Standard: GB/T 29293-2012

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γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity:65.0%  
Test Distance:3.090m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2024-10-16

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.453  
Humidity: 65.0%  
Test Distance: 3.090m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

```

### Photometric Data Table [cd]

G/C	0.0	45.0	90.0	135.0	180.0	225.0	270.0	315.0
0.0	4645	4645	4645	4645	4645	4645	4645	4645
3.0	4255	4174	4168	4238	4308	4375	4360	4311
6.0	3380	3292	3272	3371	3470	3568	3538	3457
9.0	2349	2272	2266	2345	2382	2456	2405	2338
12.0	1575	1550	1532	1586	1596	1628	1579	1545
15.0	1074	1075	1061	1091	1078	1087	1059	1051
18.0	833.1	834.1	827.2	841.5	833.1	834.4	819.5	820.7
21.0	718.9	712.3	710.1	716.3	718.9	715.7	711.0	709.2
24.0	654.0	646.4	646.4	648.4	656.0	654.9	650.3	648.4
27.0	600.8	598.9	598.1	600.8	607.2	607.7	603.6	602.3
30.0	555.7	558.8	556.8	560.9	564.5	565.2	564.0	561.7
33.0	518.7	523.2	520.7	524.0	526.0	526.1	526.8	524.9
36.0	478.9	483.0	480.2	486.9	489.3	488.6	489.5	484.1
39.0	391.1	396.1	392.8	406.2	408.9	407.8	405.5	397.5
42.0	272.0	273.3	271.3	281.9	292.4	288.0	287.4	274.5
45.0	148.5	151.0	148.6	160.2	168.5	164.8	164.1	152.2
48.0	54.71	56.69	55.20	60.34	65.96	65.52	62.68	53.37
51.0	16.76	18.12	18.22	18.23	21.19	19.44	21.41	18.23
54.0	10.82	10.99	10.98	11.27	12.07	11.71	11.93	11.42
57.0	8.218	8.032	8.246	8.477	9.064	8.877	8.990	8.539
60.0	6.943	6.803	6.897	7.122	7.504	7.231	7.347	7.218
63.0	6.261	6.110	6.120	6.395	6.727	6.608	6.684	6.434
66.0	5.740	5.606	5.585	5.845	6.160	6.067	6.145	5.851
69.0	5.300	5.176	5.192	5.349	5.661	5.652	5.712	5.385
72.0	4.896	4.807	4.821	4.929	5.211	5.251	5.309	4.964
75.0	4.439	4.382	4.388	4.478	4.754	4.808	4.865	4.542
78.0	4.038	3.933	3.946	4.033	4.289	4.364	4.420	4.110
81.0	4.183	3.837	3.783	3.717	4.035	4.244	4.455	4.014
84.0	3.189	3.063	3.069	3.119	3.417	3.633	3.749	3.407
87.0	0.8022	0.6492	0.7257	0.9308	1.234	1.457	1.511	1.086
90.0	0.0458	0.0403	0.0539	0.0364	0.0394	0.0391	0.0458	0.0367

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