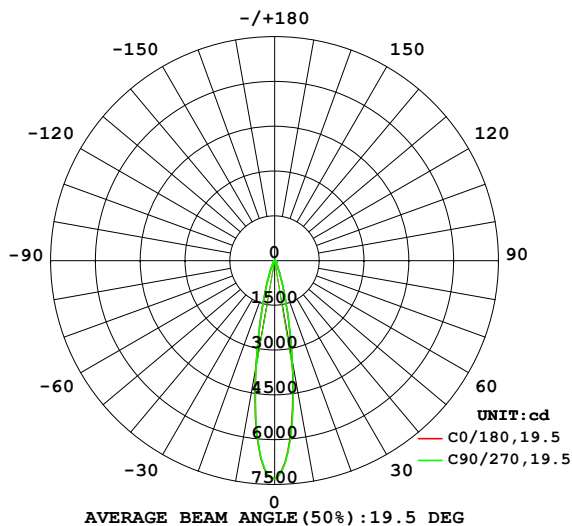


## LUMINAIRE PHOTOMETRIC TEST REPORT

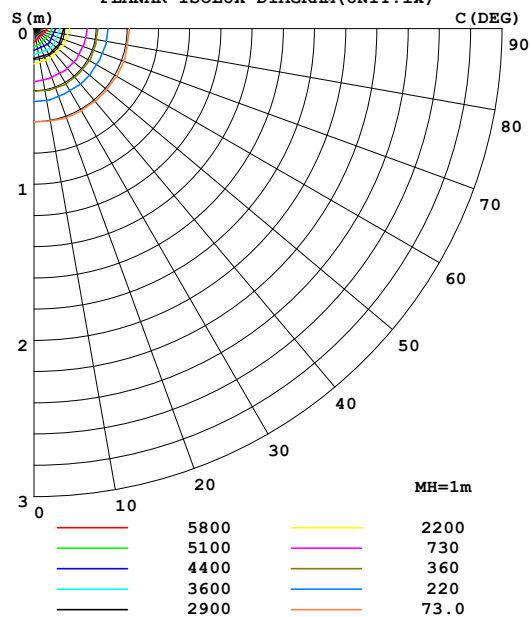
Test:U:240.2V I:0.0570A P:13.0W PF:0.9521 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.83% KDisp:0.9695 Lamp Flux:1193.49x1 lm		
NAME: MD10-13-XX-04 4000K RA90 15D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming Lighting	SUR.: 41mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 91.63 lm/W
MODEL		I <sub>max</sub> (cd)	7303	S/MH (C0/180)		0.34
NOMINAL POWER(W)	13	LOR (%)	100.0	S/MH (C90/270)		0.34
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1193.5	η UP,DN (C0-180)		0.0,49.1
NOMINAL FLUX(lm)	1193.49	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,50.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.00
TEST VOLTAGE(V)	240.11	η down (%)	100.0	CIBSE SHR MAX		0.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-12-26

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:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	3393	3385	3454	3609	3649	3672	3610	3482	0- 10	497.5	497.5	41.7,41.7
20	617.1	633.9	650.1	688.2	669.9	693.6	685.0	658.6	10- 20	452.7	950.1	79.6,79.6
30	127.5	134.9	139.1	148.4	142.7	148.7	148.2	141.2	20- 30	145.3	1095	91.8,91.8
40	46.02	48.38	49.39	51.15	49.71	51.28	51.04	48.69	30- 40	51.76	1147	96.1,96.1
50	19.79	20.73	20.62	21.31	21.34	21.56	20.83	19.83	40- 50	25.35	1173	98.2,98.2
60	8.364	8.801	8.821	8.834	8.757	8.887	8.676	8.367	50- 60	12.00	1185	99.3,99.3
70	3.236	3.900	4.303	4.411	4.144	4.199	3.970	3.460	60- 70	6.206	1191	99.8,99.8
80	1.012	0.9805	0.9523	1.114	1.222	1.085	0.9148	0.9500	70- 80	2.409	1193	100,100
90	0.0609	0.0426	0.0649	0.0422	0.0416	0.0452	0.0552	0.0412	80- 90	0.3282	1193	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): 1162 lm

%lum = 97.4%

%lamp = 97.4%

Conical surface Flux(120deg): 1184.5 lm

%lum = 99.3%

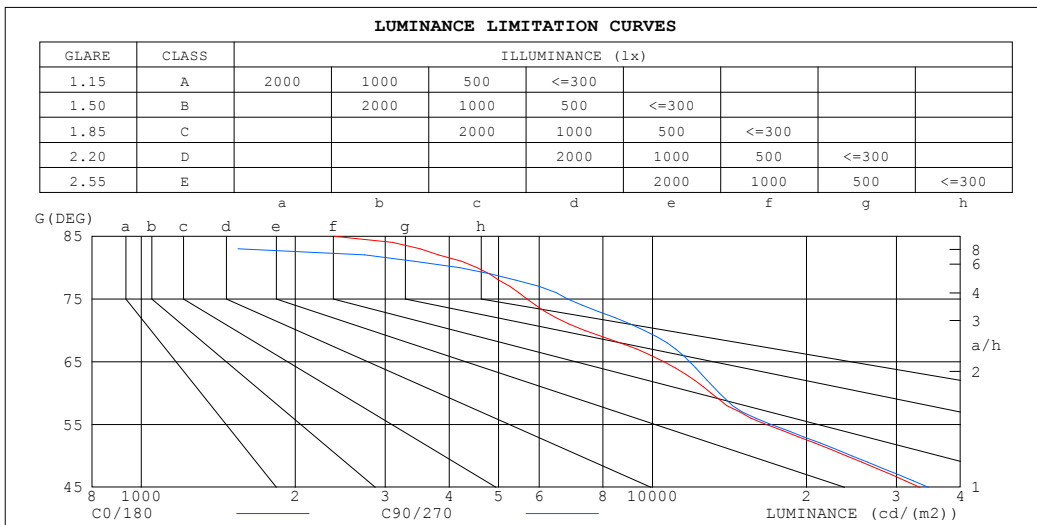
%lamp = 99.3%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-12-26

$\gamma$  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:240.2V I:0.0570A P:13.0W PF:0.9521 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.83% KDisp:0.9695 Lamp Flux:1193.49x1 lm		
NAME: MD10-13-XX-04 4000K RA90 15D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming Lighting	SUR.: 41mm	Shielding Angle:



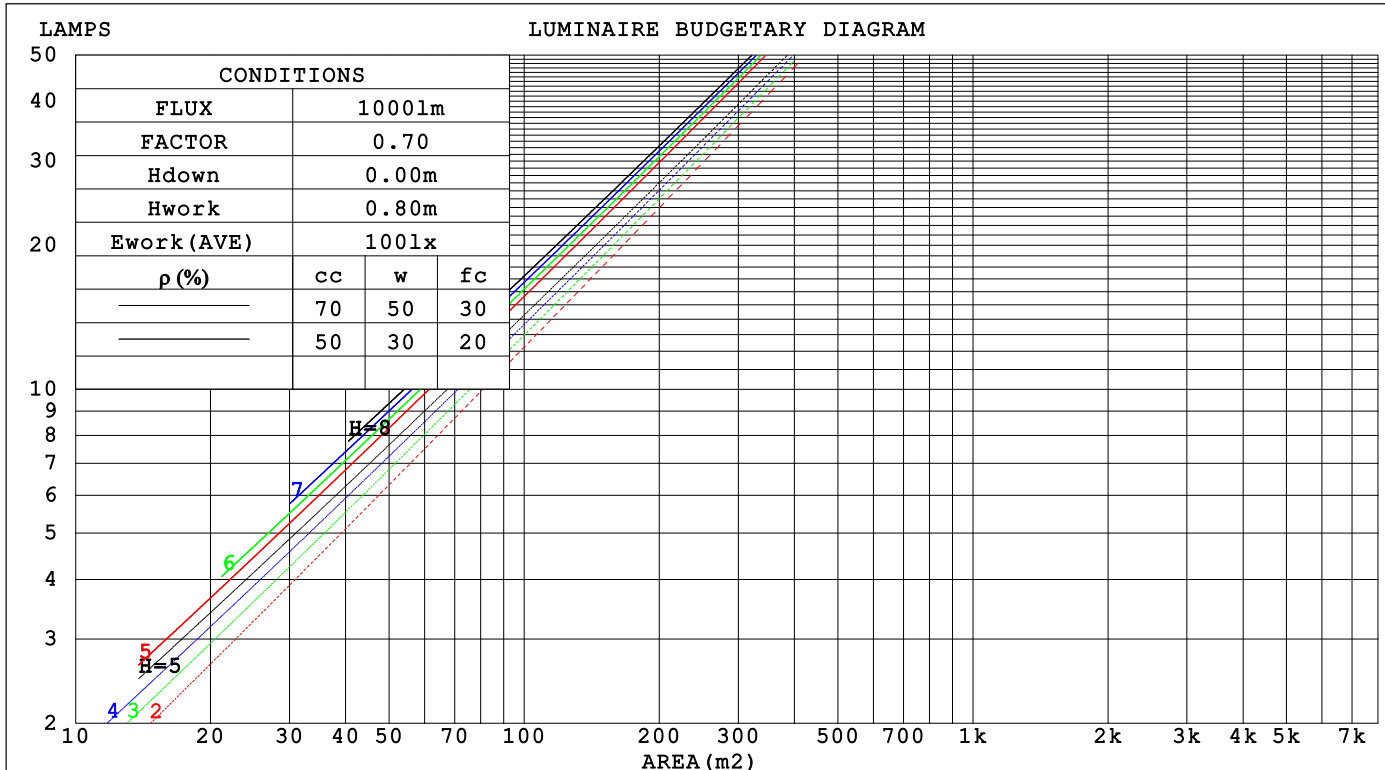
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2023-12-26

$\gamma$  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:240.2V I:0.0570A P:13.0W PF:0.9521 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.83% KDisp:0.9695		
Lamp Flux:1193.49x1 lm		
NAME: MD10-13-XX-04 4000K RA90 15D	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															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	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.97														
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	.00	.98	.97	.97	.96	.95	.93														
3.0	1.03	.99	.96	1.02	.98	.96	.99	.96	.94	.97	.95	.93	.95	.93	.91	.90														
4.0	.99	.95	.92	.98	.94	.91	.96	.93	.90	.94	.92	.89	.92	.90	.88	.87														
5.0	.95	.91	.88	.95	.91	.88	.93	.90	.87	.91	.89	.86	.90	.88	.86	.85														
6.0	.92	.88	.85	.92	.88	.85	.90	.87	.84	.89	.86	.84	.88	.85	.83	.82														
7.0	.89	.85	.82	.89	.85	.82	.88	.84	.82	.87	.84	.81	.86	.83	.81	.80														
8.0	.87	.83	.80	.86	.83	.80	.85	.82	.80	.85	.82	.79	.84	.81	.79	.78														
9.0	.85	.81	.78	.84	.80	.78	.83	.80	.77	.83	.79	.77	.82	.79	.77	.76														
10.0	.82	.78	.76	.82	.78	.76	.81	.78	.76	.81	.78	.75	.80	.77	.75	.74														



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-12-26

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:240.2V I:0.0570A P:13.0W PF:0.9521 Freq:49.99Hz			UTHDi:0.18% ITHDi:18.83% KDisp:0.9695			Lamp Flux:1193.49x1 lm		
NAME: MD10-13-XX-04 4000K RA90 15D			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	.138	.078	.025	.131	.075	.024	.119	.068	.022	.107	.062	.020	.097	.056	.018		
2.0	.128	.070	.021	.122	.067	.021	.112	.062	.019	.103	.058	.018	.094	.053	.017		
3.0	.119	.063	.019	.114	.061	.018	.106	.057	.017	.098	.054	.016	.091	.050	.016		
4.0	.111	.058	.017	.107	.056	.017	.100	.053	.016	.093	.050	.015	.087	.047	.014		
5.0	.104	.053	.015	.101	.052	.015	.095	.049	.015	.089	.047	.014	.084	.045	.013		
6.0	.098	.049	.014	.096	.048	.014	.090	.046	.013	.085	.044	.013	.081	.043	.013		
7.0	.093	.046	.013	.091	.045	.013	.086	.044	.013	.082	.042	.012	.078	.040	.012		
8.0	.088	.043	.012	.086	.042	.012	.082	.041	.012	.079	.040	.011	.075	.039	.011		
9.0	.084	.041	.011	.082	.040	.011	.079	.039	.011	.076	.038	.011	.072	.037	.011		
10.0	.080	.039	.011	.079	.038	.011	.076	.037	.010	.073	.036	.010	.070	.035	.010		

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	.168	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017		
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014		
3.0	.135	.113	.096	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011		
4.0	.123	.098	.079	.105	.085	.069	.072	.059	.048	.042	.035	.029	.013	.011	.009		
5.0	.112	.086	.066	.096	.074	.057	.066	.052	.040	.038	.030	.024	.012	.010	.008		
6.0	.103	.076	.056	.089	.065	.049	.061	.046	.034	.036	.027	.020	.011	.009	.007		
7.0	.095	.067	.048	.082	.058	.042	.057	.041	.029	.033	.024	.018	.011	.008	.006		
8.0	.089	.061	.041	.076	.053	.036	.053	.037	.025	.031	.022	.015	.010	.007	.005		
9.0	.083	.055	.036	.072	.048	.031	.050	.033	.022	.029	.020	.013	.009	.006	.004		
10.0	.078	.050	.031	.067	.043	.027	.047	.031	.019	.027	.018	.012	.009	.006	.004		

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-12-26

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:240.2V I:0.0570A P:13.0W PF:0.9521 Freq:49.99Hz UTHDi:0.18% ITHDi:18.83% KDisp:0.9695Lamp Flux:1193.49x1 lm										
NAME: MD10-13-XX-04 4000K RA90 15D						TYPE:			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	15.5	16.1	15.7	16.3	16.4	15.7	16.3	15.9	16.5	16.6
3H	15.7	16.3	15.9	16.5	16.7	16.0	16.6	16.2	16.8	17.0
4H	15.7	16.3	16.0	16.5	16.7	16.0	16.6	16.3	16.8	17.0
6H	15.7	16.3	16.0	16.5	16.7	16.0	16.6	16.3	16.8	17.0
8H	15.7	16.2	16.0	16.5	16.7	16.0	16.5	16.3	16.8	17.0
12H	15.6	16.2	16.0	16.4	16.7	15.9	16.4	16.2	16.7	17.0
4H 2H	15.6	16.1	15.8	16.4	16.6	15.7	16.3	16.0	16.5	16.7
3H	15.8	16.4	16.1	16.6	16.9	16.1	16.6	16.4	16.9	17.2
4H	15.9	16.4	16.2	16.7	17.0	16.2	16.7	16.5	17.0	17.3
6H	15.9	16.3	16.3	16.6	17.0	16.2	16.6	16.6	17.0	17.3
8H	15.9	16.3	16.3	16.6	17.0	16.2	16.6	16.6	16.9	17.3
12H	15.8	16.2	16.2	16.6	16.9	16.1	16.5	16.5	16.8	17.2
8H 4H	15.8	16.2	16.2	16.6	16.9	16.1	16.5	16.5	16.9	17.2
6H	15.9	16.2	16.3	16.6	17.0	16.2	16.5	16.6	16.9	17.3
8H	15.8	16.1	16.3	16.5	17.0	16.1	16.4	16.6	16.8	17.3
12H	15.8	16.1	16.3	16.5	17.0	16.1	16.3	16.5	16.7	17.2
12H 4H	15.8	16.1	16.2	16.5	16.9	16.1	16.4	16.5	16.8	17.2
6H	15.8	16.1	16.3	16.5	17.0	16.1	16.4	16.6	16.8	17.2
8H	15.8	16.0	16.3	16.5	17.0	16.1	16.3	16.5	16.8	17.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.4 / - 2.2					+ 1.4 / - 2.1				
1.5H	+ 2.0 / - 1.8					+ 2.1 / - 1.8				
2.0H	+ 2.6 / - 1.7					+ 2.6 / - 1.6				

CIE Pub.117, 1193 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.6)  
Area: 0.0013 m2

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-12-26

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:240.2V I:0.0570A P:13.0W PF:0.9521 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.83% KDisp:0.9695 Lamp Flux:1193.49x1 lm		
NAME: MD10-13-XX-04 4000K RA90 15D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming Lighting	SUR.: 41mm	Shielding Angle:

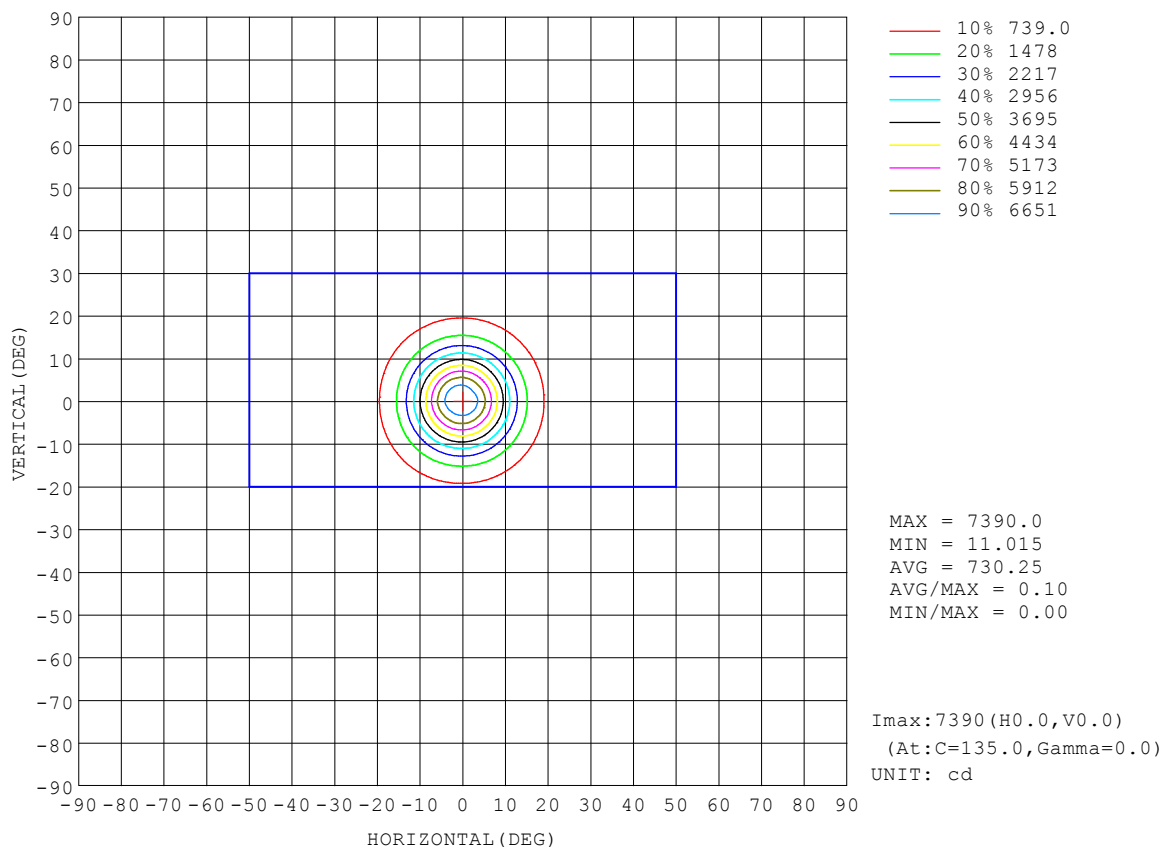
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	79	88	83	79	76
0.80	96	91	87	96	90	87	95	90	87	83
1.00	100	95	92	100	95	91	98	94	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	104	101	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	109	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
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:2023-12-26

$\gamma$  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:240.2V I:0.0570A P:13.0W PF:0.9521 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.83% KDisp:0.9695 Lamp Flux:1193.49x1 lm		
NAME: MD10-13-XX-04 4000K RA90 15D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming Lighting	SUR.: 41mm	Shielding Angle:



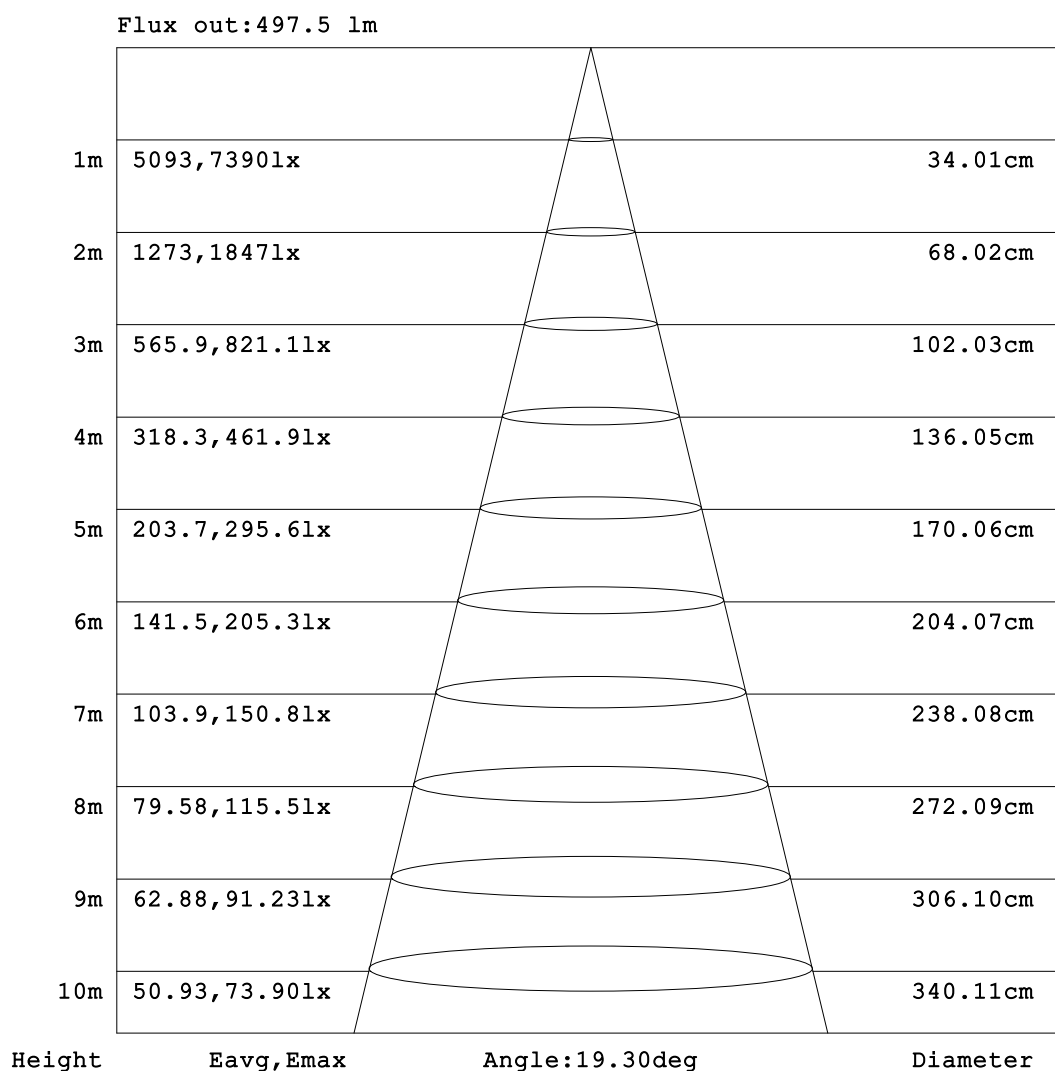
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-12-26

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:240.2V I:0.0570A P:13.0W PF:0.9521 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.83% KDisp:0.9695		Lamp Flux:1193.49x1 lm
NAME: MD10-13-XX-04 4000K RA90 15D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming Lighting	SUR.: 41mm	Shielding Angle:



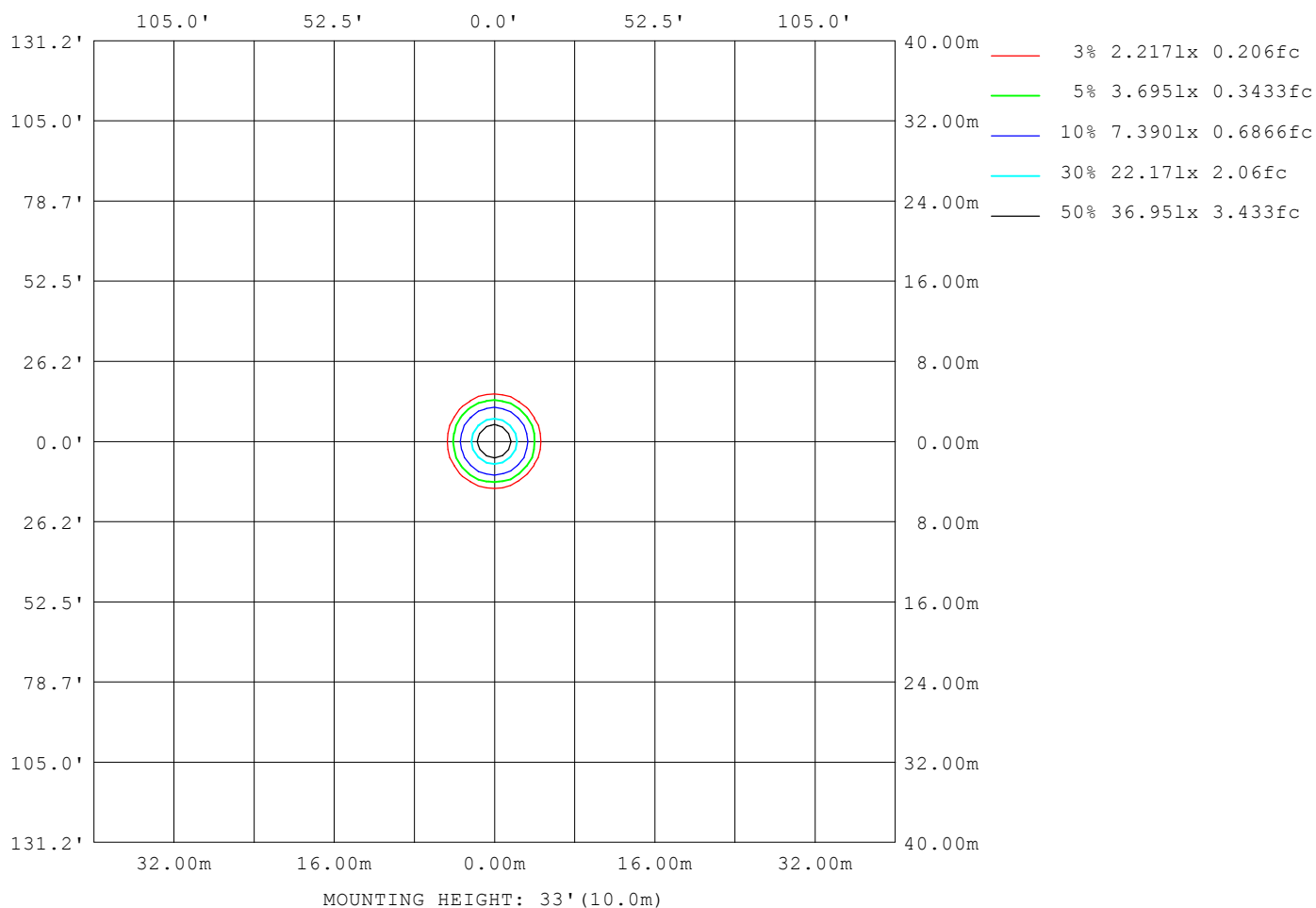
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-12-26

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:240.2V I:0.0570A P:13.0W PF:0.9521 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.83% KDisp:0.9695 Lamp Flux:1193.49x1 lm		
NAME: MD10-13-XX-04 4000K RA90 15D	TYPE:	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:2023-12-26

$\gamma$  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:

### LED Avg.L Report

Test:U:240.2V I:0.0570A P:13.0W PF:0.9521 Freq:49.99Hz		
UTHDi:0.18% ITHDi:18.83% KDisp:0.9695 Lamp Flux:1193.49x1 lm		
NAME: MD10-13-XX-04 4000K RA90 15D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming Lighting	SUR.: 41mm	Shielding Angle:

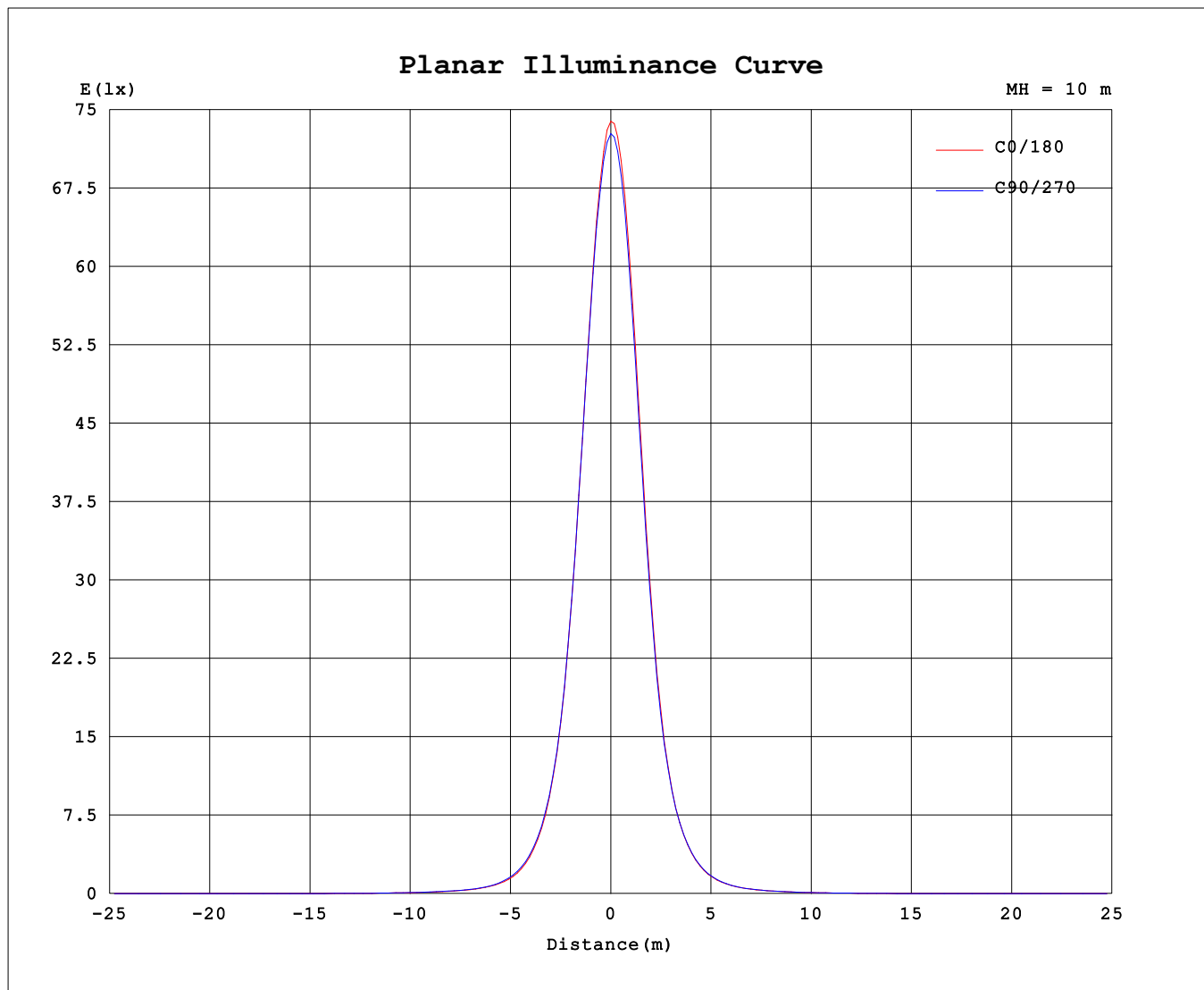
AvgL	cd/m2
L_0~180 (65) av	11002
L_0~180 (75) av	6238
L_0~180 (85) av	3042
L_90~270 (65) av	11658
L_90~270 (75) av	6746
L_90~270 (85) av	623
L_45 (65) av	11511
L_45 (75) av	6479
L_45 (85) av	417

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-12-26

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: 2023-12-26

$\gamma$  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	7303	7303	7303	7303	7303	7303	7303	7303
3.0	6757	6730	6784	6897	6959	6984	6930	6823
6.0	5494	5460	5554	5717	5810	5824	5757	5600
9.0	3908	3890	3977	4135	4189	4217	4142	4000
12.0	2492	2489	2544	2664	2677	2701	2654	2559
15.0	1486	1506	1529	1609	1595	1615	1594	1537
18.0	875.9	895.8	924.2	961.1	941.8	966.7	952.8	932.7
21.0	519.3	536.0	550.9	584.3	567.2	588.5	582.1	558.5
24.0	311.7	325.5	337.8	360.5	346.1	362.5	359.7	343.4
27.0	194.0	204.9	212.7	226.9	220.4	227.6	226.3	216.0
30.0	127.5	134.9	139.1	148.4	142.7	148.7	148.2	141.2
33.0	89.36	93.75	97.19	101.6	98.16	101.7	101.9	98.45
36.0	65.78	68.96	70.86	73.65	71.44	74.25	74.16	71.08
39.0	50.12	52.63	53.95	55.87	54.25	56.05	55.95	53.38
42.0	38.85	40.97	41.47	42.95	42.02	43.14	42.66	40.67
45.0	30.29	31.92	31.98	33.08	32.75	33.37	32.69	31.09
48.0	23.57	24.72	24.64	25.47	25.44	25.76	24.99	23.74
51.0	18.06	19.00	18.82	19.50	19.52	19.69	18.98	18.05
54.0	13.57	14.21	14.12	14.53	14.59	14.78	14.20	13.54
57.0	10.35	10.68	10.63	10.80	10.80	10.95	10.61	10.21
60.0	8.364	8.801	8.821	8.834	8.757	8.887	8.676	8.367
63.0	6.776	7.313	7.391	7.395	7.260	7.382	7.203	6.879
66.0	5.190	5.899	6.101	6.135	5.927	6.032	5.835	5.413
69.0	3.668	4.407	4.762	4.858	4.590	4.654	4.432	3.921
72.0	2.567	2.989	3.410	3.517	3.299	3.313	3.121	2.718
75.0	1.890	2.038	2.307	2.397	2.307	2.286	2.233	1.998
78.0	1.337	1.393	1.466	1.626	1.634	1.567	1.399	1.380
81.0	0.8503	0.7799	0.6989	0.8783	1.046	0.8743	0.6829	0.7444
84.0	0.4161	0.2083	0.0837	0.2260	0.5548	0.2901	0.0729	0.1231
87.0	0.0803	0.0385	0.0703	0.0412	0.0724	0.0439	0.0691	0.0386
90.0	0.0609	0.0426	0.0649	0.0422	0.0416	0.0452	0.0552	0.0412

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