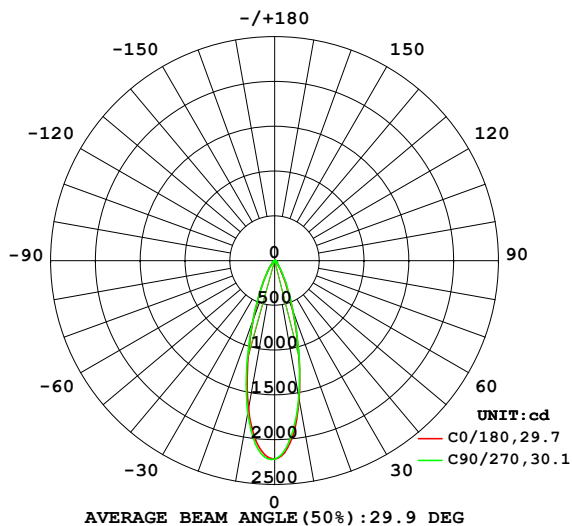


## LUMINAIRE PHOTOMETRIC TEST REPORT

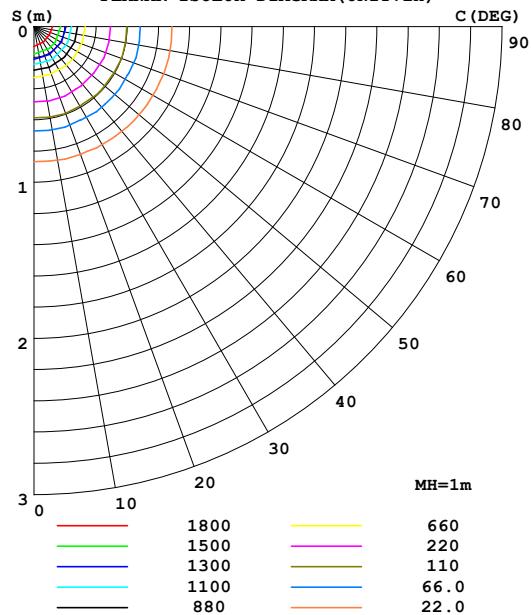
Test:U:240.4V I:0.0538A P:12.3W PF:0.9477 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.96% KDisp:0.9649 Lamp Flux:782.304x1 lm		
NAME: MD10-13-DW-16 3000K RA95 24D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming Lighting	SUR.: 26mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 63.79 lm/W
MODEL		I <sub>max</sub> (cd)	2221	S/MH (C0/180)		0.52
NOMINAL POWER(W)	13	LOR (%)	100.0	S/MH (C90/270)		0.53
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	782.30	η UP,DN (C0-180)		0.0,47.2
NOMINAL FLUX(lm)	782.304	CIE CLASS	DIRECT	η UP,DN (C180-360)		0.0,52.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		0.50
TEST VOLTAGE(V)	240.38	η down (%)	100.0	CIBSE SHR MAX		0.50

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:2024-03-26

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	1576	1554	1552	1596	1685	1752	1730	1643	0- 10	182.8	182.8	23.4,23.4
20	587.7	603.7	615.0	629.3	703.2	765.7	720.2	616.6	10- 20	302.2	485.0	62,62
30	171.4	183.0	187.3	191.1	220.2	238.5	219.3	177.6	20- 30	171.3	656.4	83.9,83.9
40	53.62	58.98	60.67	60.58	70.14	76.40	69.19	55.67	30- 40	72.05	728.4	93.1,93.1
50	19.35	21.90	21.73	21.55	24.86	26.76	24.92	20.52	40- 50	29.84	758.2	96.9,96.9
60	8.177	9.189	8.728	8.787	9.850	10.48	10.39	9.855	50- 60	13.32	771.6	98.6,98.6
70	4.012	4.170	4.147	4.520	4.961	4.720	4.953	4.464	60- 70	6.477	778.0	99.5,99.5
80	1.748	1.555	1.683	1.950	2.251	2.249	2.295	1.932	70- 80	3.348	781.4	99.9,99.9
90	0.0179	0.0090	0.0232	0.0074	0.0099	0.0106	0.0174	0.0087	80- 90	0.9118	782.3	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): 746.45 lm

%lum = 95.4%

%lamp = 95.4%

Conical surface Flux(120deg): 771.57 lm

%lum = 98.6%

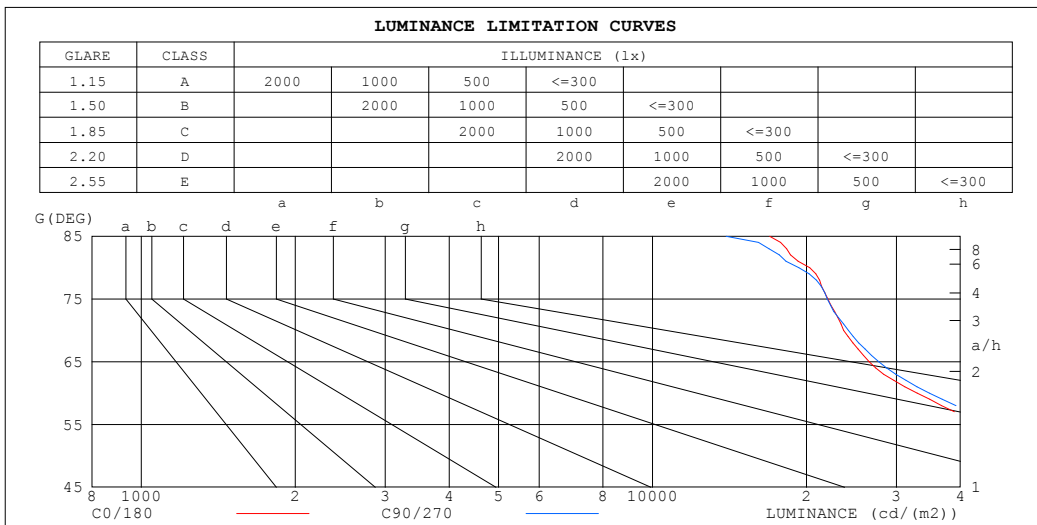
%lamp = 98.6%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-03-26

$\gamma$  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:240.4V I:0.0538A P:12.3W PF:0.9477 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.96% KDisp:0.9649 Lamp Flux:782.304x1 lm		
NAME: MD10-13-DW-16 3000K RA95 24D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming Lighting	SUR.: 26mm	Shielding Angle:



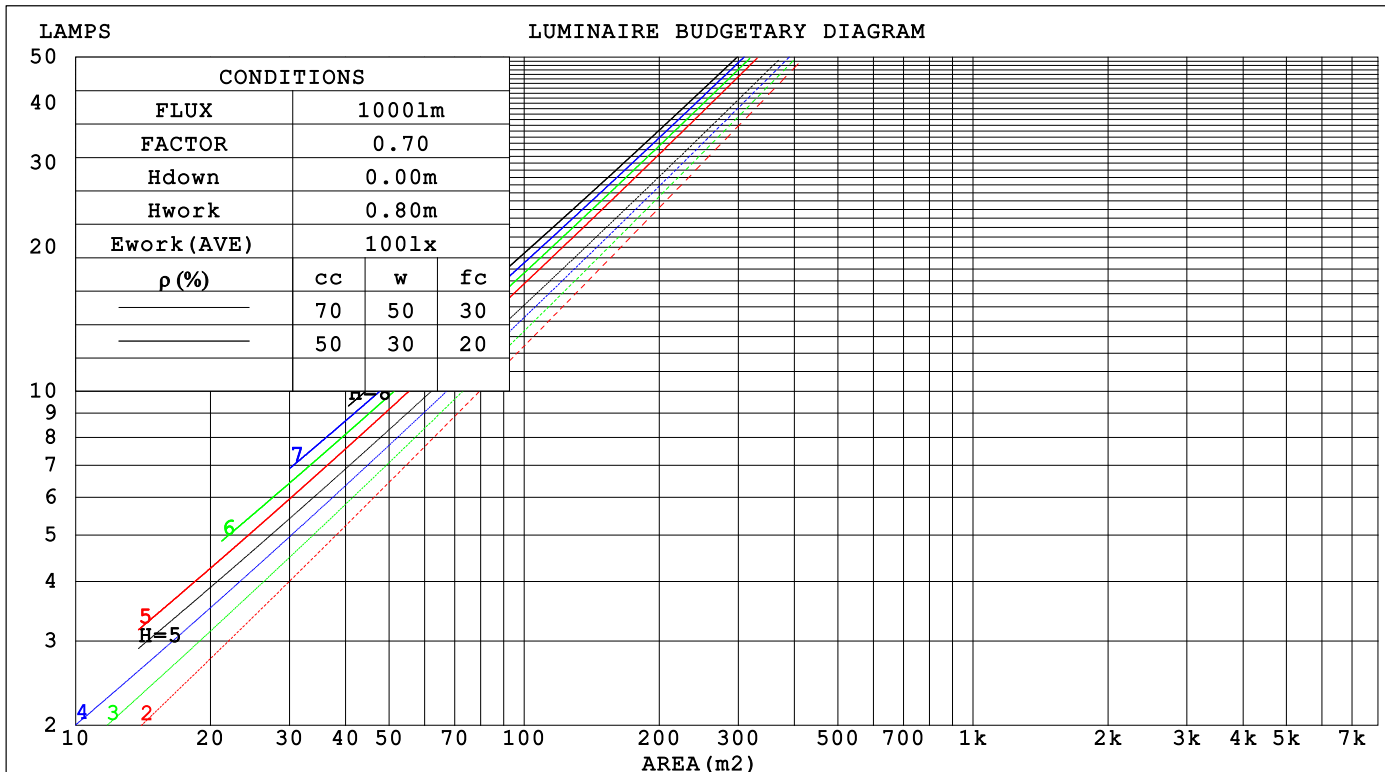
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2024-03-26

$\gamma$  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:240.4V I:0.0538A P:12.3W PF:0.9477 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.96% KDisp:0.9649		
Lamp Flux:782.304x1 lm		
NAME: MD10-13-DW-16 3000K RA95 24D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming Lighting	SUR.: 26mm	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	1.12	1.09	1.07	1.09	1.07	1.06	1.05	1.04	1.02	1.02	1.01	.99	.98	.97	.97	.95														
2.0	1.05	1.01	.98	1.03	1.00	.97	1.00	.98	.95	.97	.95	.93	.95	.93	.91	.90														
3.0	.99	.95	.91	.98	.94	.91	.95	.92	.89	.93	.90	.88	.91	.89	.87	.85														
4.0	.94	.89	.86	.93	.89	.85	.91	.87	.84	.89	.86	.83	.87	.85	.82	.81														
5.0	.90	.85	.81	.89	.84	.80	.87	.83	.80	.85	.82	.79	.84	.81	.78	.77														
6.0	.85	.80	.77	.85	.80	.76	.83	.79	.76	.82	.78	.75	.81	.77	.75	.74														
7.0	.82	.77	.73	.81	.76	.73	.80	.76	.72	.79	.75	.72	.78	.74	.72	.71														
8.0	.78	.73	.70	.78	.73	.70	.77	.72	.69	.76	.72	.69	.75	.71	.69	.68														
9.0	.75	.70	.67	.75	.70	.67	.74	.70	.67	.73	.69	.66	.72	.69	.66	.65														
10.0	.72	.67	.64	.72	.67	.64	.71	.67	.64	.70	.67	.64	.70	.66	.64	.63														



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-03-26

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:240.4V I:0.0538A P:12.3W PF:0.9477 Freq:49.99Hz			UTHDi:0.17% ITHDi:18.96% KDisp:0.9649			Lamp Flux:782.304x1 lm		
NAME: MD10-13-DW-16 3000K RA95 24D			TYPE:			WEIGHT:		
SPEC.:			DIM.:			SERIAL No.:		
MFR.: Norming Lighting			SUR.: 26mm			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	.161	.092	.029	.154	.088	.028	.142	.081	.026	.130	.075	.024	.120	.069	.022		
2.0	.152	.083	.025	.146	.080	.025	.136	.075	.023	.126	.071	.022	.117	.066	.021		
3.0	.143	.076	.023	.138	.074	.022	.129	.070	.021	.121	.066	.020	.113	.063	.019		
4.0	.134	.070	.021	.130	.068	.020	.123	.065	.019	.116	.062	.019	.109	.059	.018		
5.0	.127	.065	.019	.124	.063	.018	.117	.061	.018	.111	.059	.017	.106	.056	.017		
6.0	.121	.060	.017	.118	.059	.017	.112	.057	.017	.107	.055	.016	.102	.054	.016		
7.0	.115	.057	.016	.112	.056	.016	.107	.054	.016	.102	.053	.015	.098	.051	.015		
8.0	.109	.053	.015	.107	.053	.015	.103	.051	.015	.099	.050	.014	.095	.049	.014		
9.0	.104	.051	.014	.102	.050	.014	.099	.049	.014	.095	.048	.014	.091	.046	.013		
10.0	.100	.048	.013	.098	.047	.013	.095	.046	.013	.091	.045	.013	.088	.044	.013		

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	.170	.157	.146	.145	.135	.126	.100	.093	.087	.057	.054	.051	.018	.017	.016		
2.0	.154	.133	.115	.132	.114	.099	.090	.079	.069	.052	.046	.041	.017	.015	.013		
3.0	.140	.113	.092	.120	.098	.080	.082	.068	.056	.048	.040	.033	.015	.013	.011		
4.0	.129	.098	.075	.110	.085	.066	.076	.059	.046	.044	.035	.027	.014	.011	.009		
5.0	.119	.086	.063	.102	.075	.054	.070	.052	.038	.041	.031	.023	.013	.010	.008		
6.0	.111	.077	.053	.095	.067	.046	.066	.047	.032	.038	.027	.019	.012	.009	.006		
7.0	.104	.069	.045	.089	.060	.039	.062	.042	.028	.036	.025	.016	.012	.008	.005		
8.0	.097	.062	.038	.084	.054	.034	.058	.038	.024	.034	.022	.014	.011	.007	.005		
9.0	.092	.057	.033	.079	.050	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004		
10.0	.087	.052	.029	.075	.046	.026	.052	.032	.018	.030	.019	.011	.010	.006	.004		

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-03-26

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:240.4V I:0.0538A P:12.3W PF:0.9477 Freq:49.99Hz UTHDi:0.17% ITHDi:18.96% KDisp:0.9649Lamp Flux:782.304x1 lm										
NAME: MD10-13-DW-16 3000K RA95 24D					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: Norming Lighting					SUR.: 26mm			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	21.2	22.0	21.4	22.2	22.4	21.6	22.4	21.8	22.6	22.7
3H	21.4	22.1	21.6	22.3	22.5	21.7	22.5	22.0	22.7	22.9
4H	21.5	22.2	21.7	22.4	22.6	21.8	22.5	22.1	22.7	22.9
6H	21.5	22.2	21.8	22.4	22.7	21.8	22.5	22.1	22.7	23.0
8H	21.5	22.2	21.8	22.4	22.7	21.8	22.5	22.1	22.7	23.0
12H	21.5	22.1	21.8	22.4	22.7	21.8	22.4	22.1	22.7	23.0
4H 2H	21.2	21.9	21.5	22.1	22.4	21.6	22.3	21.8	22.5	22.7
3H	21.5	22.1	21.8	22.3	22.6	21.8	22.4	22.1	22.7	22.9
4H	21.6	22.2	21.9	22.5	22.8	21.9	22.5	22.2	22.8	23.1
6H	21.7	22.2	22.1	22.5	22.9	22.0	22.5	22.4	22.8	23.2
8H	21.7	22.2	22.1	22.6	22.9	22.0	22.5	22.4	22.8	23.2
12H	21.8	22.2	22.2	22.6	22.9	22.0	22.4	22.4	22.8	23.2
8H 4H	21.6	22.0	22.0	22.4	22.8	21.9	22.3	22.3	22.7	23.0
6H	21.7	22.1	22.2	22.5	22.9	22.0	22.4	22.4	22.8	23.2
8H	21.8	22.1	22.3	22.6	23.0	22.0	22.4	22.5	22.8	23.2
12H	21.9	22.1	22.3	22.6	23.1	22.1	22.4	22.5	22.8	23.3
12H 4H	21.5	22.0	22.0	22.3	22.7	21.8	22.3	22.2	22.6	23.0
6H	21.7	22.1	22.2	22.5	22.9	22.0	22.3	22.4	22.7	23.2
8H	21.8	22.1	22.3	22.5	23.0	22.0	22.3	22.5	22.8	23.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.5 / - 2.2					+ 1.7 / - 2.3				
1.5H	+ 2.5 / - 1.7					+ 2.8 / - 1.9				
2.0H	+ 2.4 / - 1.6					+ 2.7 / - 1.8				

CIE Pub.117, 782.3 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.9)  
Area: 0.0005 m2

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-03-26

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:240.4V I:0.0538A P:12.3W PF:0.9477 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.96% KDisp:0.9649 Lamp Flux:782.304x1 lm		
NAME: MD10-13-DW-16 3000K RA95 24D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming Lighting	SUR.: 26mm	Shielding Angle:

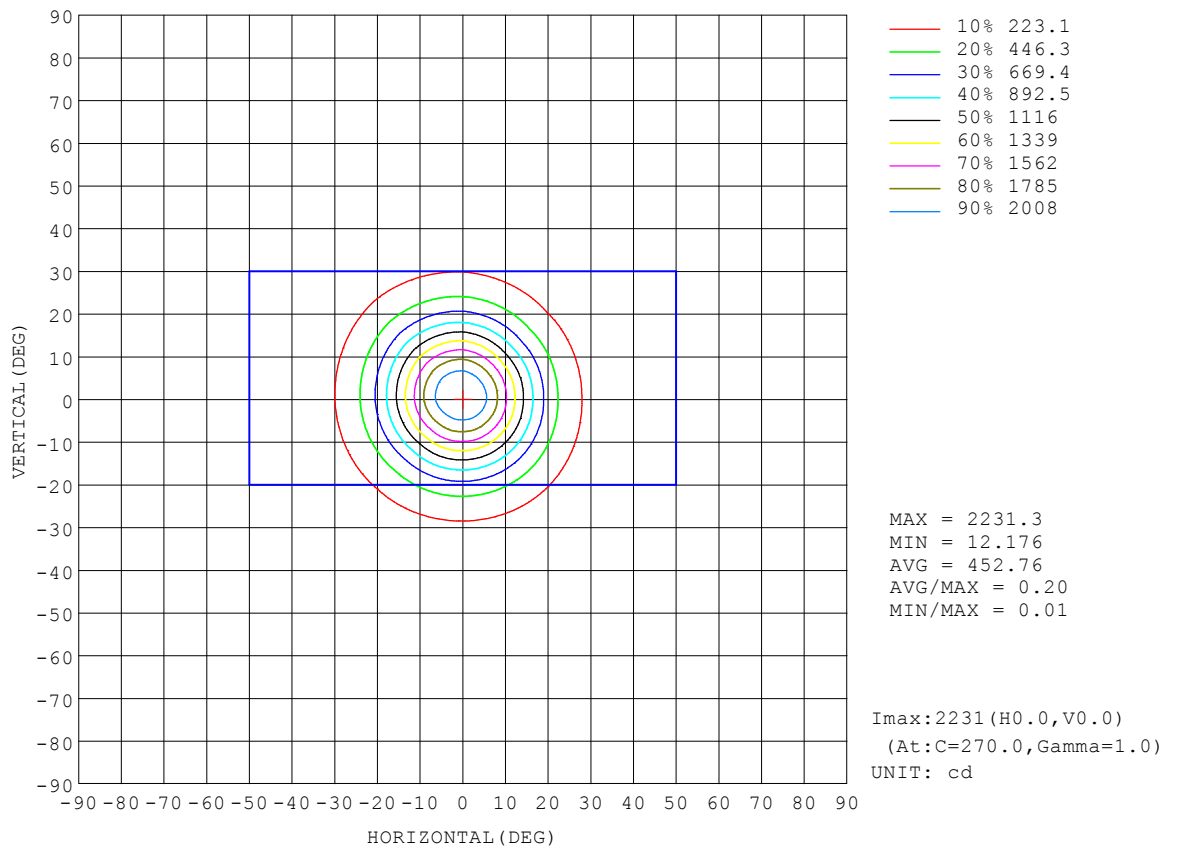
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	88	85	93	88	85	81
1.00	99	93	90	98	93	90	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	102	105	103	101	95
3.00	112	108	106	110	107	104	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	107	106	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: 2024-03-26

$\gamma$  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:240.4V I:0.0538A P:12.3W PF:0.9477 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.96% KDisp:0.9649 Lamp Flux:782.304x1 lm		
NAME: MD10-13-DW-16 3000K RA95 24D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming Lighting	SUR.: 26mm	Shielding Angle:



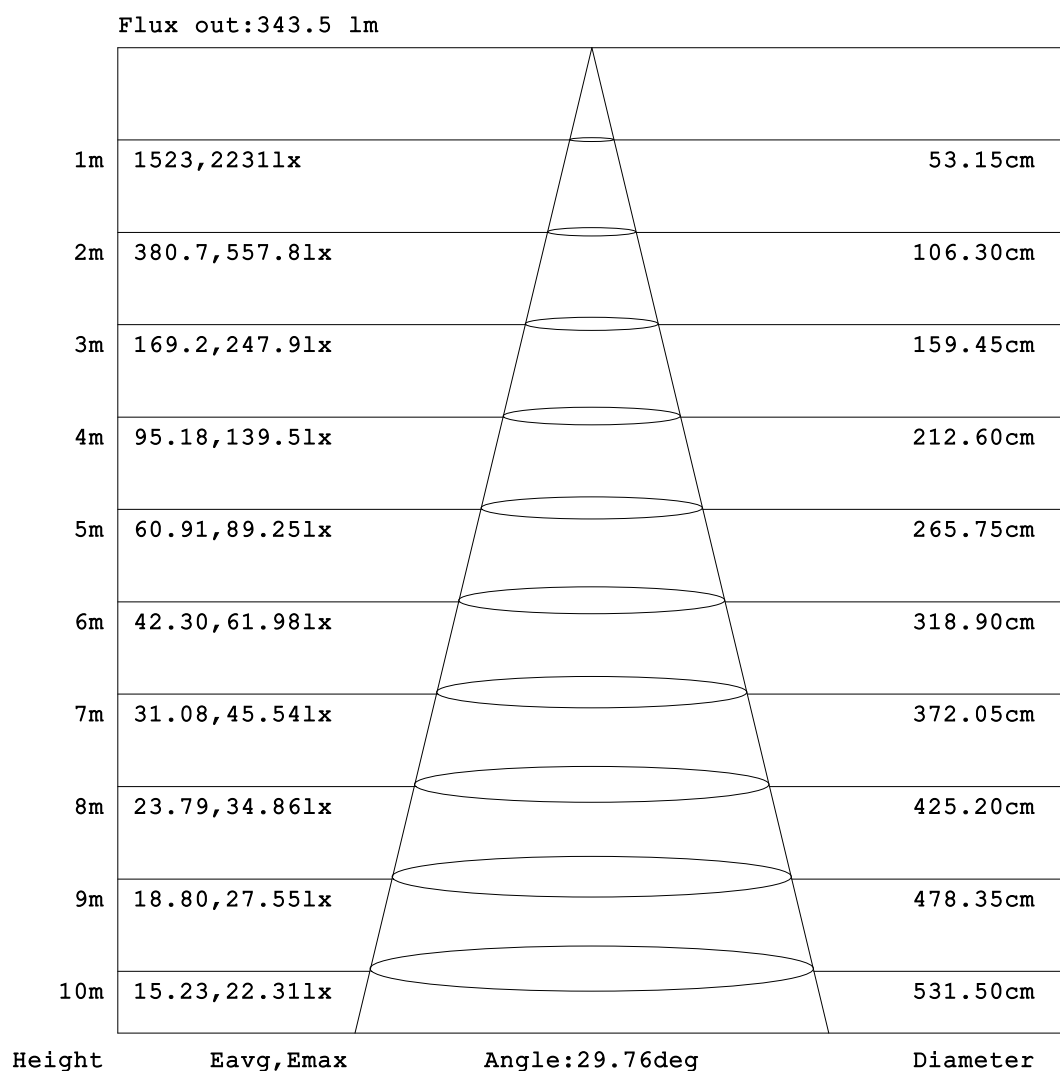
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-03-26

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:240.4V I:0.0538A P:12.3W PF:0.9477 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.96% KDisp:0.9649		Lamp Flux:782.304x1 lm
NAME: MD10-13-DW-16 3000K RA95 24D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming Lighting	SUR.: 26mm	Shielding Angle:



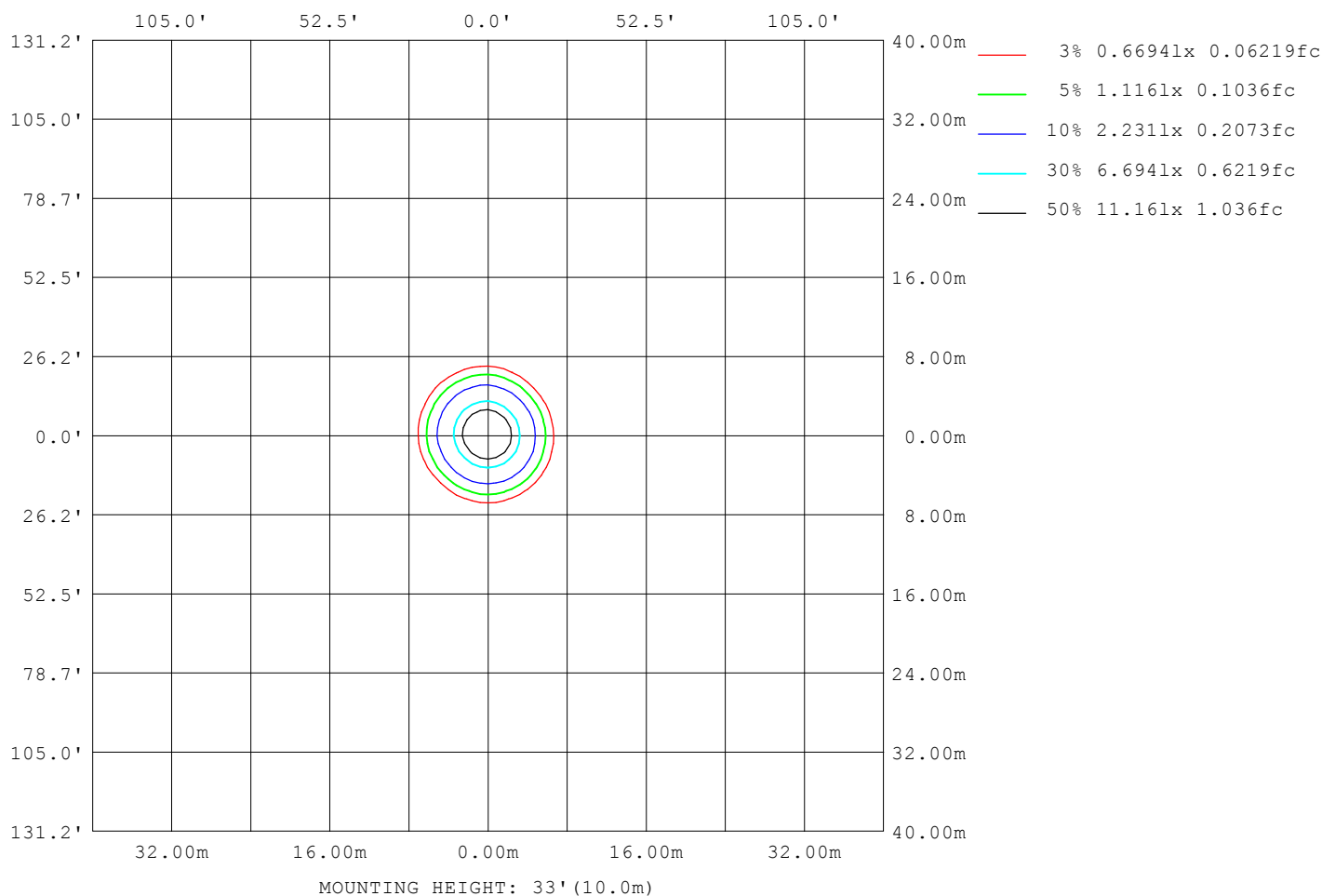
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-03-26

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:240.4V I:0.0538A P:12.3W PF:0.9477 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.96% KDisp:0.9649 Lamp Flux:782.304x1 lm		
NAME: MD10-13-DW-16 3000K RA95 24D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming Lighting	SUR.: 26mm	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-03-26

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:

## LED Avg.L Report

Test:U:240.4V I:0.0538A P:12.3W PF:0.9477 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.96% KDisp:0.9649 Lamp Flux:782.304x1 lm		
NAME: MD10-13-DW-16 3000K RA95 24D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming Lighting	SUR.: 26mm	Shielding Angle:

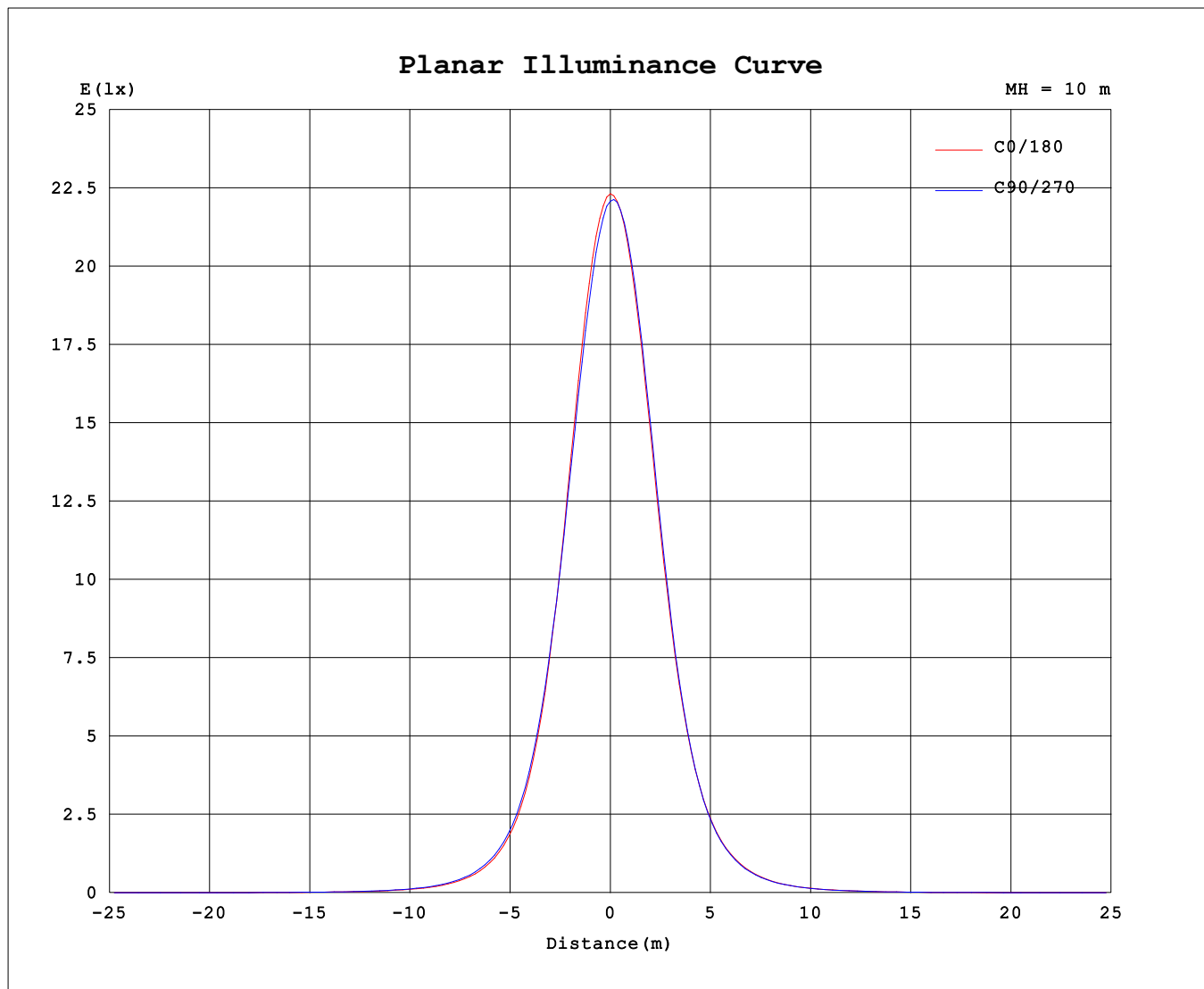
AvgL	cd/m2
L_0~180 (65) av	29286
L_0~180 (75) av	24546
L_0~180 (85) av	20144
L_90~270 (65) av	30519
L_90~270 (75) av	24637
L_90~270 (85) av	19786
L_45 (65) av	30282
L_45 (75) av	23983
L_45 (85) av	19384

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-03-26

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: 2024-03-26

$\gamma$  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	2215	2215	2215	2215	2215	2215	2215	2215
3.0	2146	2126	2122	2142	2171	2193	2194	2171
6.0	1963	1930	1925	1959	2021	2065	2059	2013
9.0	1685	1656	1654	1700	1781	1842	1825	1750
12.0	1354	1342	1345	1383	1479	1555	1525	1416
15.0	1026	1030	1038	1064	1161	1241	1202	1077
18.0	743.0	756.2	768.6	784.0	870.1	944.3	895.4	780.8
21.0	520.2	537.1	548.1	561.0	628.7	686.7	642.6	545.4
24.0	359.1	374.5	384.2	392.1	445.7	486.7	450.5	374.3
27.0	248.0	259.9	267.7	272.6	313.4	340.3	312.2	256.7
30.0	171.4	183.0	187.3	191.1	220.2	238.5	219.3	177.6
33.0	119.5	129.0	132.3	134.0	155.5	168.1	153.1	123.9
36.0	84.41	91.36	94.50	94.88	110.1	118.8	108.4	87.65
39.0	59.92	65.70	67.50	67.60	78.48	85.44	77.20	62.15
42.0	43.07	47.65	48.83	48.92	56.43	61.51	55.83	44.99
45.0	31.35	35.24	35.71	35.49	41.04	44.69	40.82	33.01
48.0	23.37	26.36	26.50	26.21	30.34	32.68	30.15	24.56
51.0	17.70	19.95	19.76	19.68	22.59	24.20	22.70	18.90
54.0	13.54	15.33	14.90	14.88	16.87	18.11	17.32	15.07
57.0	10.53	11.86	11.35	11.36	12.80	13.64	13.33	12.31
60.0	8.177	9.189	8.728	8.787	9.850	10.48	10.39	9.855
63.0	6.383	7.152	6.815	6.936	7.750	7.946	8.160	7.692
66.0	5.224	5.617	5.471	5.787	6.392	6.305	6.555	6.118
69.0	4.290	4.467	4.439	4.800	5.278	5.069	5.316	4.829
72.0	3.536	3.600	3.584	3.953	4.369	4.144	4.309	3.868
75.0	2.831	2.810	2.854	3.158	3.522	3.369	3.523	3.077
78.0	2.189	2.098	2.182	2.445	2.755	2.684	2.766	2.362
81.0	1.497	1.314	1.432	1.707	1.947	2.014	2.054	1.708
84.0	0.9241	0.8147	0.8454	1.020	1.212	1.278	1.292	1.034
87.0	0.1268	0.0106	0.0222	0.0229	0.4744	0.7067	0.7611	0.5096
90.0	0.0179	0.0090	0.0232	0.0074	0.0099	0.0106	0.0174	0.0087

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