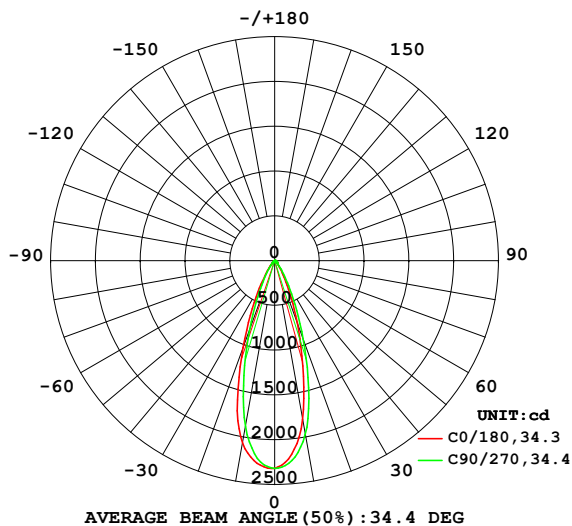


LUMINAIRE PHOTOMETRIC TEST REPORT

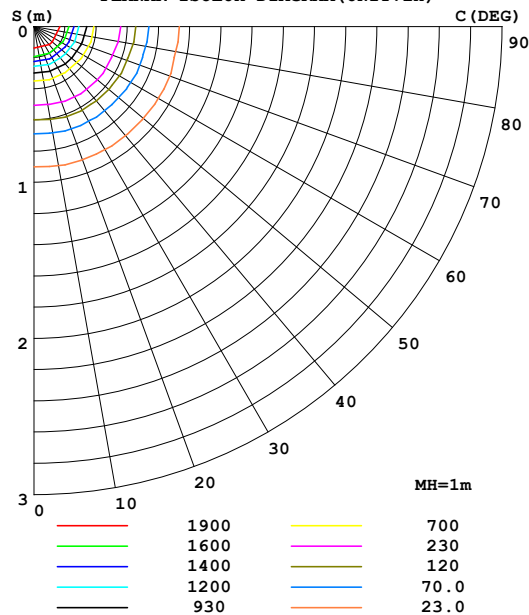
Test:U:240.4V I:0.0536A P:12.2W PF:0.9494 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.11% KDisp:0.9652 Lamp Flux:983.06x1 lm		
NAME: TR01-12-XX-01 4000K RA90 36D WHITE	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 57mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 80.41 lm/W
MODEL		I _{max} (cd)	2321	S/MH (C0/180)	0.60	
NOMINAL POWER(W)	12	LOR (%)	100.0	S/MH (C90/270)	0.55	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	983.06	η UP,DN (C0-180)	0.0,50.4	
NOMINAL FLUX(lm)	983.06	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,49.6	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	240.33	η down (%)	100.0	CIBSE SHR MAX	0.60	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-07

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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1801	1877	1973	2051	2067	1998	1877	1797	0- 10	203.1	203.1	20.7,20.7
20	744.3	826.0	938.5	1045	1035	932.6	824.4	748.8	10- 20	383.3	586.5	59.7,59.7
30	211.4	247.4	287.5	325.5	308.2	274.8	238.0	212.2	20- 30	234.2	820.7	83.5,83.5
40	65.13	71.80	78.32	80.69	73.25	68.32	64.76	63.18	30- 40	89.93	910.6	92.6,92.6
50	31.48	32.27	31.94	31.44	31.09	29.90	30.50	30.61	40- 50	34.75	945.4	96.2,96.2
60	13.32	14.46	16.81	18.76	18.01	15.21	13.06	12.67	50- 60	20.96	966.3	98.3,98.3
70	7.296	8.061	8.759	9.058	8.395	7.602	6.993	6.457	60- 70	10.88	977.2	99.4,99.4
80	1.036	1.595	2.587	3.322	3.108	2.254	1.438	0.9511	70- 80	5.250	982.4	99.9,99.9
90	0.0336	0.0222	0.0312	0.0329	0.0333	0.0225	0.0334	0.0287	80- 90	0.6104	983.1	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): 930.93 lm

%lum = 94.7%

%lamp = 94.7%

Conical surface Flux(120deg): 966.32 lm

%lum = 98.3%

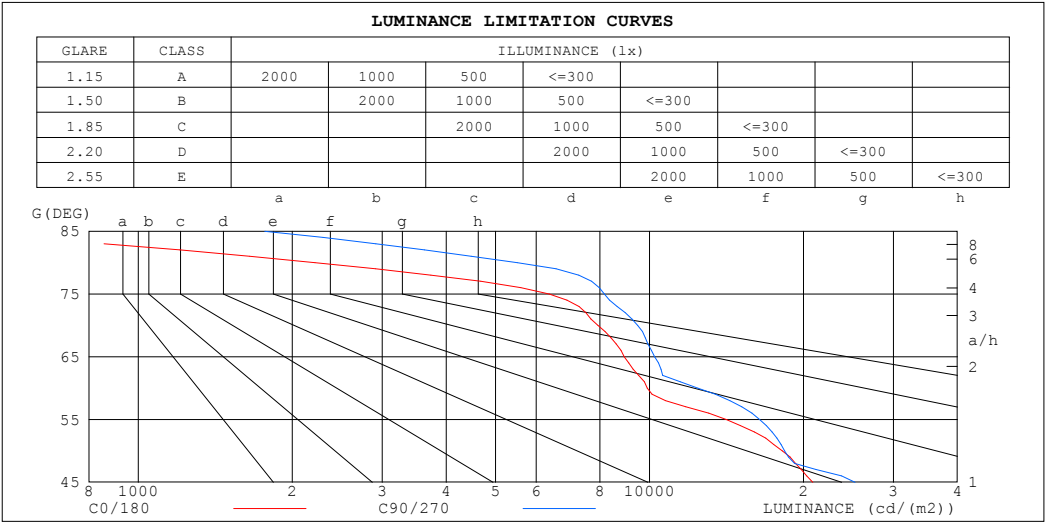
%lamp = 98.3%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-07

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:

LUMINANCE LIMITATION CURVES

Test:U:240.4V I:0.0536A P:12.2W PF:0.9494 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.11% KDisp:0.9652 Lamp Flux:983.06x1 lm		
NAME: TR01-12-XX-01 4000K RA90 36D WHITE	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 57mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	395	1767
80	2217	5511
75	6366	8159
70	7928	9476
65	8925	10234
60	9899	12436
55	14143	16430
50	18201	18385
45	20869	25242

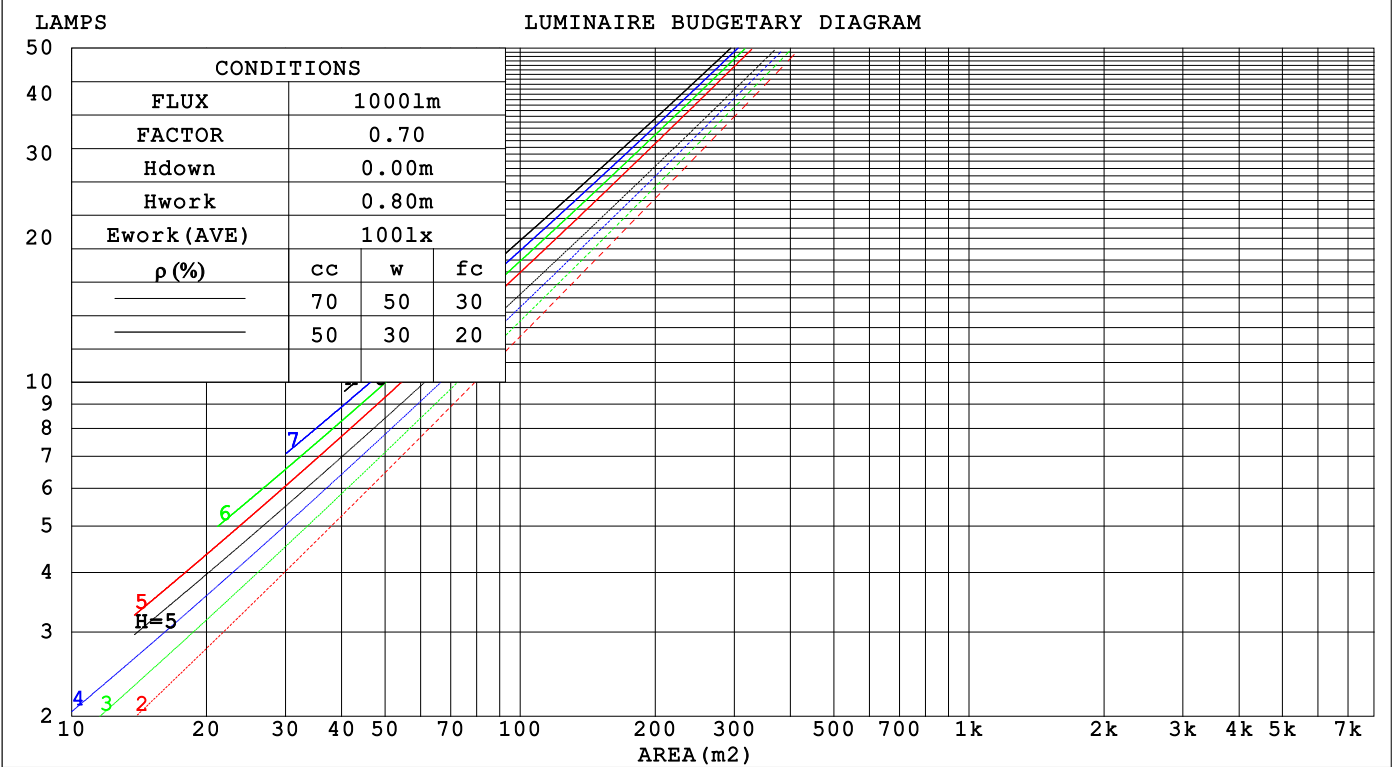
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-07

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.4V I:0.0536A P:12.2W PF:0.9494 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.11% KDisp:0.9652		
Lamp Flux:983.06x1 lm		
NAME: TR01-12-XX-01 4000K RA90 36D WHITE	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 57mm	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	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.95
2.0	1.05	1.01	.98	1.03	.90	.97	.90	.97	.95	.97	.95	.93	.94	.92	.91	.89
3.0	.99	.94	.91	.97	.93	.90	.95	.91	.89	.92	.90	.87	.90	.88	.86	.84
4.0	.93	.88	.85	.92	.88	.84	.90	.86	.83	.88	.85	.82	.86	.84	.81	.80
5.0	.89	.84	.80	.88	.83	.79	.86	.82	.79	.84	.81	.78	.83	.80	.77	.76
6.0	.84	.79	.75	.84	.79	.75	.82	.78	.75	.81	.77	.74	.80	.76	.74	.72
7.0	.81	.75	.72	.80	.75	.71	.79	.74	.71	.78	.74	.71	.77	.73	.70	.69
8.0	.77	.72	.68	.76	.72	.68	.75	.71	.68	.75	.71	.68	.74	.70	.67	.66
9.0	.74	.69	.65	.73	.69	.65	.72	.68	.65	.72	.68	.65	.71	.67	.65	.63
10.0	.71	.66	.63	.70	.66	.63	.70	.65	.62	.69	.65	.62	.68	.65	.62	.61



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-07

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:0.0536A P:12.2W PF:0.9494 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.11% KDisp:0.9652 Lamp Flux:983.06x1 lm		
NAME: TR01-12-XX-01 4000K RA90 36D WHITE	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 57mm	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	.165	.094	.030	.158	.090	.029	.145	.083	.027	.134	.077	.025	.123	.071	.023															
2.0	.155	.085	.026	.150	.082	.025	.139	.077	.024	.130	.073	.023	.121	.068	.022															
3.0	.146	.078	.023	.142	.076	.023	.133	.072	.022	.125	.068	.021	.117	.065	.020															
4.0	.138	.072	.021	.134	.070	.021	.126	.067	.020	.119	.064	.019	.113	.061	.019															
5.0	.130	.066	.019	.127	.065	.019	.120	.063	.018	.114	.060	.018	.109	.058	.017															
6.0	.124	.062	.018	.121	.061	.018	.115	.059	.017	.110	.057	.017	.105	.055	.016															
7.0	.118	.058	.016	.115	.057	.016	.110	.056	.016	.105	.054	.016	.101	.052	.015															
8.0	.112	.055	.015	.110	.054	.015	.105	.053	.015	.101	.051	.015	.097	.050	.015															
9.0	.107	.052	.014	.105	.051	.014	.101	.050	.014	.097	.049	.014	.094	.048	.014															
10.0	.103	.049	.014	.101	.049	.014	.097	.048	.013	.094	.047	.013	.091	.046	.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	.146	.135	.126	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.154	.133	.115	.132	.114	.099	.090	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.092	.121	.098	.080	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.129	.099	.075	.111	.085	.065	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.120	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.112	.077	.052	.096	.067	.045	.066	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.105	.069	.044	.090	.060	.039	.062	.042	.027	.036	.025	.016	.012	.008	.005	
8.0	.099	.063	.038	.085	.054	.033	.059	.038	.024	.034	.023	.014	.011	.007	.005	
9.0	.093	.057	.033	.080	.050	.029	.056	.035	.020	.032	.021	.012	.011	.007	.004	
10.0	.088	.053	.029	.076	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-07

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:0.0536A P:12.2W PF:0.9494 Freq:49.99Hz										
UTHDi:0.17% ITHDi:18.11% KDisp:0.9652					Lamp Flux:983.06x1 lm					
NAME: TR01-12-XX-01 4000K RA90 36D WHITE					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: Norming lighting					SUR.: 57mm			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	16.8	17.6	17.0	17.8	18.0	17.6	18.5	17.9	18.6	18.8
3H	17.2	18.0	17.4	18.1	18.3	18.0	18.8	18.3	19.0	19.2
4H	17.3	18.1	17.6	18.3	18.5	18.2	18.9	18.4	19.1	19.3
6H	17.3	18.0	17.6	18.2	18.5	18.2	18.9	18.5	19.2	19.4
8H	17.3	17.9	17.6	18.2	18.4	18.2	18.9	18.5	19.1	19.4
12H	17.2	17.9	17.5	18.1	18.4	18.2	18.8	18.5	19.1	19.4
4H 2H	16.9	17.7	17.2	17.9	18.1	17.7	18.4	18.0	18.6	18.9
3H	17.5	18.1	17.8	18.4	18.6	18.2	18.8	18.5	19.1	19.4
4H	17.7	18.2	18.0	18.5	18.8	18.4	19.0	18.8	19.3	19.6
6H	17.7	18.2	18.0	18.5	18.9	18.6	19.1	18.9	19.4	19.7
8H	17.6	18.1	18.0	18.4	18.8	18.5	19.0	18.9	19.4	19.7
12H	17.6	18.0	18.0	18.4	18.8	18.5	18.9	18.9	19.3	19.7
8H 4H	17.7	18.2	18.1	18.5	18.9	18.4	18.9	18.8	19.3	19.6
6H	17.7	18.1	18.1	18.5	18.9	18.6	19.0	19.0	19.4	19.8
8H	17.7	18.0	18.1	18.4	18.9	18.6	18.9	19.0	19.3	19.8
12H	17.6	17.9	18.1	18.3	18.8	18.5	18.8	19.0	19.2	19.7
12H 4H	17.7	18.1	18.1	18.5	18.8	18.4	18.8	18.8	19.2	19.6
6H	17.7	18.0	18.1	18.4	18.9	18.5	18.9	19.0	19.3	19.7
8H	17.6	17.9	18.1	18.4	18.8	18.5	18.8	19.0	19.2	19.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.0 / - 1.5					+ 1.6 / - 1.4				
1.5H	+ 1.6 / - 0.8					+ 2.6 / - 1.1				
2.0H	+ 1.4 / - 1.6					+ 1.7 / - 1.4				

CIE Pub.117, 983.1 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -0.1$)
Area: 0.0027 m²

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-07

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:0.0536A P:12.2W PF:0.9494 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.11% KDisp:0.9652 Lamp Flux:983.06x1 lm		
NAME: TR01-12-XX-01 4000K RA90 36D WHITE	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 57mm	Shielding Angle:

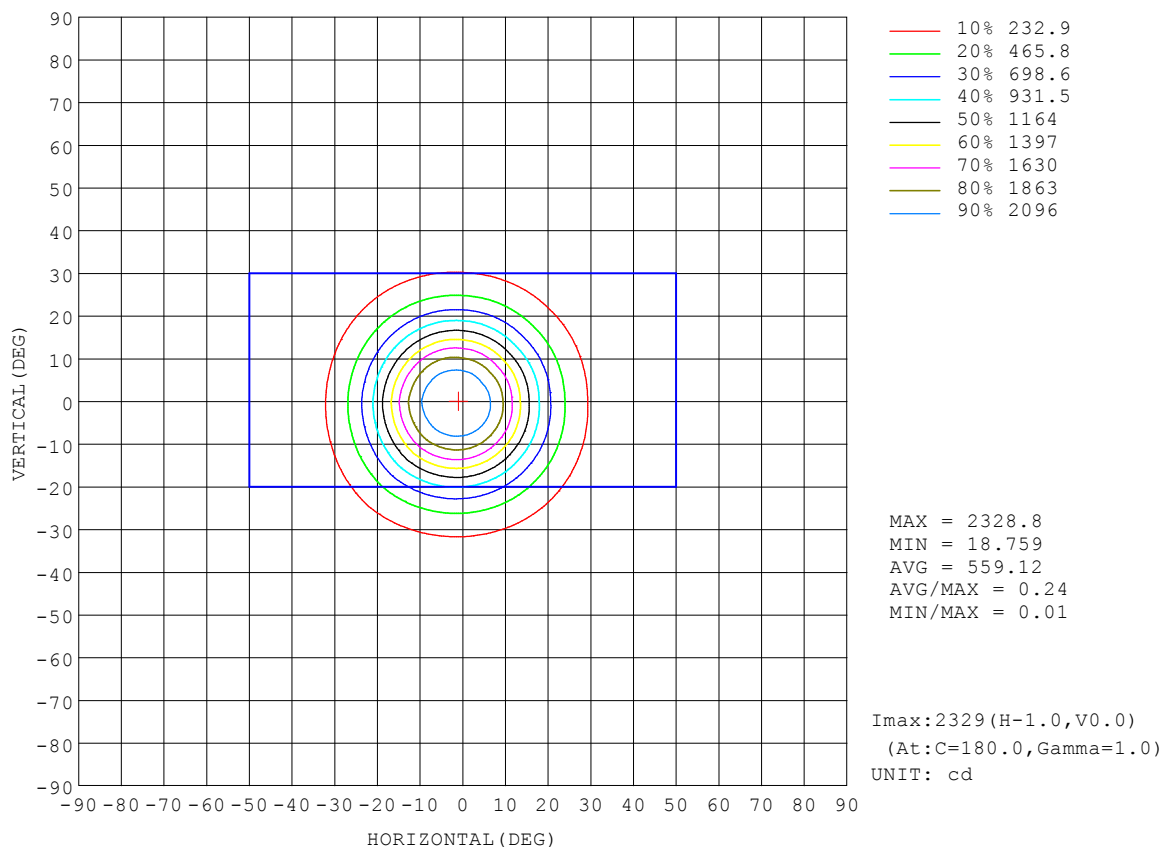
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	86	80	77	86	80	76	73
0.80	94	88	85	94	88	85	92	87	84	80
1.00	99	93	89	98	93	89	96	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	97	104	100	97	102	99	96	91
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	103	108	105	102	105	103	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
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: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-08-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 γ 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:0.0536A P:12.2W PF:0.9494 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.11% KDisp:0.9652 Lamp Flux:983.06x1 lm		
NAME: TR01-12-XX-01 4000K RA90 36D WHITE	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 57mm	Shielding Angle:

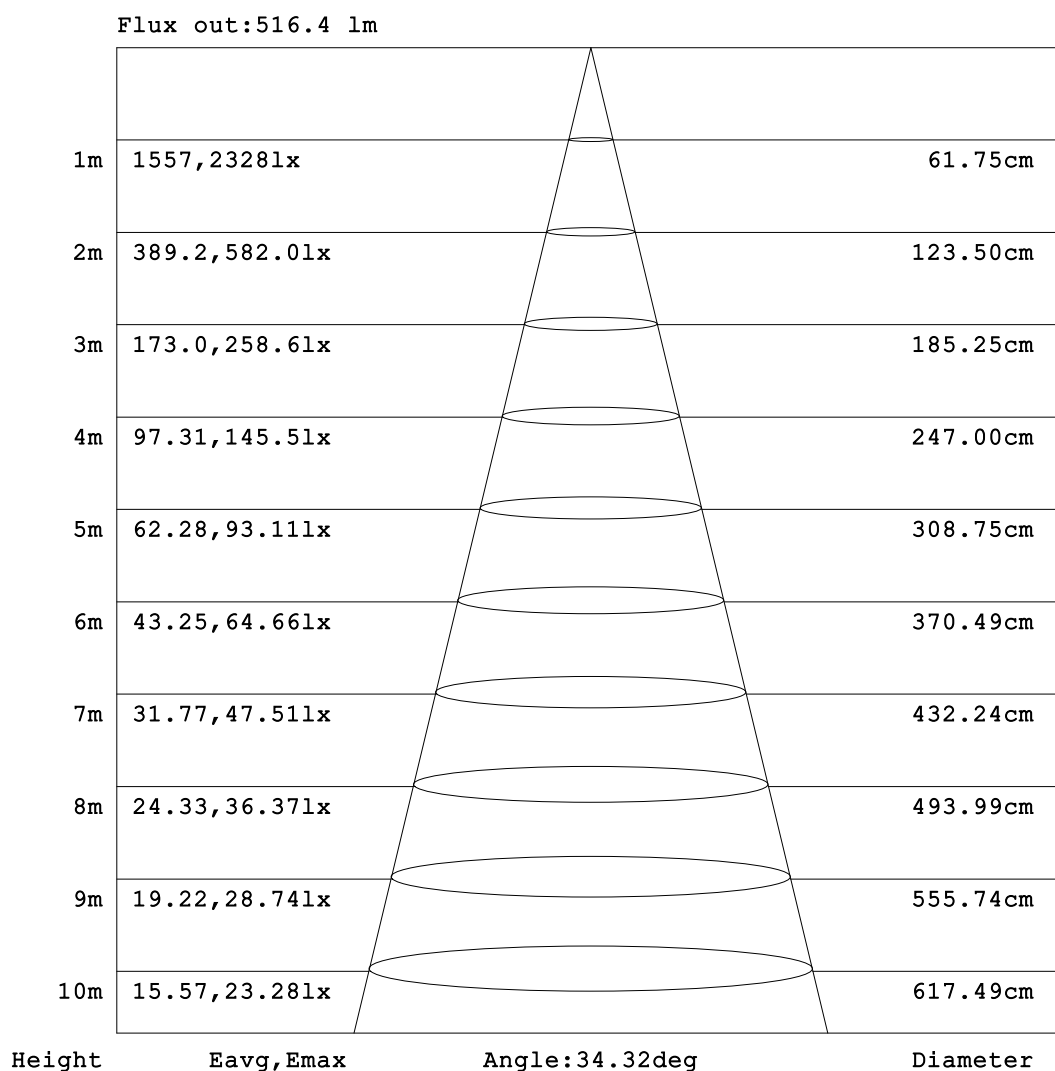


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-07

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:0.0536A P:12.2W PF:0.9494 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.11% KDisp:0.9652 Lamp Flux:983.06x1 lm		
NAME: TR01-12-XX-01 4000K RA90 36D WHITE	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 57mm	Shielding Angle:



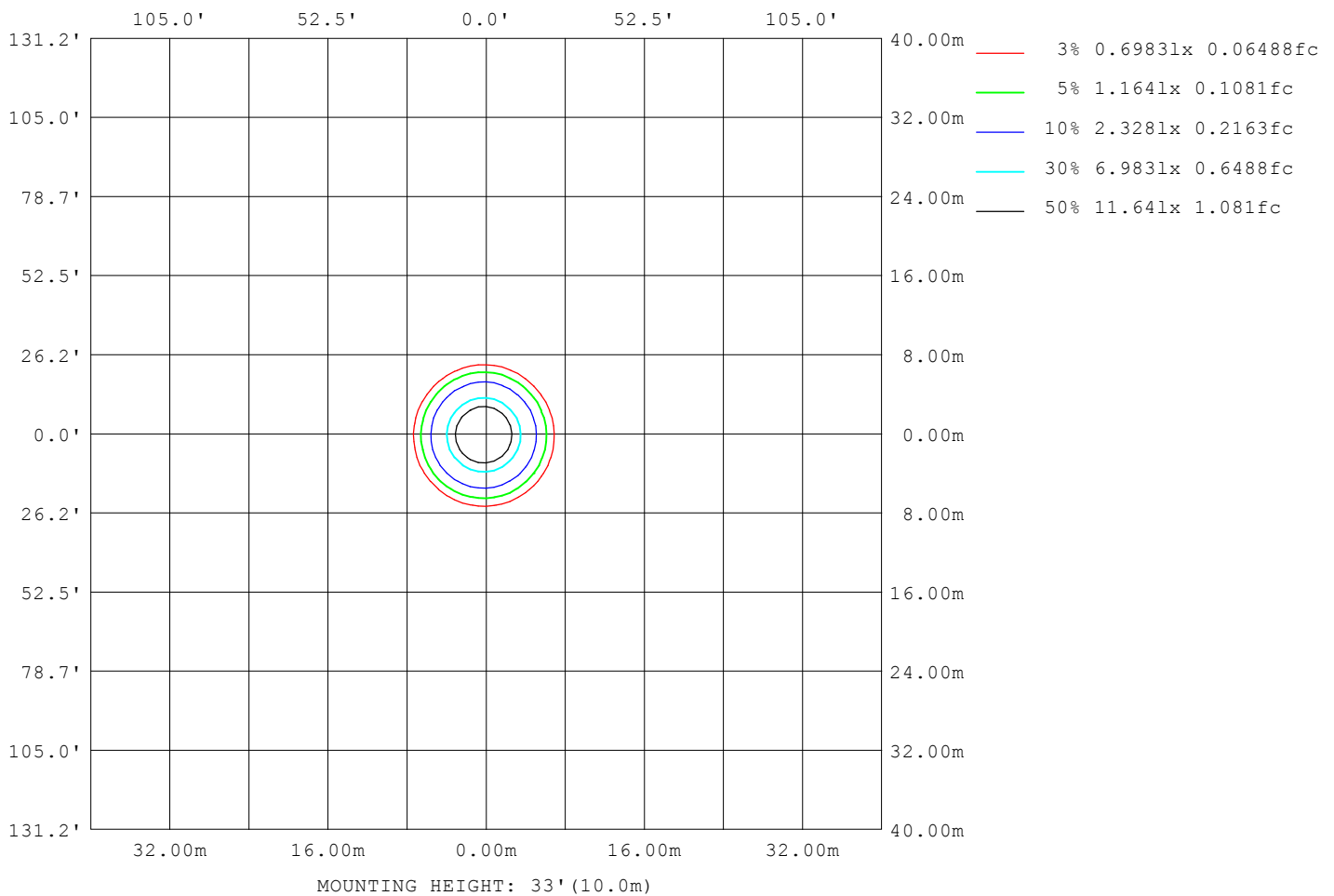
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360 DEG
C Interval: 45.0 DEG
Test Speed: HIGH
Temperature: 25.3 DEG
Operators: DAMIN
Test Date: 2024-08-07

γ Range: 0 - 90 DEG
 γ Interval: 1.0 DEG
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:0.0536A P:12.2W PF:0.9494 Freq:49.99Hz		
UTHDi:0.17% ITHDi:18.11% KDisp:0.9652 Lamp Flux:983.06x1 lm		
NAME: TR01-12-XX-01 4000K RA90 36D WHITE	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 57mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-08-07

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:0.0536A P:12.2W PF:0.9494 Freq:49.99Hz UTHDi:0.17% ITHDi:18.11% KDisp:0.9652 Lamp Flux:983.06x1 lm		
NAME: TR01-12-XX-01 4000K RA90 36D WHITE	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 57mm	Shielding Angle:

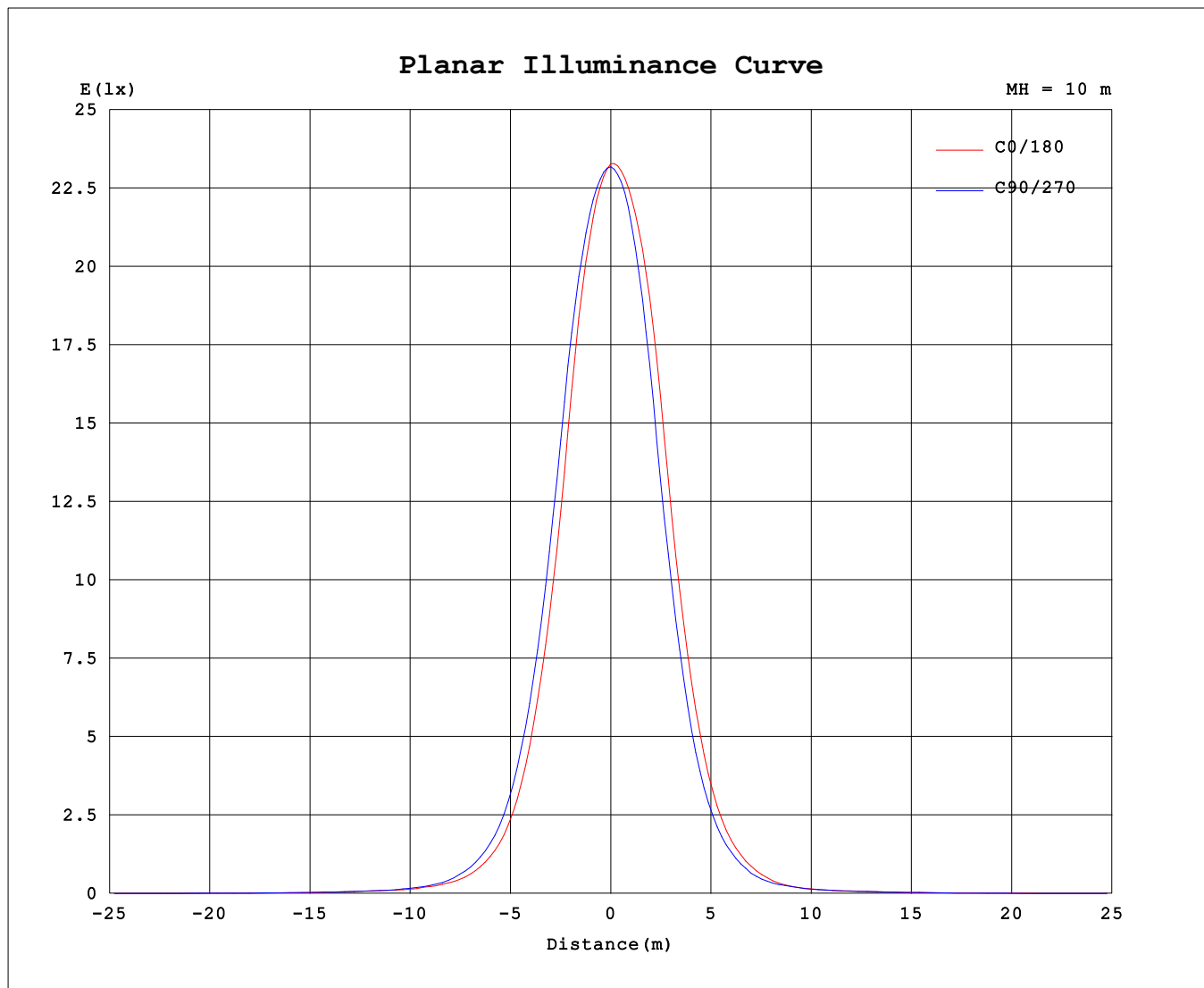
AvgL	cd/m2
L_0~180 (65) av	9493
L_0~180 (75) av	7039
L_0~180 (85) av	1567
L_90~270 (65) av	9441
L_90~270 (75) av	7325
L_90~270 (85) av	1225
L_45 (65) av	9461
L_45 (75) av	7255
L_45 (85) av	1359

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-07

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: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-08-07

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:

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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:

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Photometric Data Table [cd]

G/C	0.0	45.0	90.0	135.0	180.0	225.0	270.0	315.0
0.0	2320	2320	2320	2320	2320	2320	2320	2320
3.0	2255	2275	2290	2303	2307	2298	2282	2258
6.0	2116	2158	2203	2235	2243	2223	2167	2115
9.0	1899	1968	2045	2110	2125	2068	1969	1895
12.0	1570	1677	1801	1901	1917	1822	1678	1574
15.0	1218	1325	1470	1601	1609	1473	1330	1234
18.0	919.3	1012	1142	1255	1249	1136	1016	919.7
21.0	664.5	741.6	849.8	948.1	932.7	839.0	734.0	665.5
24.0	460.0	523.8	611.0	688.2	669.7	585.0	511.7	462.4
27.0	311.7	361.6	420.6	478.6	459.2	405.9	352.1	314.0
30.0	211.4	247.4	287.5	325.5	308.2	274.8	238.0	212.2
33.0	144.9	170.8	198.5	221.0	208.7	185.4	159.6	145.7
36.0	98.40	117.6	135.0	145.3	136.0	120.2	105.1	96.67
39.0	72.11	80.51	90.49	94.46	85.30	76.36	71.81	69.51
42.0	55.28	59.53	62.79	61.27	56.50	54.69	54.93	53.39
45.0	39.71	44.78	48.24	45.06	42.68	41.81	39.15	38.52
48.0	34.73	34.93	34.77	35.41	33.45	32.10	33.42	33.75
51.0	29.61	30.88	30.75	30.40	30.04	28.86	29.05	28.96
54.0	23.80	26.16	26.88	27.22	26.69	25.32	24.24	23.19
57.0	17.26	20.34	22.30	23.51	22.77	20.83	18.41	16.48
60.0	13.32	14.46	16.81	18.76	18.01	15.21	13.06	12.67
63.0	11.34	12.39	12.92	13.43	12.80	11.76	11.10	10.67
66.0	9.624	10.50	11.08	11.44	10.85	9.916	9.272	8.948
69.0	7.895	8.705	9.377	9.647	9.003	8.174	7.560	7.108
72.0	6.244	6.763	7.482	7.852	7.164	6.465	5.915	5.333
75.0	4.433	5.170	5.707	6.174	5.404	5.024	4.530	3.912
78.0	2.089	3.057	4.088	4.745	4.096	3.531	2.623	1.938
81.0	0.6946	1.102	1.895	2.586	2.437	1.682	1.008	0.6352
84.0	0.1667	0.3053	0.6487	0.9982	0.9525	0.5659	0.2707	0.1343
87.0	0.0334	0.0468	0.1502	0.2626	0.2438	0.1096	0.0510	0.0217
90.0	0.0336	0.0222	0.0312	0.0329	0.0333	0.0225	0.0334	0.0287

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