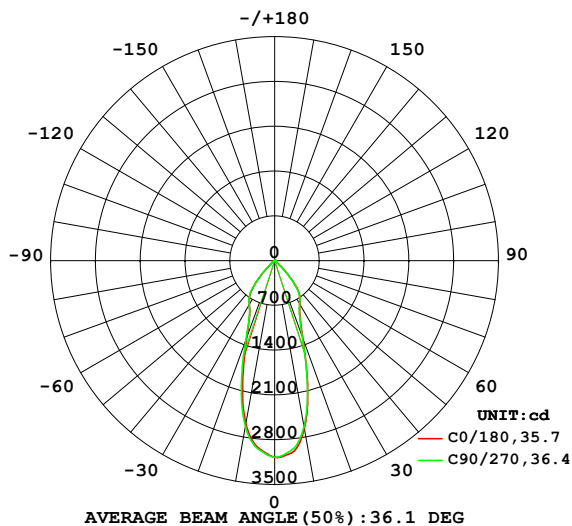


LUMINAIRE PHOTOMETRIC TEST REPORT

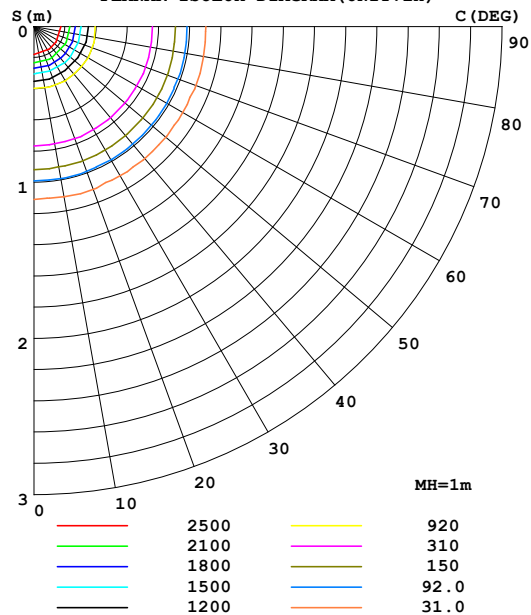
Test:U:240.4V I:0.0770A P:18.0W PF:0.9714 Freq:49.99Hz		
UTHDi:0.17% ITHDi:17.61% KDisp:0.9863		Lamp Flux:1905.99x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 2700K RA90 38D	18WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 105.97 lm/W
MODEL		Imax (cd)	3078	S/MH(C0/180)	0.59	
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	0.61	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1906.0	η UP,DN(C0-180)	0.0,50.0	
NOMINAL FLUX(lm)	1905.99	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.0	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	240.38	η down (%)	100.0	CIBSE SHR MAX	0.60	

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:2024-10-16

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2677	2648	2644	2620	2594	2613	2638	2668	0- 10	273.6	273.6	14.4,14.4
20	1294	1300	1273	1265	1272	1295	1327	1289	10- 20	538.8	812.4	42.6,42.6
30	788.3	783.1	786.0	795.8	795.0	790.6	796.8	787.7	20- 30	441.0	1253	65.8,65.8
40	509.4	498.8	488.3	486.4	475.7	476.8	489.9	497.4	30- 40	418.3	1672	87.7,87.7
50	49.35	44.99	46.75	51.30	52.63	55.97	55.39	51.71	40- 50	178.6	1850	97.1,97.1
60	18.96	18.83	19.33	19.54	19.20	20.78	20.45	19.34	50- 60	28.03	1878	98.5,98.5
70	9.287	9.538	9.965	9.867	10.15	10.97	10.64	9.810	60- 70	13.38	1892	99.2,99.2
80	7.667	7.369	7.449	8.129	8.394	9.176	9.526	8.447	70- 80	10.42	1902	99.8,99.8
90	0.0773	0.0725	0.0862	0.0657	0.0661	0.0642	0.0740	0.0663	80- 90	3.976	1906	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): 1802 lm

%lum = 94.5%

%lamp = 94.5%

Conical surface Flux(120deg): 1878.2 lm

%lum = 98.5%

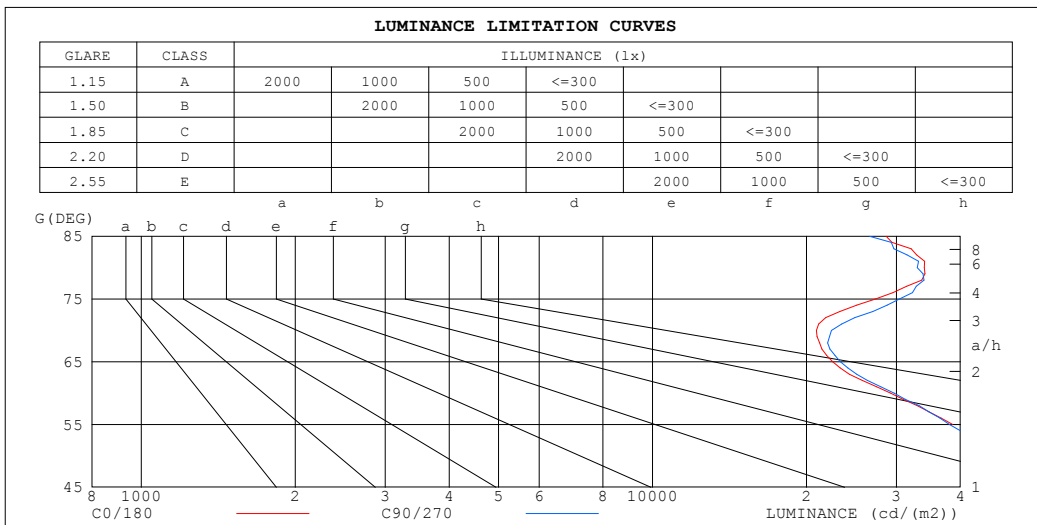
%lamp = 98.5%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 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:

LUMINANCE LIMITATION CURVES

Test:U:240.4V I:0.0770A P:18.0W PF:0.9714 Freq:49.99Hz			Lamp Flux:1905.99x1 lm		
UTHDi:0.17% ITHDi:17.61% KDisp:0.9863					
NAME: FUSION-MD23-AHD-018-COB-02SC 2700K RA90 38D 18WTYPE:			WEIGHT:		
SPEC.:			DIM.:		
MFR.: Norming lighting			SUR.: 41mm		
			Shielding Angle:		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	28667	26582
80	34026	32963
75	27276	30388
70	20926	22387
65	22521	23305
60	29225	29705
55	38646	38138
50	59170	55884
45	254903	236163

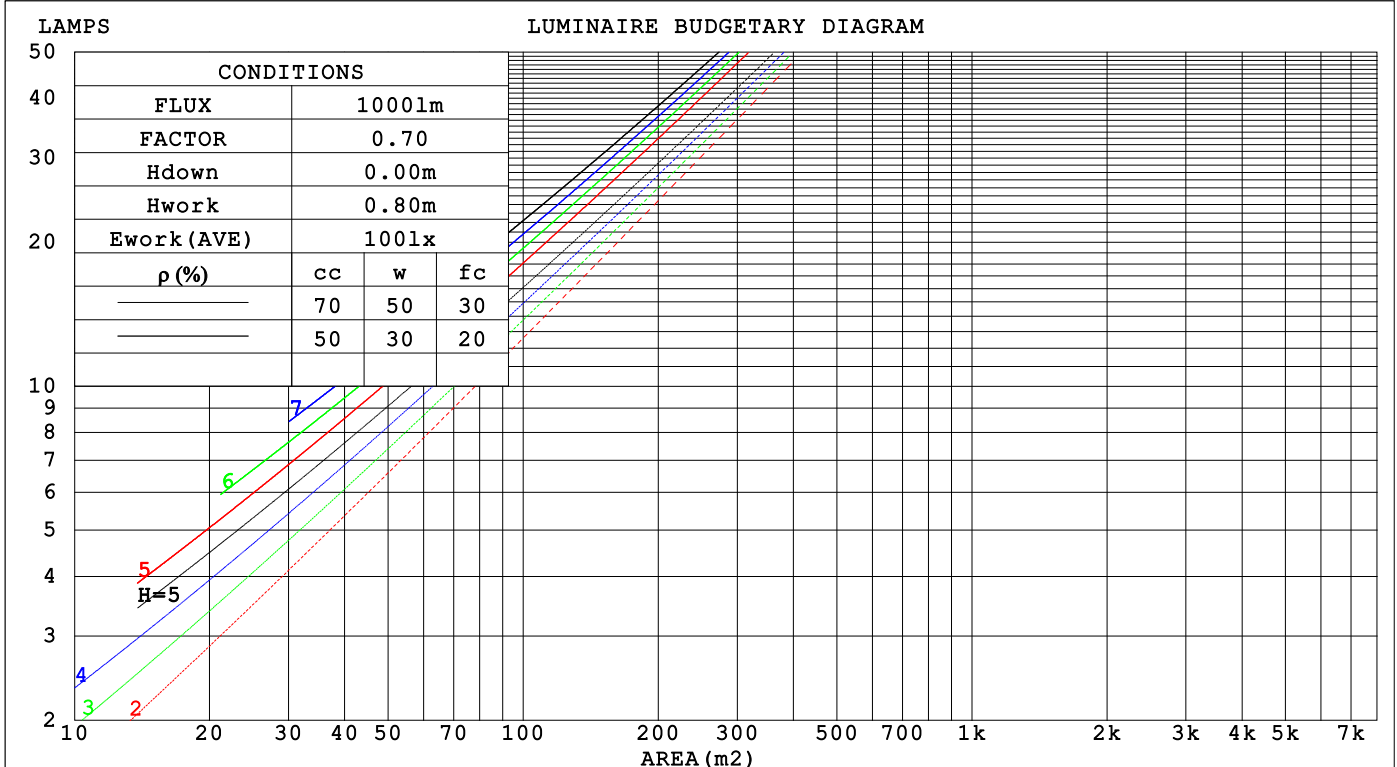
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-10-16

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.4V I:0.0770A P:18.0W PF:0.9714 Freq:49.99Hz		
UTHDi:0.17% ITHDi:17.61% KDisp:0.9863		Lamp Flux:1905.99x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 2700K RA90 38D	18W TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.86
3.0	.96	.91	.87	.94	.90	.86	.92	.88	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.84	.79	.88	.83	.79	.86	.82	.78	.84	.80	.77	.82	.79	.76	.75
5.0	.84	.78	.73	.83	.77	.73	.81	.76	.72	.79	.75	.72	.78	.74	.71	.70
6.0	.79	.73	.68	.78	.72	.68	.76	.71	.68	.75	.70	.67	.73	.70	.67	.65
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.62	.61
8.0	.70	.64	.60	.69	.64	.60	.68	.63	.59	.67	.62	.59	.66	.62	.59	.57
9.0	.66	.60	.56	.66	.60	.56	.65	.59	.56	.64	.59	.56	.63	.59	.56	.54
10.0	.63	.57	.53	.62	.57	.53	.61	.56	.53	.61	.56	.53	.60	.56	.53	.51



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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:240.4V I:0.0770A P:18.0W PF:0.9714 Freq:49.99Hz			UTHDi:0.17% ITHDi:17.61% KDisp:0.9863			Lamp Flux:1905.99x1 lm		
NAME: FUSION-MD23-AHD-018-COB-02SC 2700K RA90 38D			18WTYPE:			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	.183	.104	.033	.176	.101	.032	.164	.094	.030	.152	.088	.028	.141	.082	.026		
2.0	.175	.096	.029	.169	.093	.029	.158	.088	.027	.149	.083	.026	.140	.079	.025		
3.0	.166	.088	.026	.161	.086	.026	.152	.082	.025	.144	.079	.024	.136	.075	.023		
4.0	.158	.082	.024	.153	.080	.024	.146	.077	.023	.138	.074	.022	.132	.071	.022		
5.0	.150	.076	.022	.146	.075	.022	.139	.073	.021	.133	.070	.021	.127	.068	.020		
6.0	.143	.071	.020	.139	.070	.020	.133	.068	.020	.128	.066	.020	.122	.064	.019		
7.0	.136	.067	.019	.133	.066	.019	.128	.065	.019	.123	.063	.018	.118	.061	.018		
8.0	.130	.063	.018	.127	.063	.018	.122	.061	.017	.118	.060	.017	.114	.058	.017		
9.0	.124	.060	.017	.122	.059	.017	.117	.058	.016	.113	.057	.016	.110	.056	.016		
10.0	.119	.057	.016	.117	.056	.016	.113	.055	.016	.109	.054	.015	.106	.053	.015		

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	.172	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016		
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013		
3.0	.144	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010		
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009		
5.0	.126	.087	.059	.108	.076	.051	.074	.053	.036	.043	.031	.022	.014	.010	.007		
6.0	.118	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006		
7.0	.112	.071	.042	.096	.061	.036	.066	.043	.026	.039	.025	.015	.012	.008	.005		
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004		
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004		
10.0	.096	.055	.027	.083	.048	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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:240.4V I:0.0770A P:18.0W PF:0.9714 Freq:49.99Hz											
UTHDi:0.17% ITHDi:17.61% KDisp:0.9863					Lamp Flux:1905.99x1 lm						
NAME: FUSION-MD23-AHD-018-COB-02SC 2700K RA90 38D					18WTYPE:			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	2H	27.3	28.2	27.5	28.4	28.6	27.2	28.1	27.4	28.3	28.5
	3H	27.2	28.0	27.4	28.2	28.4	27.0	27.9	27.3	28.1	28.3
	4H	27.1	27.9	27.4	28.2	28.4	27.0	27.8	27.3	28.1	28.3
	6H	27.1	27.9	27.4	28.1	28.4	27.0	27.8	27.3	28.0	28.3
	8H	27.1	27.8	27.4	28.1	28.4	27.0	27.7	27.3	28.0	28.3
	12H	27.1	27.8	27.4	28.1	28.3	27.0	27.7	27.3	27.9	28.2
4H	2H	27.0	27.9	27.3	28.1	28.3	26.9	27.8	27.2	28.0	28.2
	3H	26.9	27.7	27.3	27.9	28.2	26.8	27.5	27.1	27.8	28.1
	4H	26.9	27.6	27.3	27.9	28.2	26.8	27.5	27.2	27.8	28.1
	6H	26.9	27.5	27.3	27.9	28.2	26.9	27.4	27.2	27.8	28.1
	8H	27.0	27.5	27.4	27.8	28.2	26.9	27.4	27.3	27.8	28.1
	12H	26.9	27.4	27.4	27.8	28.2	26.9	27.3	27.3	27.7	28.1
8H	4H	26.8	27.4	27.2	27.7	28.1	26.7	27.3	27.1	27.6	28.0
	6H	26.9	27.3	27.3	27.7	28.1	26.8	27.3	27.2	27.6	28.1
	8H	26.9	27.3	27.4	27.7	28.2	26.8	27.2	27.3	27.6	28.1
	12H	27.0	27.3	27.4	27.7	28.2	26.9	27.2	27.3	27.6	28.1
12H	4H	26.8	27.3	27.2	27.6	28.0	26.7	27.2	27.1	27.6	27.9
	6H	26.9	27.3	27.3	27.7	28.1	26.8	27.2	27.2	27.6	28.0
	8H	26.9	27.3	27.4	27.7	28.2	26.8	27.2	27.3	27.6	28.1
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 2.3 / - 6.9				+ 2.3 / - 6.8					
1.5H		+ 4.4 / - 6.8				+ 4.4 / - 6.6					
2.0H		+ 6.4 / - 2.8				+ 6.1 / - 2.5					

CIE Pub.117, 1906 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.2$)
Area: 0.0013 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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:240.4V I:0.0770A P:18.0W PF:0.9714 Freq:49.99Hz		
UTHDi:0.17% ITHDi:17.61% KDisp:0.9863		Lamp Flux:1905.99x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 2700K RA90 38D	18WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

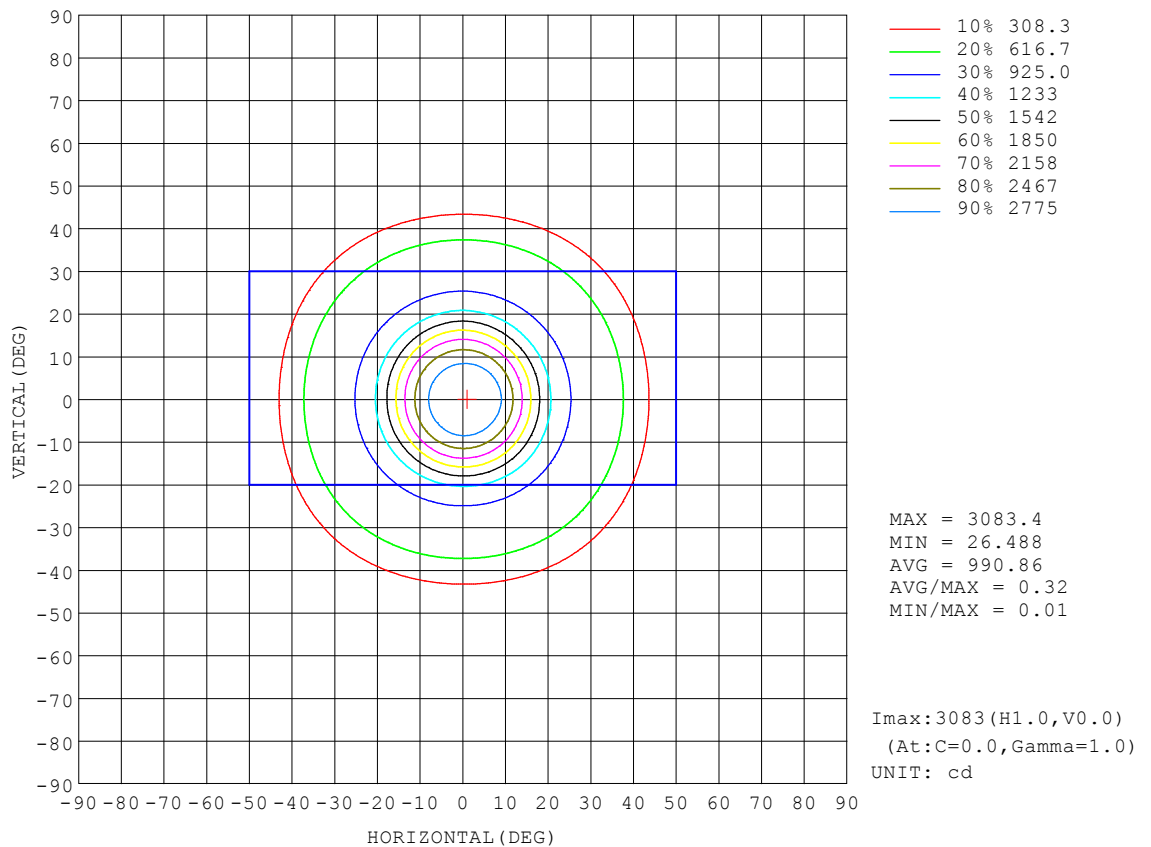
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	83	77	73	82	76	72	69
0.80	92	85	81	91	85	81	90	84	81	77
1.00	97	91	87	96	90	87	94	90	86	82
1.25	101	96	92	100	95	92	98	94	91	86
1.50	104	99	96	103	98	95	101	97	94	89
2.00	107	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	104	102	99	93
3.00	111	107	104	109	106	103	106	103	101	95
4.00	113	110	108	111	108	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	97
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:2024-10-16

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:

ISOCANDELA DIAGRAM

Test:U:240.4V I:0.0770A P:18.0W PF:0.9714 Freq:49.99Hz		
UTHDi:0.17% ITHDi:17.61% KDisp:0.9863		Lamp Flux:1905.99x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 2700K RA90 38D	18WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

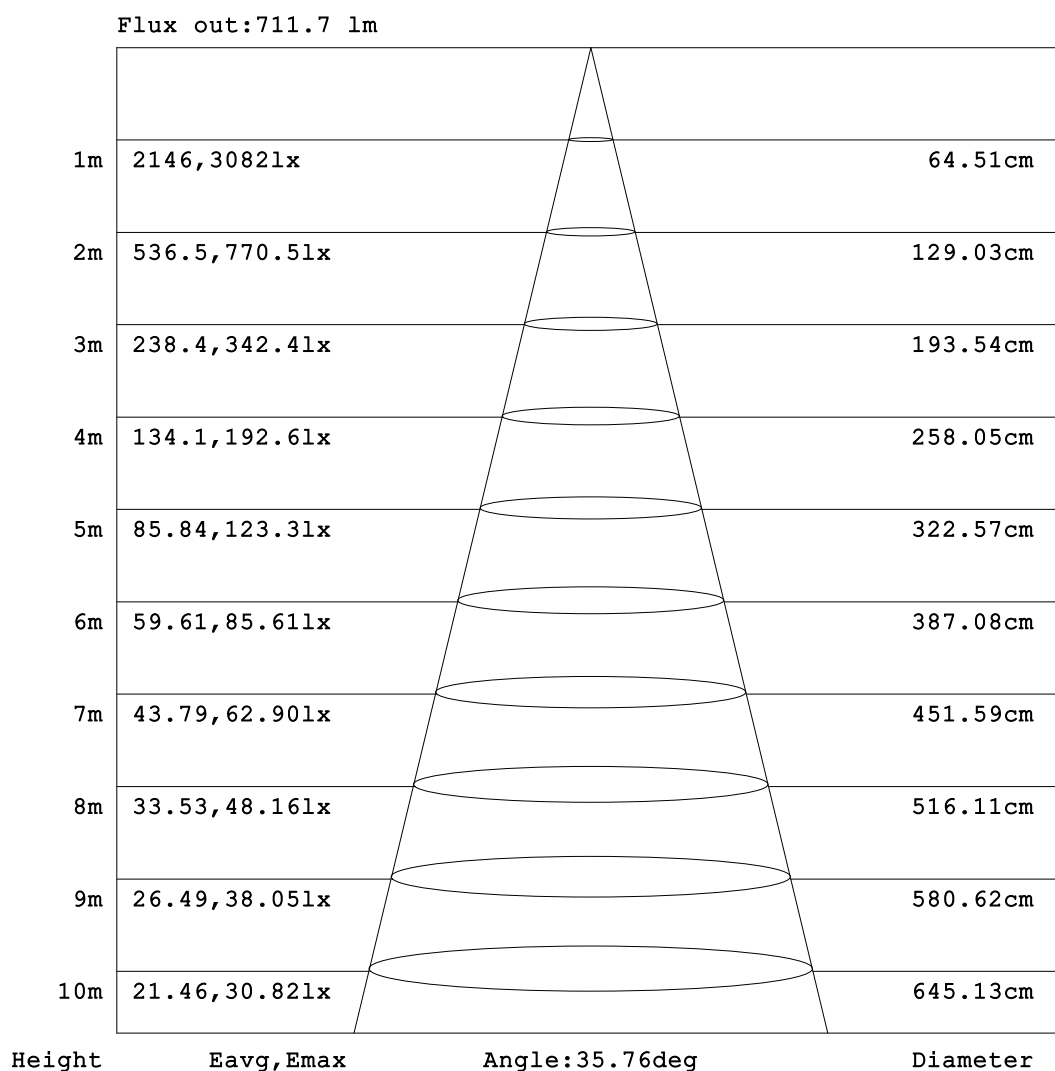


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-10-16

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:240.4V I:0.0770A P:18.0W PF:0.9714 Freq:49.99Hz		
UTHDi:0.17% ITHDi:17.61% KDisp:0.9863		Lamp Flux:1905.99x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 2700K RA90 38D	18W TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



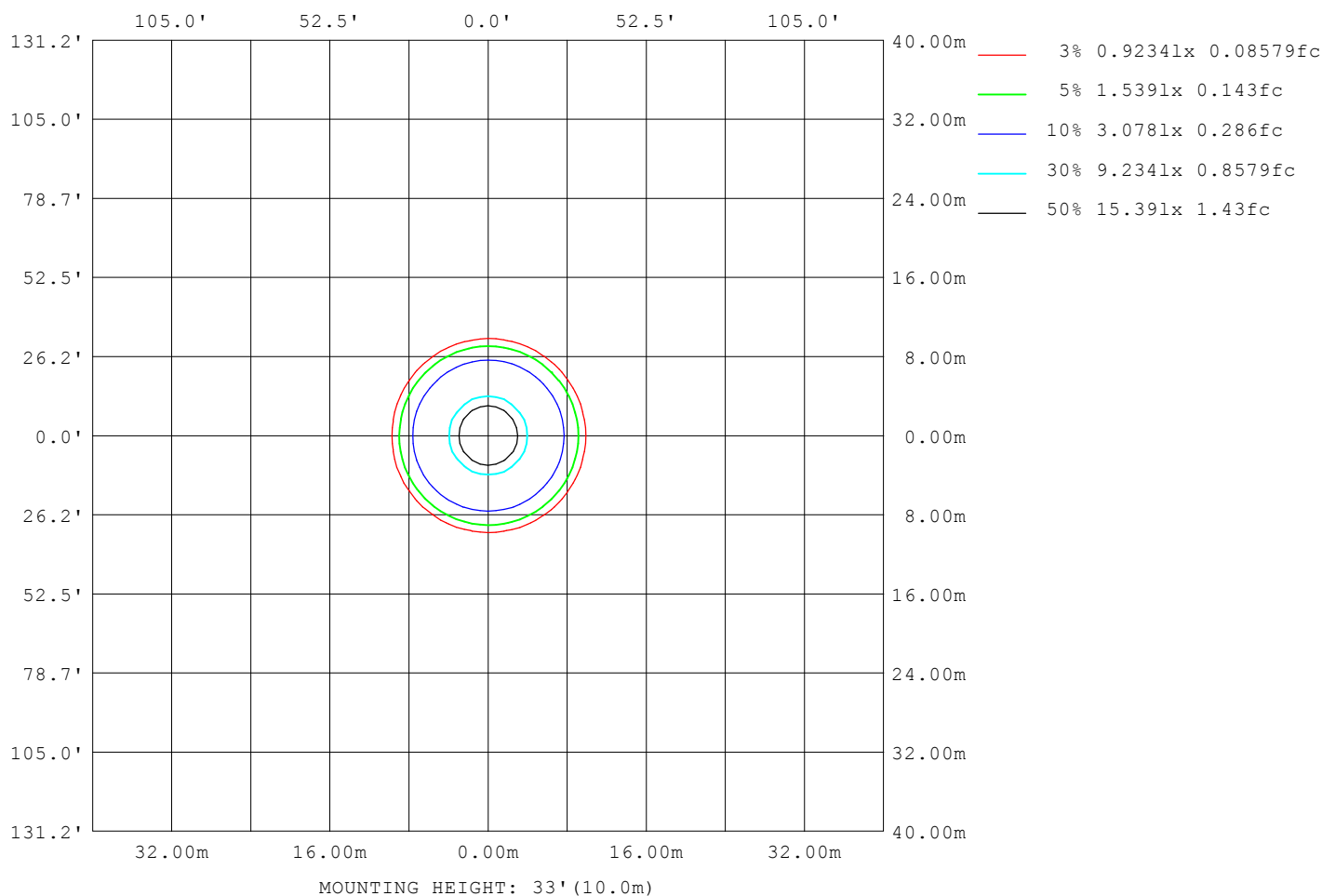
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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:240.4V I:0.0770A P:18.0W PF:0.9714 Freq:49.99Hz		
UTHDi:0.17% ITHDi:17.61% KDisp:0.9863		Lamp Flux:1905.99x1 lm
NAME: FUSION-MD23-AHD-018-COB-02SC 2700K RA90 38D	18WTYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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:240.4V I:0.0770A P:18.0W PF:0.9714 Freq:49.99Hz		
UTHDi:0.17% ITHDi:17.61% KDisp:0.9863 Lamp Flux:1905.99x1 lm		
NAME: FUSION-MD23-AHD-018-COB-02SC 2700K RA90 38D 18W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

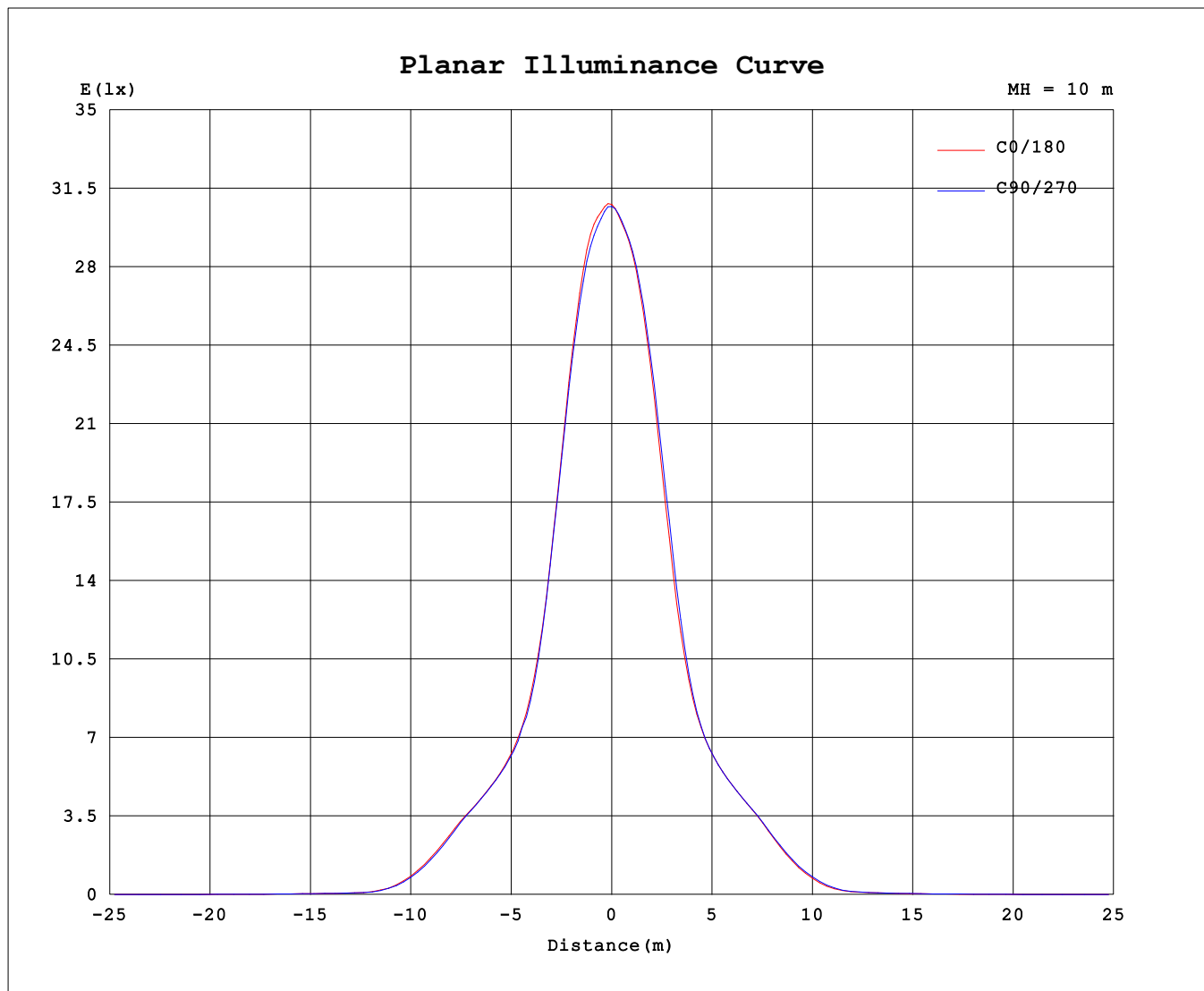
AvgL	cd/m2
L_0~180 (65) av	22943
L_0~180 (75) av	29064
L_0~180 (85) av	32008
L_90~270 (65) av	24052
L_90~270 (75) av	31845
L_90~270 (85) av	33243
L_45 (65) av	23589
L_45 (75) av	30829
L_45 (85) av	32514

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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:

```

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	3072	3072	3072	3072	3072	3072	3072	3072
3.0	3052	3056	3032	3011	3000	2998	3017	3031
6.0	2989	2961	2942	2919	2898	2894	2920	2963
9.0	2779	2747	2739	2712	2686	2703	2729	2765
12.0	2435	2416	2410	2387	2363	2395	2426	2432
15.0	1994	1995	1981	1956	1938	1990	2025	1997
18.0	1541	1550	1536	1510	1505	1553	1590	1545
21.0	1195	1199	1168	1169	1178	1186	1216	1188
24.0	980.9	976.5	978.2	968.7	976.5	971.3	987.1	972.8
27.0	863.4	858.1	855.5	863.7	866.0	863.4	868.8	859.6
30.0	788.3	783.1	786.0	795.8	795.0	790.6	796.8	787.7
33.0	727.3	719.9	726.0	737.7	733.4	728.4	736.6	729.4
36.0	665.1	659.1	661.3	669.3	661.4	658.2	667.4	665.8
39.0	559.1	549.3	539.8	540.2	529.7	530.1	541.5	548.4
42.0	400.7	389.7	380.5	374.6	364.5	368.2	382.0	388.5
45.0	233.9	228.6	217.3	218.1	207.2	213.7	225.6	228.4
48.0	97.76	88.79	95.35	92.22	88.72	93.61	99.87	96.76
51.0	40.82	38.84	39.81	44.48	45.95	49.42	47.71	43.62
54.0	31.14	30.13	30.57	33.19	34.13	36.88	35.43	31.92
57.0	24.51	24.07	24.58	25.35	25.25	27.71	26.67	24.95
60.0	18.96	18.83	19.33	19.54	19.20	20.78	20.45	19.34
63.0	14.29	14.46	14.82	14.80	14.60	15.78	15.61	14.67
66.0	11.57	11.80	12.04	12.08	12.14	12.85	12.79	11.94
69.0	9.761	10.00	10.34	10.29	10.51	11.16	11.01	10.24
72.0	8.750	9.117	10.01	9.470	9.918	11.29	10.52	9.604
75.0	9.161	9.445	10.24	9.999	10.40	11.88	11.19	10.17
78.0	9.067	8.952	9.193	9.537	9.977	10.94	10.73	9.710
81.0	6.913	6.771	6.750	7.425	7.769	8.349	8.496	7.516
84.0	3.986	3.911	3.991	4.552	4.989	5.346	5.292	4.529
87.0	1.191	0.8611	0.8859	1.248	1.657	2.055	2.008	1.615
90.0	0.0773	0.0725	0.0862	0.0657	0.0661	0.0642	0.0740	0.0663

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