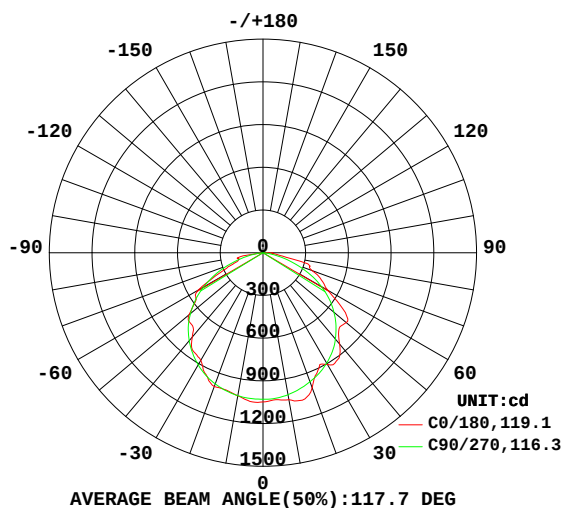


LUMINAIRE PHOTOMETRIC TEST REPORT

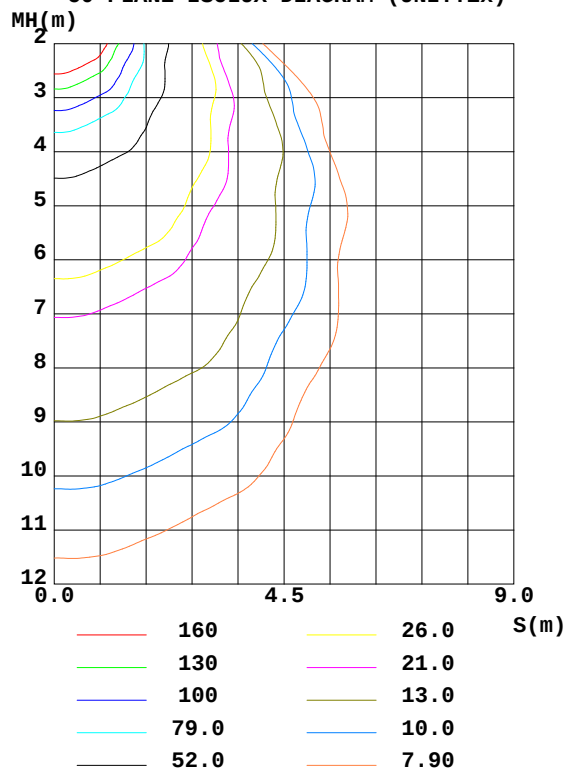
Test:U:220.2V I:0.1028A P:22.30W PF:0.9844 Freq:49.99Hz Lamp Flux:3149.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:0.3x1.2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.22 lm/W			
MODEL		Imax(cd)	1072	S/MH(C0/180)	1.35
NOMINAL POWER(W)	23.07	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3149.1	η UP, DN(C0-180)	0.4, 49.3
NOMINAL FLUX(lm)	3149.09	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.4, 50.0
LAMPS INSIDE	1	η up(%)	0.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.0	η down(%)	99.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:30 July 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

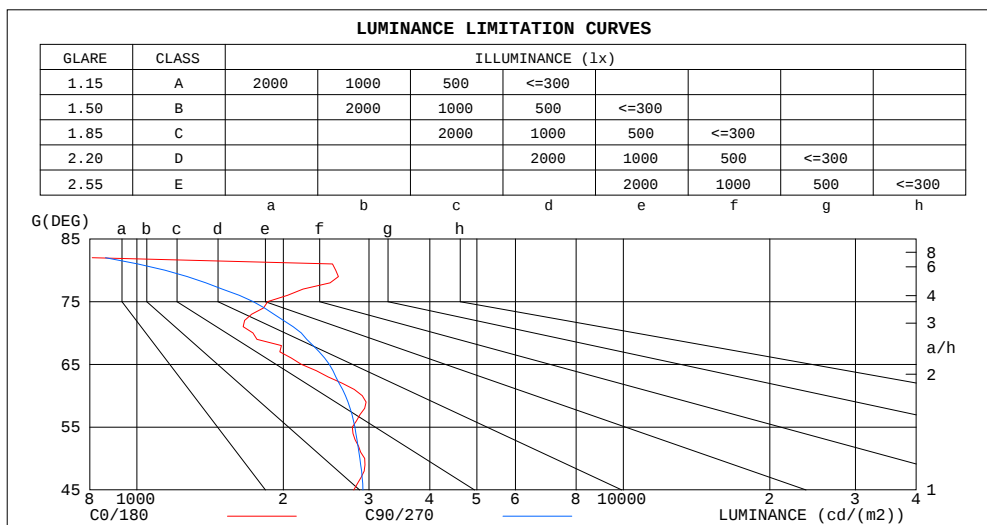
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1021	1018	1019	1005	1048	1015	1012	1011	0- 10	97.65	97.65	3.1,3.1
20	999.6	963.5	980.4	1032	1009	1039	964.6	953.4	10- 20	284.9	382.5	12.1,12.1
30	873.8	918.0	999.7	878.1	906.4	876.4	894.8	907.3	20- 30	435.2	817.7	26,26
40	773.7	761.0	805.9	804.8	837.9	810.5	791.8	752.1	30- 40	536.2	1354	43,43
50	680.3	626.6	664.7	686.2	763.3	693.6	650.9	626.9	40- 50	568.7	1923	61.1,61.1
60	523.2	503.7	483.0	591.7	526.2	604.7	473.1	509.2	50- 60	526.4	2449	77.8,77.8
70	213.3	269.9	268.2	315.7	366.0	323.1	259.8	284.1	60- 70	397.7	2847	90.4,90.4
80	160.2	100.2	71.36	200.4	140.7	216.2	67.07	96.39	70- 80	222.9	3070	97.5,97.5
90	5.329	6.843	0.5718	20.35	25.96	22.95	0.8784	6.531	80- 90	56.00	3126	99.3,99.3
100	4.223	4.723	0.6497	5.206	4.570	5.115	1.093	4.459	90-100	6.164	3132	99.5,99.5
110	3.787	3.301	1.146	3.786	3.892	3.892	1.584	3.239	100-110	3.658	3136	99.6,99.6
120	3.503	2.557	1.719	3.202	3.644	3.432	2.045	2.776	110-120	2.969	3138	99.7,99.7
130	3.461	2.788	2.297	3.237	3.538	3.449	2.599	3.001	120-130	2.704	3141	99.7,99.7
140	3.615	3.461	2.817	3.408	3.633	3.532	3.054	3.467	130-140	2.488	3144	99.8,99.8
150	4.217	3.910	3.230	3.603	3.792	3.745	3.391	3.839	140-150	2.211	3146	99.9,99.9
160	4.223	3.892	3.532	3.762	3.922	3.881	3.639	3.827	150-160	1.746	3148	100,100
170	4.016	3.922	3.733	3.857	4.040	4.028	3.810	3.899	160-170	1.094	3149	100,100
180	3.881	3.975	3.863	3.833	3.904	3.993	3.875	3.839	170-180	0.3755	3149	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:30 July 2019

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:9.480m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.2V I:0.1028A P:22.30W PF:0.9844 Freq:49.99Hz Lamp Flux:3149.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:0.3x1.2	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	215	462
80	2563	1141
75	1859	1734
70	1732	2178
65	2178	2487
60	2907	2684
55	2773	2806
50	2940	2873
45	2791	2916

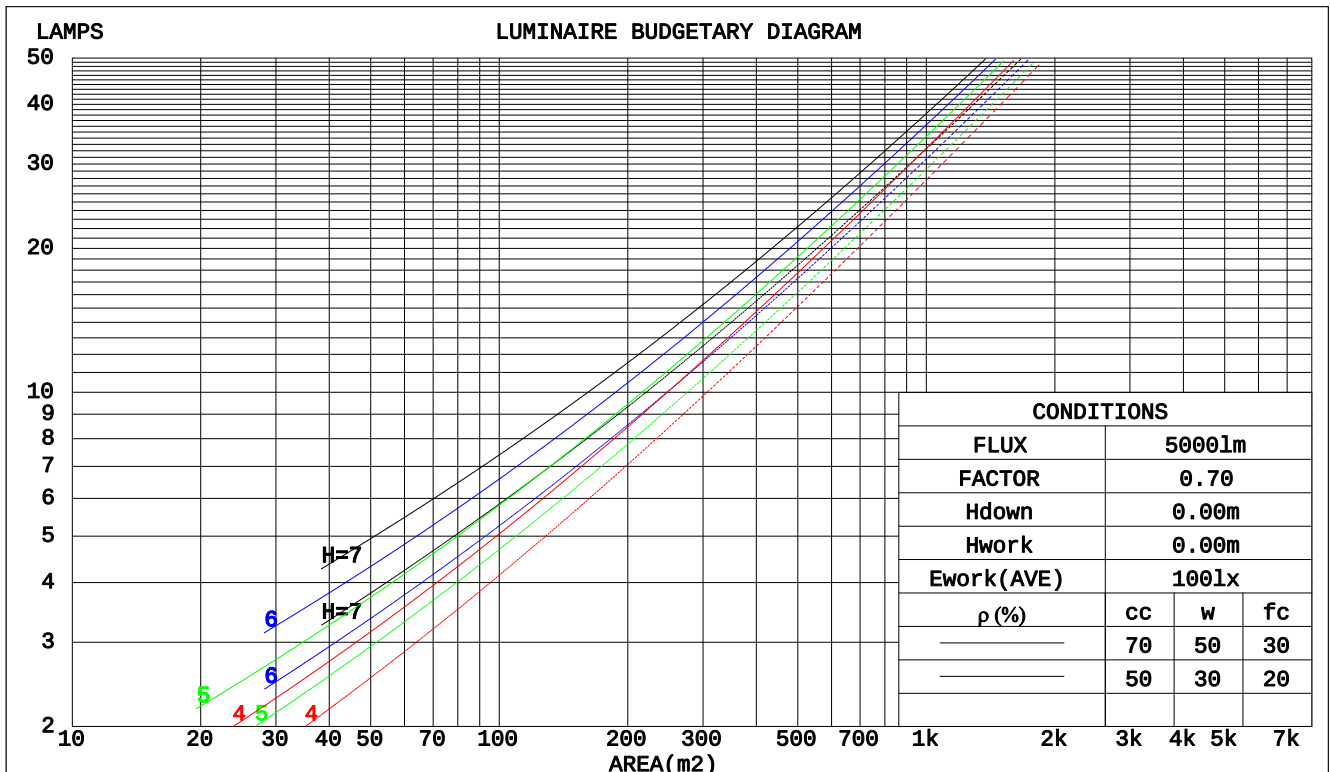
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:30 July 2019

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:9.480m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.2V I:0.1028A P:22.30W PF:0.9844 Freq:49.99Hz Lamp Flux:3149.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:0.3x1.2	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.01	1.01	1.01	.99
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:30 July 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:9.480m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.2V I:0.1028A P:22.30W PF:0.9844 Freq:49.99Hz Lamp Flux:3149.09x1 lm									
NAME:				TYPE:			WEIGHT:		
SPEC.:				DIM.:			SERIAL No.:		
MFR.: AOTOM				SUR.:0.3x1.2			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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.311	.177	.056	.304	.174	.055	.290	.167	.053	.278	.160	.051	.266	.154	.050	
2.0	.294	.161	.049	.287	.158	.049	.275	.153	.048	.264	.148	.046	.254	.144	.045	
3.0	.272	.145	.043	.266	.143	.043	.256	.139	.042	.246	.135	.041	.237	.131	.041	
4.0	.251	.131	.038	.246	.129	.038	.237	.125	.037	.228	.122	.037	.219	.119	.036	
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.211	.111	.033	.204	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030	
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027	
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.148	.074	.021	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.196	.196	.196	.168	.168	.168	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.186	.162	.140	.159	.139	.120	.109	.096	.083	.063	.055	.048	.020	.018	.016	
2.0	.178	.138	.104	.153	.118	.089	.105	.082	.062	.060	.048	.037	.019	.015	.012	
3.0	.171	.120	.080	.146	.104	.069	.100	.072	.049	.058	.042	.029	.019	.014	.009	
4.0	.163	.107	.064	.140	.092	.055	.096	.064	.039	.056	.038	.023	.018	.012	.008	
5.0	.156	.096	.053	.134	.083	.046	.092	.058	.032	.053	.034	.019	.017	.011	.006	
6.0	.149	.088	.045	.128	.076	.039	.088	.053	.028	.051	.031	.016	.016	.010	.005	
7.0	.142	.081	.039	.122	.070	.034	.084	.049	.024	.049	.029	.014	.016	.010	.005	
8.0	.135	.076	.034	.117	.065	.030	.081	.046	.021	.047	.027	.013	.015	.009	.004	
9.0	.129	.071	.031	.111	.061	.027	.077	.043	.019	.045	.025	.011	.015	.008	.004	
10.0	.124	.066	.028	.106	.058	.025	.074	.041	.017	.043	.024	.010	.014	.008	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:30 July 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:9.480m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.2V I:0.1028A P:22.30W PF:0.9844 Freq:49.99Hz Lamp Flux:3149.09x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.:				
MFR.: AOTOM			SUR.:0.3x1.2			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	12.5	14.1	12.8	14.3	14.5	12.3	13.8	12.5	14.0	14.2
3H	13.4	14.9	13.8	15.1	15.4	13.6	15.0	13.9	15.2	15.5
4H	13.8	15.2	14.2	15.4	15.7	14.0	15.4	14.4	15.6	15.9
6H	14.6	15.9	15.0	16.2	16.5	14.2	15.5	14.6	15.8	16.1
8H	14.7	15.9	15.0	16.2	16.5	14.2	15.5	14.6	15.8	16.1
12H	14.6	15.8	15.0	16.1	16.4	14.2	15.4	14.6	15.7	16.0
4H 2H	13.1	14.5	13.5	14.7	15.0	12.9	14.3	13.3	14.5	14.8
3H	14.2	15.3	14.5	15.6	16.0	14.4	15.6	14.7	15.9	16.2
4H	14.6	15.7	15.0	16.0	16.4	15.0	16.1	15.4	16.4	16.8
6H	15.7	16.6	16.1	17.0	17.4	15.3	16.3	15.7	16.6	17.0
8H	15.8	16.7	16.2	17.1	17.5	15.3	16.2	15.8	16.6	17.0
12H	15.8	16.6	16.2	17.0	17.4	15.3	16.1	15.8	16.5	17.0
8H 4H	14.8	15.7	15.2	16.1	16.5	15.1	16.0	15.6	16.4	16.8
6H	16.1	16.8	16.6	17.3	17.7	15.5	16.3	16.0	16.7	17.1
8H	16.3	16.9	16.8	17.4	17.8	15.6	16.3	16.1	16.7	17.2
12H	16.3	16.8	16.7	17.3	17.8	15.6	16.2	16.1	16.7	17.1
12H 4H	14.8	15.6	15.2	16.0	16.4	15.2	16.0	15.6	16.4	16.8
6H	16.2	16.9	16.7	17.3	17.8	15.7	16.4	16.2	16.8	17.3
8H	16.4	17.0	16.9	17.5	18.0	15.9	16.4	16.3	16.9	17.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.4 / - 0.3				
1.5H	+ 0.4 / - 0.6					+ 0.3 / - 0.4				
2.0H	+ 0.7 / - 0.9					+ 0.4 / - 0.6				

CIE Pub.117, 3149 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 4.0$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:30 July 2019

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:9.480m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.2V I:0.1028A P:22.30W PF:0.9844 Freq:49.99Hz Lamp Flux:3149.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:0.3x1.2	Shielding Angle:

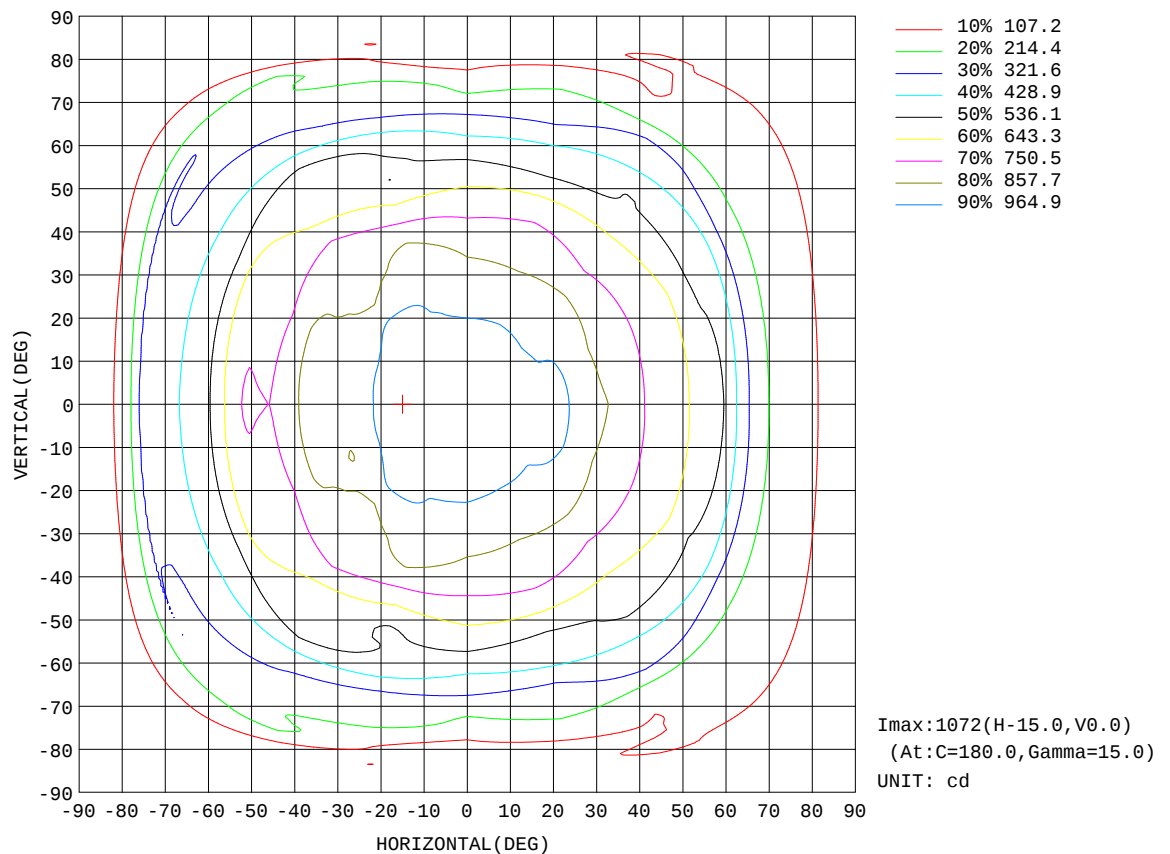
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	45	38	56	44	38	54	44	37	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:30 July 2019

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:9.480m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.2V I:0.1028A P:22.30W PF:0.9844 Freq:49.99Hz Lamp Flux:3149.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:0.3x1.2	Shielding Angle:



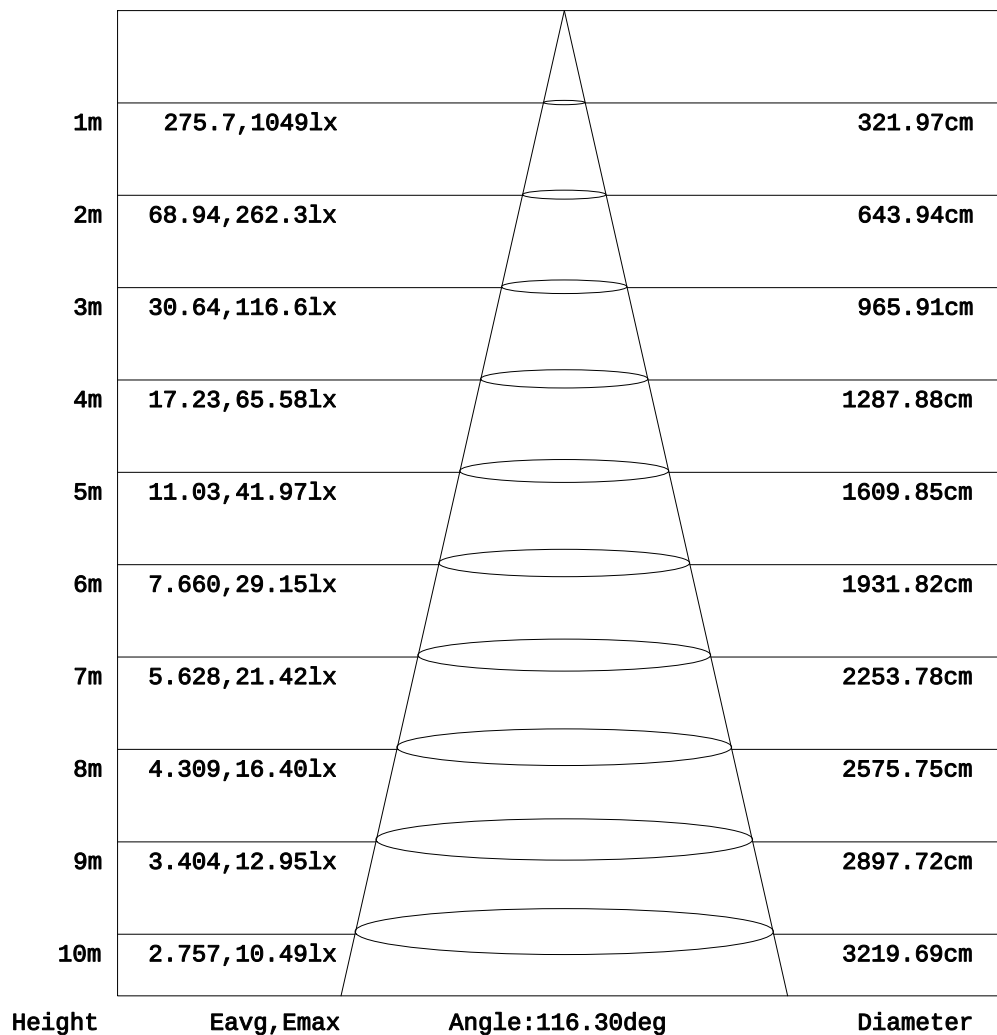
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:30 July 2019

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:9.480m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.2V I:0.1028A P:22.30W PF:0.9844 Freq:49.99Hz Lamp Flux:3149.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:0.3x1.2	Shielding Angle:

Flux out:2399 lm



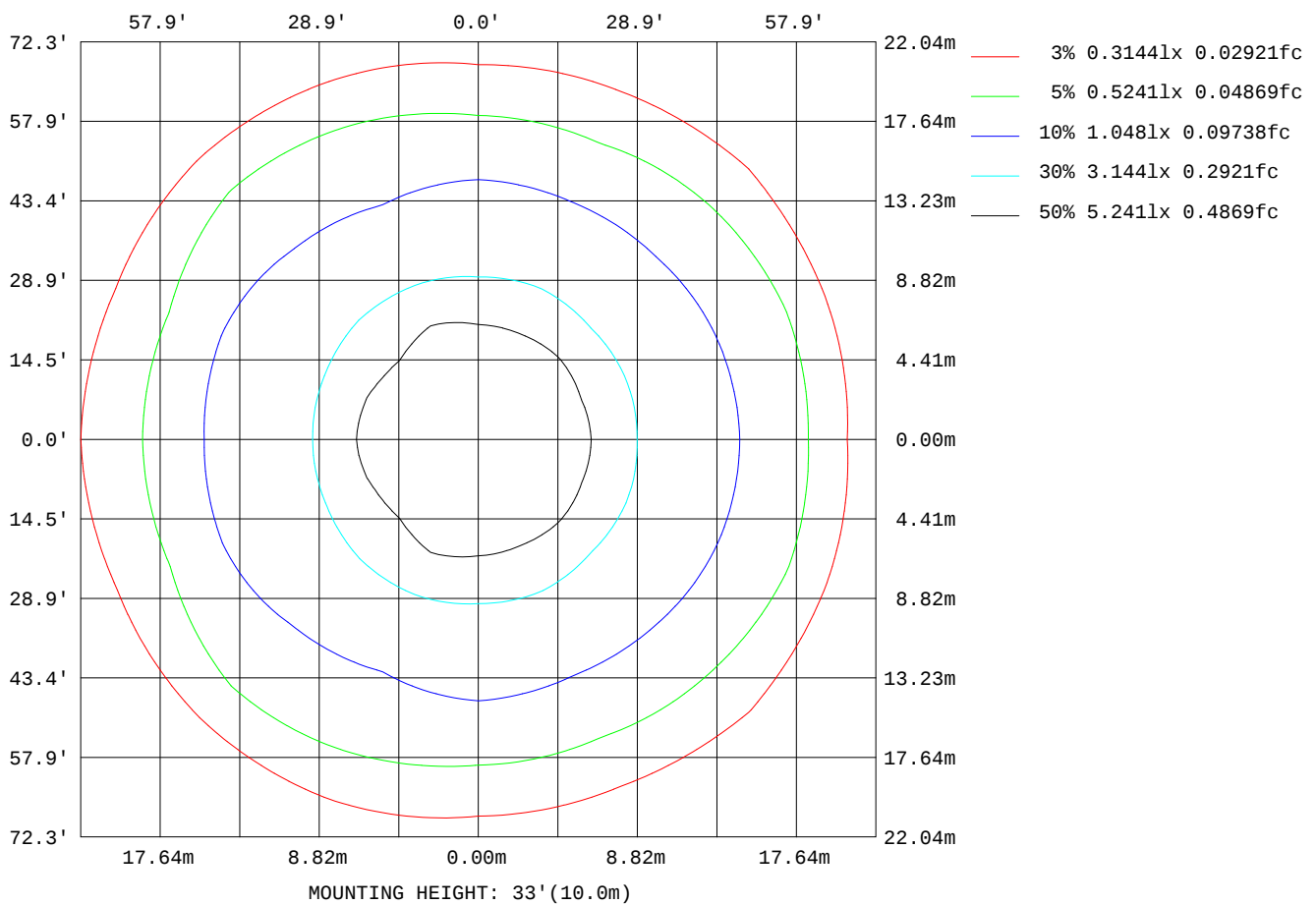
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 30 July 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.361
 Humidity: 65.0%
 Test Distance: 9.480m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.2V I:0.1028A P:22.30W PF:0.9844 Freq:49.99Hz Lamp Flux:3149.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:0.3x1.2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:30 July 2019

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:9.480m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.2V I:0.1028A P:22.30W PF:0.9844 Freq:49.99Hz Lamp Flux:3149.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:0.3x1.2	Shielding Angle:

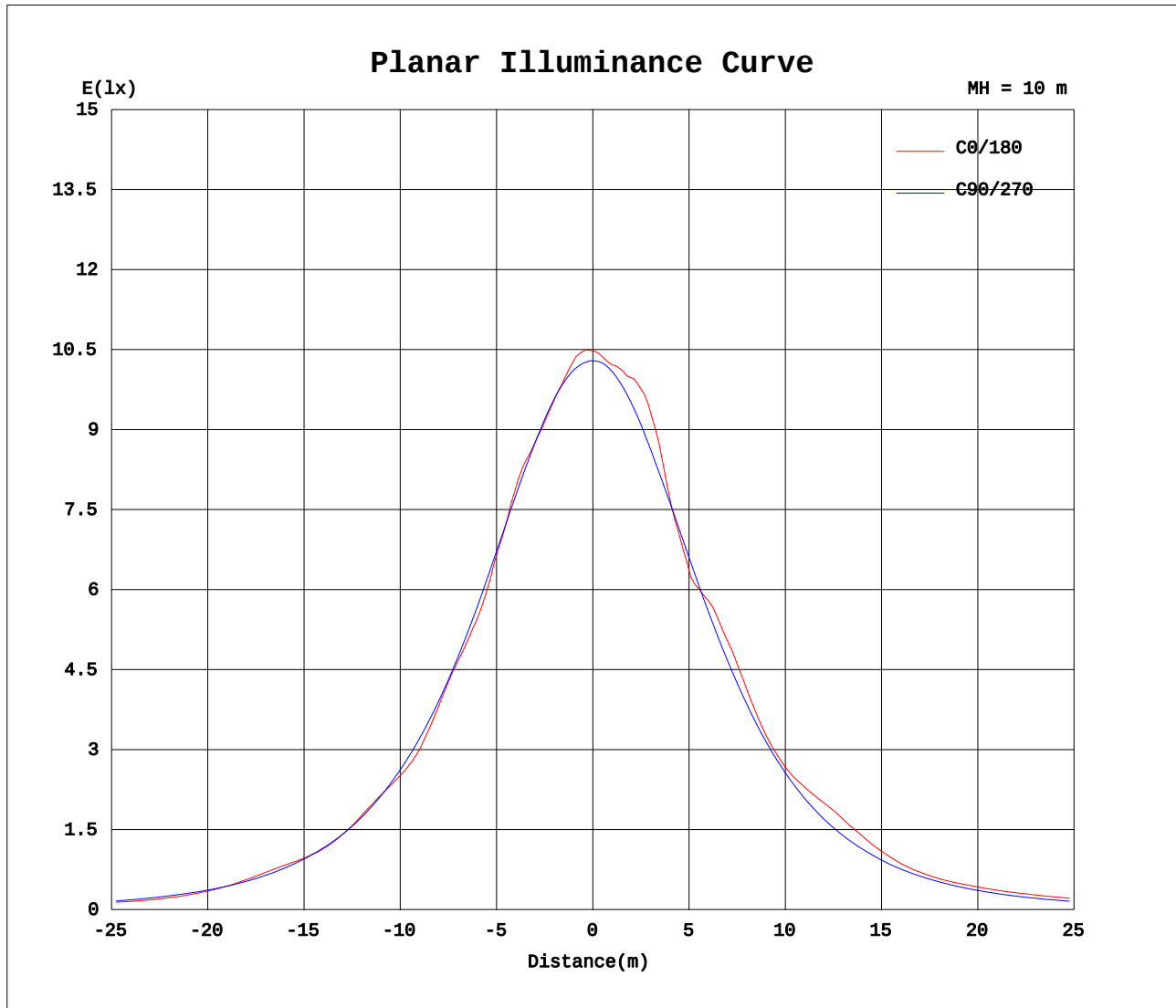
AvgL	cd/m2
L_0~180(65)av	2572
L_0~180(75)av	2728
L_0~180(85)av	1297
L_90~270(65)av	2460
L_90~270(75)av	1693
L_90~270(85)av	457
L_45(65)av	2843
L_45(75)av	2018
L_45(85)av	1173

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:30 July 2019

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:9.480m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 30 July 2019

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.361
 Humidity: 65.0%
 Test Distance: 9.480m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.1028A P:22.30W PF:0.9844 Freq:49.99Hz Lamp Flux:3149.09x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: AOTOM									SUR.:0.3x1.2						Shielding Angle:		

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1048	1041	1036	1032	1029	1027	1026	1025	1048	1041	1036	1032	1029	1027	1026	1025			
5	1048	1042	1036	1033	1027	1018	1003	1004	1036	1029	1024	1021	1026	1028	1027	1027			
10	1021	1014	1018	1025	1019	1000	1005	1017	1048	1033	1015	1001	1012	1019	1011	999			
15	998	994	991	1004	1003	986	1020	1049	1072	1060	1025	986	991	998	982	977			
20	1000	986	964	972	980	973	1032	1014	1009	1027	1039	972	965	964	953	969			
25	945	955	947	936	950	961	988	905	912	911	994	960	934	928	934	940			
30	874	882	918	892	910	953	878	858	906	865	876	956	895	884	907	866			
35	849	833	846	843	862	924	800	889	916	899	801	926	849	835	837	817			
40	774	793	761	799	806	858	805	842	838	853	810	851	792	790	752	778			
45	711	689	723	750	742	741	789	735	755	744	794	726	726	743	713	675			
50	680	676	627	651	665	617	686	704	763	716	694	610	651	652	627	661			
55	573	578	553	534	579	526	583	687	684	695	595	537	569	536	542	565			
60	523	526	504	458	483	526	592	530	526	534	605	532	473	447	509	513			
65	331	369	409	365	378	429	452	431	451	437	464	421	370	371	405	356			
70	213	226	270	267	268	285	316	352	366	356	323	291	260	254	284	222			
75	173	161	130	194	162	269	239	310	335	316	246	261	154	194	137	155			
80	160	171	100	67.9	71.4	109	200	135	141	146	216	111	67.1	74.4	96.4	165			
85	6.74	8.03	17.9	34.8	14.5	46.1	53.2	66.3	74.7	67.2	53.7	48.9	14.2	31.8	22.4	7.59			
90	5.33	5.99	6.84	7.64	0.57	14.9	20.4	24.8	26.0	25.0	22.9	15.3	0.88	7.70	6.53	5.61			
95	4.68	5.36	5.77	4.60	0.49	5.16	6.87	6.16	5.65	6.04	6.97	5.24	0.92	4.37	5.53	4.90			
100	4.22	4.72	4.72	3.31	0.65	3.80	5.21	4.98	4.57	4.85	5.11	3.94	1.09	3.19	4.46	4.38			
105	3.98	4.27	3.83	2.38	0.88	3.08	4.38	4.34	4.12	4.28	4.35	3.31	1.33	2.48	3.66	4.03			
110	3.79	3.89	3.30	2.06	1.15	2.73	3.79	3.98	3.89	3.99	3.89	3.00	1.58	2.21	3.24	3.77			
115	3.62	3.61	2.73	2.04	1.43	2.59	3.41	3.73	3.79	3.82	3.61	2.83	1.77	2.31	2.79	3.53			
120	3.50	3.46	2.56	2.33	1.72	2.59	3.20	3.51	3.64	3.66	3.43	2.89	2.04	2.54	2.78	3.40			
125	3.46	3.37	2.61	2.67	2.01	2.69	3.18	3.35	3.56	3.54	3.43	3.00	2.33	2.82	2.83	3.31			
130	3.46	3.24	2.79	2.95	2.30	2.80	3.24	3.33	3.54	3.53	3.45	3.12	2.60	3.02	3.00	3.23			
135	3.48	3.09	3.06	3.11	2.55	2.97	3.31	3.40	3.58	3.58	3.44	3.25	2.84	3.16	3.21	3.23			
140	3.61	3.18	3.46	3.39	2.82	3.12	3.41	3.47	3.63	3.63	3.53	3.40	3.05	3.30	3.47	3.35			
145	3.83	3.58	3.66	3.50	3.04	3.27	3.51	3.57	3.69	3.65	3.66	3.53	3.24	3.40	3.64	3.62			
150	4.22	4.03	3.91	3.61	3.23	3.41	3.60	3.67	3.79	3.74	3.74	3.65	3.39	3.51	3.84	3.84			
155	4.32	4.08	3.92	3.70	3.38	3.52	3.68	3.74	3.85	3.82	3.82	3.76	3.53	3.63	3.86	3.96			
160	4.22	4.00	3.89	3.77	3.53	3.62	3.76	3.80	3.92	3.87	3.88	3.85	3.64	3.72	3.83	3.88			
165	4.09	3.95	3.91	3.83	3.64	3.74	3.79	3.83	3.97	3.93	3.96	3.93	3.74	3.79	3.86	3.79			
170	4.02	3.99	3.92	3.90	3.73	3.85	3.86	3.90	4.04	4.01	4.03	3.99	3.81	3.87	3.90	3.86			
175	4.00	4.07	4.00	3.96	3.82	3.87	3.90	3.91	3.87	3.96	4.05	3.98	3.86	3.94	3.94	3.90			
180	3.88	4.08	3.98	3.93	3.86	3.85	3.83	3.82	3.90	4.06	3.99	3.90	3.87	3.85	3.84	3.82			

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