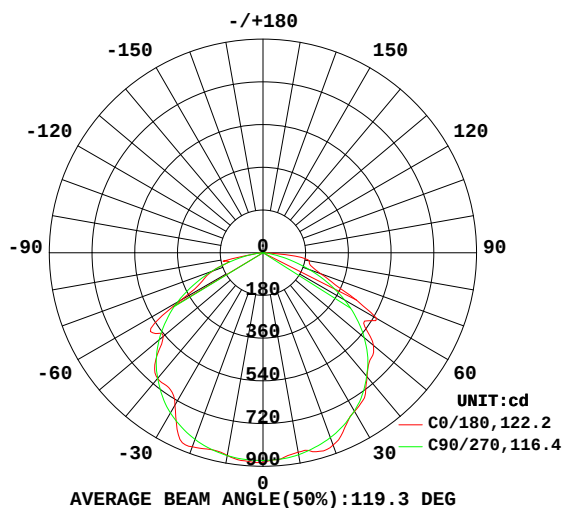


LUMINAIRE PHOTOMETRIC TEST REPORT

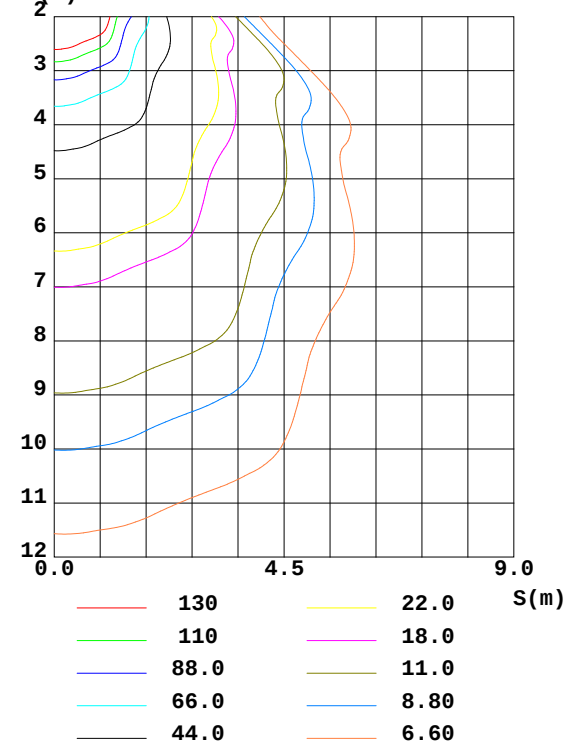
Test:U:220.2V I:0.0874A P:18.73W PF:0.9717 Freq:49.99Hz Lamp Flux:2689.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.56 lm/W			
MODEL		Imax(cd)	884.7	S/MH(C0/180)	1.31
NOMINAL POWER(W)	18.90	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2689.4	η UP, DN(C0-180)	0.3, 49.7
NOMINAL FLUX(lm)	2689.42	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.3, 49.7
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:

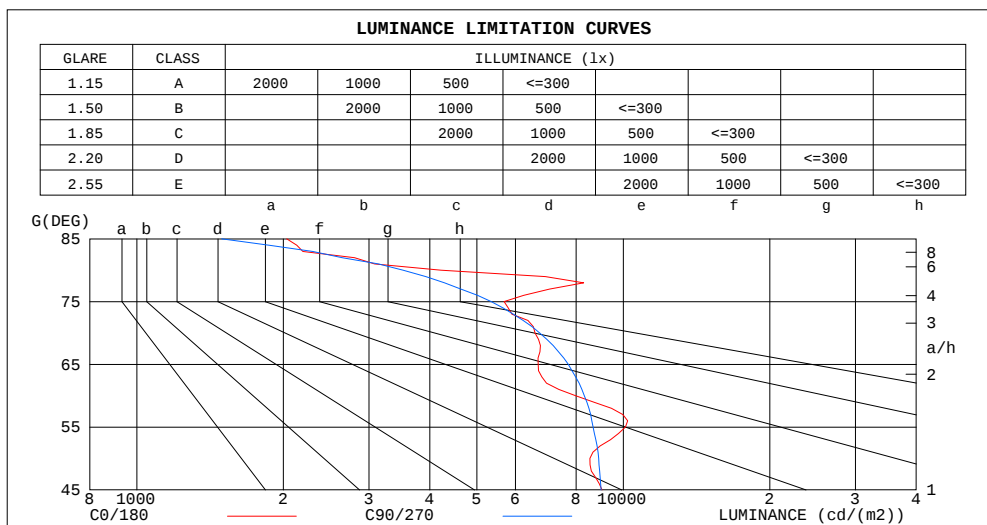
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	866.7	869.3	868.1	847.9	853.0	851.3	864.4	862.8	0- 10	82.80	82.80	3.08, 3.08
20	870.2	834.3	837.0	836.5	862.8	836.2	829.2	823.1	10- 20	240.3	323.1	12, 12
30	741.7	825.0	779.4	795.2	771.5	791.8	769.9	812.4	20- 30	375.9	699.0	26, 26
40	690.9	641.5	690.5	679.9	682.0	677.5	679.2	637.4	30- 40	455.9	1155	42.9, 42.9
50	548.8	576.4	571.8	557.8	607.9	555.9	556.5	563.6	40- 50	488.8	1644	61.1, 61.1
60	398.7	413.4	415.7	459.3	552.1	457.0	395.7	401.6	50- 60	452.4	2096	77.9, 77.9
70	225.1	198.8	230.2	323.2	260.2	320.9	207.9	197.6	60- 70	339.6	2436	90.6, 90.6
80	73.25	89.85	61.22	118.8	198.1	115.7	46.96	82.77	70- 80	181.4	2617	97.3, 97.3
90	3.701	5.859	0.6917	6.258	5.005	6.219	0.4254	5.592	80- 90	54.77	2672	99.3, 99.3
100	3.025	3.286	0.5552	3.540	3.343	3.956	0.6736	3.389	90-100	3.992	2676	99.5, 99.5
110	2.906	2.423	0.9037	2.753	2.995	3.060	1.087	2.533	100-110	2.751	2679	99.6, 99.6
120	2.723	2.061	1.411	2.617	2.947	2.788	1.589	2.268	110-120	2.327	2681	99.7, 99.7
130	2.687	2.250	1.913	2.676	2.918	2.770	2.068	2.422	120-130	2.151	2683	99.8, 99.8
140	2.794	2.540	2.356	2.811	3.024	2.859	2.481	2.617	130-140	1.994	2685	99.8, 99.8
150	2.988	2.805	2.746	2.971	3.077	3.001	2.782	2.853	140-150	1.750	2687	99.9, 99.9
160	3.183	3.095	2.959	3.095	3.190	3.125	3.007	3.066	150-160	1.385	2688	100, 100
170	3.266	3.243	3.130	3.172	3.266	3.225	3.148	3.243	160-170	0.8939	2689	100, 100
180	3.249	3.213	3.207	3.190	3.255	3.219	3.201	3.190	170-180	0.3079	2689	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:0.0874A P:18.73W PF:0.9717 Freq:49.99Hz Lamp Flux:2689.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2032	1494
80	4218	3526
75	5688	5346
70	6582	6731
65	6681	7703
60	7974	8313
55	10099	8665
50	8537	8896
45	9045	9002

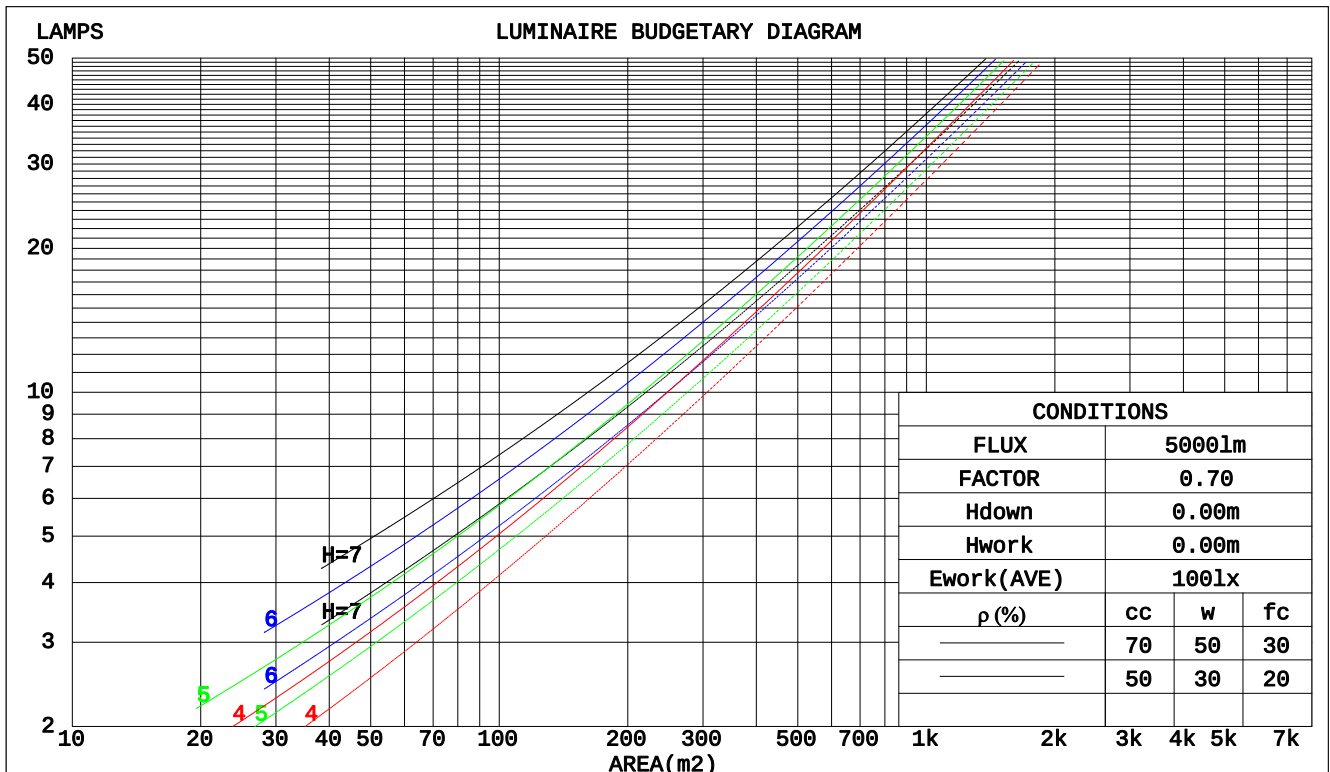
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 30 July 2019

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:0.0874A P:18.73W PF:0.9717 Freq:49.99Hz Lamp Flux:2689.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	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	.41	.34	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26
10.0	.39	.31	.25	.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:0.0874A P:18.73W PF:0.9717 Freq:49.99Hz Lamp Flux:2689.42x1 lm														
NAME:					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.: AOTOM					SUR.:					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	.313	.178	.056	.305	.174	.055	.292	.167	.053	.279	.161	.052	.268	.155	.050	
2.0	.294	.161	.049	.288	.158	.049	.276	.153	.048	.265	.148	.046	.254	.144	.045	
3.0	.272	.145	.043	.267	.143	.043	.256	.139	.042	.246	.135	.041	.237	.131	.041	
4.0	.251	.131	.038	.246	.129	.038	.237	.126	.037	.228	.122	.037	.220	.119	.036	
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.211	.112	.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	.091	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.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	.195	.195	.195	.167	.167	.167	.114	.114	.114	.065	.065	.065	.021	.021	.021	
1.0	.186	.161	.139	.159	.138	.120	.109	.095	.083	.062	.055	.048	.020	.018	.016	
2.0	.178	.137	.103	.152	.118	.089	.104	.082	.062	.060	.047	.036	.019	.015	.012	
3.0	.170	.119	.079	.146	.103	.069	.100	.072	.048	.058	.042	.028	.019	.014	.009	
4.0	.162	.106	.063	.139	.092	.055	.096	.064	.039	.055	.037	.023	.018	.012	.008	
5.0	.155	.096	.052	.133	.083	.045	.092	.058	.032	.053	.034	.019	.017	.011	.006	
6.0	.148	.087	.044	.127	.076	.038	.088	.053	.027	.051	.031	.016	.016	.010	.005	
7.0	.141	.081	.038	.121	.070	.033	.084	.049	.024	.049	.029	.014	.016	.009	.005	
8.0	.135	.075	.034	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
9.0	.129	.070	.030	.111	.061	.026	.077	.043	.019	.045	.025	.011	.014	.008	.004	
10.0	.123	.066	.027	.106	.057	.024	.073	.040	.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:0.0874A P:18.73W PF:0.9717 Freq:49.99Hz Lamp Flux:2689.42x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: AOTOM					SUR.:			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	3H	17.1	18.6	17.3	18.8	19.0	16.8	18.3	17.1	18.5	18.8
	4H	18.1	19.6	18.5	19.8	20.1	18.2	19.6	18.5	19.9	20.1
	6H	18.6	19.9	18.9	20.2	20.5	18.7	20.1	19.1	20.3	20.6
	8H	19.1	20.4	19.5	20.7	21.0	18.9	20.2	19.2	20.4	20.7
	12H	19.1	20.4	19.5	20.7	21.0	18.9	20.1	19.2	20.4	20.7
	12H	19.1	20.3	19.5	20.6	20.9	18.9	20.0	19.2	20.3	20.7
4H	2H	17.7	19.0	18.0	19.3	19.6	17.5	18.9	17.8	19.1	19.4
	3H	18.9	20.1	19.3	20.4	20.7	19.0	20.2	19.4	20.5	20.8
	4H	19.4	20.5	19.8	20.8	21.2	19.8	20.9	20.2	21.2	21.6
	6H	20.2	21.1	20.6	21.5	21.9	20.0	21.0	20.4	21.4	21.7
	8H	20.2	21.1	20.6	21.5	21.9	20.1	21.0	20.5	21.3	21.7
	12H	20.2	21.0	20.6	21.4	21.8	20.1	20.9	20.5	21.3	21.7
8H	4H	19.6	20.5	20.1	20.9	21.3	20.0	20.9	20.4	21.3	21.7
	6H	20.6	21.3	21.0	21.7	22.1	20.3	21.1	20.8	21.5	21.9
	8H	20.6	21.3	21.1	21.7	22.2	20.4	21.1	20.9	21.5	22.0
	12H	20.6	21.2	21.1	21.6	22.1	20.5	21.0	20.9	21.5	22.0
12H	4H	19.6	20.4	20.1	20.8	21.3	20.0	20.8	20.5	21.2	21.7
	6H	20.6	21.3	21.1	21.7	22.2	20.4	21.1	20.9	21.5	22.0
	8H	20.7	21.2	21.2	21.7	22.2	20.5	21.1	21.0	21.5	22.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.2					+ 0.2 / - 0.3					
1.5H	+ 0.6 / - 0.6					+ 0.3 / - 0.4					
2.0H	+ 0.7 / - 1.0					+ 0.6 / - 0.7					

CIE Pub.117, 2689 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.4$)

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:0.0874A P:18.73W PF:0.9717 Freq:49.99Hz Lamp Flux:2689.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:

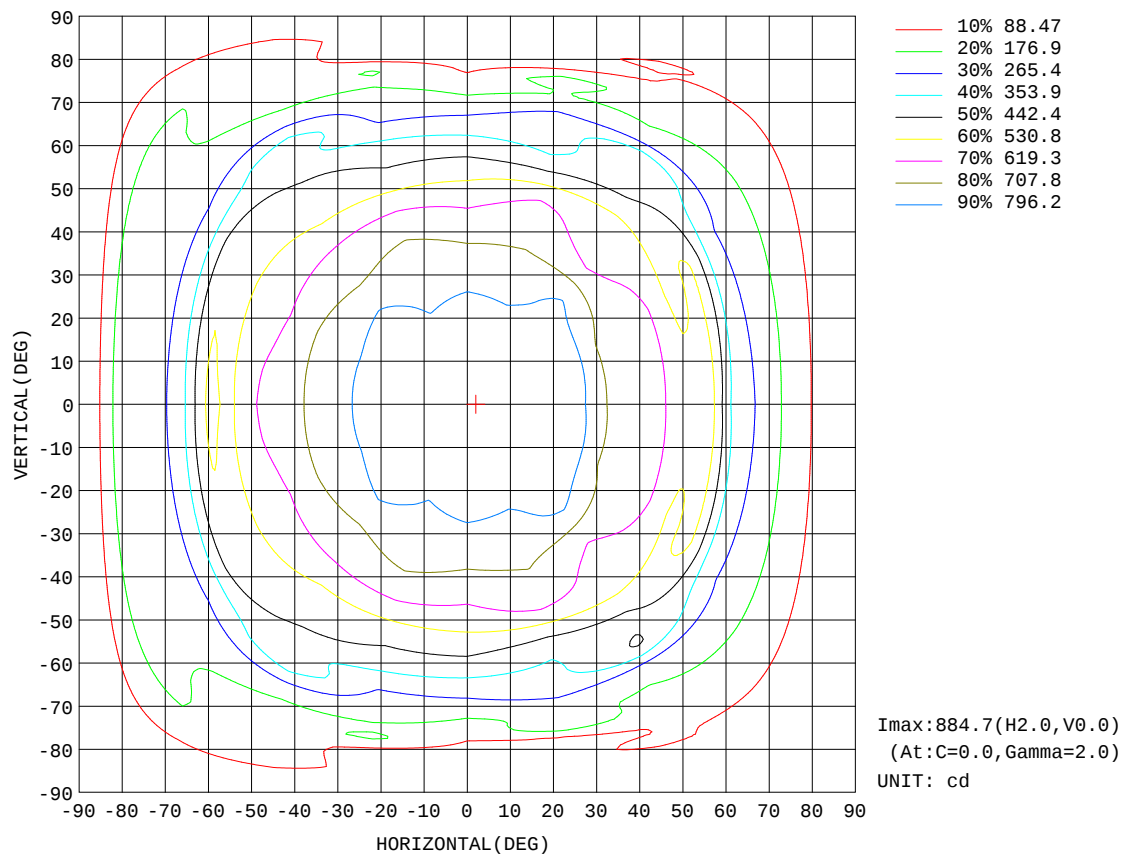
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	45	38	56	44	37	54	44	37	31
0.80	67	55	47	65	54	47	64	53	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	93	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	94	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:0.0874A P:18.73W PF:0.9717 Freq:49.99Hz Lamp Flux:2689.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:



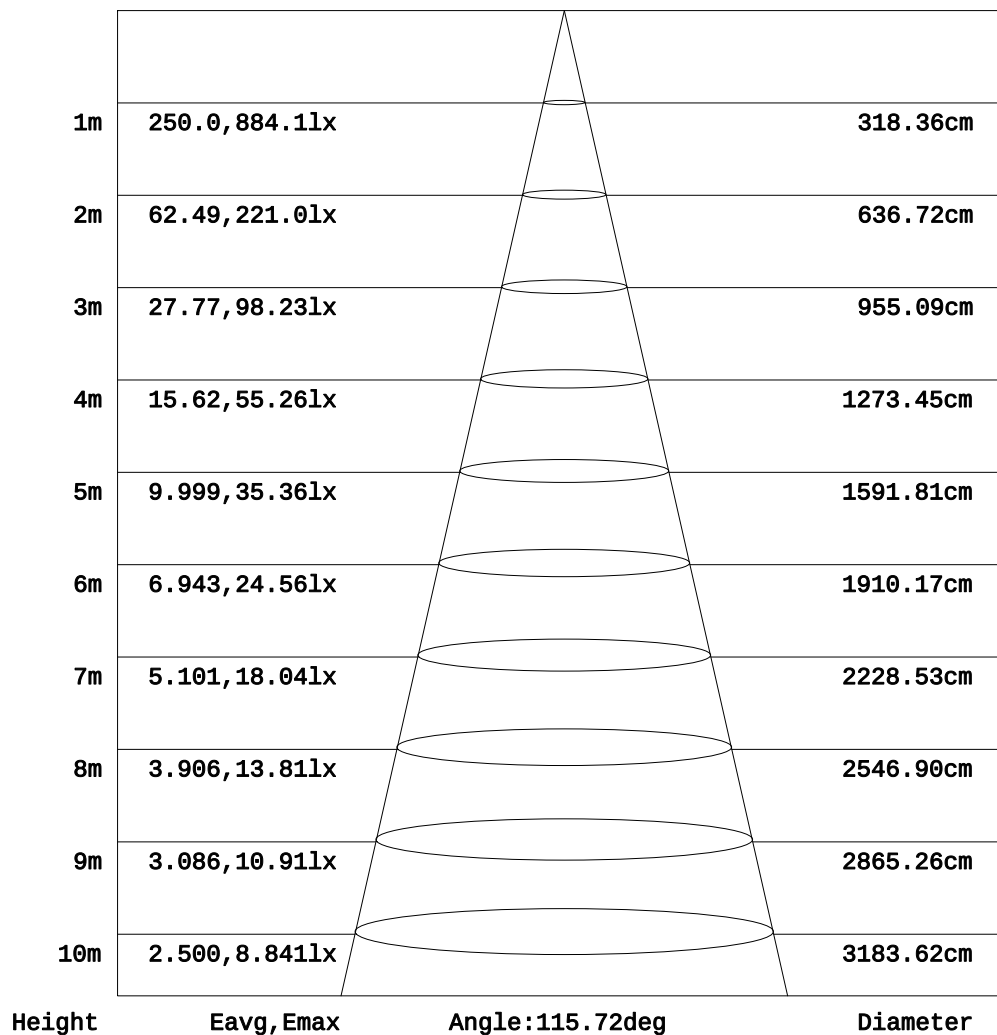
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:30 July 2019

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:0.0874A P:18.73W PF:0.9717 Freq:49.99Hz Lamp Flux:2689.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:

Flux out:2011 lm



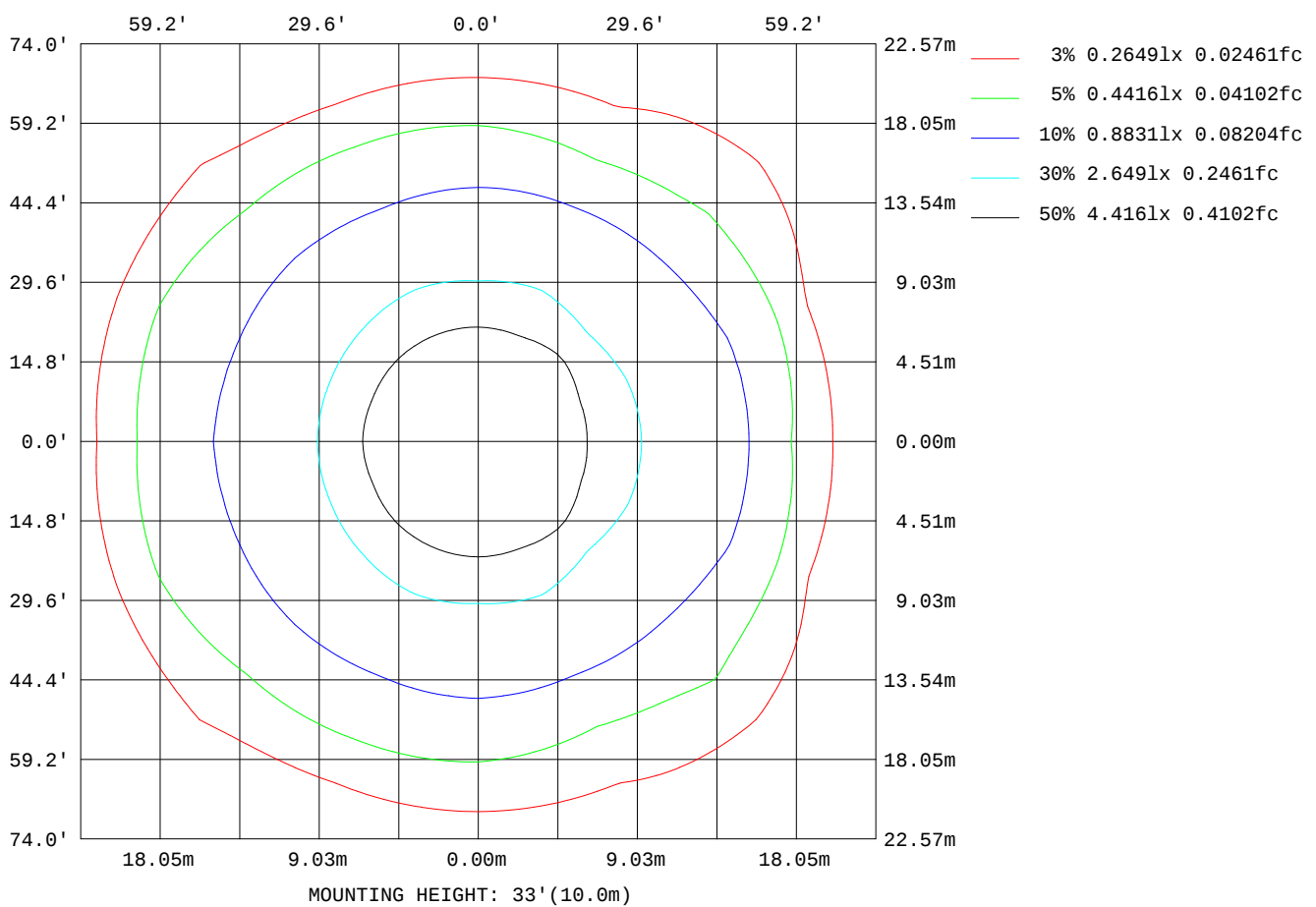
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.0874A P:18.73W PF:0.9717 Freq:49.99Hz Lamp Flux:2689.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	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:0.0874A P:18.73W PF:0.9717 Freq:49.99Hz Lamp Flux:2689.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:

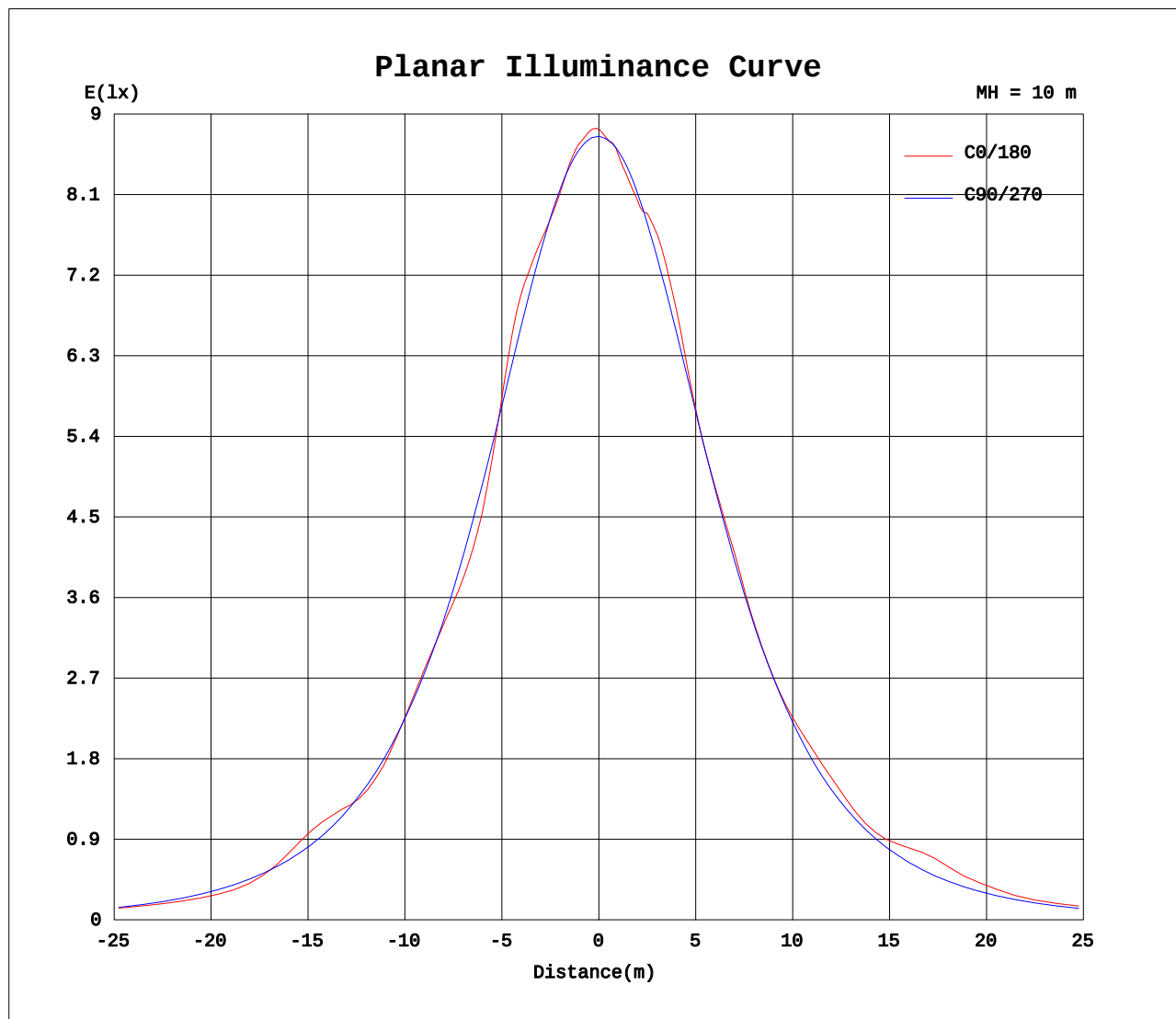
AvgL	cd/m2
L_0~180(65)av	7664
L_0~180(75)av	6860
L_0~180(85)av	6589
L_90~270(65)av	7443
L_90~270(75)av	4957
L_90~270(85)av	1155
L_45(65)av	9537
L_45(75)av	6057
L_45(85)av	9556

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



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C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
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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:0.0874A P:18.73W PF:0.9717 Freq:49.99Hz Lamp Flux:2689.42x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	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	883	880	878	876	875	874	873	873	883	880	878	876	875	874	873	873			
5	880	878	876	876	874	867	864	862	872	870	868	868	873	873	871	870			
10	867	868	869	868	868	860	848	843	853	850	851	860	864	863	863	858			
15	858	853	848	855	855	841	833	850	868	857	835	837	849	847	840	844			
20	870	860	834	835	837	817	836	854	863	860	836	810	829	825	823	850			
25	845	858	833	804	811	790	831	819	814	822	829	784	803	793	820	847			
30	742	767	825	769	779	761	795	759	771	762	792	756	770	758	812	758			
35	693	686	751	739	739	746	729	731	746	734	726	742	730	726	748	676			
40	691	673	642	711	690	717	680	679	682	679	678	711	679	695	637	662			
45	640	649	593	679	637	660	639	620	639	619	637	651	625	662	580	639			
50	549	552	576	617	572	577	558	594	608	594	556	563	556	611	564	546			
55	579	534	507	475	497	482	501	519	518	518	501	468	481	476	504	524			
60	399	474	413	365	416	420	459	503	552	506	457	406	396	352	402	472			
65	282	280	432	329	326	323	375	405	365	402	373	308	304	311	433	274			
70	225	226	199	255	230	243	323	256	260	254	321	235	208	252	198	221			
75	147	144	151	229	138	176	167	192	208	190	164	173	118	197	146	142			
80	73.3	119	89.9	60.9	61.2	107	119	182	198	179	116	93.8	47.0	57.8	82.8	121			
85	17.7	19.6	21.0	33.6	13.0	37.3	149	103	97.1	103	142	35.3	7.10	29.4	21.6	18.7			
90	3.70	4.41	5.86	7.29	0.69	9.80	6.26	5.35	5.00	5.36	6.22	9.38	0.43	6.33	5.59	4.20			
95	3.17	3.55	3.99	3.80	0.41	4.45	4.60	4.06	3.80	4.17	4.74	4.19	0.52	3.27	3.87	3.56			
100	3.02	3.20	3.29	2.77	0.56	2.97	3.54	3.47	3.34	3.74	3.96	2.97	0.67	2.42	3.39	3.36			
105	2.94	3.01	2.82	2.09	0.70	2.29	3.01	3.07	3.09	3.40	3.40	2.39	0.87	1.92	2.93	3.19			
110	2.91	2.89	2.42	1.73	0.90	2.08	2.75	2.89	2.99	3.20	3.06	2.16	1.09	1.74	2.53	3.03			
115	2.85	2.78	2.30	1.67	1.15	2.01	2.62	2.82	2.95	3.09	2.86	2.09	1.33	1.80	2.29	2.87			
120	2.72	2.56	2.06	1.78	1.41	2.07	2.62	2.79	2.95	3.01	2.79	2.14	1.59	1.90	2.27	2.69			
125	2.66	2.60	2.13	1.94	1.66	2.22	2.62	2.79	2.92	2.95	2.74	2.27	1.84	2.03	2.32	2.63			
130	2.69	2.47	2.25	2.11	1.91	2.35	2.68	2.81	2.92	2.93	2.77	2.39	2.07	2.19	2.42	2.65			
135	2.73	2.55	2.39	2.29	2.13	2.47	2.75	2.88	2.99	2.97	2.82	2.52	2.29	2.36	2.50	2.63			
140	2.79	2.59	2.54	2.46	2.36	2.60	2.81	2.92	3.02	2.98	2.86	2.65	2.48	2.52	2.62	2.68			
145	2.86	2.71	2.68	2.66	2.59	2.73	2.89	2.96	3.03	2.99	2.94	2.77	2.64	2.69	2.74	2.78			
150	2.99	2.86	2.81	2.83	2.75	2.85	2.97	3.02	3.08	3.06	3.00	2.88	2.78	2.85	2.85	2.88			
155	3.10	2.98	2.97	2.97	2.86	2.95	3.05	3.08	3.11	3.09	3.07	2.98	2.91	2.97	2.95	2.97			
160	3.18	3.09	3.09	3.09	2.96	3.02	3.09	3.13	3.19	3.16	3.12	3.07	3.01	3.06	3.07	3.05			
165	3.29	3.21	3.20	3.17	3.05	3.10	3.13	3.17	3.25	3.21	3.19	3.13	3.08	3.17	3.17	3.15			
170	3.27	3.27	3.24	3.23	3.13	3.16	3.17	3.20	3.27	3.25	3.23	3.18	3.15	3.22	3.24	3.21			
175	3.28	3.29	3.27	3.26	3.17	3.18	3.18	3.21	3.25	3.25	3.23	3.20	3.18	3.25	3.26	3.25			
180	3.25	3.24	3.21	3.21	3.21	3.20	3.19	3.19	3.25	3.23	3.22	3.21	3.20	3.20	3.19	3.19			

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