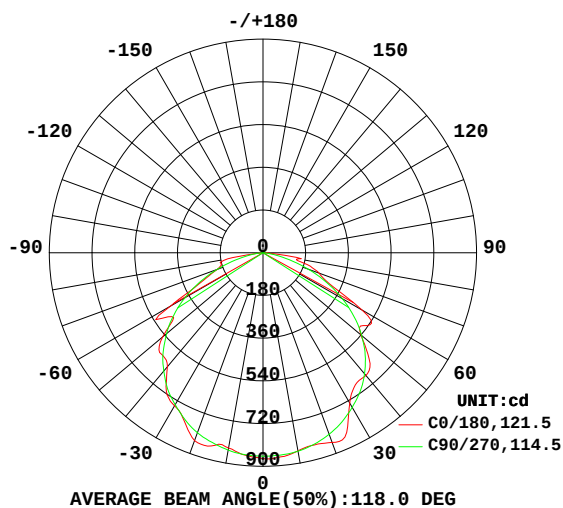


LUMINAIRE PHOTOMETRIC TEST REPORT

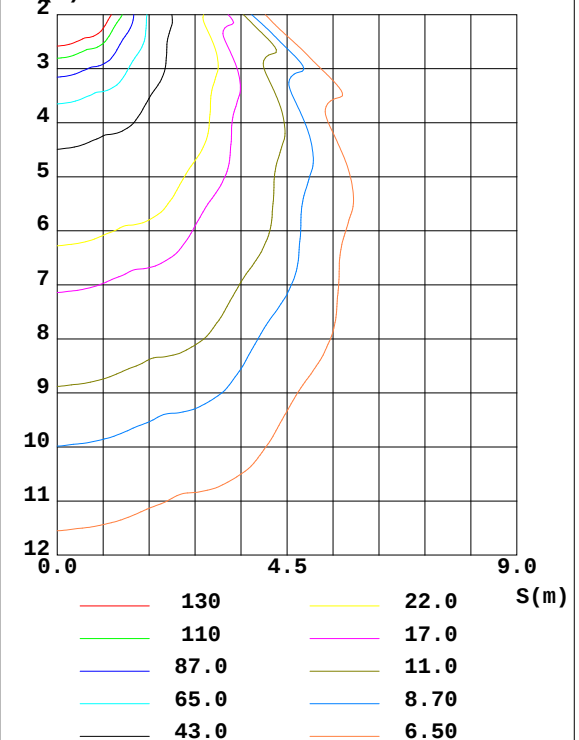
Test:U:220.2V I:0.0837A P:18.05W PF:0.9775 Freq:49.99Hz Lamp Flux:2566.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 142.20 lm/W			
MODEL		I _{max} (cd)	869.0	S/MH(C0/180)	1.24
NOMINAL POWER(W)	18.77	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2566.4	η UP, DN(C0-180)	0.3, 49.4
NOMINAL FLUX(lm)	2566.39	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.3, 50.0
LAMPS INSIDE	1	η up(%)	0.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.0	η down(%)	99.4	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:

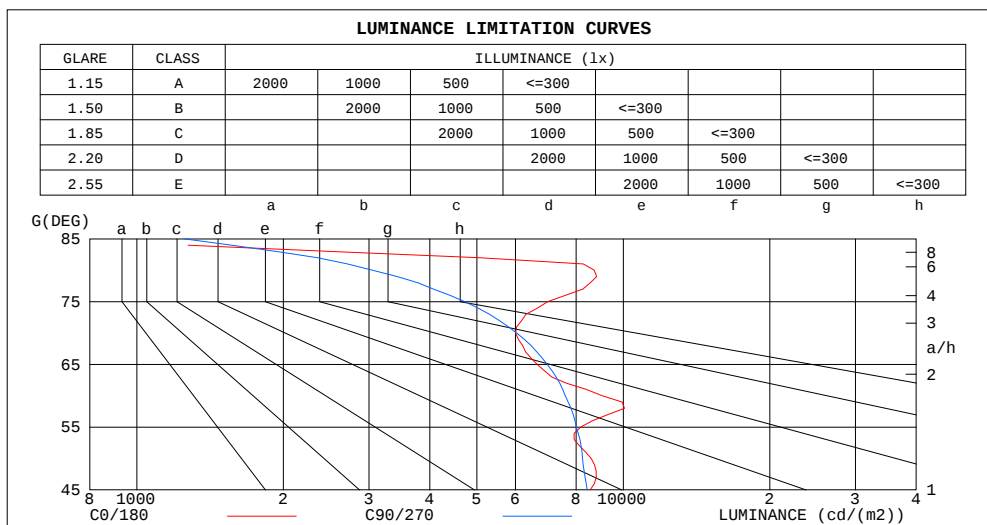
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	835.2	835.3	844.5	841.0	848.0	849.3	849.0	833.7	0- 10	81.11	81.11	3.16, 3.16
20	843.0	806.7	807.5	800.4	850.6	812.7	814.1	804.2	10- 20	234.1	315.2	12.3, 12.3
30	745.3	759.9	739.5	794.5	731.0	802.2	752.0	763.7	20- 30	364.7	679.9	26.5, 26.5
40	626.9	646.8	650.3	618.9	675.1	625.0	665.8	649.7	30- 40	438.2	1118	43.6, 43.6
50	551.9	497.6	530.1	544.1	539.4	553.1	542.1	508.0	40- 50	466.8	1585	61.8, 61.8
60	452.2	400.1	379.7	388.0	481.6	395.6	385.3	413.5	50- 60	427.9	2013	78.4, 78.4
70	205.3	210.6	206.3	239.0	252.2	244.6	203.2	227.1	60- 70	318.3	2331	90.8, 90.8
80	151.3	110.3	52.93	104.9	150.3	106.2	46.07	103.6	70- 80	171.4	2502	97.5, 97.5
90	2.482	4.089	0.6483	10.27	11.90	10.07	0.5319	3.844	80- 90	48.76	2551	99.4, 99.4
100	2.067	2.901	0.5547	2.547	2.038	2.888	0.7331	2.693	90-100	3.383	2555	99.5, 99.5
110	2.044	2.044	0.8857	2.032	2.121	2.386	1.123	1.944	100-110	2.117	2557	99.6, 99.6
120	2.091	1.736	1.370	1.973	2.245	2.256	1.583	1.872	110-120	1.867	2559	99.7, 99.7
130	2.262	2.037	1.872	2.233	2.375	2.386	2.050	2.085	120-130	1.833	2560	99.8, 99.8
140	2.434	2.374	2.315	2.540	2.617	2.599	2.398	2.310	130-140	1.790	2562	99.8, 99.8
150	2.676	2.670	2.752	2.865	2.871	2.877	2.729	2.593	140-150	1.632	2564	99.9, 99.9
160	2.918	2.924	2.953	3.119	3.142	3.107	2.965	2.859	150-160	1.330	2565	100, 100
170	3.136	3.166	3.160	3.243	3.278	3.237	3.160	3.125	160-170	0.8761	2566	100, 100
180	3.184	3.225	3.237	3.219	3.195	3.225	3.225	3.225	170-180	0.3063	2566	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:0.0837A P:18.05W PF:0.9775 Freq:49.99Hz Lamp Flux:2566.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	550	1250
80	8715	3048
75	6992	4715
70	6004	6032
65	6648	6972
60	9044	7595
55	8176	8006
50	8586	8246
45	8549	8427

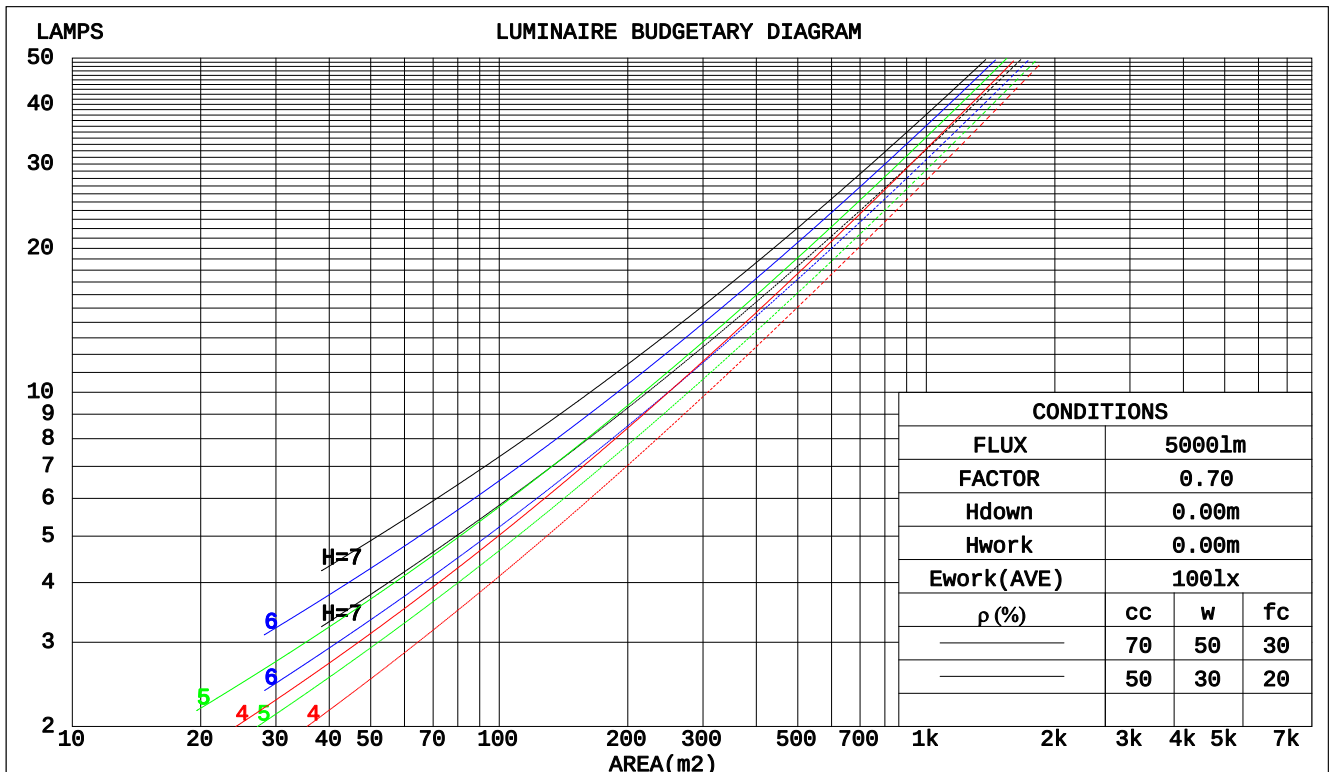
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 30 July 2019

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:0.0837A P:18.05W PF:0.9775 Freq:49.99Hz Lamp Flux:2566.39x1 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	.96	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.78	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.51	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.30	.26	.37	.30	.25	.36	.30	.25	.24



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:0.0837A P:18.05W PF:0.9775 Freq:49.99Hz Lamp Flux:2566.39x1 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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.310	.176	.056	.303	.173	.055	.289	.166	.053	.277	.159	.051	.265	.154	.050	
2.0	.292	.160	.049	.286	.157	.048	.274	.152	.047	.263	.147	.046	.252	.143	.045	
3.0	.271	.144	.043	.265	.142	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040	
4.0	.250	.130	.038	.245	.128	.038	.235	.125	.037	.227	.122	.037	.218	.119	.036	
5.0	.231	.118	.034	.227	.116	.034	.218	.114	.033	.210	.111	.033	.203	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.089	.025	.172	.087	.025	.166	.085	.025	
9.0	.175	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.021	.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	.195	.195	.195	.167	.167	.167	.114	.114	.114	.065	.065	.065	.021	.021	.021	
1.0	.185	.161	.139	.158	.138	.120	.108	.095	.083	.062	.055	.048	.020	.018	.016	
2.0	.177	.136	.103	.151	.117	.089	.104	.081	.062	.060	.047	.036	.019	.015	.012	
3.0	.169	.119	.079	.145	.103	.068	.100	.071	.048	.058	.042	.028	.018	.014	.009	
4.0	.162	.106	.063	.139	.091	.055	.095	.064	.038	.055	.037	.023	.018	.012	.007	
5.0	.154	.095	.052	.132	.082	.045	.091	.058	.032	.053	.034	.019	.017	.011	.006	
6.0	.147	.087	.044	.126	.075	.038	.087	.053	.027	.051	.031	.016	.016	.010	.005	
7.0	.140	.080	.038	.121	.069	.033	.083	.049	.023	.048	.029	.014	.016	.009	.005	
8.0	.134	.074	.033	.115	.064	.029	.080	.045	.021	.046	.027	.012	.015	.009	.004	
9.0	.128	.069	.030	.110	.060	.026	.076	.042	.018	.044	.025	.011	.014	.008	.004	
10.0	.122	.065	.027	.105	.056	.024	.073	.040	.017	.043	.023	.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:0.0837A P:18.05W PF:0.9775 Freq:49.99Hz Lamp Flux:2566.39x1 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		17.3	18.8	17.5	19.0	19.2	16.7	18.2	17.0	18.4	18.6
3H		18.2	19.6	18.5	19.9	20.1	17.9	19.4	18.3	19.6	19.8
4H		18.8	20.2	19.1	20.4	20.7	18.4	19.7	18.7	20.0	20.2
6H		19.7	21.0	20.1	21.3	21.6	18.6	19.8	18.9	20.1	20.4
8H		19.9	21.1	20.2	21.4	21.7	18.6	19.8	18.9	20.1	20.4
12H		19.8	21.0	20.2	21.3	21.6	18.5	19.7	18.9	20.0	20.3
4H 2H		17.9	19.2	18.2	19.5	19.7	17.4	18.8	17.8	19.0	19.3
3H		19.0	20.1	19.3	20.5	20.8	18.8	20.0	19.2	20.3	20.6
4H		19.7	20.8	20.1	21.1	21.4	19.4	20.5	19.8	20.8	21.2
6H		20.9	21.8	21.3	22.2	22.6	19.8	20.7	20.2	21.1	21.5
8H		21.1	22.0	21.5	22.3	22.7	19.8	20.7	20.2	21.1	21.5
12H		21.1	21.9	21.5	22.3	22.7	19.8	20.6	20.2	21.0	21.4
8H 4H		19.9	20.8	20.3	21.1	21.5	19.7	20.5	20.1	20.9	21.3
6H		21.4	22.1	21.8	22.5	22.9	20.1	20.9	20.6	21.3	21.7
8H		21.7	22.3	22.1	22.8	23.2	20.2	20.9	20.7	21.3	21.8
12H		21.6	22.2	22.1	22.7	23.2	20.3	20.8	20.7	21.3	21.8
12H 4H		19.9	20.7	20.3	21.1	21.5	19.7	20.5	20.2	20.9	21.4
6H		21.5	22.2	22.0	22.6	23.1	20.4	21.1	20.9	21.5	22.0
8H		21.9	22.4	22.4	22.9	23.4	20.6	21.1	21.1	21.6	22.1
Variations with the observer position at spacings:											
S = 1.0H		+ 0.3 / - 0.3					+ 0.6 / - 0.3				
1.5H		+ 0.3 / - 0.4					+ 0.2 / - 0.5				
2.0H		+ 0.7 / - 0.6					+ 0.9 / - 0.7				

CIE Pub.117, 2566 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.3$)

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:0.0837A P:18.05W PF:0.9775 Freq:49.99Hz Lamp Flux:2566.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:

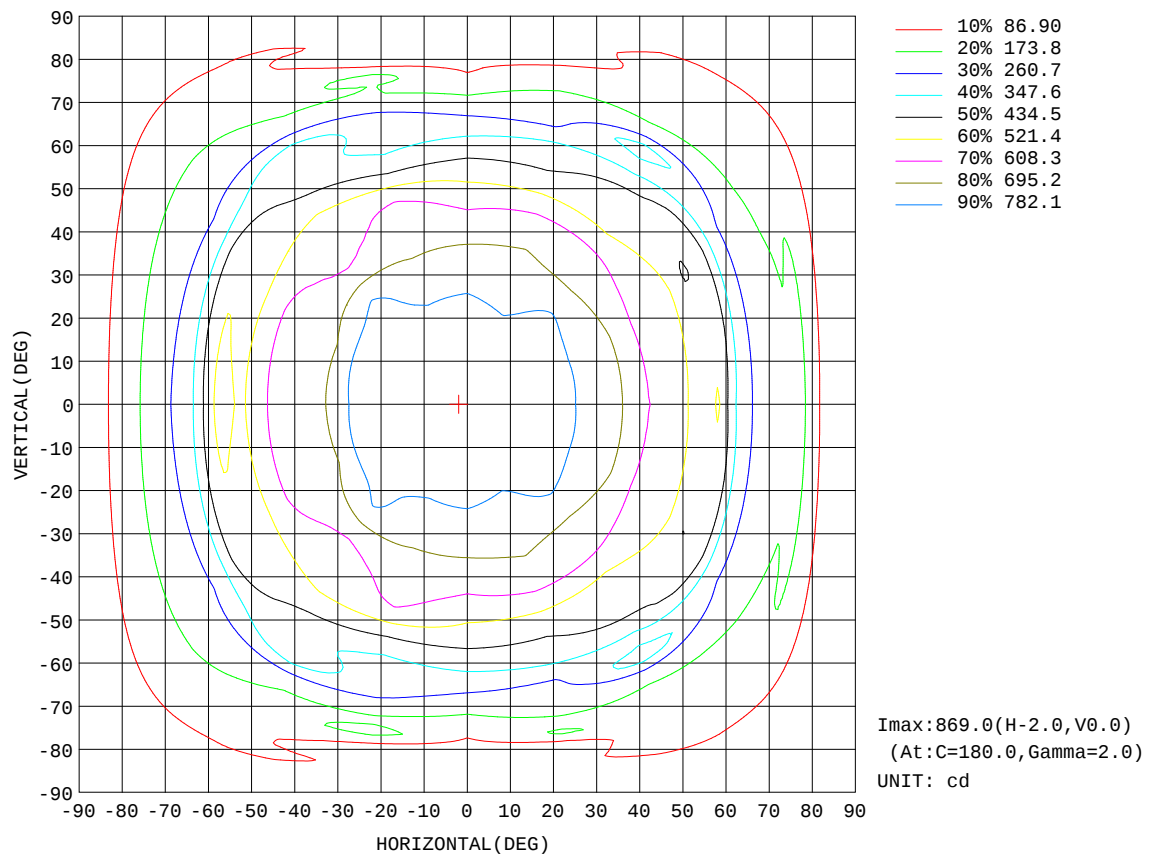
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	80	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	90	100	93	88	96	90	86	78
4.00	106	100	96	104	98	94	99	95	91	82
5.00	108	104	99	106	102	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:0.0837A P:18.05W PF:0.9775 Freq:49.99Hz Lamp Flux:2566.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:



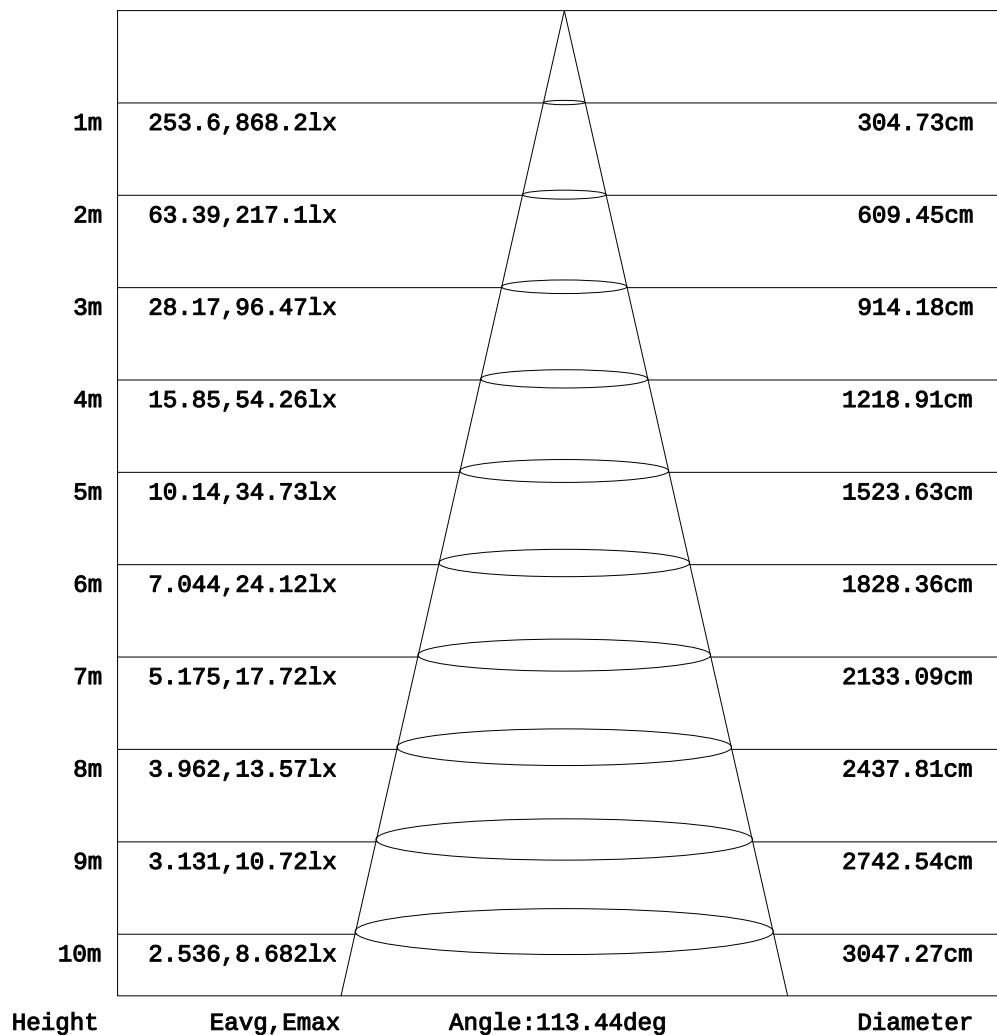
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:30 July 2019

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:0.0837A P:18.05W PF:0.9775 Freq:49.99Hz Lamp Flux:2566.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:

Flux out:1889 lm



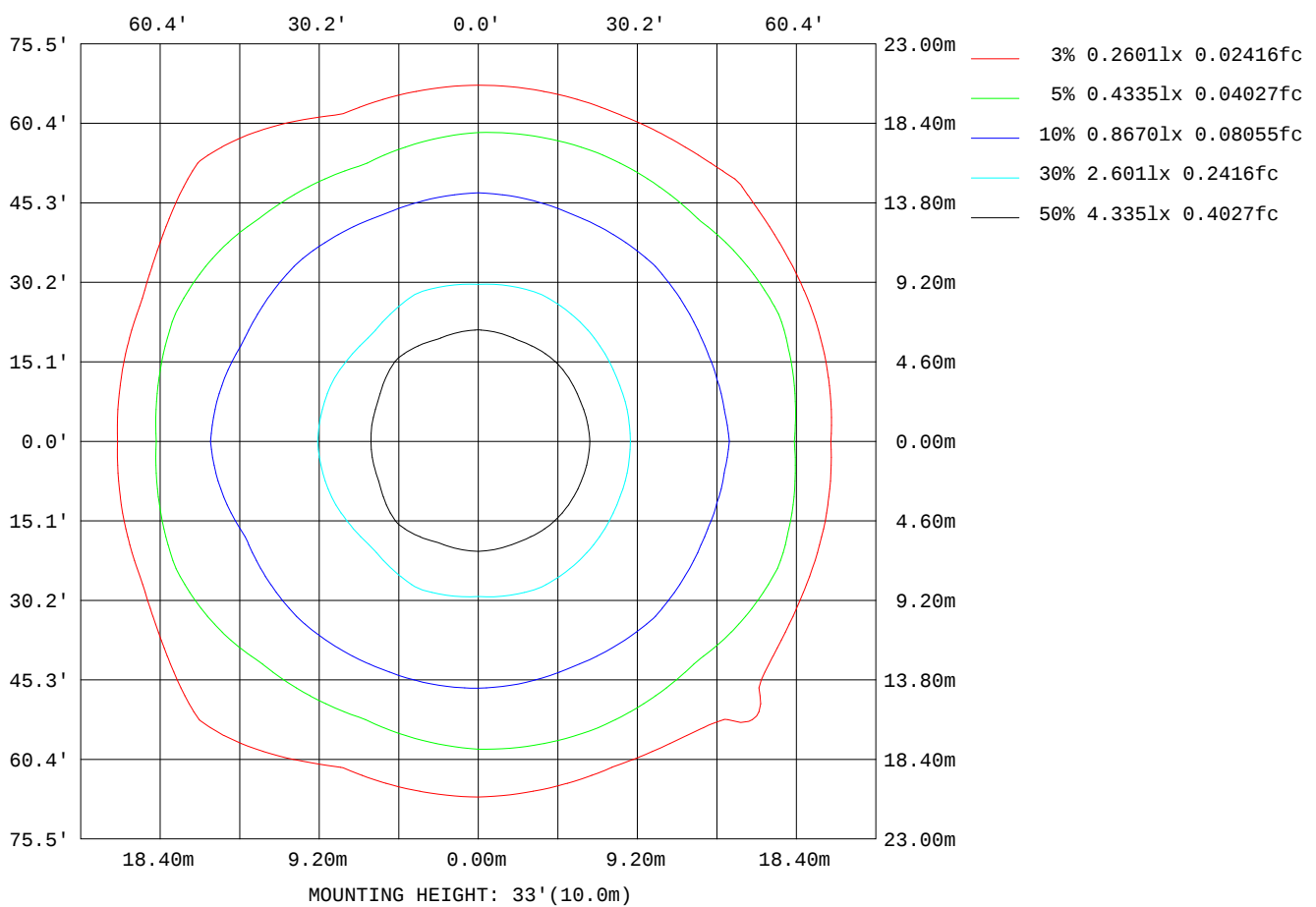
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.0837A P:18.05W PF:0.9775 Freq:49.99Hz Lamp Flux:2566.39x1 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:0.0837A P:18.05W PF:0.9775 Freq:49.99Hz Lamp Flux:2566.39x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:

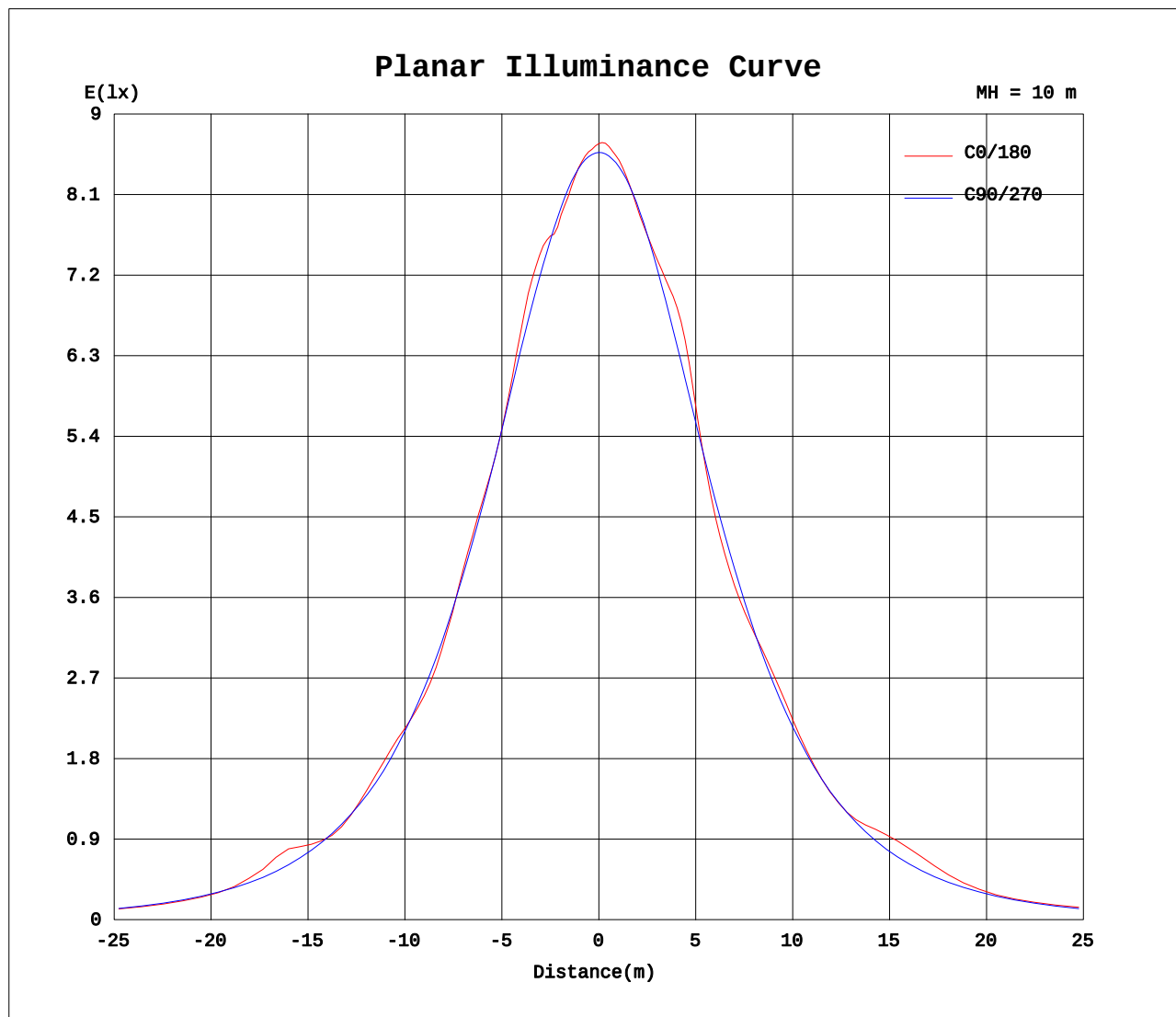
AvgL	cd/m2
L_0~180(65)av	6968
L_0~180(75)av	7236
L_0~180(85)av	2600
L_90~270(65)av	6984
L_90~270(75)av	4601
L_90~270(85)av	1025
L_45(65)av	9023
L_45(75)av	5457
L_45(85)av	5021

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:0.0837A P:18.05W PF:0.9775 Freq:49.99Hz Lamp Flux:2566.39x1 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	867	863	860	859	857	856	855	854	867	863	860	859	857	856	855	854			
5	857	854	852	851	854	855	852	850	864	860	859	859	856	850	848	845			
10	835	832	835	840	845	844	841	836	848	846	849	850	849	841	834	824			
15	843	827	812	821	828	827	818	821	838	832	829	835	835	825	812	818			
20	843	837	807	792	807	803	800	826	851	838	813	811	814	796	804	830			
25	783	793	804	759	777	771	795	830	835	843	808	779	787	763	804	789			
30	745	736	760	719	739	731	795	739	731	747	802	739	752	725	764	731			
35	711	709	690	704	701	697	725	663	679	669	728	701	713	707	696	705			
40	627	638	647	677	650	667	619	639	675	647	625	675	666	682	650	636			
45	604	578	595	619	596	641	560	624	632	630	571	650	609	632	604	574			
50	552	562	498	527	530	598	544	541	539	551	553	590	542	541	508	560			
55	469	449	468	445	459	461	491	473	536	483	500	451	468	452	468	451			
60	452	501	400	392	380	349	388	497	482	504	396	346	385	396	413	491			
65	281	290	356	274	295	300	412	314	308	317	417	304	296	288	340	290			
70	205	202	211	231	206	252	239	233	252	235	245	244	203	220	227	201			
75	181	164	127	142	122	165	154	186	194	185	155	175	116	154	129	160			
80	151	160	110	59.8	52.9	68.1	105	131	150	130	106	63.4	46.1	61.0	104	155			
85	4.79	6.74	17.5	41.5	10.9	39.4	63.7	39.5	40.5	39.3	72.3	36.8	6.98	32.7	21.6	7.02			
90	2.48	3.18	4.09	5.36	0.65	8.74	10.3	11.7	11.9	11.2	10.1	7.98	0.53	5.00	3.84	2.91			
95	2.19	2.89	3.47	3.40	0.43	3.46	3.08	2.70	2.20	2.69	3.39	3.35	0.62	3.10	3.26	2.63			
100	2.07	2.66	2.90	2.23	0.55	2.42	2.55	2.44	2.04	2.50	2.89	2.46	0.73	2.00	2.69	2.49			
105	2.04	2.47	2.44	1.64	0.73	1.97	2.20	2.18	2.04	2.37	2.55	2.04	0.92	1.62	2.23	2.30			
110	2.04	2.01	2.04	1.39	0.89	1.79	2.03	2.00	2.12	2.35	2.39	1.87	1.12	1.47	1.94	2.20			
115	2.07	2.23	1.71	1.42	1.13	1.77	1.97	1.97	2.20	2.36	2.28	1.85	1.35	1.57	1.94	2.17			
120	2.09	2.19	1.74	1.58	1.37	1.85	1.97	2.00	2.24	2.33	2.26	1.93	1.58	1.68	1.87	2.14			
125	2.14	2.24	1.88	1.79	1.63	2.02	2.09	2.09	2.27	2.34	2.29	2.09	1.83	1.86	1.97	2.16			
130	2.26	2.23	2.04	1.97	1.87	2.20	2.23	2.22	2.37	2.41	2.39	2.24	2.05	1.97	2.09	2.21			
135	2.38	2.26	2.22	2.16	2.09	2.39	2.38	2.40	2.50	2.52	2.47	2.42	2.25	2.10	2.17	2.33			
140	2.43	2.39	2.37	2.36	2.31	2.53	2.54	2.54	2.62	2.60	2.60	2.58	2.40	2.28	2.31	2.41			
145	2.54	2.53	2.51	2.55	2.59	2.71	2.70	2.68	2.73	2.73	2.75	2.72	2.56	2.44	2.46	2.49			
150	2.68	2.68	2.67	2.72	2.75	2.85	2.86	2.82	2.87	2.85	2.88	2.84	2.73	2.60	2.59	2.62			
155	2.81	2.84	2.81	2.87	2.88	2.96	2.99	2.96	3.02	2.98	3.00	2.96	2.85	2.76	2.73	2.72			
160	2.92	2.94	2.92	2.98	2.95	3.05	3.12	3.08	3.14	3.11	3.11	3.05	2.97	2.91	2.86	2.85			
165	3.04	3.07	3.05	3.06	3.04	3.16	3.20	3.18	3.25	3.21	3.20	3.15	3.07	3.04	2.99	2.98			
170	3.14	3.17	3.17	3.17	3.16	3.22	3.24	3.25	3.28	3.28	3.24	3.21	3.16	3.16	3.13	3.11			
175	3.17	3.23	3.21	3.21	3.21	3.22	3.22	3.27	3.25	3.27	3.24	3.20	3.21	3.21	3.20	3.18			
180	3.18	3.24	3.23	3.23	3.24	3.24	3.22	3.21	3.20	3.23	3.23	3.23	3.23	3.23	3.23	3.21			

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