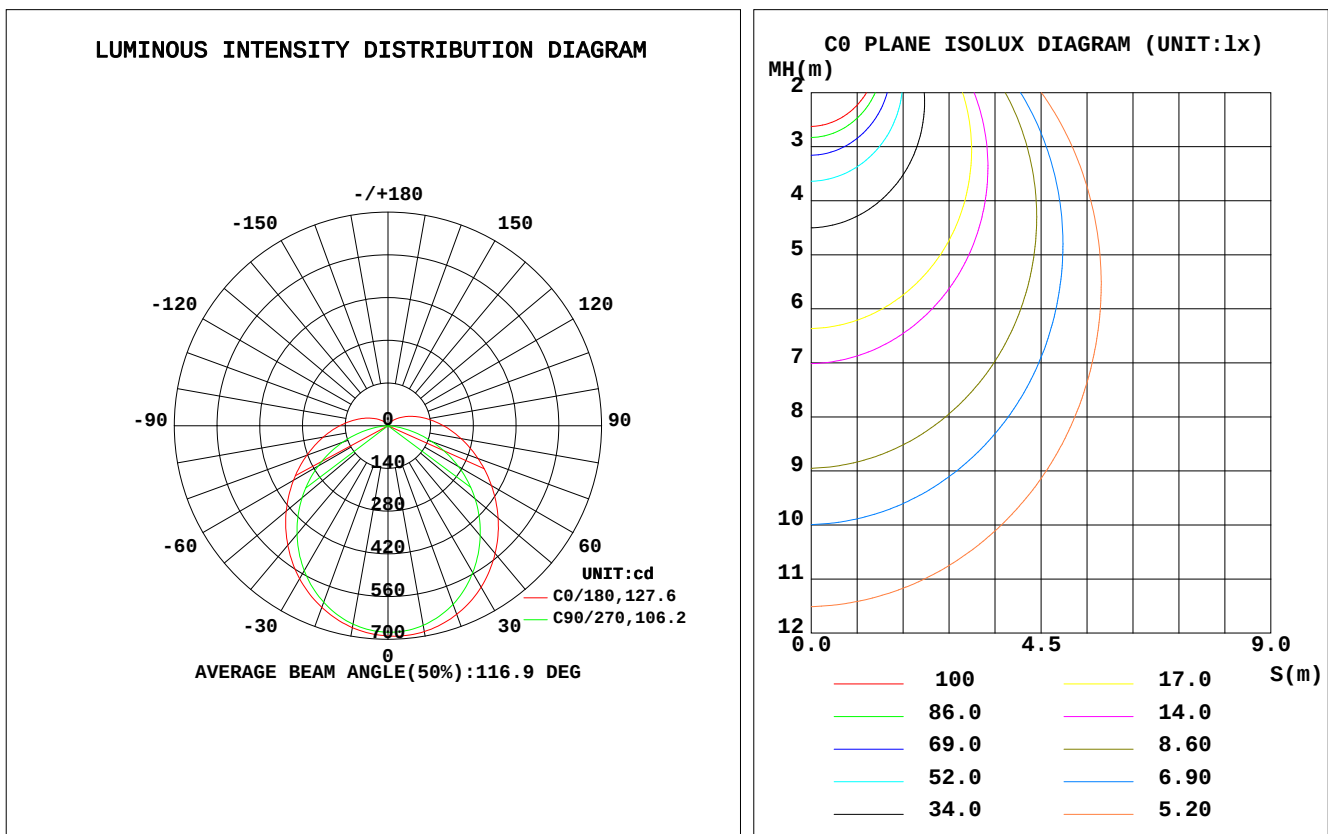


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.2V I:0.0834A P:17.95W PF:0.9762 Freq:49.99Hz Lamp Flux:2349.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.91 lm/W			
MODEL		I _{max} (cd)	690.1	S/MH(C0/180)	1.32
NOMINAL POWER(W)	18.51	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2349.2	η UP, DN(C0-180)	4.2, 45.2
NOMINAL FLUX(lm)	2349.19	CIE CLASS	DIRECT	η UP, DN(C180-360)	4.4, 46.1
LAMPS INSIDE	1	η up(%)	8.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.0	η down(%)	91.4	CIBSE SHR MAX	1.35



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:

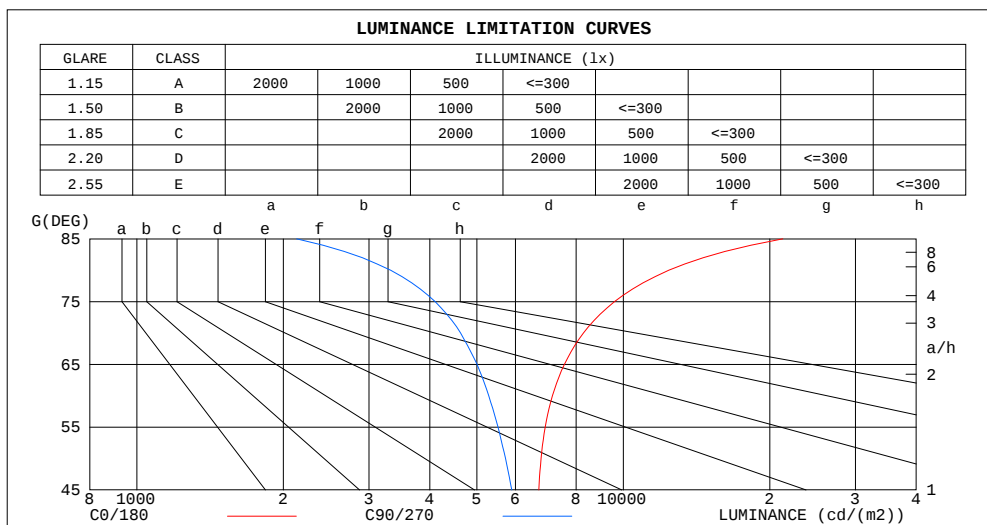
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	671.9	662.4	660.3	664.7	685.0	673.7	664.1	659.1	0- 10	64.22	64.22	2.73, 2.73
20	633.7	620.2	615.9	630.1	657.7	641.8	622.8	619.2	10- 20	183.6	247.8	10.5, 10.5
30	579.2	557.5	548.6	573.7	610.8	583.4	555.7	559.2	20- 30	277.4	525.3	22.4, 22.4
40	510.9	480.4	463.9	499.8	546.2	509.7	470.1	483.3	30- 40	334.2	859.4	36.6, 36.6
50	435.5	394.7	367.9	415.1	471.3	426.0	372.9	398.4	40- 50	349.7	1209	51.5, 51.5
60	357.5	307.4	264.5	327.1	391.5	337.6	266.2	310.7	50- 60	326.4	1535	65.4, 65.4
70	283.2	225.0	158.3	243.1	314.0	252.5	154.5	227.8	60- 70	273.0	1809	77, 77
80	215.4	153.9	57.70	169.4	243.1	177.4	51.40	155.5	70- 80	203.0	2012	85.6, 85.6
90	158.5	98.69	0.6383	112.1	182.3	118.0	0.4607	99.23	80- 90	134.6	2146	91.4, 91.4
100	111.2	59.89	0.5788	70.35	131.3	74.60	0.6085	59.86	90-100	86.10	2232	95, 95
110	74.04	33.09	0.7499	42.45	90.20	45.23	0.8391	31.68	100-110	53.18	2285	97.3, 97.3
120	46.16	16.06	1.063	25.23	58.54	26.88	1.146	16.70	110-120	30.93	2316	98.6, 98.6
130	27.22	8.727	1.388	14.91	35.74	15.77	1.453	9.170	120-130	16.83	2333	99.3, 99.3
140	15.29	5.358	1.724	9.015	20.16	9.380	1.766	5.564	130-140	8.597	2342	99.7, 99.7
150	8.521	3.687	2.055	5.743	10.68	5.880	2.032	3.833	140-150	4.183	2346	99.9, 99.9
160	4.929	3.320	2.286	3.869	5.716	3.909	2.262	3.254	150-160	2.031	2348	99.9, 99.9
170	3.007	3.160	2.439	3.178	2.971	3.230	2.439	3.101	160-170	0.9399	2349	100, 100
180	2.487	2.498	2.504	2.469	2.498	2.516	2.510	2.481	170-180	0.2738	2349	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:0.0834A P:17.95W PF:0.9762 Freq:49.99Hz Lamp Flux:2349.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	21274	2130
80	12404	3323
75	9594	4102
70	8279	4628
65	7566	5002
60	7150	5289
55	6911	5524
50	6775	5724
45	6701	5897

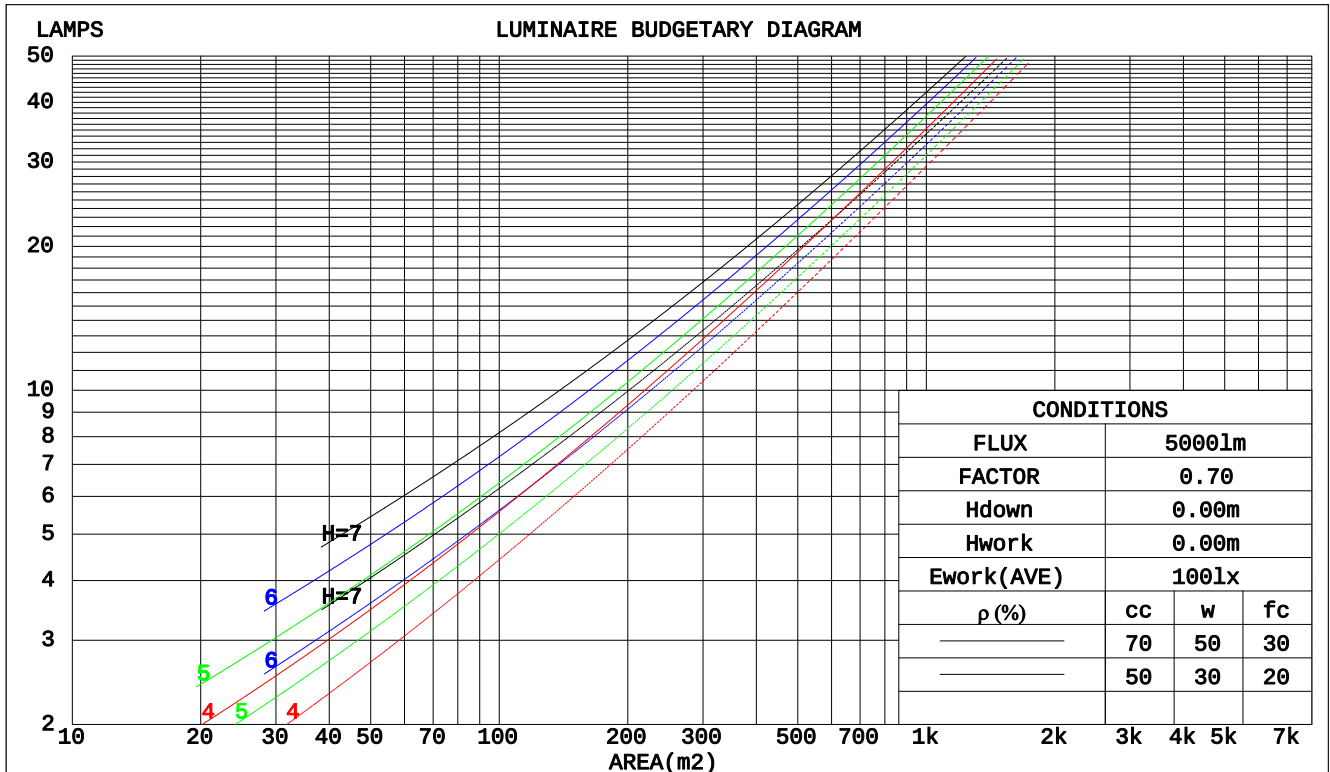
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 30 July 2019

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:0.0834A P:17.95W PF:0.9762 Freq:49.99Hz Lamp Flux:2349.19x1 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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.00	.00	.00	.94	.94	.94	.91
1.0	.99	.94	.90	.96	.92	.87	.90	.86	.83	.85	.82	.79	.80	.77	.75	.72
2.0	.86	.78	.72	.83	.76	.70	.78	.72	.67	.73	.69	.64	.69	.65	.62	.59
3.0	.75	.66	.59	.72	.64	.58	.68	.61	.56	.64	.58	.54	.61	.56	.52	.49
4.0	.66	.57	.50	.64	.55	.49	.60	.53	.47	.57	.51	.46	.54	.48	.44	.42
5.0	.59	.49	.42	.57	.48	.42	.54	.46	.41	.51	.44	.39	.48	.43	.38	.36
6.0	.53	.44	.37	.51	.43	.36	.49	.41	.35	.46	.39	.34	.44	.38	.33	.31
7.0	.48	.39	.32	.46	.38	.32	.44	.37	.31	.42	.35	.30	.40	.34	.30	.27
8.0	.43	.35	.29	.42	.34	.29	.40	.33	.28	.38	.32	.27	.37	.31	.26	.24
9.0	.40	.32	.26	.39	.31	.26	.37	.30	.25	.35	.29	.24	.34	.28	.24	.22
10.0	.37	.29	.23	.36	.28	.23	.34	.27	.23	.33	.27	.22	.31	.26	.22	.20



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:0.0834A P:17.95W PF:0.9762 Freq:49.99Hz Lamp Flux:2349.19x1 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	.359	.204	.065	.349	.199	.063	.331	.190	.061	.314	.181	.058	.298	.173	.056				
2.0	.318	.175	.054	.310	.171	.053	.293	.163	.051	.278	.156	.049	.264	.149	.047				
3.0	.287	.152	.046	.279	.149	.045	.264	.143	.043	.250	.137	.042	.238	.132	.041				
4.0	.260	.135	.040	.253	.132	.039	.240	.127	.038	.227	.122	.037	.216	.117	.036				
5.0	.238	.121	.035	.231	.119	.035	.219	.114	.034	.208	.110	.033	.198	.106	.032				
6.0	.219	.110	.031	.213	.108	.031	.202	.104	.030	.192	.100	.029	.183	.096	.029				
7.0	.202	.100	.028	.197	.098	.028	.188	.095	.027	.178	.091	.027	.170	.088	.026				
8.0	.188	.092	.026	.184	.090	.026	.175	.087	.025	.166	.084	.024	.158	.081	.024				
9.0	.176	.085	.024	.172	.084	.023	.163	.081	.023	.156	.078	.022	.149	.075	.022				
10.0	.165	.079	.022	.161	.078	.022	.154	.075	.021	.146	.073	.021	.140	.070	.020				

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	.256	.256	.256	.219	.219	.219	.150	.150	.150	.086	.086	.086	.027	.027	.027	
1.0	.250	.222	.197	.214	.191	.169	.146	.131	.117	.084	.076	.068	.027	.024	.022	
2.0	.243	.199	.162	.208	.171	.140	.142	.118	.097	.082	.069	.057	.026	.022	.019	
3.0	.235	.182	.139	.201	.157	.121	.138	.109	.085	.080	.064	.050	.026	.021	.016	
4.0	.227	.169	.124	.195	.146	.108	.134	.102	.076	.077	.060	.045	.025	.019	.015	
5.0	.219	.159	.114	.188	.137	.099	.130	.096	.070	.075	.056	.041	.024	.018	.014	
6.0	.212	.150	.106	.182	.130	.093	.126	.091	.066	.073	.054	.039	.024	.018	.013	
7.0	.205	.144	.101	.176	.125	.088	.122	.087	.062	.071	.051	.037	.023	.017	.012	
8.0	.198	.138	.097	.171	.120	.084	.118	.084	.060	.069	.050	.036	.022	.016	.012	
9.0	.192	.133	.093	.165	.116	.081	.115	.081	.058	.067	.048	.034	.022	.016	.011	
10.0	.186	.129	.091	.161	.112	.079	.111	.079	.056	.065	.047	.034	.021	.015	.011	

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:0.0834A P:17.95W PF:0.9762 Freq:49.99Hz Lamp Flux:2349.19x1 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		16.1	17.6	16.5	17.9	18.3	14.9	16.3	15.2	16.7	17.0
3H		18.4	19.7	18.8	20.1	20.5	16.3	17.6	16.7	18.0	18.4
4H		19.6	20.8	20.0	21.2	21.7	16.8	18.1	17.3	18.5	19.0
6H		20.9	22.1	21.3	22.5	23.0	17.2	18.4	17.6	18.8	19.3
8H		21.6	22.8	22.1	23.2	23.7	17.3	18.4	17.7	18.9	19.4
12H		22.4	23.5	22.9	24.0	24.5	17.3	18.4	17.8	18.9	19.4
4H 2H		16.6	17.9	17.1	18.3	18.8	15.7	17.0	16.1	17.4	17.8
3H		19.1	20.2	19.6	20.7	21.2	17.3	18.5	17.8	18.9	19.4
4H		20.5	21.6	21.0	22.0	22.5	18.0	19.1	18.5	19.5	20.1
6H		22.0	23.0	22.6	23.5	24.0	18.6	19.5	19.1	20.0	20.5
8H		22.9	23.8	23.4	24.3	24.9	18.7	19.6	19.3	20.1	20.7
12H		23.9	24.7	24.4	25.2	25.8	18.8	19.6	19.4	20.2	20.7
8H 4H		20.8	21.7	21.4	22.2	22.8	18.7	19.6	19.3	20.1	20.7
6H		22.6	23.4	23.2	23.9	24.5	19.6	20.3	20.1	20.8	21.5
8H		23.7	24.3	24.3	24.9	25.5	19.9	20.5	20.5	21.1	21.7
12H		24.9	25.5	25.5	26.1	26.7	20.1	20.7	20.7	21.3	21.9
12H 4H		20.8	21.6	21.4	22.2	22.8	19.0	19.8	19.5	20.3	20.9
6H		22.7	23.4	23.3	24.0	24.6	19.9	20.6	20.5	21.2	21.8
8H		23.9	24.4	24.5	25.0	25.7	20.4	21.0	21.0	21.6	22.2
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.1				+ 0.1 / - 0.2					
1.5H		+ 0.2 / - 0.3				+ 0.2 / - 0.3					
2.0H		+ 0.2 / - 0.3				+ 0.1 / - 0.3					

CIE Pub.117, 2349 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.0$)

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:0.0834A P:17.95W PF:0.9762 Freq:49.99Hz Lamp Flux:2349.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:

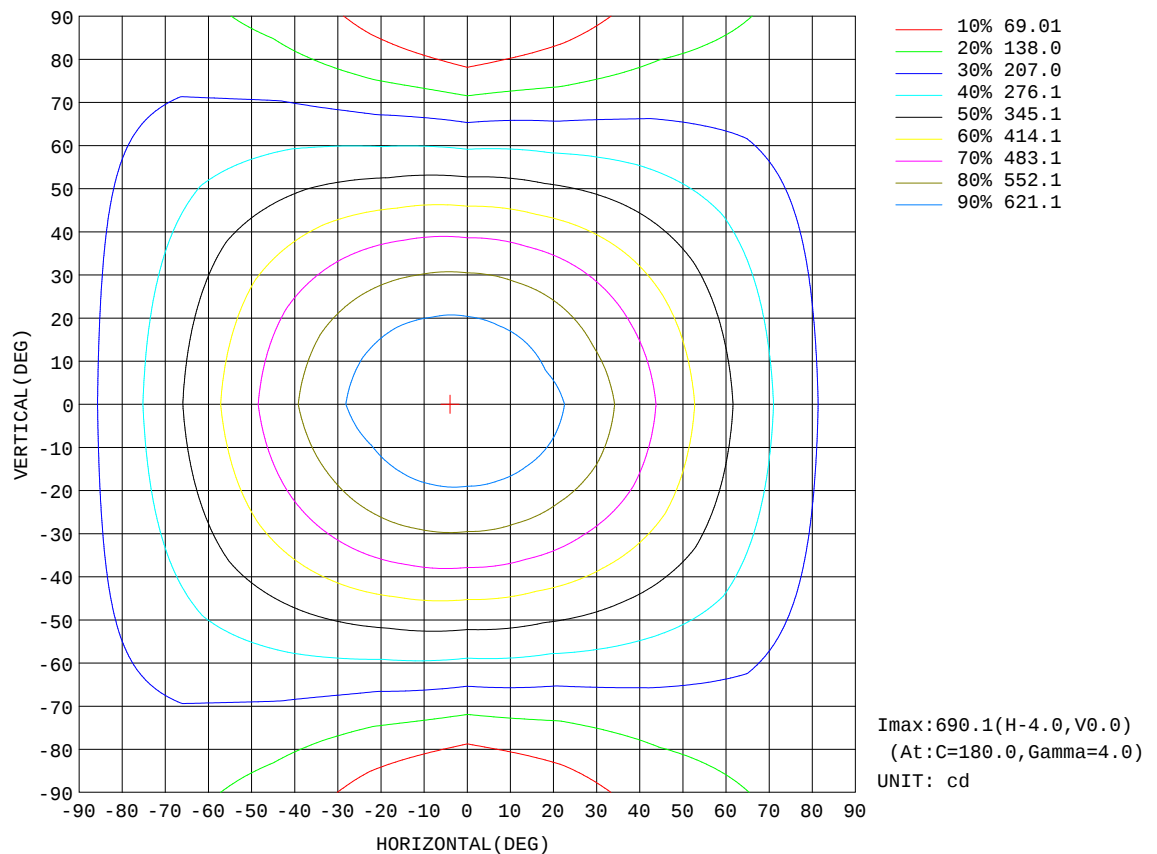
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	33	52	40	33	50	40	33	26
0.80	62	50	42	61	49	42	59	48	41	34
1.00	70	58	50	69	57	50	66	58	49	41
1.25	77	65	57	75	64	57	72	62	56	47
1.50	82	71	63	80	70	62	76	67	61	52
2.00	89	79	71	87	77	70	82	74	68	59
2.50	93	84	77	91	82	75	86	79	73	63
3.00	97	88	82	94	86	80	89	82	77	66
4.00	101	94	88	98	92	86	92	87	83	71
5.00	104	98	93	101	95	90	95	90	86	74
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:0.0834A P:17.95W PF:0.9762 Freq:49.99Hz Lamp Flux:2349.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:

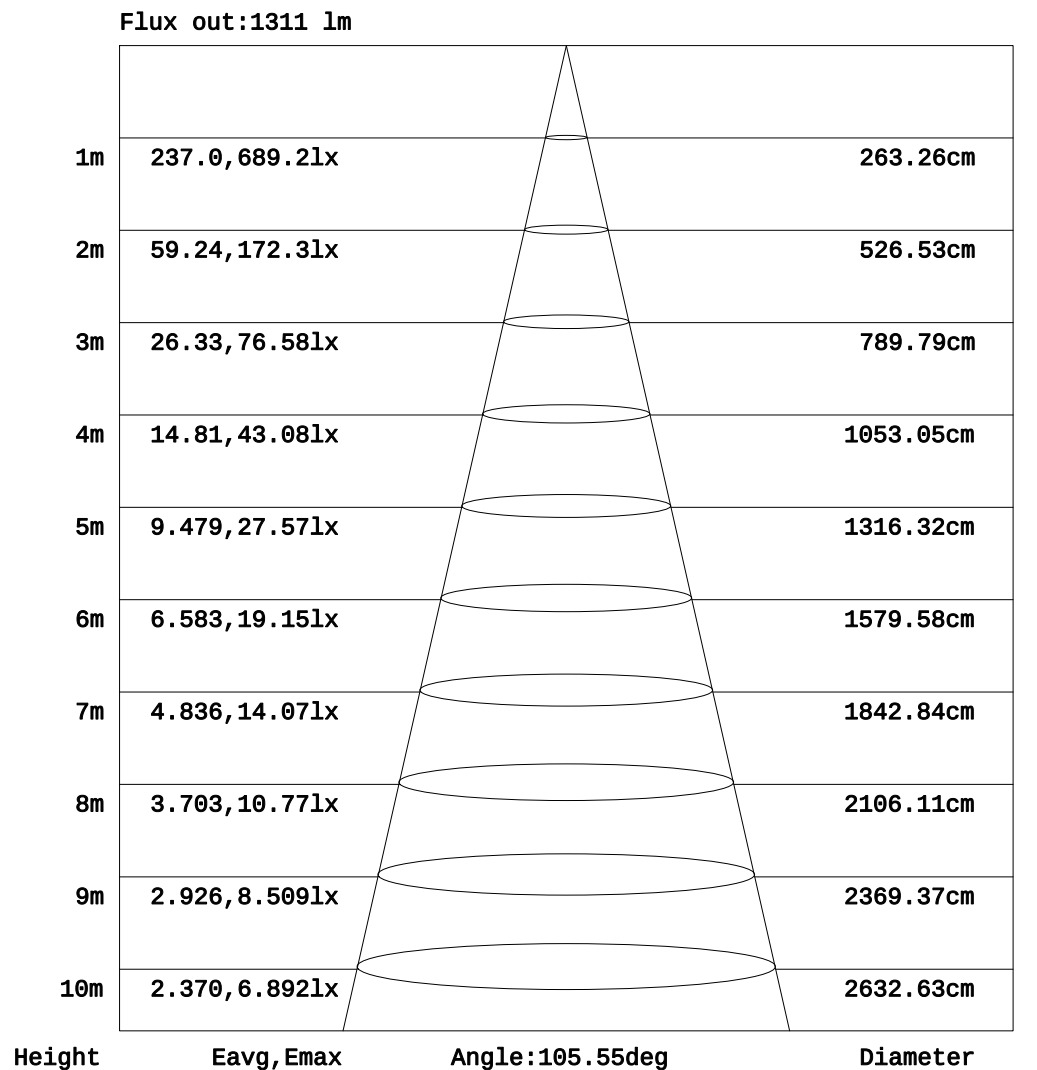


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:30 July 2019

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:0.0834A P:17.95W PF:0.9762 Freq:49.99Hz Lamp Flux:2349.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:



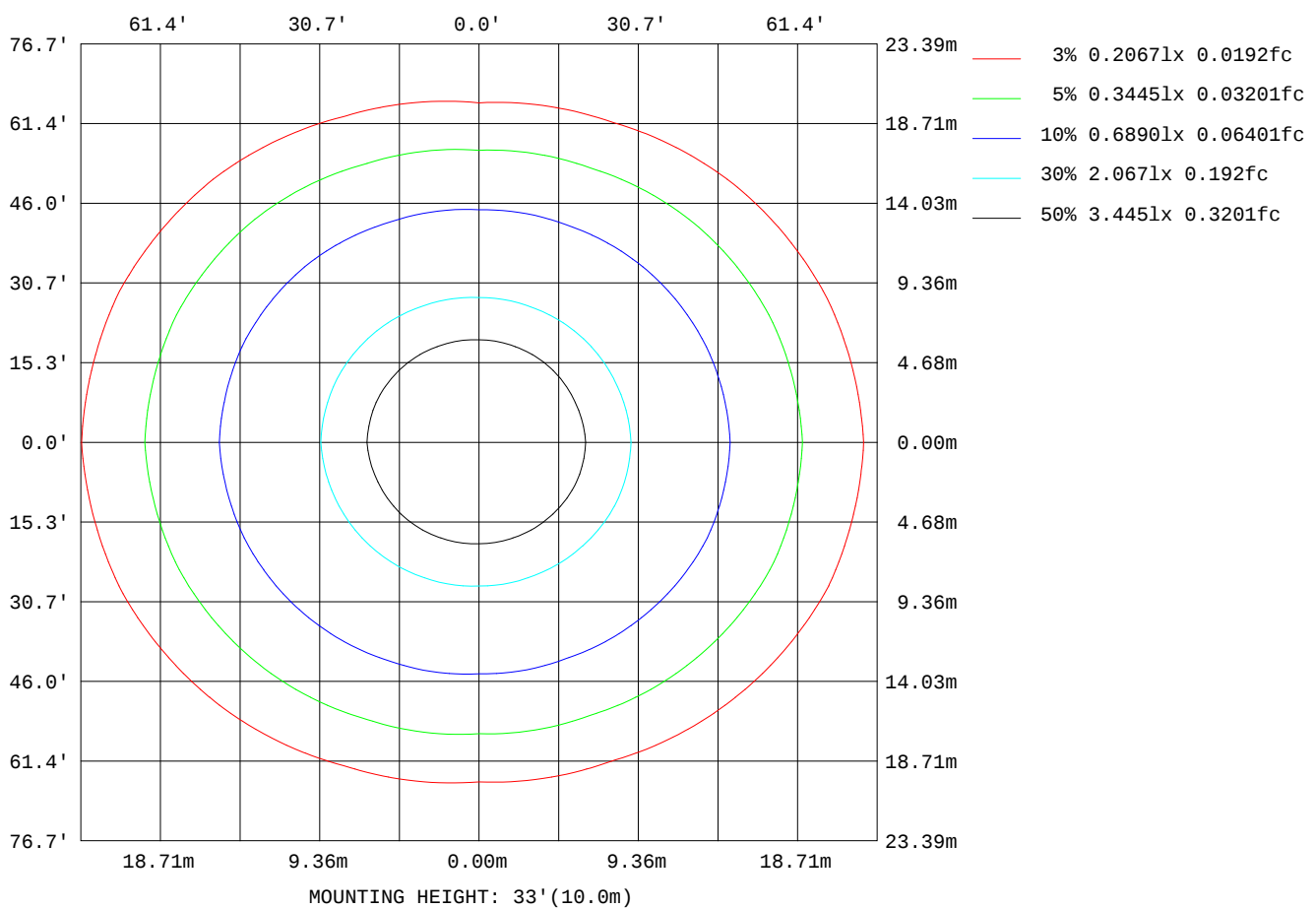
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 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:0.0834A P:17.95W PF:0.9762 Freq:49.99Hz Lamp Flux:2349.19x1 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:0.0834A P:17.95W PF:0.9762 Freq:49.99Hz Lamp Flux:2349.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: AOTOM	SUR.:	Shielding Angle:

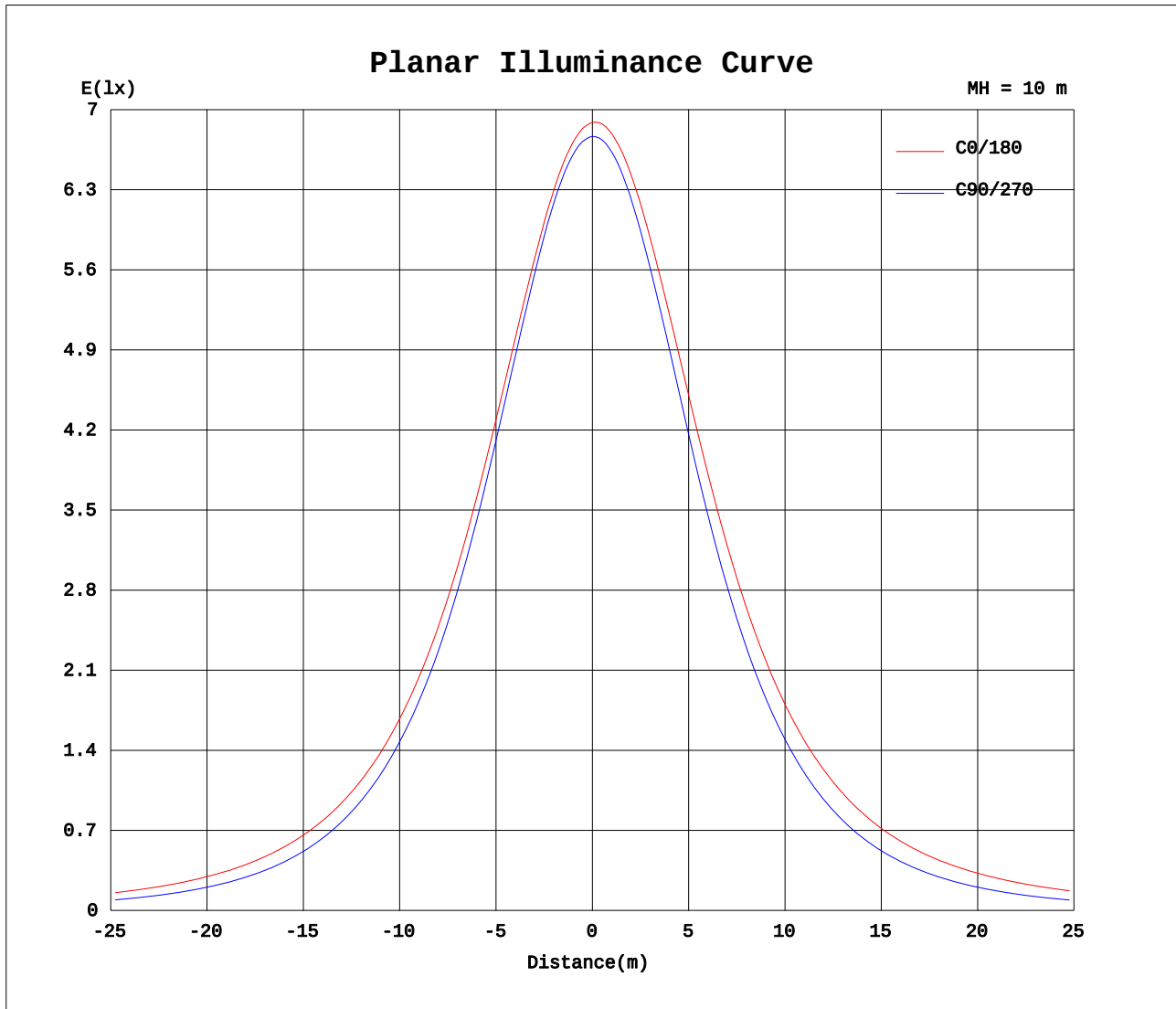
AvgL	cd/m2
L_0~180(65)av	7953
L_0~180(75)av	10156
L_0~180(85)av	22760
L_90~270(65)av	4990
L_90~270(75)av	3993
L_90~270(85)av	1849
L_45(65)av	6576
L_45(75)av	7682
L_45(85)av	15285

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:0.0834A P:17.95W PF:0.9762 Freq:49.99Hz Lamp Flux:2349.19x1 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	689	684	681	678	677	675	674	674	689	684	681	678	677	675	674	674			
5	683	678	675	673	672	673	673	674	690	685	681	677	674	672	670	668			
10	672	667	662	660	660	663	665	667	685	679	674	668	664	661	659	657			
15	655	650	644	641	641	645	650	655	674	668	661	653	647	643	642	641			
20	634	628	620	616	616	622	630	639	658	651	642	630	623	619	619	620			
25	608	601	591	585	585	593	605	616	637	629	616	601	592	589	591	594			
30	579	571	557	550	549	559	574	589	611	601	583	566	556	554	559	564			
35	546	537	521	510	508	520	538	557	580	568	548	528	515	515	523	531			
40	511	500	480	466	464	478	500	523	546	532	510	486	470	472	483	495			
45	474	462	438	420	417	433	459	485	510	495	469	440	423	426	442	457			
50	435	422	395	373	368	385	415	446	471	455	426	392	373	378	398	418			
55	396	382	351	324	317	337	371	406	432	414	382	342	320	329	355	379			
60	358	343	307	275	264	287	327	366	392	374	338	292	266	279	311	339			
65	320	304	265	226	211	238	284	327	353	334	294	243	210	229	268	301			
70	283	267	225	179	158	190	243	289	314	295	252	195	155	181	228	264			
75	248	232	187	135	106	145	205	252	277	258	213	150	101	137	190	229			
80	215	199	154	96.5	57.7	105	169	219	243	224	177	109	51.4	97.1	156	196			
85	185	169	124	64.8	18.6	71.7	139	188	211	192	145	75.6	13.7	64.6	125	167			
90	158	142	98.7	41.6	0.64	47.0	112	160	182	164	118	50.5	0.46	40.8	99.2	141			
95	134	118	77.4	26.3	0.51	30.3	89.3	135	156	139	94.4	33.2	0.53	25.4	77.6	117			
100	111	97.1	59.9	16.7	0.58	19.7	70.3	112	131	116	74.6	21.9	0.61	15.5	59.9	95.9			
105	91.4	78.7	44.4	10.7	0.69	13.4	54.9	92.3	110	95.1	58.3	14.9	0.73	10.0	43.2	77.6			
110	74.0	62.8	33.1	7.15	0.75	9.60	42.5	75.0	90.2	77.2	45.2	10.6	0.84	7.02	31.7	62.0			
115	58.9	49.0	23.3	5.17	0.90	7.29	32.7	60.0	73.2	62.0	34.9	7.96	0.98	5.13	23.6	47.7			
120	46.2	38.1	16.1	3.99	1.06	5.84	25.2	47.5	58.5	49.0	26.9	6.27	1.15	4.00	16.7	36.1			
125	35.7	28.5	11.6	3.37	1.23	4.90	19.4	37.1	46.1	38.4	20.6	5.21	1.29	3.46	12.2	24.6			
130	27.2	21.1	8.73	3.01	1.39	4.28	14.9	28.6	35.7	29.5	15.8	4.49	1.45	3.11	9.17	19.8			
135	20.5	14.1	6.67	2.72	1.55	3.88	11.5	21.7	27.1	22.4	12.1	3.99	1.62	2.89	7.05	14.1			
140	15.3	9.95	5.36	2.63	1.72	3.44	9.02	16.2	20.2	16.6	9.38	3.60	1.77	2.69	5.56	9.89			
145	11.4	7.25	4.40	2.72	1.93	3.20	7.14	12.0	14.7	12.3	7.37	3.24	1.91	2.63	4.52	7.40			
150	8.52	5.44	3.69	2.81	2.06	3.09	5.74	8.93	10.7	9.07	5.88	3.12	2.03	2.72	3.83	5.59			
155	6.47	4.34	3.46	2.90	2.18	3.04	4.65	6.65	7.74	6.74	4.76	3.06	2.15	2.81	3.40	4.34			
160	4.93	3.58	3.32	2.99	2.29	3.00	3.87	5.01	5.72	5.09	3.91	3.01	2.26	2.89	3.25	3.54			
165	4.01	3.14	3.20	3.07	2.38	2.98	3.44	3.89	4.11	3.96	3.50	2.99	2.37	2.98	3.15	3.12			
170	3.01	3.07	3.16	3.08	2.44	2.74	3.18	3.31	2.97	3.40	3.23	2.96	2.44	3.07	3.10	2.99			
175	2.83	3.08	3.13	3.09	2.45	2.46	2.48	3.01	2.80	3.10	2.65	2.50	2.49	3.08	3.09	2.99			
180	2.49	2.51	2.50	2.51	2.50	2.51	2.47	2.45	2.50	2.50	2.52	2.50	2.51	2.49	2.48	2.43			

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