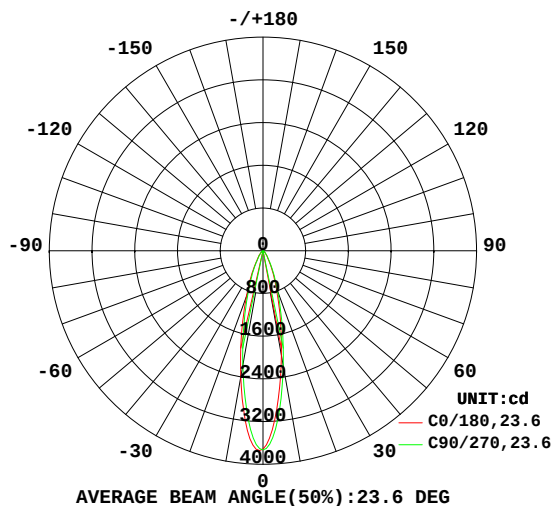


LUMINAIRE PHOTOMETRIC TEST REPORT

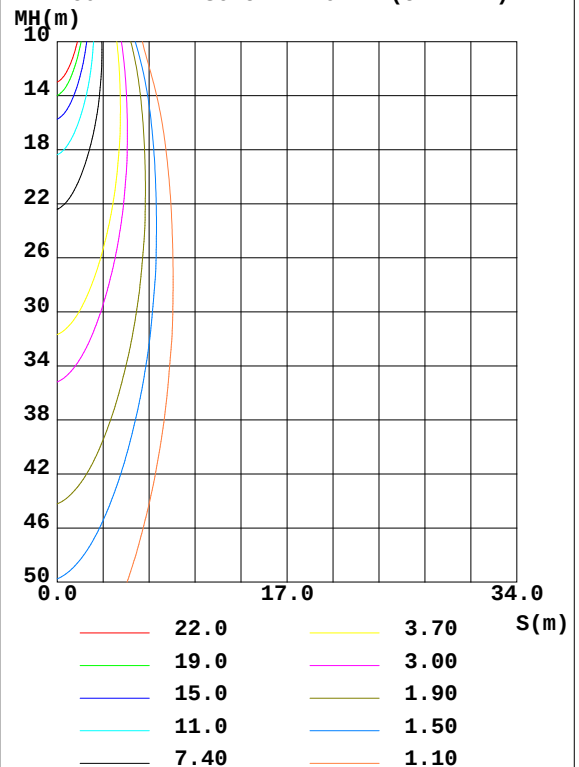
Test:U:231.09V I:0.0565A P:12.671W PF:0.9702 Freq:49.99Hz Lamp Flux:1093.38x1 lm		
NAME: TH3017-WHTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 86.29 lm/W			
MODEL	4000K	I _{max} (cd)	3745	S/MH(C0/180)	0.44
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	0.40
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	1093.4	η UP, DN(C0-180)	0.8, 48.9
NOMINAL FLUX(lm)	1093.38	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.8, 49.5
LAMPS INSIDE	1	η up(%)	1.6	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	98.4	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-05-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

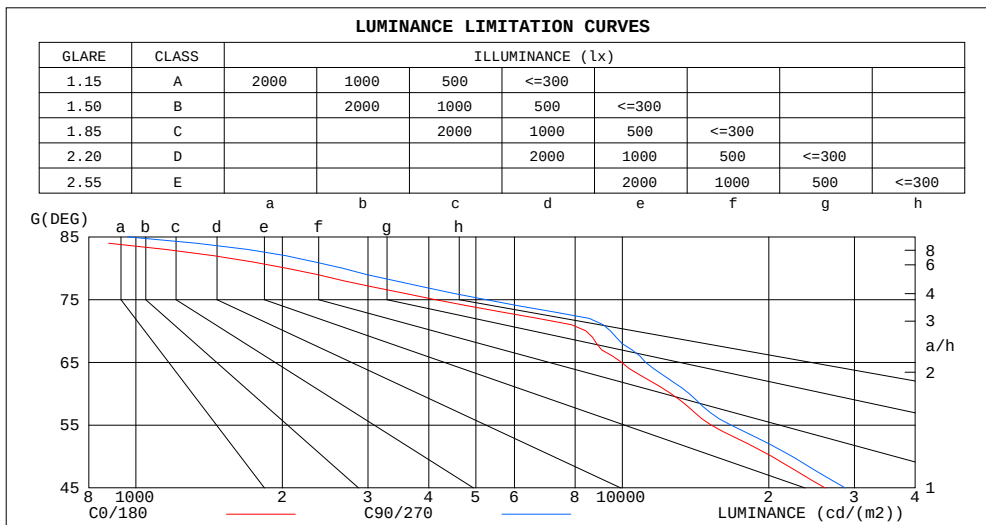
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1994	2063	2189	2320	2401	2310	2183	2080	0- 10	270.4	270.4	24.7, 24.7
20	718.8	742.2	800.3	867.4	907.6	860.4	799.6	750.5	10- 20	379.4	649.8	59.4, 59.4
30	231.0	244.5	265.6	282.7	293.6	276.3	258.2	240.9	20- 30	220.9	870.7	79.6, 79.6
40	92.26	97.68	106.1	111.1	113.2	106.9	101.8	95.34	30- 40	101.4	972.1	88.9, 88.9
50	43.31	45.24	47.68	48.86	49.47	48.02	46.30	44.59	40- 50	52.68	1025	93.7, 93.7
60	20.90	21.80	22.79	23.36	23.76	23.00	22.37	21.69	50- 60	29.11	1054	96.4, 96.4
70	9.558	10.18	10.73	11.24	11.87	11.15	10.65	10.10	60- 70	15.65	1070	97.8, 97.8
80	1.175	1.276	1.533	1.787	2.049	1.929	1.613	1.347	70- 80	5.657	1075	98.3, 98.3
90	0.0046	0.0001	0.0002	0.0047	0.0138	0.0138	0.0139	0.0230	80- 90	0.5132	1076	98.4, 98.4
100	0.0597	0.0552	0.0504	0.0457	0.1104	0.1150	0.1288	0.1335	90-100	0.0403	1076	98.4, 98.4
110	0.2569	0.2431	0.2294	0.2112	0.3172	0.3219	0.3403	0.3632	100-110	0.1854	1076	98.4, 98.4
120	0.6701	0.6378	0.6012	0.5691	0.7173	0.7356	0.7771	0.8138	110-120	0.4562	1076	98.4, 98.4
130	1.652	1.570	1.501	1.441	1.619	1.669	1.775	1.858	120-130	0.9776	1077	98.5, 98.5
140	3.910	3.772	3.616	3.437	3.761	3.876	4.070	4.276	130-140	1.988	1079	98.7, 98.7
150	7.984	7.740	7.575	7.212	7.664	7.861	8.206	8.486	140-150	3.521	1083	99, 99
160	13.15	12.77	12.94	12.32	12.90	13.09	13.78	13.60	150-160	4.754	1088	99.5, 99.5
170	15.88	15.77	16.16	16.24	16.29	16.44	16.37	15.99	160-170	4.200	1092	99.9, 99.9
180	16.63	17.10	16.66	17.09	16.64	17.11	16.66	17.05	170-180	1.559	1093	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-05-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:231.09V I:0.0565A P:12.671W PF:0.9702 Freq:49.99Hz Lamp Flux:1093.38x1 lm		
NAME: TH3017-WHTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	577	960
80	2038	2660
75	4118	5233
70	8418	9454
65	9965	11161
60	12590	13729
55	15233	16713
50	20296	22345
45	26121	28746

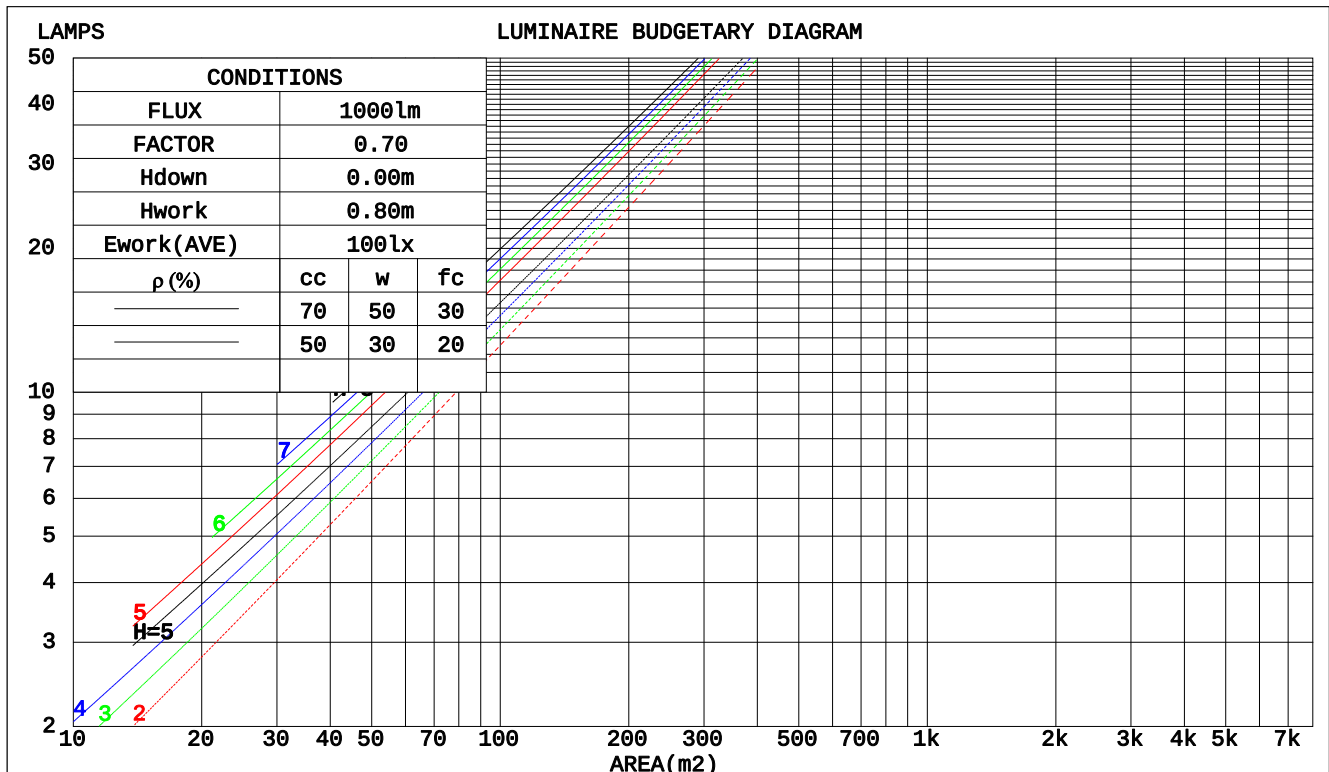
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-05-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.880m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:231.09V I:0.0565A P:12.671W PF:0.9702 Freq:49.99Hz Lamp Flux:1093.38x1 lm		
NAME: TH3017-WHTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	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	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.98
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.04	1.03	1.01	1.00	.99	.98	.97	.96	.95	.93
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.93	.92	.93	.91	.89	.88
3.0	.98	.94	.90	.97	.92	.89	.94	.90	.88	.91	.88	.86	.89	.86	.84	.83
4.0	.93	.88	.84	.92	.87	.83	.89	.85	.82	.87	.84	.81	.85	.82	.80	.79
5.0	.88	.83	.79	.87	.82	.79	.85	.81	.78	.83	.80	.77	.82	.79	.76	.75
6.0	.84	.79	.75	.83	.78	.75	.81	.77	.74	.80	.76	.73	.79	.75	.73	.71
7.0	.80	.75	.71	.79	.74	.71	.78	.74	.71	.77	.73	.70	.76	.72	.70	.68
8.0	.77	.72	.68	.76	.71	.68	.75	.71	.67	.74	.70	.67	.73	.69	.67	.66
9.0	.74	.69	.65	.73	.68	.65	.72	.68	.65	.71	.67	.64	.70	.67	.64	.63
10.0	.71	.66	.63	.70	.66	.62	.70	.65	.62	.69	.65	.62	.68	.64	.62	.61



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-05-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.880m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:231.09V I:0.0565A P:12.671W PF:0.9702 Freq:49.99Hz Lamp Flux:1093.38x1 lm					
NAME: TH3017-WHTC12C02			TYPE:		WEIGHT:
SPEC.: white RA90 3000K+5000K			DIM.:		SERIAL No.:
MFR.:			SUR.: 65mm		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	.166	.094	.030	.159	.091	.029	.145	.083	.027	.133	.077	.025	.122	.071	.023	
2.0	.157	.086	.026	.151	.083	.026	.140	.078	.024	.129	.072	.023	.120	.068	.021	
3.0	.148	.079	.024	.143	.076	.023	.133	.072	.022	.124	.068	.021	.116	.064	.020	
4.0	.139	.072	.021	.135	.070	.021	.126	.067	.020	.119	.064	.019	.111	.061	.018	
5.0	.131	.067	.019	.127	.065	.019	.120	.063	.018	.113	.060	.018	.107	.057	.017	
6.0	.124	.062	.018	.121	.061	.018	.114	.059	.017	.109	.056	.017	.103	.054	.016	
7.0	.118	.058	.017	.115	.057	.016	.109	.055	.016	.104	.053	.016	.099	.051	.015	
8.0	.112	.055	.015	.109	.054	.015	.104	.052	.015	.100	.051	.015	.095	.049	.014	
9.0	.107	.052	.014	.104	.051	.014	.100	.049	.014	.096	.048	.014	.092	.047	.013	
10.0	.102	.049	.014	.100	.048	.013	.096	.047	.013	.092	.046	.013	.088	.044	.013	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.203	.203	.203	.173	.173	.173	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.183	.170	.158	.156	.146	.136	.107	.100	.094	.062	.058	.055	.020	.019	.018	
2.0	.167	.145	.127	.143	.125	.110	.098	.086	.076	.056	.050	.045	.018	.016	.015	
3.0	.154	.126	.104	.132	.109	.090	.090	.076	.063	.052	.044	.037	.017	.014	.012	
4.0	.142	.111	.087	.122	.096	.076	.084	.067	.053	.049	.039	.032	.016	.013	.010	
5.0	.133	.099	.075	.114	.086	.065	.079	.060	.046	.046	.035	.027	.015	.012	.009	
6.0	.125	.090	.065	.107	.078	.056	.074	.054	.040	.043	.032	.024	.014	.010	.008	
7.0	.118	.082	.057	.101	.071	.050	.070	.050	.035	.041	.029	.021	.013	.010	.007	
8.0	.111	.075	.051	.096	.065	.044	.066	.046	.031	.039	.027	.019	.012	.009	.006	
9.0	.106	.070	.046	.091	.061	.040	.063	.043	.028	.037	.025	.017	.012	.008	.006	
10.0	.101	.066	.042	.087	.057	.037	.060	.040	.026	.035	.024	.016	.011	.008	.005	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-05-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:231.09V I:0.0565A P:12.671W PF:0.9702 Freq:49.99Hz Lamp Flux:1093.38x1 lm										
NAME: TH3017-WHTC12C02					TYPE:			WEIGHT:		
SPEC.: white RA90 3000K+5000K					DIM.:			SERIAL No.:		
MFR.:					SUR.: 65mm			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	18.1	17.6	18.3	18.5	17.7	18.5	18.0	18.7	18.9	
	3H	17.7	18.4	17.9	18.7	18.9	18.1	18.9	18.4	19.1	19.3
	4H	17.7	18.4	18.0	18.6	18.9	18.2	18.9	18.5	19.1	19.4
	6H	17.6	18.3	17.9	18.6	18.8	18.1	18.8	18.4	19.0	19.3
	8H	17.6	18.2	17.9	18.5	18.8	18.1	18.7	18.4	19.0	19.3
	12H	17.5	18.2	17.9	18.5	18.8	18.0	18.6	18.4	18.9	19.2
4H	2H	17.5	18.2	17.8	18.4	18.7	17.8	18.5	18.1	18.8	19.0
	3H	17.9	18.5	18.3	18.8	19.1	18.3	18.9	18.7	19.2	19.5
	4H	17.9	18.5	18.3	18.8	19.2	18.4	19.0	18.7	19.3	19.6
	6H	17.9	18.4	18.3	18.7	19.1	18.3	18.8	18.7	19.2	19.6
	8H	17.8	18.3	18.2	18.7	19.1	18.3	18.8	18.7	19.1	19.5
	12H	17.8	18.2	18.2	18.6	19.0	18.2	18.7	18.7	19.1	19.5
8H	4H	17.9	18.3	18.3	18.7	19.1	18.3	18.8	18.7	19.1	19.5
	6H	17.8	18.2	18.3	18.6	19.1	18.2	18.6	18.7	19.1	19.5
	8H	17.8	18.1	18.2	18.5	19.0	18.2	18.5	18.7	19.0	19.5
	12H	17.7	18.0	18.2	18.5	19.0	18.2	18.4	18.6	18.9	19.4
12H	4H	17.8	18.2	18.2	18.6	19.1	18.2	18.7	18.7	19.1	19.5
	6H	17.8	18.1	18.2	18.5	19.0	18.2	18.5	18.7	19.0	19.5
	8H	17.7	18.0	18.2	18.5	19.0	18.2	18.4	18.6	18.9	19.4
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 1.3 / - 1.8					+ 1.3 / - 1.8					
1.5H	+ 1.8 / - 1.2					+ 2.0 / - 1.3					
2.0H	+ 2.1 / - 1.7					+ 2.1 / - 1.8					

CIE Pub.117, 1093 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.3)
Area: 0.00332 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-05-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:231.09V I:0.0565A P:12.671W PF:0.9702 Freq:49.99Hz Lamp Flux:1093.38x1 lm		
NAME: TH3017-WHTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

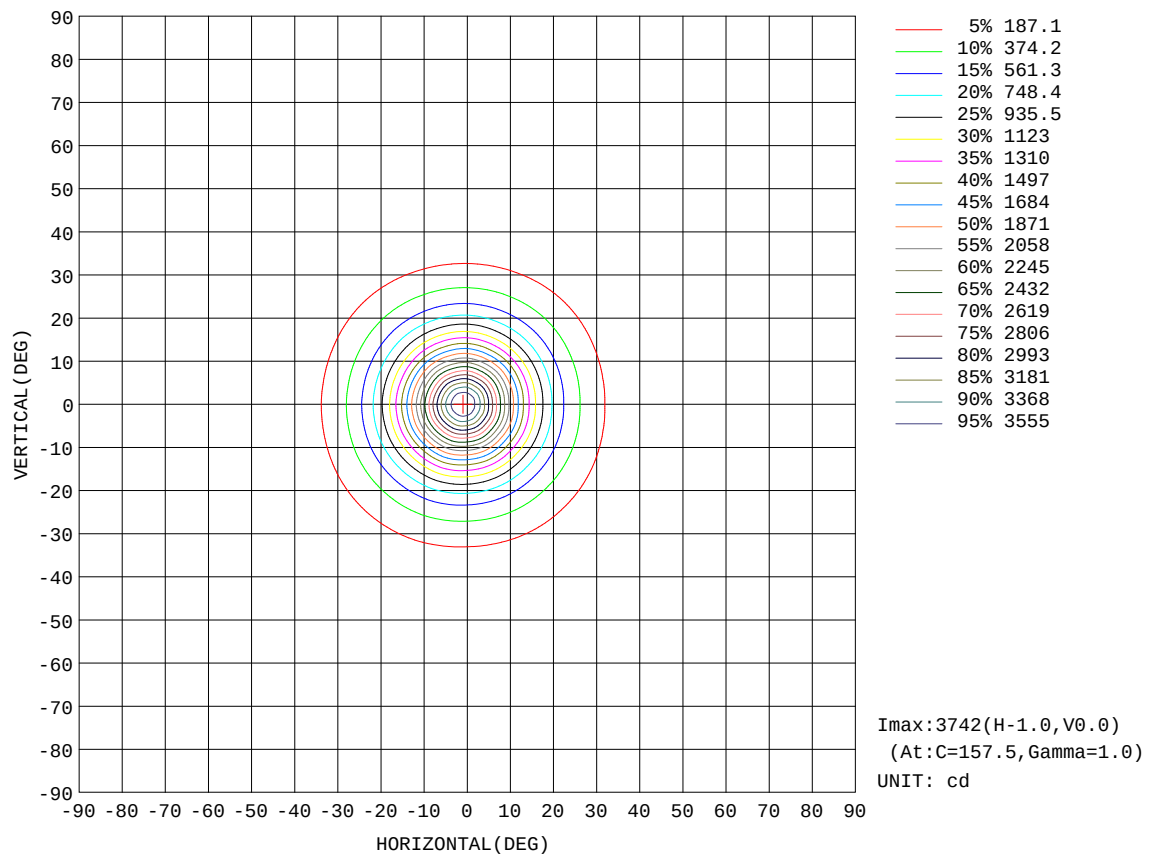
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	78	74	84	78	74	83	77	74	70
0.80	92	86	82	91	86	82	90	85	81	77
1.00	97	91	87	96	91	87	94	90	86	82
1.25	101	96	92	100	95	92	98	94	91	86
1.50	104	99	95	103	98	95	100	97	94	89
2.00	107	103	99	106	102	98	103	99	97	91
2.50	109	105	102	107	104	101	104	101	99	92
3.00	111	107	104	109	105	103	105	103	101	94
4.00	113	110	108	111	108	106	107	105	103	95
5.00	114	112	110	112	110	108	108	106	105	96
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:25DEG
Operators:
Test Date:2025-05-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:231.09V I:0.0565A P:12.671W PF:0.9702 Freq:49.99Hz Lamp Flux:1093.38x1 lm		
NAME: TH3017-WHTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

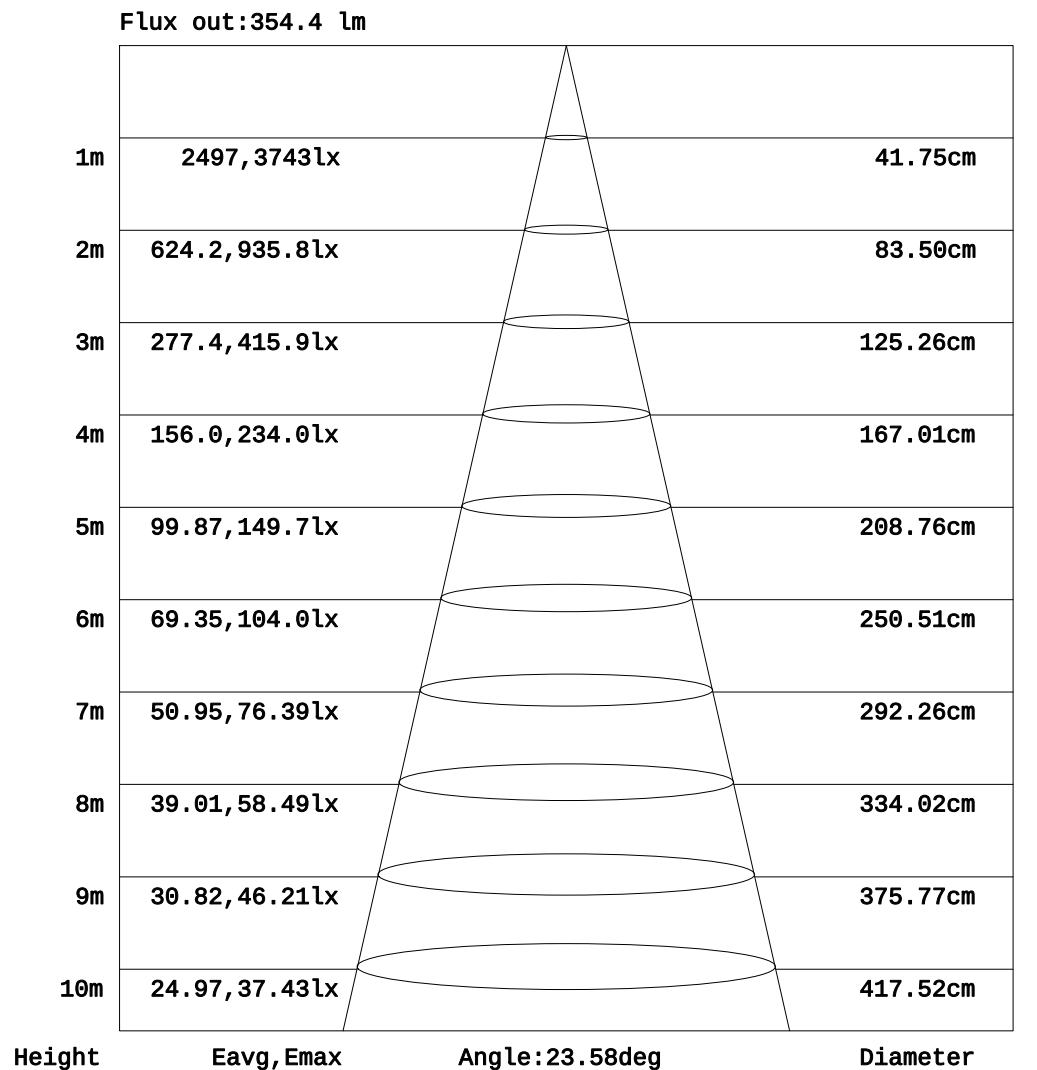


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-05-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

AAI Figure

Test:U:231.09V I:0.0565A P:12.671W PF:0.9702 Freq:49.99Hz Lamp Flux:1093.38x1 lm		
NAME: TH3017-WHTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:



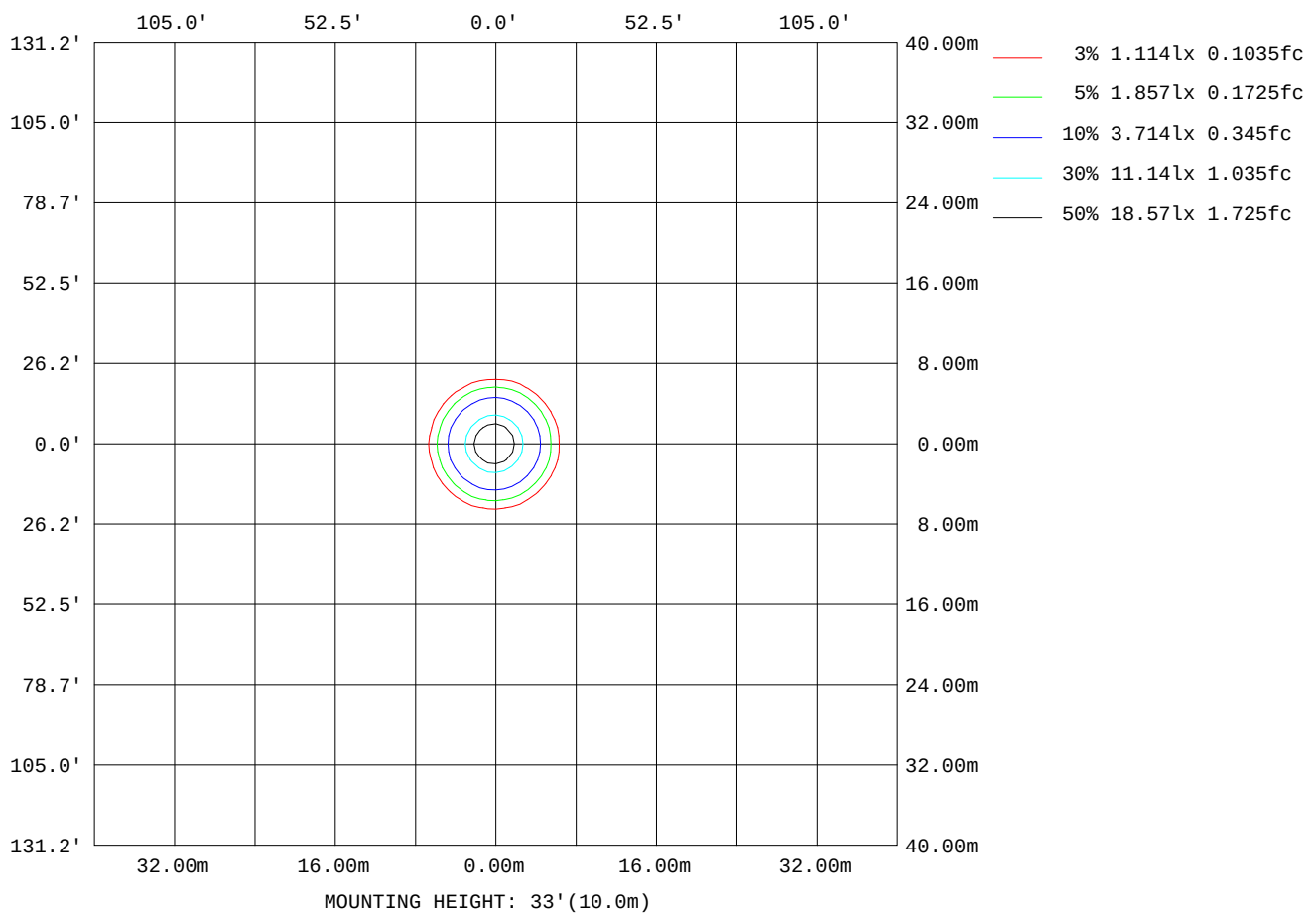
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-05-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:231.09V I:0.0565A P:12.671W PF:0.9702 Freq:49.99Hz Lamp Flux:1093.38x1 lm		
NAME: TH3017-WHTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-05-29

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.880m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:231.09V I:0.0565A P:12.671W PF:0.9702 Freq:49.99Hz Lamp Flux:1093.38x1 lm		
NAME: TH3017-WHTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

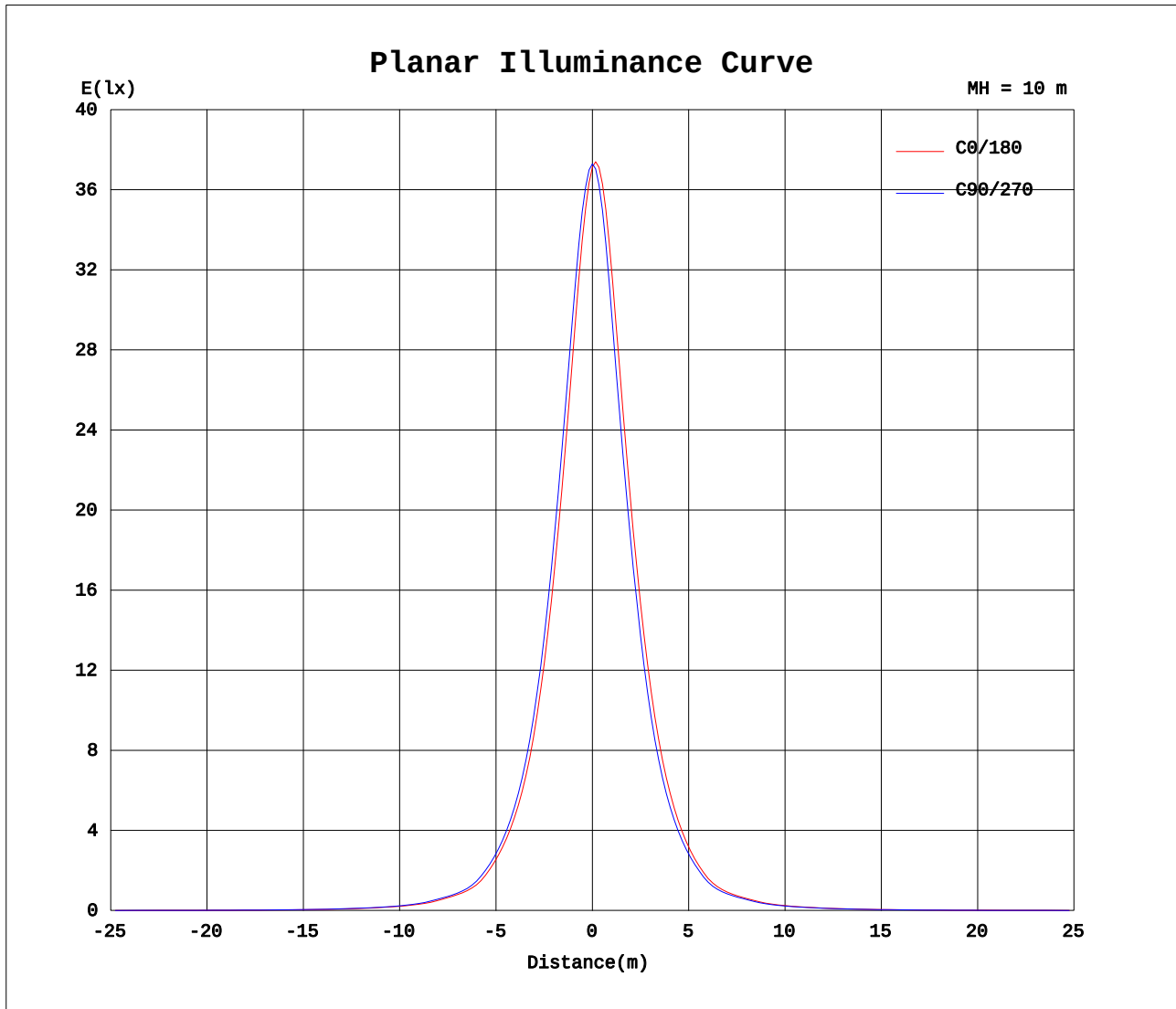
AvgL	cd/m2
L_0~180(65)av	10946
L_0~180(75)av	5620
L_0~180(85)av	1047
L_90~270(65)av	10960
L_90~270(75)av	5373
L_90~270(85)av	945
L_45(65)av	11011
L_45(75)av	5485
L_45(85)av	989

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2025-05-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity:65.0%
 Test Distance:7.880m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-05-29

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.880m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:231.09V I:0.0565A P:12.671W PF:0.9702 Freq:49.99Hz Lamp Flux:1093.38x1 lm																	
NAME: TH3017-WHTC12C02									TYPE:						WEIGHT:		
SPEC.: white RA90 3000K+5000K									DIM.:						SERIAL No.:		
MFR.:									SUR.: 65mm						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	3714	3723	3723	3728	3730	3731	3731	3725	3714	3723	3723	3728	3730	3731	3731	3725			
5	2978	3021	3047	3127	3173	3254	3298	3352	3374	3337	3302	3223	3172	3090	3056	3011			
10	1994	2037	2063	2143	2189	2281	2320	2381	2401	2345	2310	2226	2183	2107	2080	2028			
15	1227	1246	1267	1318	1355	1430	1461	1515	1533	1490	1460	1394	1365	1311	1278	1249			
20	719	732	742	773	800	844	867	898	908	884	860	825	800	768	751	731			
25	425	432	438	456	471	496	507	525	529	513	500	480	469	453	444	432			
30	231	239	244	257	266	281	283	293	294	281	276	264	258	247	241	234			
35	145	148	149	154	159	165	166	168	169	163	159	153	152	149	147	145			
40	92.3	95.2	97.7	102	106	110	111	113	113	110	107	103	102	98.0	95.3	92.6			
45	61.3	62.7	64.2	66.2	67.5	69.0	69.7	70.4	70.4	69.3	67.7	66.0	65.3	63.8	62.7	61.7			
50	43.3	44.1	45.2	46.8	47.7	48.5	48.9	49.3	49.5	48.6	48.0	46.9	46.3	45.3	44.6	43.6			
55	29.0	29.5	30.2	31.2	31.8	32.6	32.9	33.5	33.9	33.4	32.7	32.0	31.5	30.8	30.0	29.3			
60	20.9	21.3	21.8	22.5	22.8	23.2	23.4	23.7	23.8	23.5	23.0	22.5	22.4	22.1	21.7	21.2			
65	14.0	14.5	14.9	15.4	15.7	15.9	16.3	16.6	16.7	16.3	15.8	15.2	15.1	14.9	14.8	14.5			
70	9.56	9.78	10.2	10.6	10.7	11.1	11.2	11.7	11.9	11.6	11.2	10.8	10.7	10.5	10.1	9.71			
75	3.54	3.64	3.77	4.17	4.50	4.92	5.31	5.77	6.12	6.00	5.71	5.18	4.74	4.33	4.06	3.77			
80	1.17	1.18	1.28	1.39	1.53	1.66	1.79	1.93	2.05	2.02	1.93	1.77	1.61	1.47	1.35	1.27			
85	0.17	0.13	0.19	0.19	0.28	0.31	0.38	0.39	0.44	0.44	0.38	0.36	0.27	0.25	0.19	0.19			
90	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.01	0.01	0.02	0.02			
95	0.00	0.05	0.00	0.04	0.00	0.03	0.00	0.03	0.06	0.01	0.05	0.01	0.06	0.01	0.06	0.02			
100	0.06	0.10	0.06	0.09	0.05	0.09	0.05	0.08	0.11	0.06	0.12	0.07	0.13	0.09	0.13	0.10			
105	0.14	0.19	0.13	0.18	0.12	0.16	0.12	0.16	0.20	0.15	0.20	0.17	0.22	0.19	0.23	0.19			
110	0.26	0.29	0.24	0.28	0.23	0.27	0.21	0.26	0.32	0.27	0.32	0.29	0.34	0.31	0.36	0.32			
115	0.42	0.46	0.40	0.43	0.38	0.41	0.35	0.40	0.48	0.43	0.49	0.47	0.52	0.49	0.55	0.50			
120	0.67	0.69	0.64	0.66	0.60	0.63	0.57	0.61	0.72	0.68	0.74	0.72	0.78	0.75	0.81	0.78			
125	1.06	1.07	1.01	1.02	0.95	0.97	0.91	0.94	1.08	1.05	1.11	1.10	1.18	1.16	1.23	1.22			
130	1.65	1.64	1.57	1.56	1.50	1.50	1.44	1.45	1.62	1.60	1.67	1.68	1.78	1.79	1.86	1.85			
135	2.57	2.53	2.46	2.42	2.35	2.30	2.24	2.22	2.48	2.49	2.56	2.61	2.71	2.77	2.85	2.86			
140	3.91	3.83	3.77	3.69	3.62	3.52	3.44	3.40	3.76	3.79	3.88	3.96	4.07	4.19	4.28	4.31			
145	5.72	5.59	5.54	5.43	5.38	5.20	5.11	5.02	5.48	5.56	5.65	5.79	5.93	6.07	6.17	6.20			
150	7.98	7.80	7.74	7.63	7.57	7.34	7.21	7.11	7.66	7.74	7.86	8.08	8.21	8.41	8.49	8.53			
155	10.6	10.4	10.3	10.2	10.2	9.91	9.69	9.62	10.2	10.3	10.4	10.8	11.0	11.1	11.1	11.1			
160	13.1	12.9	12.8	12.9	12.9	12.6	12.3	12.3	12.9	12.9	13.1	13.5	13.8	13.8	13.6	13.5			
165	15.1	14.8	14.8	15.0	15.1	14.9	14.7	14.8	15.1	15.2	15.3	15.7	16.0	15.8	15.3	15.3			
170	15.9	15.8	15.8	16.1	16.2	16.2	16.2	16.5	16.3	16.5	16.4	16.4	16.4	16.3	16.0	16.0			
175	16.1	16.1	16.3	16.2	16.1	16.3	16.8	16.9	16.5	16.9	16.9	16.4	16.0	16.1	16.3	16.1			
180	16.6	16.7	17.1	16.7	16.7	16.5	17.1	16.8	16.6	16.7	17.1	16.7	16.7	16.5	17.1	16.7			

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