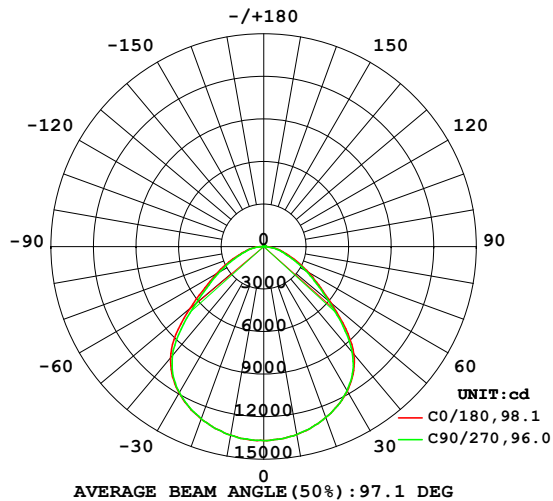


LUMINAIRE PHOTOMETRIC TEST REPORT

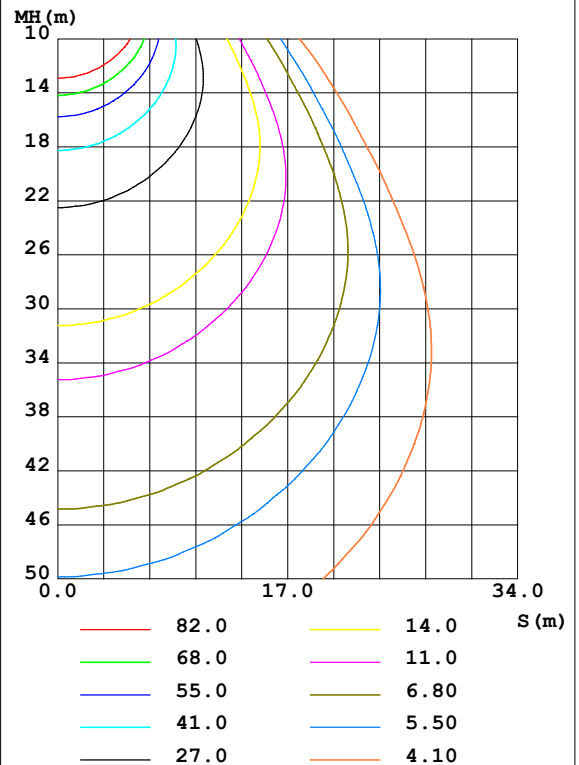
Test:U:120.40V I:1.8595A P:223.36W PF:0.9960 Freq:60.23Hz Lamp Flux:33563.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:Havells Lighting LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.26 lm/W			
MODEL	HL-LHB-MW-MCCT-220W-GEN2	I _{max} (cd)	13698	S/MH (C0/180)	1.29
NOMINAL POWER (W)	220	LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	33563	η UP,DN (C0-180)	0.6,48.8
NOMINAL FLUX (lm)	33563.2	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.5,50.1
LAMPS INSIDE	1	η up (%)	1.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	98.9	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:
Test Date:2026-01-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.450m [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	1346	1347	1346	1342	1350	1352	1351	1348	0- 10	1296	1296	3.86, 3.86
20	1280	1284	1281	1284	1293	1296	1292	1293	10- 20	3735	5031	15, 15
30	1178	1177	1174	1175	1192	1191	1189	1189	20- 30	5725	10756	32, 32
40	988.9	969.7	969.7	975.0	1025	1006	1002	995.3	30- 40	6877	17633	52.5, 52.5
50	622.8	675.6	598.3	669.5	678.3	704.2	623.4	694.4	40- 50	6369	24002	71.5, 71.5
60	366.7	384.9	344.0	381.1	385.9	410.9	360.5	405.0	50- 60	4534	28535	85, 85
70	189.9	191.3	172.1	192.7	199.8	204.6	181.9	204.3	60- 70	2753	31289	93.2, 93.2
80	88.94	90.29	77.05	91.06	96.37	99.13	88.23	99.95	70- 80	1468	32757	97.6, 97.6
90	1.450	1.459	1.392	1.451	3.443	1.955	1.646	1.560	80- 90	434.8	33191	98.9, 98.9
100	2.525	2.503	2.336	2.454	2.305	2.309	2.178	2.312	90-100	19.99	33211	99, 99
110	4.086	4.020	3.884	3.940	3.779	3.725	3.646	3.749	100-110	32.50	33244	99, 99
120	5.902	5.751	5.693	5.665	5.513	5.400	5.411	5.459	110-120	46.76	33291	99.2, 99.2
130	7.573	7.407	7.371	7.289	7.209	7.050	7.109	7.125	120-130	57.65	33348	99.4, 99.4
140	9.027	8.889	8.821	8.725	8.657	8.486	8.517	8.606	130-140	61.77	33410	99.5, 99.5
150	10.18	10.16	10.10	9.970	9.849	9.748	9.812	9.880	140-150	58.53	33469	99.7, 99.7
160	11.43	11.36	11.25	11.28	11.09	11.07	11.01	11.10	150-160	48.72	33517	99.9, 99.9
170	12.83	12.59	12.67	12.66	12.55	12.51	12.43	12.37	160-170	33.52	33551	100, 100
180	13.31	13.20	13.28	13.17	13.31	13.20	13.27	13.15	170-180	12.29	33563	100, 100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

Conical surface Flux(90deg): 21007 lm

%lum = 62.6%

%lamp = 62.6%

Conical surface Flux(130deg): 30114 lm

%lum = 89.7%

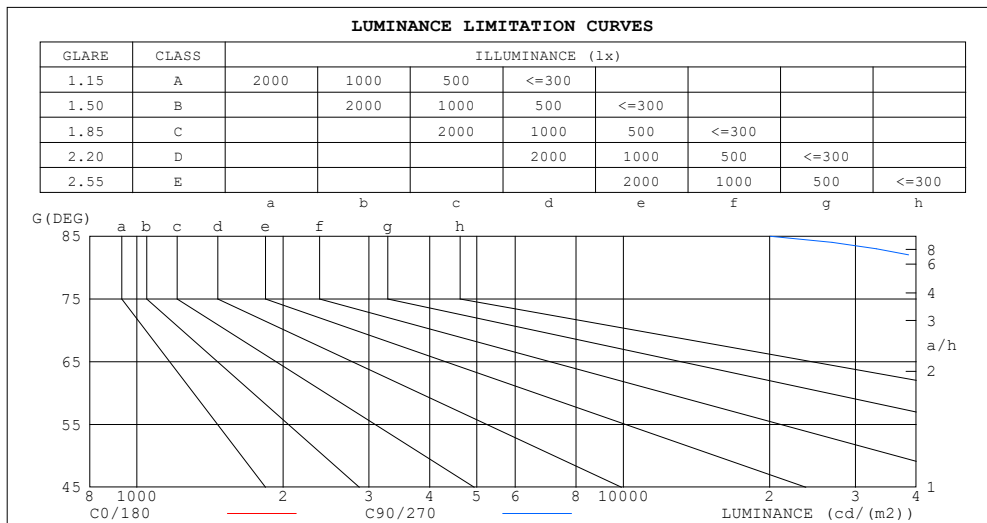
%lamp = 89.7%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.450m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.40V I:1.8595A P:223.36W PF:0.9960 Freq:60.23Hz Lamp Flux:33563.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	43740	20048
80	51188	44360
75	52083	48138
70	55498	50296
65	63991	58392
60	73291	68783
55	82684	79568
50	96835	93058
45	115424	111441

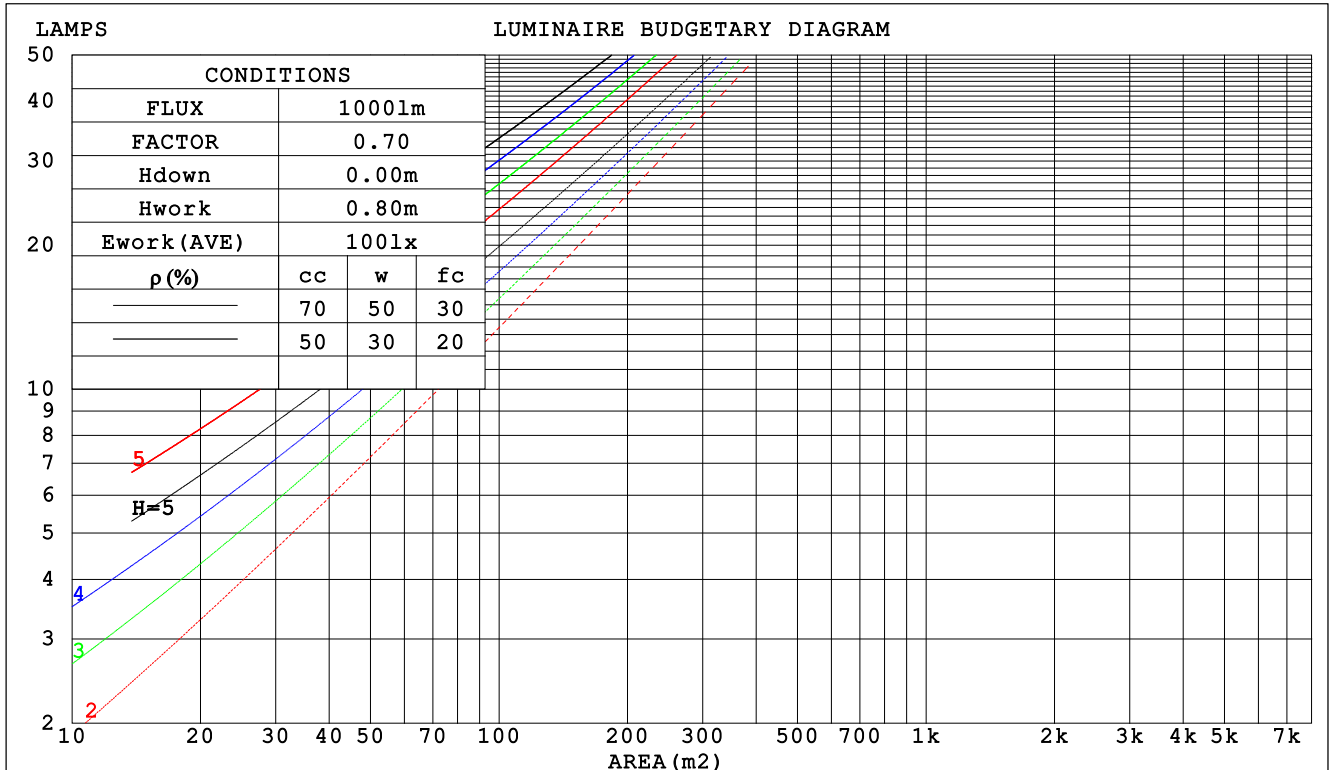
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.40V I:1.8595A P:223.36W PF:0.9960 Freq:60.23Hz Lamp Flux:33563.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.05	1.02	.98	1.03	.90	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.93	.87	.82	.91	.86	.81	.88	.83	.79	.84	.80	.77	.81	.78	.75	.73
3.0	.83	.75	.69	.81	.74	.69	.78	.72	.67	.75	.70	.66	.73	.68	.65	.63
4.0	.74	.66	.60	.73	.65	.59	.70	.64	.58	.68	.62	.57	.65	.61	.57	.54
5.0	.67	.58	.52	.66	.58	.52	.63	.56	.51	.61	.55	.50	.59	.54	.50	.48
6.0	.60	.52	.46	.59	.51	.46	.58	.50	.45	.56	.49	.45	.54	.49	.44	.42
7.0	.55	.47	.41	.54	.46	.41	.53	.45	.40	.51	.45	.40	.50	.44	.40	.38
8.0	.50	.42	.37	.50	.42	.36	.48	.41	.36	.47	.41	.36	.46	.40	.36	.34
9.0	.46	.38	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.42	.37	.32	.31
10.0	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.39	.34	.29	.28



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.40V I:1.8595A P:223.36W PF:0.9960 Freq:60.23Hz Lamp Flux:33563.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.276	.157	.050	.269	.153	.049	.255	.146	.047	.242	.140	.045	.231	.134	.043		
2.0	.263	.144	.044	.256	.141	.044	.244	.136	.042	.233	.131	.041	.223	.126	.040		
3.0	.246	.131	.039	.240	.129	.039	.230	.125	.038	.220	.121	.037	.211	.117	.036		
4.0	.230	.119	.035	.225	.118	.035	.215	.114	.034	.206	.111	.033	.198	.108	.033		
5.0	.214	.109	.032	.210	.108	.031	.201	.105	.031	.194	.102	.030	.186	.100	.030		
6.0	.200	.100	.029	.196	.099	.029	.189	.097	.028	.182	.094	.028	.175	.092	.027		
7.0	.188	.093	.026	.184	.092	.026	.177	.090	.026	.171	.088	.026	.165	.086	.025		
8.0	.176	.086	.024	.173	.085	.024	.167	.083	.024	.161	.082	.024	.156	.080	.023		
9.0	.166	.080	.022	.163	.080	.022	.158	.078	.022	.153	.077	.022	.148	.075	.022		
10.0	.157	.075	.021	.154	.074	.021	.149	.073	.021	.145	.072	.020	.140	.071	.020		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.186	.165	.146	.160	.142	.125	.109	.097	.087	.063	.056	.050	.020	.018	.016	
2.0	.177	.141	.110	.152	.121	.095	.104	.084	.066	.060	.049	.039	.019	.016	.013	
3.0	.168	.123	.086	.144	.106	.075	.099	.074	.052	.057	.043	.031	.018	.014	.010	
4.0	.161	.109	.070	.138	.094	.061	.095	.066	.043	.055	.039	.025	.018	.013	.008	
5.0	.153	.099	.058	.132	.085	.051	.091	.060	.036	.053	.035	.021	.017	.011	.007	
6.0	.146	.090	.050	.126	.078	.043	.087	.055	.031	.050	.032	.018	.016	.011	.006	
7.0	.140	.083	.043	.120	.072	.038	.083	.051	.027	.048	.030	.016	.016	.010	.005	
8.0	.134	.077	.039	.115	.067	.034	.080	.047	.024	.046	.028	.014	.015	.009	.005	
9.0	.128	.072	.035	.110	.063	.030	.076	.044	.022	.045	.026	.013	.014	.009	.004	
10.0	.123	.068	.032	.106	.059	.028	.073	.042	.020	.043	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.450m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.40V I:1.8595A P:223.36W PF:0.9960 Freq:60.23Hz Lamp Flux:33563.2x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.:				
MFR.:			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	27.9	29.3	28.2	29.5	29.7	27.7	29.1	28.0	29.4	29.6
3H	28.7	30.0	29.0	30.3	30.5	28.5	29.8	28.8	30.0	30.3
4H	29.1	30.3	29.4	30.6	30.8	28.8	30.0	29.1	30.3	30.6
6H	29.4	30.5	29.7	30.8	31.1	29.1	30.2	29.4	30.5	30.8
8H	29.5	30.6	29.9	30.9	31.2	29.1	30.2	29.5	30.5	30.9
12H	29.6	30.6	29.9	30.9	31.3	29.1	30.2	29.5	30.5	30.8
4H 2H	28.2	29.5	28.6	29.7	30.0	28.1	29.3	28.4	29.6	29.9
3H	29.3	30.3	29.6	30.6	30.9	29.0	30.1	29.4	30.4	30.7
4H	29.7	30.7	30.1	31.0	31.4	29.5	30.5	29.9	30.8	31.1
6H	30.2	31.1	30.6	31.4	31.8	29.9	30.8	30.3	31.1	31.5
8H	30.4	31.2	30.8	31.6	32.0	30.0	30.8	30.4	31.2	31.6
12H	30.5	31.2	30.9	31.6	32.1	30.0	30.8	30.5	31.2	31.6
8H 4H	29.9	30.7	30.3	31.1	31.5	29.7	30.5	30.1	30.9	31.3
6H	30.5	31.2	31.0	31.6	32.1	30.2	30.9	30.7	31.3	31.8
8H	30.8	31.4	31.3	31.8	32.3	30.4	31.0	30.9	31.4	31.9
12H	31.0	31.5	31.5	32.0	32.5	30.5	31.0	31.0	31.4	31.9
12H 4H	29.9	30.6	30.3	31.0	31.5	29.7	30.4	30.1	30.8	31.2
6H	30.6	31.2	31.0	31.6	32.1	30.3	30.9	30.8	31.3	31.8
8H	30.9	31.4	31.4	31.8	32.3	30.5	31.0	31.0	31.5	32.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.5				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.6 / - 0.6					+ 0.6 / - 0.7				

CIE Pub.117, 33563 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 12.2$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.40V I:1.8595A P:223.36W PF:0.9960 Freq:60.23Hz Lamp Flux:33563.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

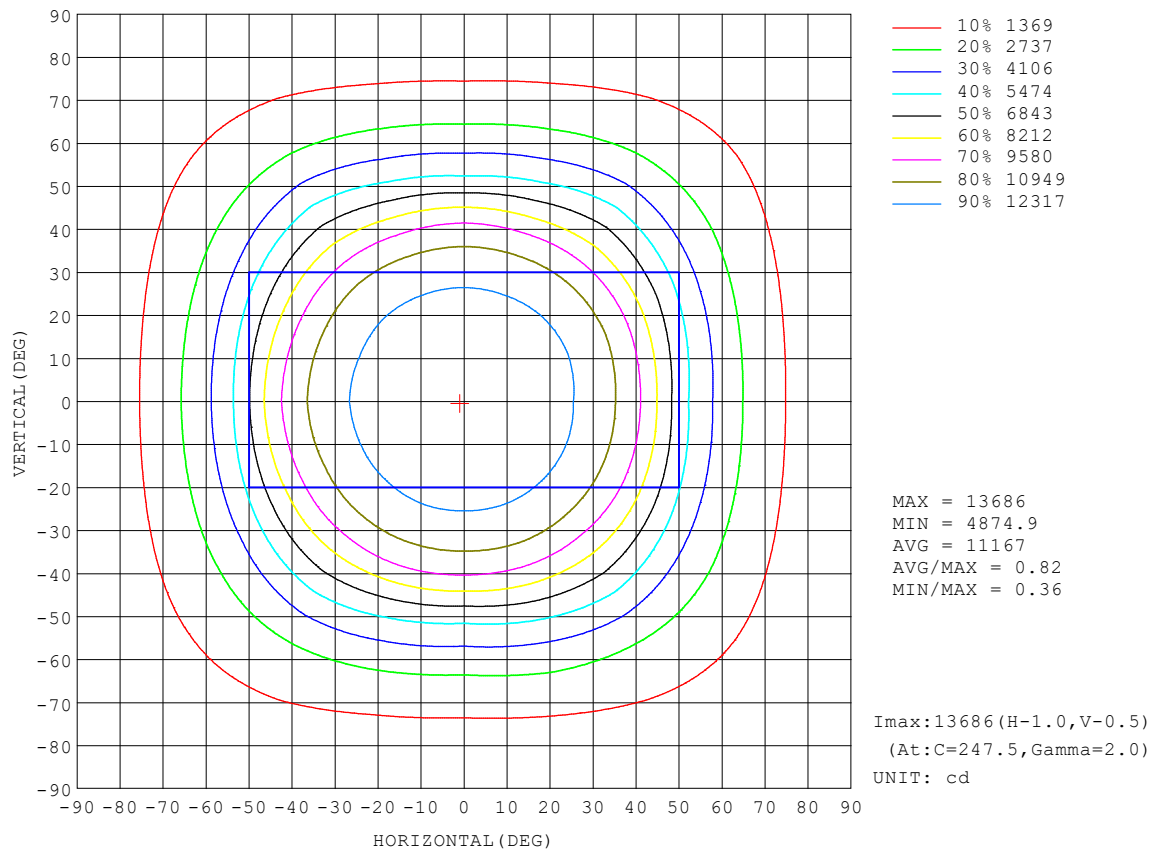
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	62	51	45	61	51	45	60	50	44	38
0.80	72	61	55	71	61	55	69	60	54	48
1.00	80	70	64	79	70	63	77	71	63	56
1.25	87	78	71	86	77	71	83	75	70	63
1.50	92	83	77	90	82	76	87	80	75	68
2.00	98	90	85	96	89	84	93	87	82	75
2.50	101	94	89	99	93	88	95	90	86	78
3.00	104	98	93	102	96	92	98	93	90	81
4.00	108	103	98	105	101	97	101	97	94	85
5.00	110	105	102	107	103	100	103	100	97	88
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:
 Test Date: 2026-01-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.40V I:1.8595A P:223.36W PF:0.9960 Freq:60.23Hz Lamp Flux:33563.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

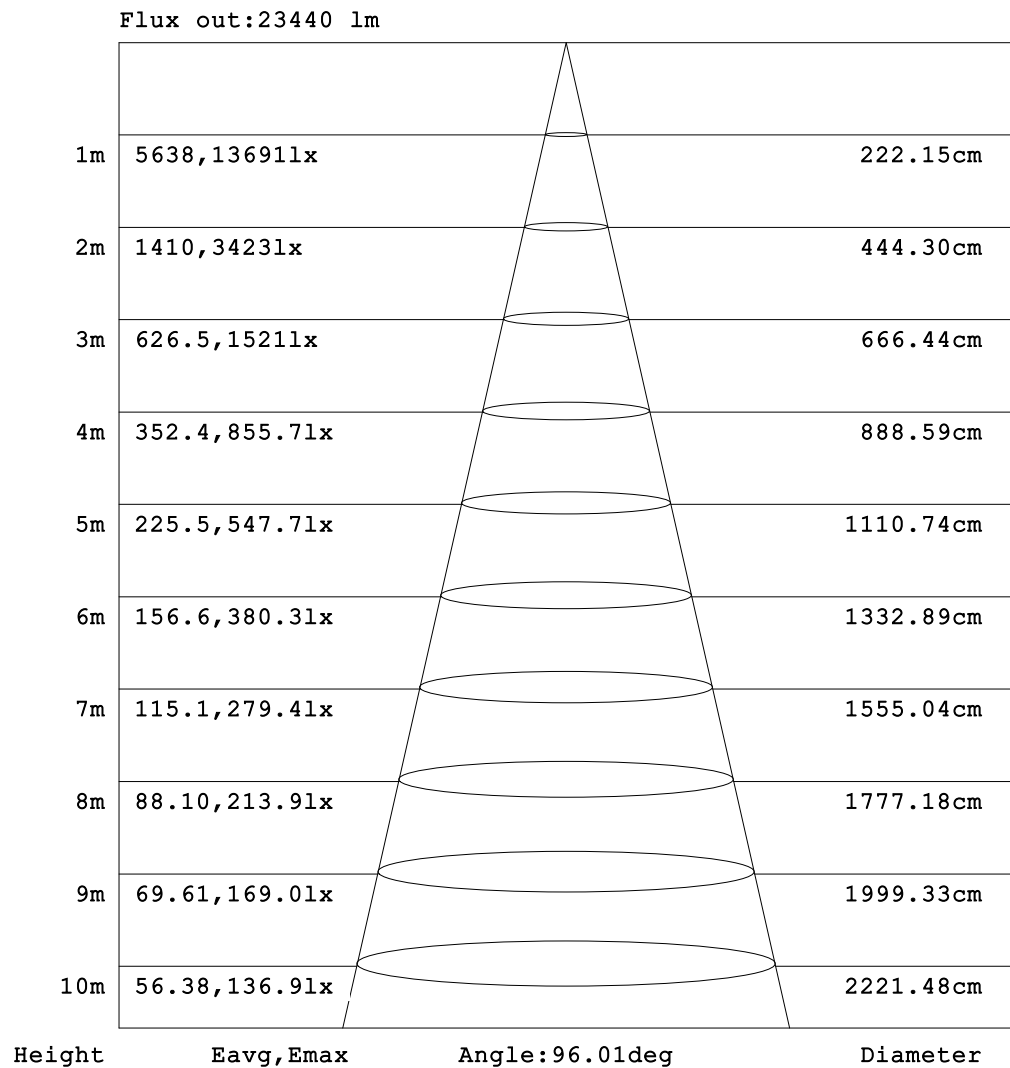


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.40V I:1.8595A P:223.36W PF:0.9960 Freq:60.23Hz Lamp Flux:33563.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



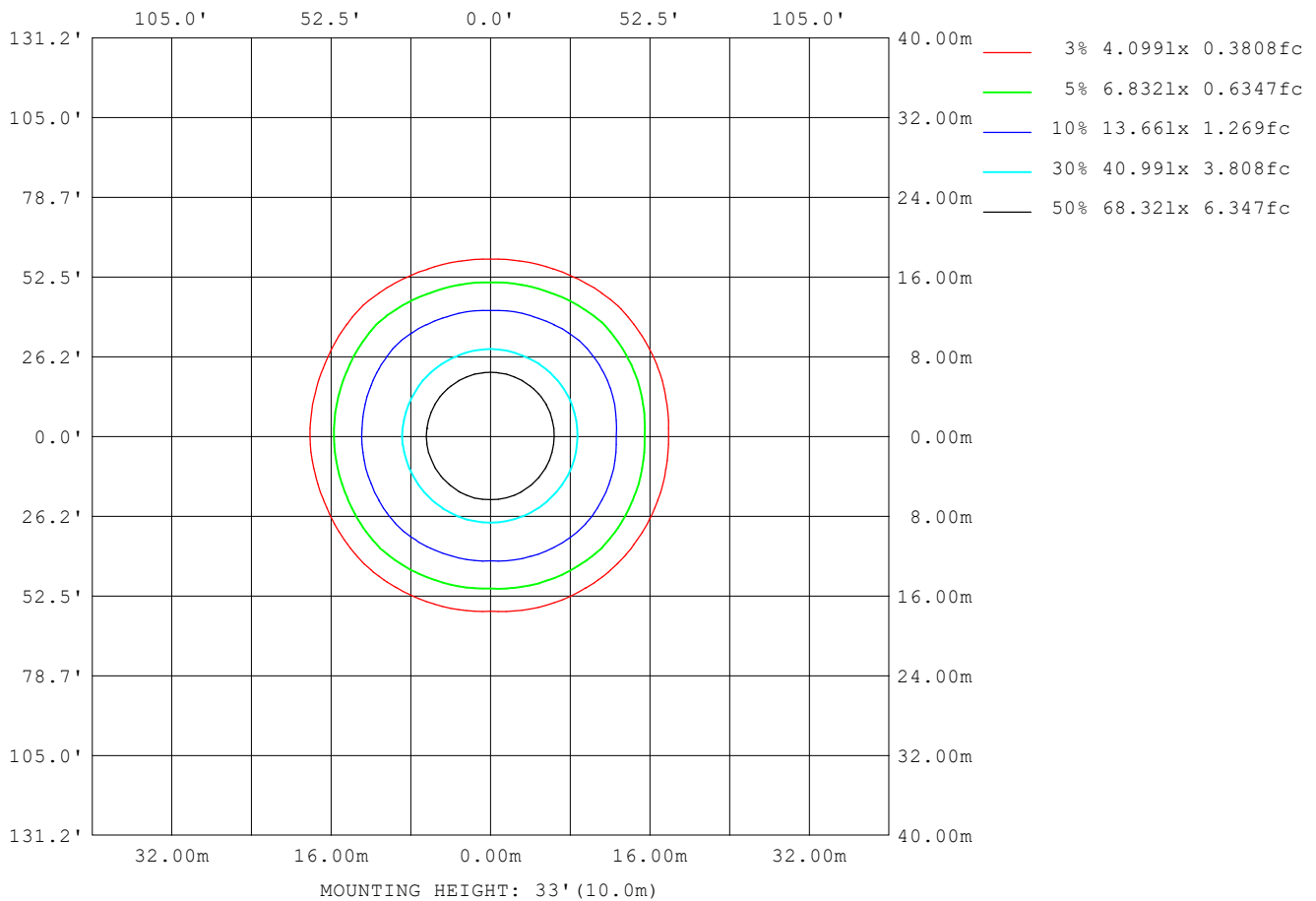
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-01-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.40V I:1.8595A P:223.36W PF:0.9960 Freq:60.23Hz Lamp Flux:33563.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-04

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.40V I:1.8595A P:223.36W PF:0.9960 Freq:60.23Hz Lamp Flux:33563.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

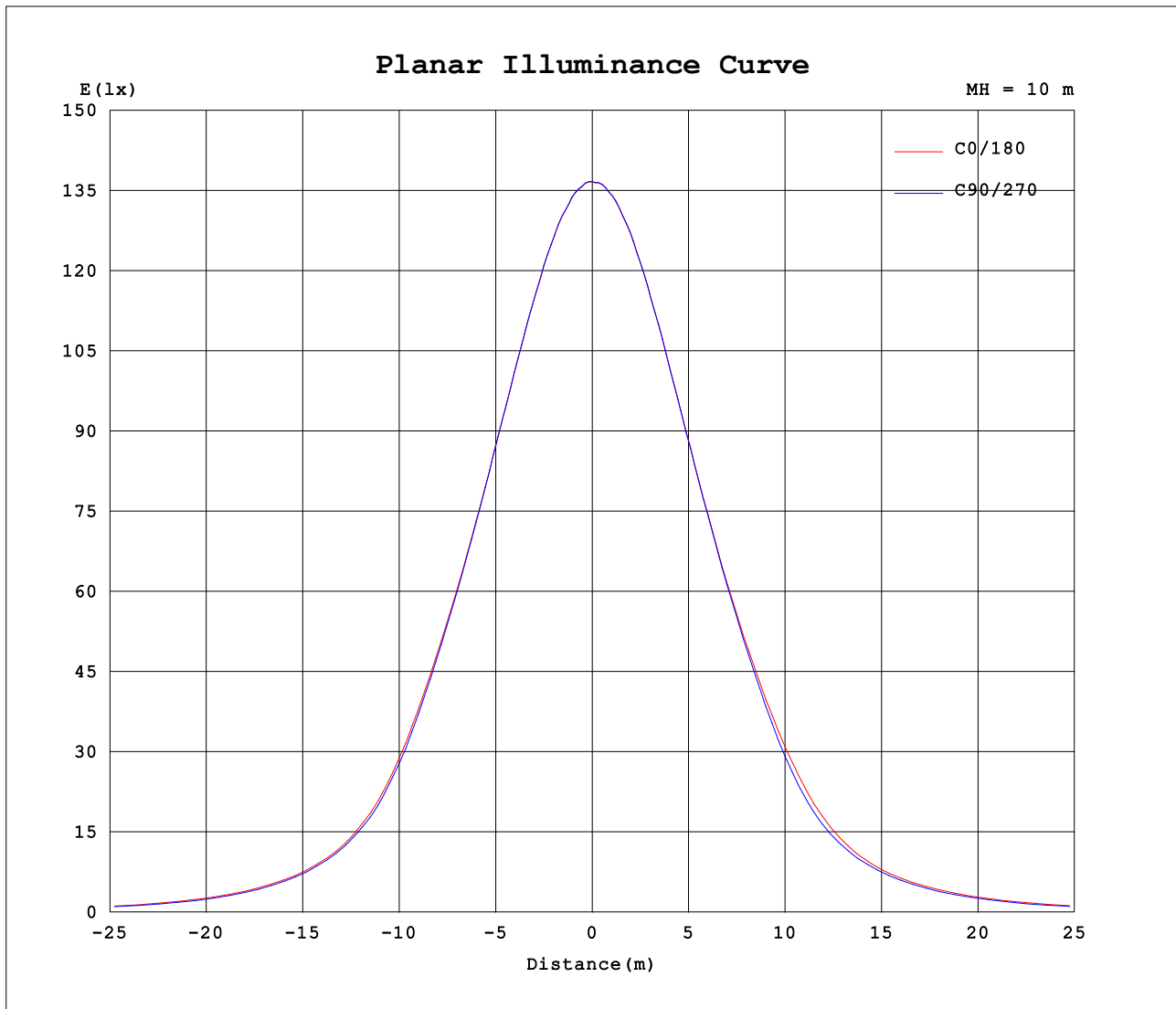
AvgL	cd/m2
L_0~180 (65) av	66170
L_0~180 (75) av	53344
L_0~180 (85) av	50584
L_90~270 (65) av	60269
L_90~270 (75) av	49528
L_90~270 (85) av	27670
L_45 (65) av	66503
L_45 (75) av	54632
L_45 (85) av	46137

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.450m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-01-04

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.40V I:1.8595A P:223.36W PF:0.9960 Freq:60.23Hz Lamp Flux:33563.2x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.:									SUR.:						Shielding Angle:		

Table--1

UNIT: X10cd

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	1367	1367	1367	1367	1367	1367	1367	1367	1367	1367	1367	1367	1367	1367	1367	1367			
5	1362	1361	1362	1362	1363	1361	1361	1362	1363	1362	1364	1366	1363	1363	1363	1361			
10	1346	1345	1347	1349	1346	1344	1342	1345	1350	1347	1352	1352	1351	1347	1348	1347			
15	1318	1318	1321	1323	1317	1318	1318	1318	1327	1325	1329	1328	1327	1324	1324	1324			
20	1280	1284	1284	1286	1281	1285	1284	1284	1293	1291	1296	1291	1292	1291	1293	1290			
25	1237	1239	1239	1240	1237	1238	1238	1241	1249	1247	1249	1247	1247	1246	1248	1246			
30	1178	1176	1177	1178	1174	1177	1175	1179	1192	1187	1191	1189	1189	1186	1189	1185			
35	1100	1097	1094	1097	1092	1093	1094	1100	1121	1111	1117	1113	1113	1108	1111	1111			
40	989	983	970	974	970	975	975	991	1025	1008	1006	996	1002	992	995	1001			
45	817	824	822	810	788	803	821	834	877	858	857	829	826	819	843	840			
50	623	656	676	640	598	626	670	666	678	688	704	651	623	646	694	675			
55	475	499	524	489	457	478	516	506	506	526	552	496	473	493	543	519			
60	367	375	385	370	344	360	381	372	386	389	411	375	361	373	405	390			
65	271	278	271	270	247	261	271	273	289	286	292	274	263	274	290	289			
70	190	197	191	188	172	183	193	194	200	204	205	195	182	194	204	207			
75	135	138	137	131	125	128	138	137	141	144	145	136	132	137	146	145			
80	88.9	93.2	90.3	84.3	77.1	82.9	91.1	92.8	96.4	97.5	99.1	90.5	88.2	92.0	100.0	100			
85	38.1	40.9	31.8	24.3	17.5	24.8	34.0	42.8	50.0	49.5	48.4	33.0	30.8	32.1	46.7	49.9			
90	1.45	1.42	1.46	1.42	1.39	1.42	1.45	1.42	3.44	6.60	1.95	1.69	1.65	1.52	1.56	1.51			
95	1.90	1.90	1.90	1.79	1.75	1.78	1.87	1.86	1.73	1.76	1.74	1.69	1.62	1.67	1.74	1.78			
100	2.52	2.51	2.50	2.39	2.34	2.36	2.45	2.46	2.30	2.34	2.31	2.26	2.18	2.23	2.31	2.36			
105	3.27	3.23	3.22	3.10	3.06	3.06	3.15	3.16	3.00	3.02	2.98	2.93	2.86	2.91	2.98	3.06			
110	4.09	4.05	4.02	3.91	3.88	3.87	3.94	3.96	3.78	3.79	3.72	3.70	3.65	3.69	3.75	3.85			
115	4.99	4.93	4.87	4.80	4.78	4.75	4.80	4.83	4.63	4.64	4.56	4.55	4.52	4.56	4.61	4.71			
120	5.90	5.82	5.75	5.68	5.69	5.62	5.67	5.71	5.51	5.50	5.40	5.42	5.41	5.44	5.46	5.58			
125	6.75	6.67	6.61	6.54	6.57	6.46	6.48	6.56	6.37	6.35	6.25	6.27	6.28	6.29	6.31	6.45			
130	7.57	7.47	7.41	7.34	7.37	7.24	7.29	7.36	7.21	7.17	7.05	7.05	7.11	7.09	7.13	7.27			
135	8.33	8.23	8.17	8.08	8.11	7.98	8.04	8.11	7.97	7.93	7.79	7.77	7.85	7.84	7.90	8.03			
140	9.03	8.91	8.89	8.81	8.82	8.65	8.72	8.80	8.66	8.61	8.49	8.46	8.52	8.54	8.61	8.71			
145	9.61	9.54	9.53	9.50	9.47	9.32	9.35	9.40	9.31	9.25	9.15	9.12	9.20	9.22	9.26	9.36			
150	10.2	10.2	10.2	10.1	10.1	9.95	9.97	10.0	9.85	9.84	9.75	9.77	9.81	9.85	9.88	9.96			
155	10.8	10.8	10.7	10.6	10.6	10.6	10.6	10.6	10.5	10.4	10.4	10.4	10.4	10.4	10.5	10.6			
160	11.4	11.5	11.4	11.2	11.2	11.3	11.3	11.3	11.1	11.1	11.1	11.1	11.0	11.0	11.1	11.2			
165	12.1	12.2	12.0	11.9	12.0	12.0	12.0	12.0	11.8	11.8	11.8	11.8	11.7	11.7	11.8	12.0			
170	12.8	12.7	12.6	12.6	12.7	12.7	12.7	12.6	12.5	12.5	12.5	12.6	12.4	12.4	12.4	12.6			
175	13.2	13.0	13.0	13.1	13.1	13.1	13.1	12.9	13.1	12.9	13.0	13.1	13.1	12.9	12.9	13.0			
180	13.3	13.1	13.2	13.3	13.3	13.2	13.2	13.1	13.3	13.1	13.2	13.2	13.3	13.2	13.2	13.1			

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