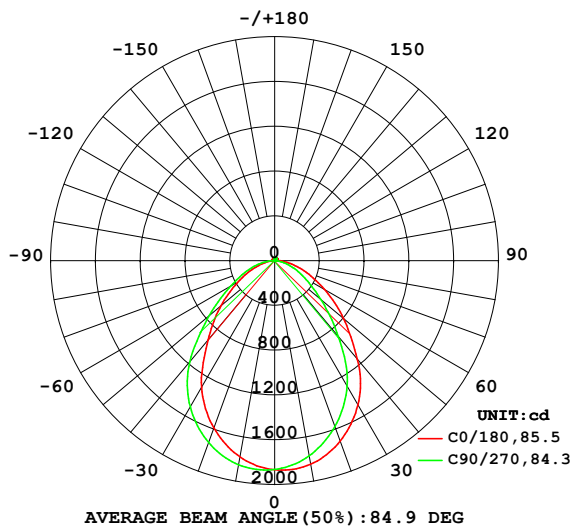


LUMINAIRE PHOTOMETRIC TEST REPORT

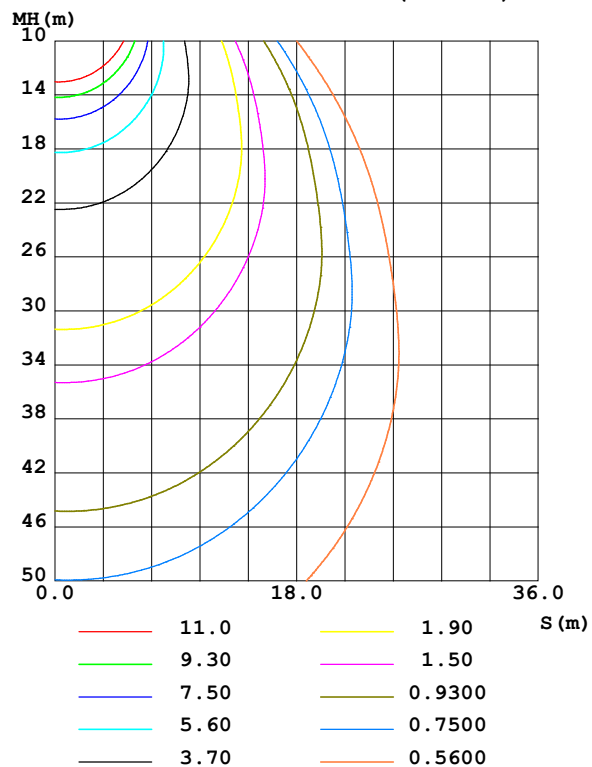
Test:U:230.65V I:0.1348A P:29.718W PF:0.9562 Freq:50.00Hz Lamp Flux:3920.4x1 lm		
NAME: LED612-W34KA-D (30W 800mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3363	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.92 lm/W			
MODEL		I _{max} (cd)	1878	S/MH(C0/180)	1.08
NOMINAL POWER(W)	29.9	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3920.4	η UP,DN(C0-180)	1.7,45.6
NOMINAL FLUX(lm)	3920.4	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.5,51.3
LAMPS INSIDE	1	η up (%)	3.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	33.97	η down (%)	96.9	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-06-16

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [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	1846	1809	1770	1758	1781	1815	1852	1865	0- 10	175.6	175.6	4.48,4.48
20	1714	1645	1576	1548	1590	1657	1728	1751	10- 20	490.7	666.3	17,17
30	1488	1392	1297	1249	1308	1404	1508	1539	20- 30	705.6	1372	35,35
40	1149	1024	887.8	849.3	927.0	1032	1180	1220	30- 40	763.8	2136	54.5,54.5
50	805.2	694.2	539.5	533.4	625.2	678.6	762.6	825.6	40- 50	655.1	2791	71.2,71.2
60	513.4	421.0	310.3	312.4	375.8	398.4	451.1	510.5	50- 60	482.6	3273	83.5,83.5
70	295.2	231.2	162.5	162.1	191.2	224.4	255.1	294.3	60- 70	311.2	3585	91.4,91.4
80	132.5	89.47	42.51	42.51	63.47	85.99	111.5	143.5	70- 80	163.4	3748	95.6,95.6
90	31.43	15.52	2.997	15.30	22.27	15.37	8.509	30.19	80- 90	49.31	3797	96.9,96.9
100	22.24	16.35	5.521	16.79	22.42	15.48	2.791	15.23	90-100	16.13	3814	97.3,97.3
110	23.47	18.49	8.943	18.60	23.17	16.61	5.114	16.72	100-110	16.60	3830	97.7,97.7
120	24.63	20.78	12.89	21.09	23.59	18.22	8.230	18.29	110-120	17.48	3848	98.1,98.1
130	26.28	23.39	16.97	23.72	25.65	19.75	11.86	20.12	120-130	17.70	3865	98.6,98.6
140	27.79	25.47	20.66	25.84	26.96	21.82	15.72	22.36	130-140	17.19	3883	99,99
150	28.75	25.78	24.21	27.43	27.79	23.69	19.65	24.47	140-150	15.24	3898	99.4,99.4
160	29.37	26.93	27.53	28.41	28.29	25.47	23.65	25.76	150-160	12.04	3910	99.7,99.7
170	29.01	27.84	29.59	30.01	28.56	28.14	27.48	26.57	160-170	7.824	3918	99.9,99.9
180	30.15	29.40	29.77	29.68	30.20	29.42	29.72	29.69	170-180	2.756	3920	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2482.8 lm

%lum = 63.3%

%lamp = 63.3%

Conical surface Flux(120deg): 3273.5 lm

%lum = 83.5%

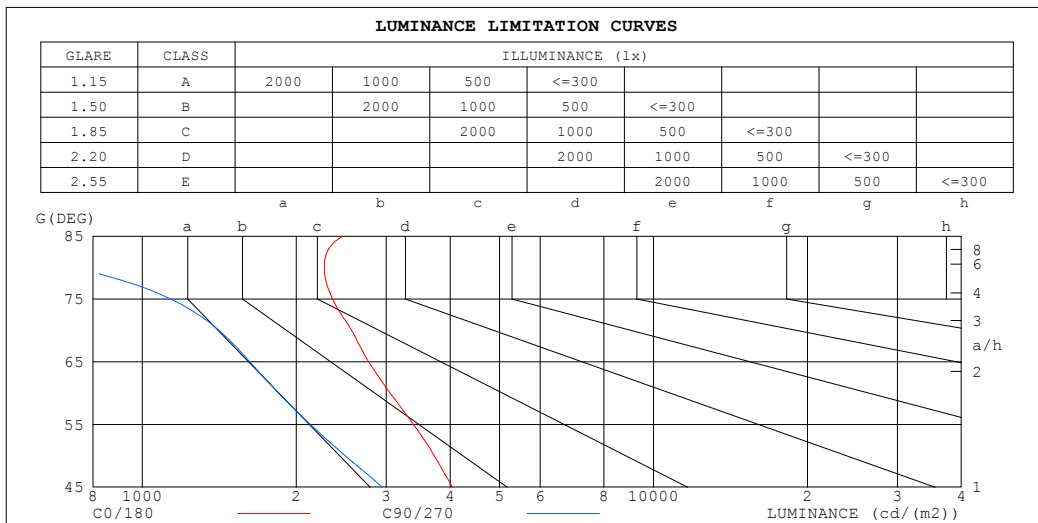
%lamp = 83.5%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2025-06-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
 Humidity:65.0%
 Test Distance:12.020m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.65V I:0.1348A P:29.718W PF:0.9562 Freq:50.00Hz Lamp Flux:3920.4x1 lm		
NAME: LED612-W34KA-D (30W 800mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3363	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2462	241
80	2270	728
75	2356	1136
70	2566	1413
65	2770	1622
60	3053	1845
55	3390	2131
50	3725	2496
45	4045	2947

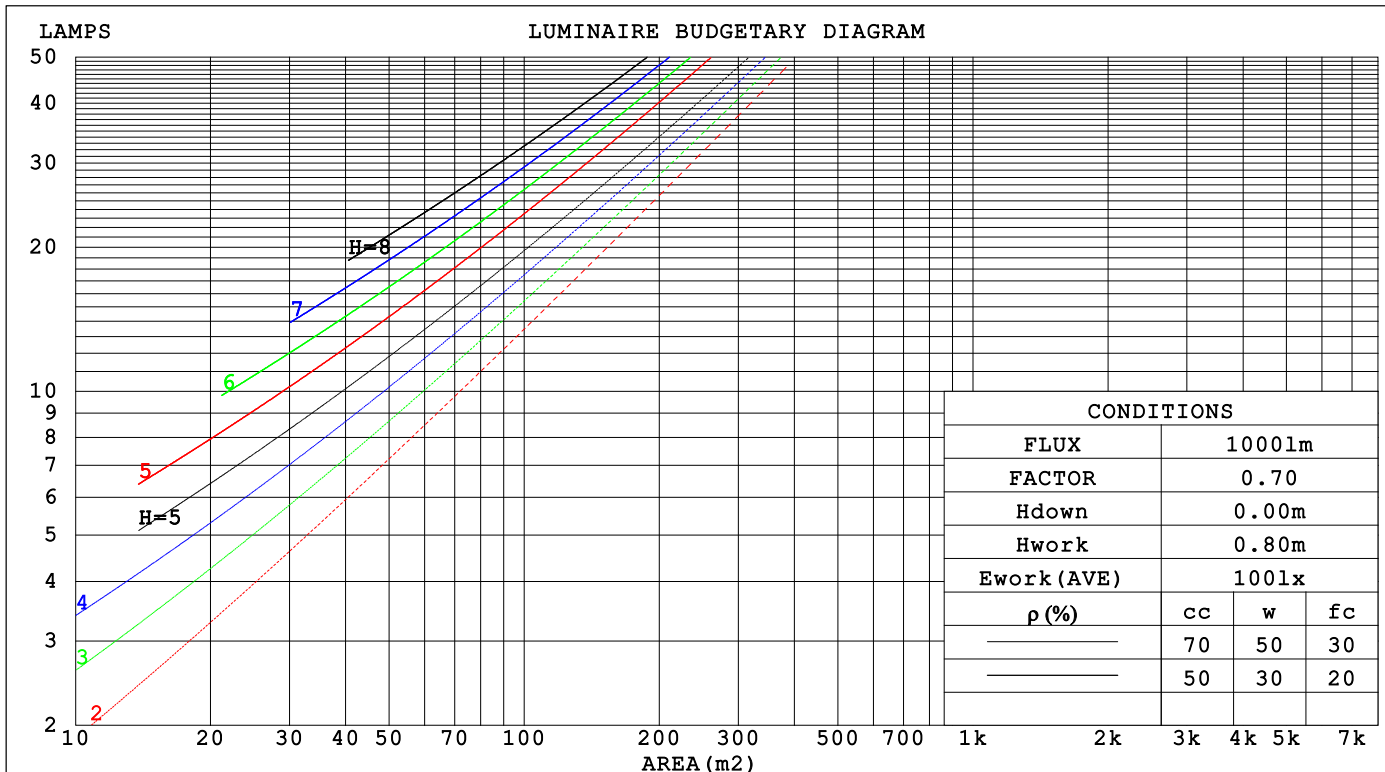
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-06-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.65V I:0.1348A P:29.718W PF:0.9562 Freq:50.00Hz Lamp Flux:3920.4x1 lm		
NAME: LED612-W34KA-D (30W 800mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3363	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 Coefficients of Utilization(CU)															
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.05	1.01	.98	1.03	.99	.96	.98	.95	.93	.93	.91	.89	.89	.88	.86	.84
2.0	.93	.87	.82	.91	.86	.81	.87	.83	.79	.84	.80	.76	.80	.77	.74	.72
3.0	.83	.76	.70	.81	.75	.69	.78	.72	.68	.75	.70	.66	.72	.68	.65	.63
4.0	.75	.67	.61	.73	.66	.60	.70	.64	.59	.68	.62	.58	.65	.61	.57	.55
5.0	.68	.59	.53	.66	.59	.53	.64	.57	.52	.62	.56	.51	.60	.54	.50	.48
6.0	.61	.53	.47	.60	.53	.47	.58	.51	.46	.56	.50	.46	.55	.49	.45	.43
7.0	.56	.48	.42	.55	.48	.42	.53	.47	.42	.52	.46	.41	.50	.45	.41	.39
8.0	.52	.44	.38	.51	.43	.38	.49	.42	.38	.48	.42	.37	.46	.41	.37	.35
9.0	.48	.40	.35	.47	.40	.35	.46	.39	.34	.44	.38	.34	.43	.38	.34	.32
10.0	.44	.37	.32	.44	.36	.32	.42	.36	.31	.41	.35	.31	.40	.35	.31	.29



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-06-16

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.65V I:0.1348A P:29.718W PF:0.9562 Freq:50.00Hz Lamp Flux:3920.4x1 lm		
NAME: LED612-W34KA-D (30W 800mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3363	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	.271	.154	.049	.263	.150	.048	.248	.142	.045	.234	.135	.043	.222	.128	.041		
2.0	.257	.141	.043	.250	.138	.042	.237	.132	.041	.225	.126	.039	.214	.121	.038		
3.0	.240	.128	.038	.234	.125	.038	.222	.121	.037	.212	.116	.036	.202	.112	.035		
4.0	.224	.116	.034	.218	.114	.034	.208	.110	.033	.199	.107	.032	.190	.103	.031		
5.0	.209	.106	.031	.204	.105	.031	.195	.101	.030	.186	.098	.029	.178	.095	.029		
6.0	.195	.098	.028	.191	.096	.028	.183	.094	.027	.175	.091	.027	.168	.088	.026		
7.0	.183	.090	.026	.179	.089	.025	.172	.087	.025	.165	.085	.025	.158	.082	.024		
8.0	.172	.084	.024	.169	.083	.023	.162	.081	.023	.156	.079	.023	.150	.077	.022		
9.0	.162	.078	.022	.159	.077	.022	.153	.076	.021	.147	.074	.021	.142	.072	.021		
10.0	.153	.073	.020	.150	.073	.020	.145	.071	.020	.140	.069	.020	.135	.068	.019		

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	.214	.214	.214	.183	.183	.183	.125	.125	.125	.072	.072	.072	.023	.023	.023		
1.0	.202	.181	.162	.173	.155	.139	.118	.107	.096	.068	.062	.056	.022	.020	.018		
2.0	.192	.156	.126	.164	.135	.109	.113	.093	.076	.065	.054	.045	.021	.018	.015		
3.0	.183	.138	.103	.157	.119	.089	.108	.083	.063	.062	.048	.037	.020	.016	.012		
4.0	.175	.125	.087	.150	.108	.075	.103	.075	.053	.060	.044	.031	.019	.014	.010		
5.0	.168	.114	.075	.144	.099	.065	.099	.069	.046	.057	.041	.027	.019	.013	.009		
6.0	.161	.106	.066	.138	.092	.058	.095	.064	.041	.055	.038	.024	.018	.012	.008		
7.0	.154	.099	.060	.133	.086	.052	.092	.060	.037	.053	.035	.022	.017	.012	.007		
8.0	.148	.093	.055	.127	.081	.048	.088	.057	.034	.051	.033	.020	.017	.011	.007		
9.0	.142	.088	.051	.123	.076	.045	.085	.054	.032	.050	.032	.019	.016	.010	.006		
10.0	.137	.084	.048	.118	.073	.042	.082	.051	.030	.048	.030	.018	.016	.010	.006		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-06-16

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.65V I:0.1348A P:29.718W PF:0.9562 Freq:50.00Hz Lamp Flux:3920.4x1 lm										
NAME: LED612-W34KA-D (30W 800mA 4000K)					TYPE:			WEIGHT:		
SPEC.:					DIM.: 0.3363			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	16.2	17.6	16.5	17.8	18.1	14.9	16.3	15.2	16.5	16.8
3H	17.4	18.6	17.7	18.9	19.2	15.7	16.9	16.0	17.2	17.5
4H	17.9	19.0	18.2	19.3	19.6	15.9	17.1	16.3	17.4	17.7
6H	18.3	19.4	18.7	19.7	20.0	16.0	17.1	16.4	17.4	17.8
8H	18.5	19.5	18.8	19.8	20.2	16.0	17.1	16.4	17.4	17.7
12H	18.6	19.6	19.0	19.9	20.3	16.0	17.0	16.3	17.3	17.7
4H 2H	16.5	17.7	16.8	18.0	18.3	15.5	16.6	15.8	16.9	17.2
3H	17.8	18.8	18.2	19.2	19.5	16.4	17.5	16.8	17.8	18.2
4H	18.5	19.4	18.9	19.7	20.1	16.8	17.7	17.2	18.1	18.5
6H	19.0	19.8	19.5	20.2	20.7	16.9	17.8	17.4	18.2	18.6
8H	19.2	20.0	19.7	20.4	20.9	16.9	17.7	17.4	18.1	18.6
12H	19.5	20.1	19.9	20.6	21.1	16.9	17.6	17.4	18.0	18.5
8H 4H	18.6	19.3	19.0	19.7	20.2	17.0	17.8	17.5	18.2	18.7
6H	19.2	19.9	19.7	20.3	20.8	17.3	17.9	17.8	18.4	18.9
8H	19.6	20.1	20.1	20.6	21.1	17.4	17.9	17.9	18.4	18.9
12H	19.9	20.3	20.4	20.8	21.4	17.3	17.8	17.9	18.3	18.9
12H 4H	18.5	19.2	19.0	19.7	20.1	17.1	17.7	17.5	18.2	18.6
6H	19.2	19.8	19.8	20.3	20.8	17.4	17.9	17.9	18.4	18.9
8H	19.6	20.1	20.1	20.6	21.1	17.4	17.9	18.0	18.4	19.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.4 / - 0.6				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.6				
2.0H	+ 0.5 / - 0.5					+ 0.5 / - 1.1				

CIE Pub.117, 3920 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.7$)
Area: 0.3363 m²

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-06-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.65V I:0.1348A P:29.718W PF:0.9562 Freq:50.00Hz Lamp Flux:3920.4x1 lm		
NAME: LED612-W34KA-D (30W 800mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3363	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

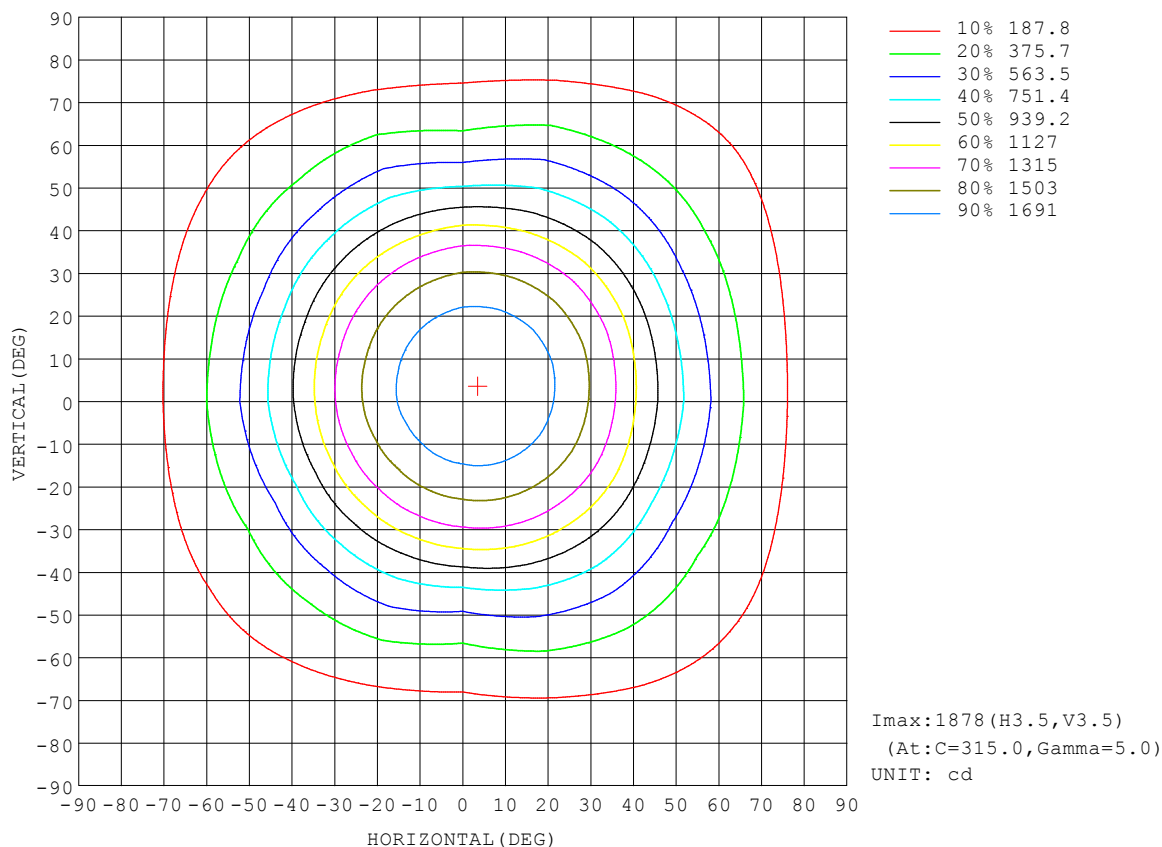
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	63	53	47	62	53	46	61	52	46	40
0.80	73	63	56	72	62	56	70	61	55	49
1.00	81	71	65	80	70	64	77	71	64	57
1.25	87	78	72	86	77	71	83	76	70	64
1.50	92	83	77	90	82	76	87	80	75	68
2.00	98	90	85	96	89	84	92	86	82	74
2.50	101	94	89	99	93	88	95	90	86	77
3.00	104	98	93	102	96	92	97	93	89	81
4.00	107	102	98	105	100	97	100	97	94	84
5.00	109	105	102	107	103	100	102	99	96	87
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: 25.3°C
Operators: DAMIN
Test Date: 2025-06-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity: 65.0%
Test Distance: 12.020m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.65V I:0.1348A P:29.718W PF:0.9562 Freq:50.00Hz Lamp Flux:3920.4x1 lm		
NAME: LED612-W34KA-D (30W 800mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3363	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

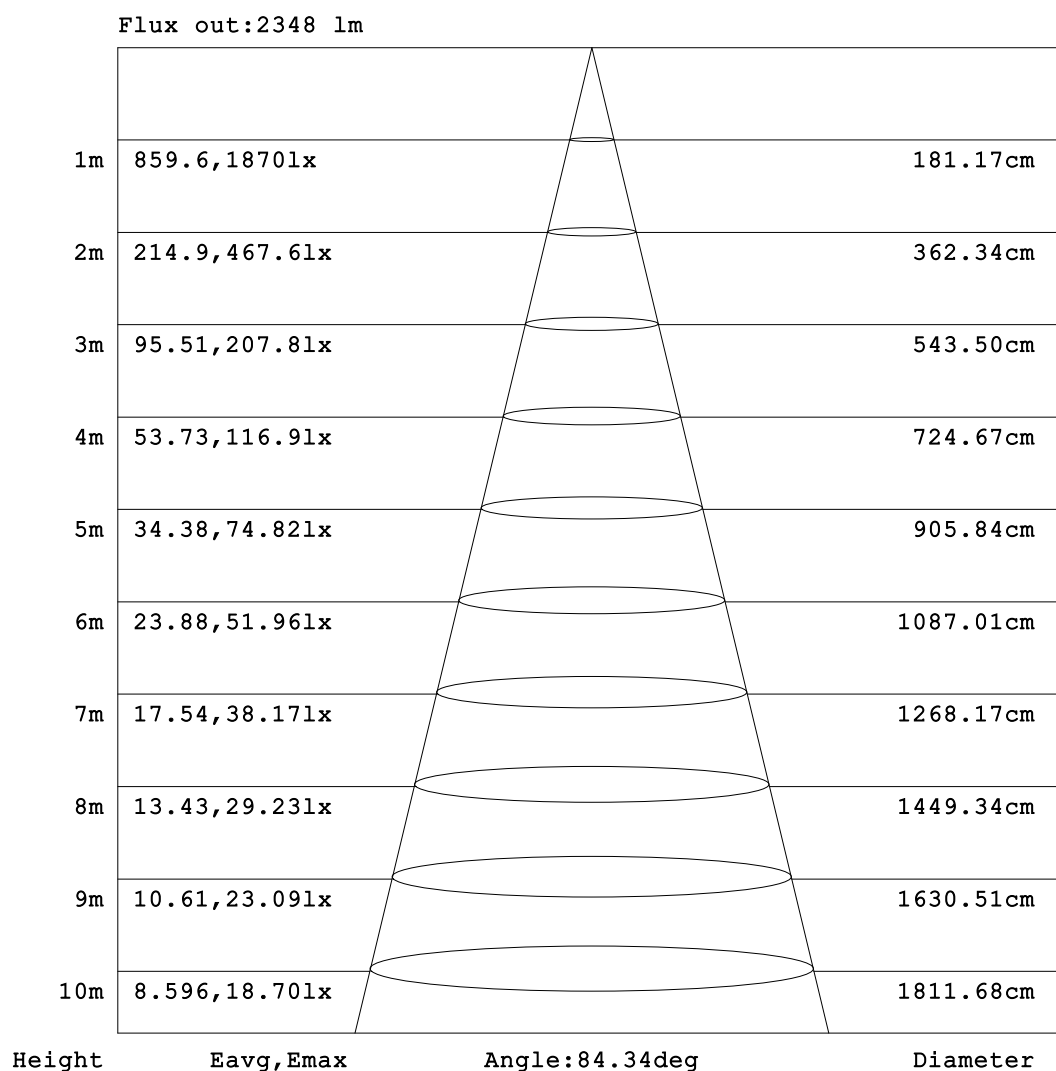


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-06-16

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.65V I:0.1348A P:29.718W PF:0.9562 Freq:50.00Hz Lamp Flux:3920.4x1 lm		
NAME: LED612-W34KA-D (30W 800mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3363	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

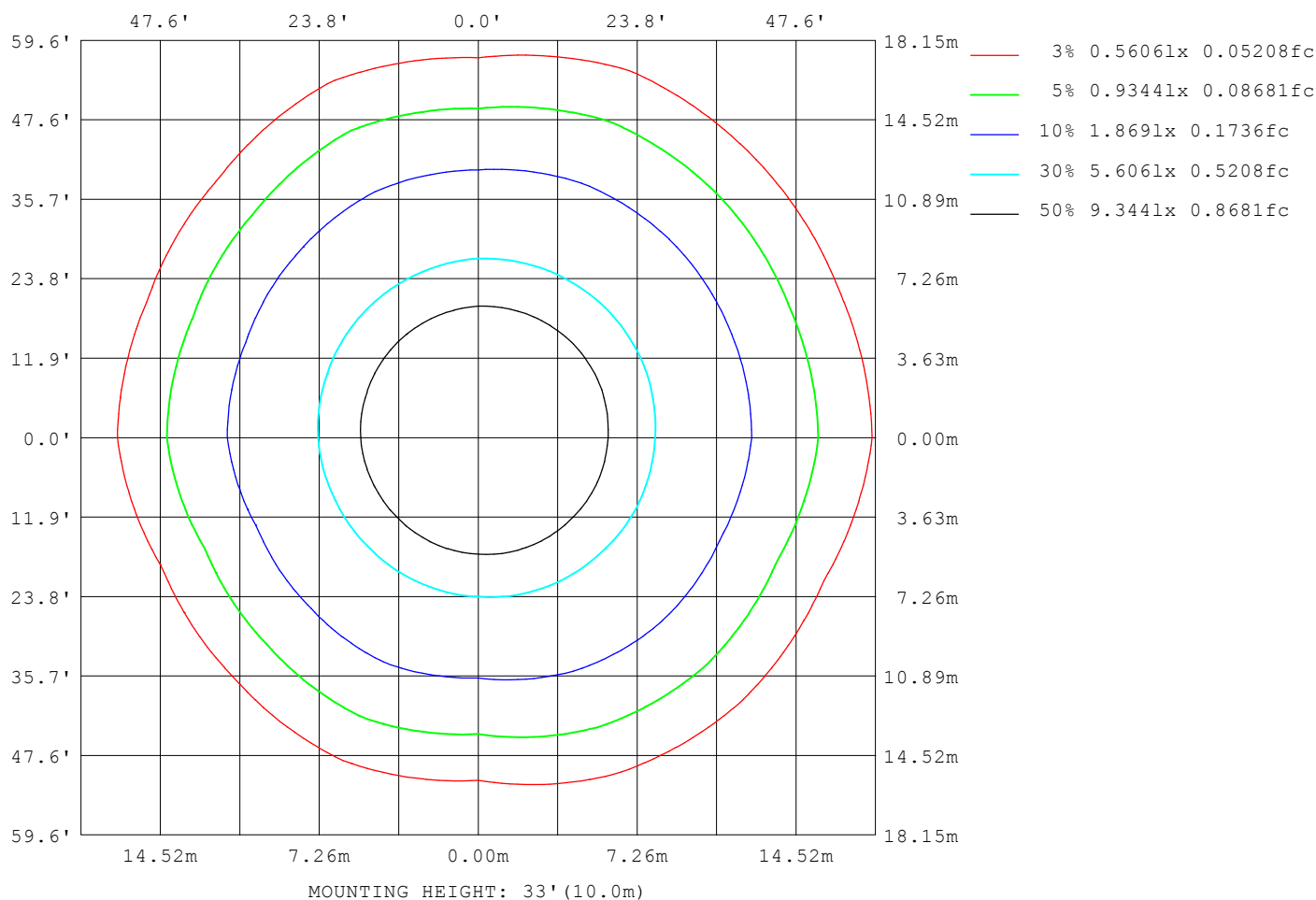


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-06-16

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.65V I:0.1348A P:29.718W PF:0.9562 Freq:50.00Hz Lamp Flux:3920.4x1 lm		
NAME: LED612-W34KA-D (30W 800mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3363	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-06-16

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.65V I:0.1348A P:29.718W PF:0.9562 Freq:50.00Hz Lamp Flux:3920.4x1 lm		
NAME: LED612-W34KA-D (30W 800mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3363	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

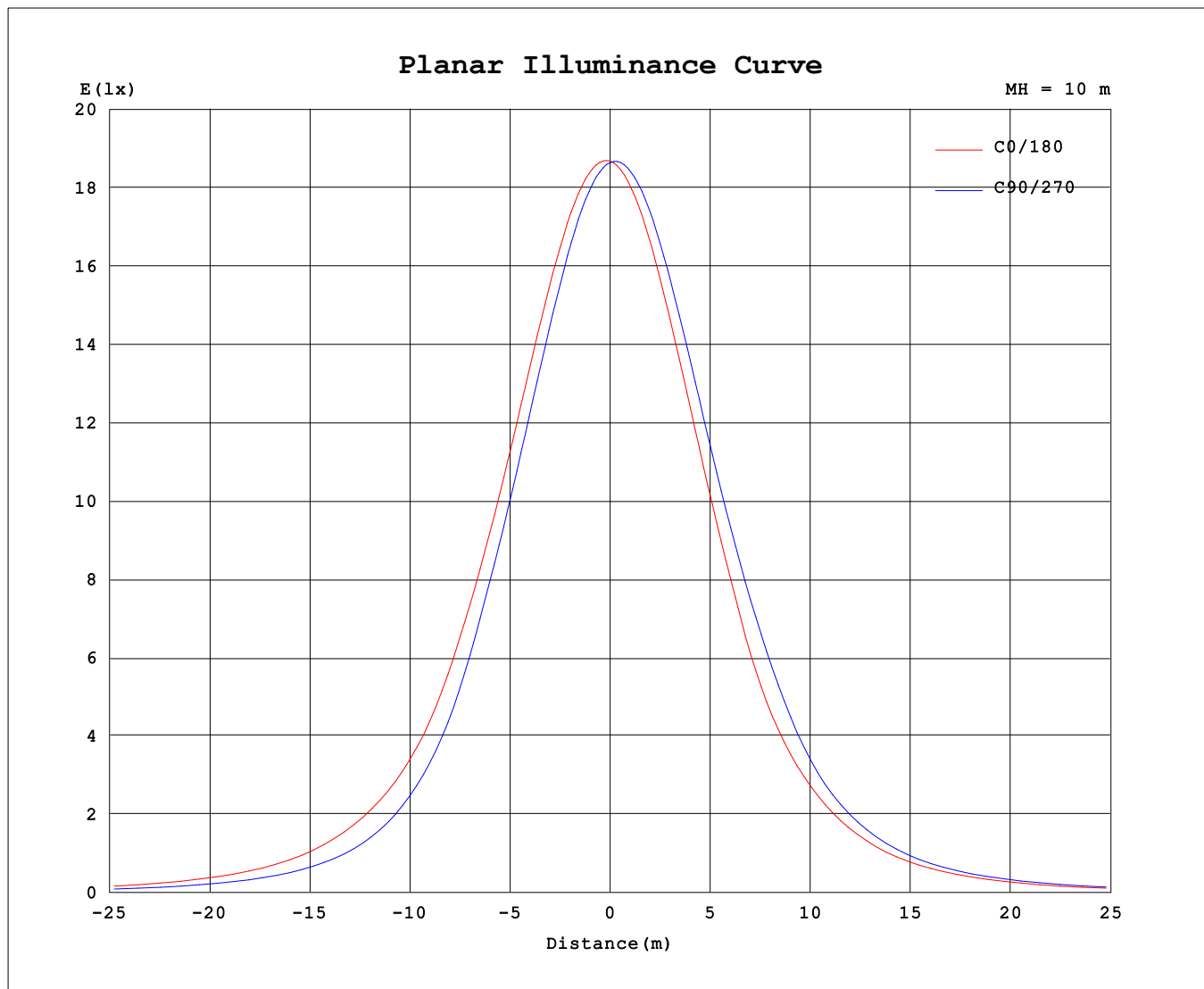
AvgL	cd/m2
L_0~180 (65) av	2361
L_0~180 (75) av	1876
L_0~180 (85) av	1709
L_90~270 (65) av	2014
L_90~270 (75) av	1606
L_90~270 (85) av	970
L_45 (65) av	2182
L_45 (75) av	1780
L_45 (85) av	1435

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-06-16

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.477
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2025-06-16

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.477
 Humidity: 65.0%
 Test Distance: 12.020m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: LED612-W34KA-D (30W 800mA 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3363	SERIAL No.:
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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	1868	1867	1865	1865	1865	1866	1865	1866	1868	1867	1865	1865	1865	1866	1865	1866			
5	1871	1861	1850	1841	1832	1828	1826	1829	1839	1845	1854	1864	1872	1877	1878	1876			
10	1846	1831	1809	1789	1770	1762	1758	1764	1781	1795	1815	1835	1852	1862	1865	1860			
15	1793	1770	1739	1710	1684	1671	1664	1673	1697	1719	1749	1778	1803	1817	1821	1813			
20	1714	1684	1645	1610	1576	1558	1548	1560	1590	1618	1657	1695	1728	1745	1751	1741			
25	1612	1577	1529	1487	1447	1424	1411	1425	1461	1495	1542	1589	1630	1649	1656	1645			
30	1488	1447	1392	1344	1297	1266	1249	1265	1308	1348	1404	1459	1508	1531	1539	1526			
35	1340	1293	1222	1166	1105	1064	1043	1058	1112	1166	1238	1304	1362	1387	1397	1383			
40	1149	1097	1024	961	888	868	849	858	927	967	1032	1105	1180	1209	1220	1203			
45	962	898	850	786	701	713	683	684	770	792	845	911	959	997	1009	995			
50	805	718	694	637	539	572	533	527	625	624	679	750	763	818	826	814			
55	654	558	548	498	411	443	409	405	488	478	521	607	593	667	664	644			
60	513	427	421	386	310	335	312	310	376	365	398	474	451	527	510	495			
65	394	325	315	287	231	242	233	233	278	277	303	359	342	406	389	377			
70	295	247	231	202	163	161	162	167	191	201	224	258	255	299	294	288			
75	205	178	156	127	98.9	93.8	95.4	104	121	134	152	172	181	209	216	214			
80	133	113	89.5	64.2	42.5	39.3	42.5	50.4	63.5	72.2	86.0	99.1	111	130	144	145			
85	72.1	57.9	38.3	20.0	7.06	9.55	16.6	23.0	28.0	30.6	35.1	40.7	49.8	64.7	78.2	81.7			
90	31.4	24.6	15.5	7.95	3.00	8.12	15.3	20.8	22.3	20.5	15.4	9.30	8.51	18.6	30.2	35.3			
95	22.0	20.1	15.3	9.08	4.12	9.11	16.0	21.1	22.3	20.4	15.2	7.69	2.04	7.22	14.8	20.4			
100	22.2	20.7	16.3	10.5	5.52	10.3	16.8	21.5	22.4	20.5	15.5	8.27	2.79	7.98	15.2	20.3			
105	22.8	21.5	17.5	12.0	7.19	11.7	17.8	22.2	22.7	20.8	15.9	9.10	3.83	8.96	15.9	20.9			
110	23.5	22.4	18.5	13.6	8.94	13.3	18.6	23.0	23.2	21.3	16.6	10.0	5.11	10.1	16.7	21.4			
115	24.2	23.3	19.1	15.1	10.9	14.8	19.5	23.8	23.9	21.9	17.4	11.2	6.59	11.3	17.6	22.1			
120	24.6	23.2	20.8	16.7	12.9	16.4	21.1	23.9	23.6	21.6	18.2	12.4	8.23	12.7	18.3	21.8			
125	25.2	24.3	22.1	18.3	15.1	18.2	22.4	25.0	24.5	22.4	18.9	13.8	9.99	14.2	19.0	22.6			
130	26.3	25.6	23.4	19.6	17.0	19.9	23.7	26.3	25.7	23.5	19.7	15.1	11.9	15.4	20.1	23.9			
135	27.1	26.5	24.4	20.8	18.9	21.4	24.9	27.1	26.3	24.3	20.8	16.5	13.8	17.1	21.2	24.7			
140	27.8	27.3	25.5	22.0	20.7	22.9	25.8	27.9	27.0	25.0	21.8	18.1	15.7	18.8	22.4	25.6			
145	28.3	28.0	25.3	23.1	22.4	24.0	26.7	28.4	27.4	25.6	22.8	19.5	17.7	19.9	23.5	26.3			
150	28.8	28.5	25.8	24.0	24.2	25.0	27.4	28.8	27.8	26.1	23.7	20.7	19.7	20.7	24.5	27.0			
155	29.1	28.9	26.5	25.0	25.9	26.5	28.1	29.2	28.0	26.6	24.6	22.3	21.6	21.6	25.1	27.7			
160	29.4	29.2	26.9	26.5	27.5	28.0	28.4	29.4	28.3	27.1	25.5	24.2	23.6	23.1	25.8	28.5			
165	29.7	28.7	27.2	27.6	28.7	29.2	29.0	29.3	28.4	27.4	26.4	26.1	25.6	24.9	25.6	29.2			
170	29.0	27.6	27.8	28.7	29.6	30.0	30.0	29.7	28.6	28.2	28.1	27.7	27.5	26.8	26.6	28.2			
175	29.2	28.0	28.7	29.4	29.9	30.2	30.3	29.9	29.1	29.0	29.2	28.9	28.9	28.6	28.3	28.2			
180	30.2	28.8	29.4	29.6	29.8	29.7	29.7	29.0	30.2	28.8	29.4	29.6	29.7	29.7	29.7	29.0			

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