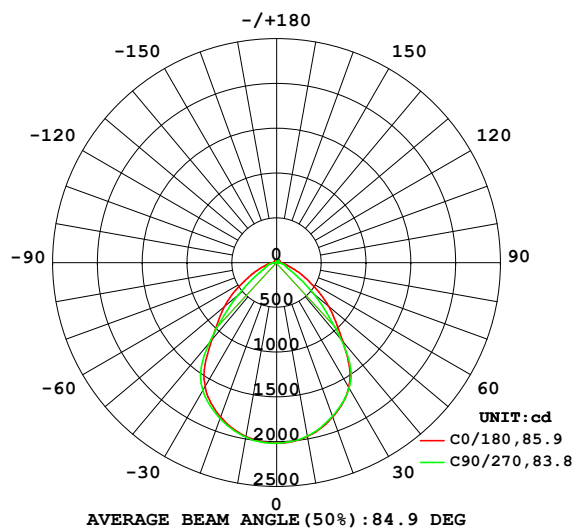


LUMINAIRE PHOTOMETRIC TEST REPORT

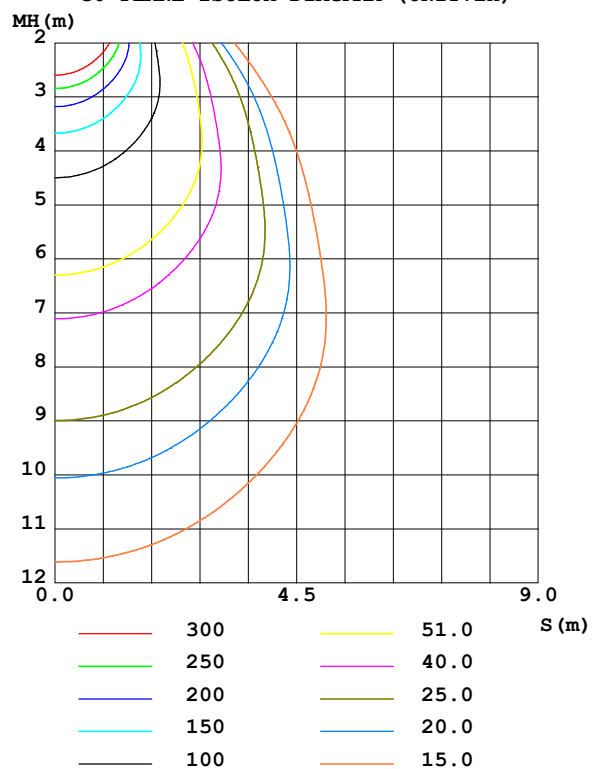
Test:U:230.36V I:0.1348A P:30.135W PF:0.9703 Freq:50.00Hz Lamp Flux:3997.07x1 lm		
NAME: LED612-W34KA (30W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3304	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.64 lm/W			
MODEL		I _{max} (cd)	2018	S/MH(C0/180)	1.18
NOMINAL POWER(W)	30.2	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3997.1	η UP,DN(C0-180)	1.7,47.9
NOMINAL FLUX(lm)	3997.07	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.7,48.7
LAMPS INSIDE	1	η up (%)	3.4	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230	η down (%)	96.6	CIBSE SHR MAX	1.15

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:2025-02-06

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	1972	1969	1968	1969	1971	1978	1980	1974	0- 10	190.5	190.5	4.77,4.77
20	1834	1824	1825	1827	1833	1844	1851	1840	10- 20	539.5	730.0	18.3,18.3
30	1611	1600	1618	1599	1599	1620	1649	1622	20- 30	799.8	1530	38.3,38.3
40	1151	1118	1120	1092	1129	1140	1177	1129	30- 40	875.9	2406	60.2,60.2
50	758.6	644.1	533.3	620.2	762.8	667.7	562.7	627.6	40- 50	665.5	3071	76.8,76.8
60	416.6	298.1	189.4	299.3	421.6	305.0	214.4	293.4	50- 60	409.7	3481	87.1,87.1
70	189.2	168.6	104.9	166.0	203.7	159.6	121.4	170.8	60- 70	217.0	3698	92.5,92.5
80	84.36	70.40	50.53	76.25	97.56	84.62	56.77	73.32	70- 80	120.2	3818	95.5,95.5
90	32.35	20.13	2.271	22.09	36.83	23.89	1.698	19.43	80- 90	43.14	3861	96.6,96.6
100	24.20	17.39	4.259	19.34	28.43	19.69	3.099	16.25	90-100	18.70	3880	97.1,97.1
110	25.27	19.34	7.663	19.50	27.34	19.97	5.878	18.08	100-110	18.34	3898	97.5,97.5
120	27.41	22.06	11.82	21.57	27.64	20.81	9.726	20.10	110-120	18.86	3917	98,98
130	29.90	25.22	16.43	24.36	28.93	22.99	13.98	23.07	120-130	19.40	3936	98.5,98.5
140	31.68	27.54	20.65	26.87	30.24	25.30	18.37	25.68	130-140	18.96	3955	99,99
150	32.62	28.05	24.82	28.87	30.80	27.28	22.59	27.40	140-150	16.74	3972	99.4,99.4
160	33.31	29.05	28.92	29.67	31.38	28.44	27.09	28.18	150-160	13.26	3985	99.7,99.7
170	32.75	30.77	32.03	31.60	31.21	30.84	31.22	30.57	160-170	8.602	3994	99.9,99.9
180	33.26	32.59	33.01	32.89	33.24	32.58	33.01	32.90	170-180	3.047	3997	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2770.1 lm

%lum = 69.3%

%lamp = 69.3%

Conical surface Flux(120deg): 3480.9 lm

%lum = 87.1%

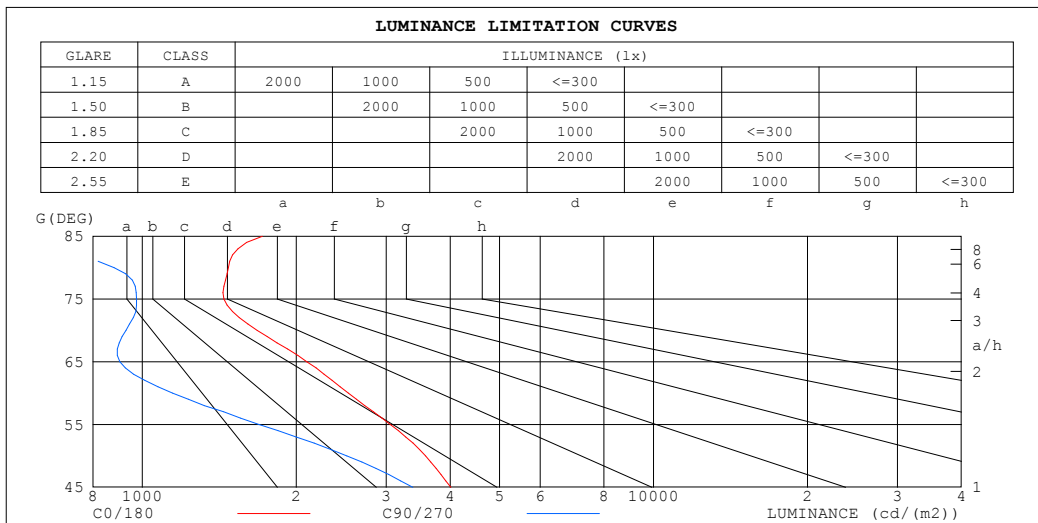
%lamp = 87.1%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-02-06

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:230.36V I:0.1348A P:30.135W PF:0.9703 Freq:50.00Hz Lamp Flux:3997.07x1 lm		
NAME: LED612-W34KA (30W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3304	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:



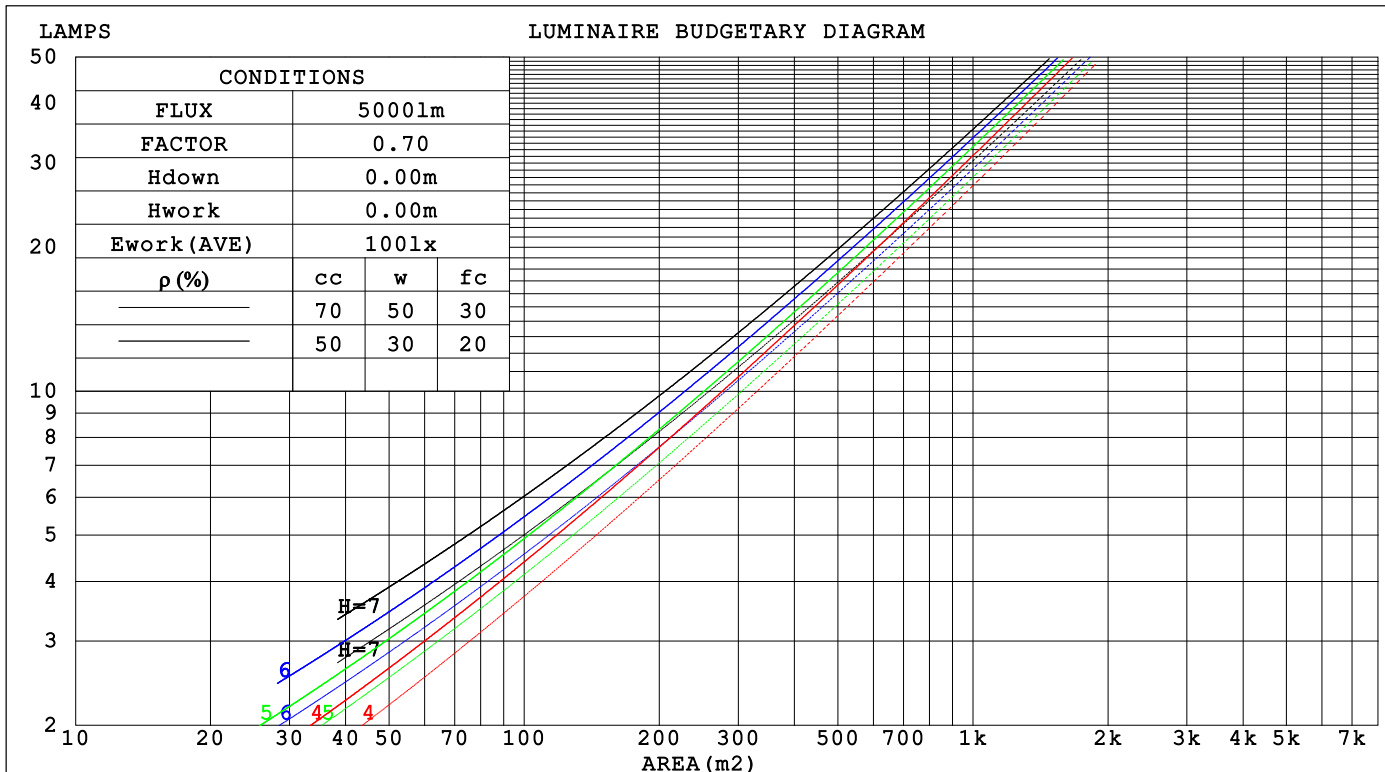
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-02-06

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:230.36V I:0.1348A P:30.135W PF:0.9703 Freq:50.00Hz Lamp Flux:3997.07x1 lm		
NAME: LED612-W34KA (30W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3304	SERIAL No.: 1
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	1.06	1.02	.99	1.03	1.00	.97	.99	.96	.94	.94	.92	.90	.90	.89	.87	.85
2.0	.95	.89	.84	.93	.88	.83	.89	.85	.81	.85	.82	.79	.82	.79	.76	.74
3.0	.85	.78	.73	.84	.77	.72	.80	.75	.70	.77	.73	.69	.74	.71	.67	.65
4.0	.77	.70	.64	.76	.69	.63	.73	.67	.62	.70	.65	.61	.68	.63	.60	.58
5.0	.70	.62	.56	.69	.61	.56	.66	.60	.55	.64	.59	.54	.62	.57	.53	.51
6.0	.64	.56	.50	.63	.55	.50	.61	.54	.49	.59	.53	.49	.57	.52	.48	.46
7.0	.59	.51	.45	.58	.50	.45	.56	.49	.44	.54	.48	.44	.53	.47	.43	.42
8.0	.54	.46	.41	.53	.46	.41	.52	.45	.40	.50	.44	.40	.49	.43	.40	.38
9.0	.50	.42	.37	.49	.42	.37	.48	.41	.37	.47	.41	.36	.45	.40	.36	.34
10.0	.46	.39	.34	.46	.39	.34	.44	.38	.34	.43	.38	.33	.42	.37	.33	.32



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-02-06

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:230.36V I:0.1348A P:30.135W PF:0.9703 Freq:50.00Hz Lamp Flux:3997.07x1 lm		
NAME: LED612-W34KA (30W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3304	SERIAL No.: 1
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	.253	.144	.046	.245	.140	.044	.230	.132	.042	.217	.125	.040	.204	.118	.038		
2.0	.241	.132	.041	.234	.129	.040	.221	.123	.038	.209	.117	.037	.198	.112	.035		
3.0	.227	.121	.036	.220	.118	.036	.209	.113	.034	.198	.109	.033	.188	.104	.032		
4.0	.212	.110	.032	.207	.108	.032	.197	.104	.031	.187	.101	.030	.179	.097	.030		
5.0	.199	.102	.029	.194	.100	.029	.185	.096	.028	.177	.093	.028	.169	.090	.027		
6.0	.187	.094	.027	.183	.092	.027	.175	.090	.026	.167	.087	.026	.160	.084	.025		
7.0	.176	.087	.025	.172	.086	.024	.165	.083	.024	.158	.081	.024	.152	.079	.023		
8.0	.166	.081	.023	.163	.080	.023	.156	.078	.022	.150	.076	.022	.144	.074	.022		
9.0	.157	.076	.021	.154	.075	.021	.148	.073	.021	.142	.071	.020	.137	.070	.020		
10.0	.149	.071	.020	.146	.071	.020	.141	.069	.019	.135	.067	.019	.130	.066	.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	.216	.216	.216	.185	.185	.185	.126	.126	.126	.073	.073	.073	.023	.023	.023		
1.0	.203	.183	.165	.173	.157	.142	.119	.108	.098	.068	.062	.057	.022	.020	.018		
2.0	.192	.158	.130	.164	.136	.113	.113	.094	.079	.065	.055	.046	.021	.018	.015		
3.0	.183	.140	.107	.156	.121	.093	.107	.084	.065	.062	.049	.038	.020	.016	.013		
4.0	.174	.127	.090	.150	.109	.078	.103	.076	.055	.060	.045	.033	.019	.015	.011		
5.0	.167	.116	.078	.143	.100	.068	.099	.070	.048	.057	.041	.029	.018	.013	.009		
6.0	.160	.107	.070	.138	.093	.061	.095	.065	.043	.055	.038	.026	.018	.013	.008		
7.0	.154	.100	.063	.132	.087	.055	.091	.061	.039	.053	.036	.023	.017	.012	.008		
8.0	.148	.095	.058	.127	.082	.051	.088	.058	.036	.051	.034	.021	.017	.011	.007		
9.0	.142	.090	.054	.123	.078	.047	.085	.055	.033	.049	.032	.020	.016	.011	.007		
10.0	.137	.085	.051	.118	.074	.044	.082	.052	.032	.048	.031	.019	.016	.010	.006		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-02-06

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:230.36V I:0.1348A P:30.135W PF:0.9703 Freq:50.00Hz Lamp Flux:3997.07x1 lm										
NAME: LED612-W34KA (30W 4000K)					TYPE:			WEIGHT:		
SPEC.:					DIM.: 0.3304			SERIAL No.: 1		
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	15.0	16.2	15.3	16.5	16.7	14.9	16.1	15.2	16.4	16.6
3H	15.6	16.8	15.9	17.0	17.3	15.2	16.4	15.6	16.7	17.0
4H	15.9	17.0	16.2	17.3	17.6	15.4	16.5	15.7	16.8	17.1
6H	16.2	17.2	16.5	17.5	17.8	15.5	16.5	15.8	16.8	17.2
8H	16.3	17.3	16.7	17.6	18.0	15.5	16.5	15.9	16.8	17.2
12H	16.4	17.3	16.8	17.7	18.1	15.5	16.4	15.9	16.8	17.1
4H 2H	15.1	16.2	15.5	16.5	16.8	15.0	16.1	15.4	16.4	16.7
3H	15.9	16.8	16.3	17.2	17.6	15.6	16.6	16.0	16.9	17.3
4H	16.3	17.2	16.7	17.5	17.9	15.9	16.7	16.3	17.1	17.5
6H	16.7	17.5	17.2	17.9	18.3	16.1	16.8	16.5	17.2	17.7
8H	16.9	17.6	17.4	18.0	18.5	16.1	16.8	16.6	17.3	17.7
12H	17.1	17.8	17.6	18.2	18.7	16.1	16.8	16.6	17.2	17.7
8H 4H	16.4	17.1	16.9	17.5	18.0	16.0	16.7	16.5	17.1	17.6
6H	17.0	17.6	17.5	18.0	18.5	16.3	16.9	16.8	17.4	17.9
8H	17.3	17.8	17.8	18.2	18.8	16.4	16.9	16.9	17.4	17.9
12H	17.5	18.0	18.1	18.5	19.0	16.4	16.9	17.0	17.4	17.9
12H 4H	16.4	17.0	16.9	17.5	18.0	16.0	16.7	16.5	17.1	17.6
6H	17.0	17.5	17.5	18.0	18.5	16.4	16.9	16.9	17.4	17.9
8H	17.3	17.7	17.8	18.2	18.8	16.5	16.9	17.0	17.4	18.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.5 / - 0.7					+ 0.6 / - 1.1				
1.5H	+ 0.5 / - 0.7					+ 0.4 / - 1.2				
2.0H	+ 1.4 / - 1.4					+ 1.2 / - 2.4				

CIE Pub.117, 3997 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.8)
Area: 0.3304 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-02-06

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:230.36V I:0.1348A P:30.135W PF:0.9703 Freq:50.00Hz Lamp Flux:3997.07x1 lm		
NAME: LED612-W34KA (30W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3304	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

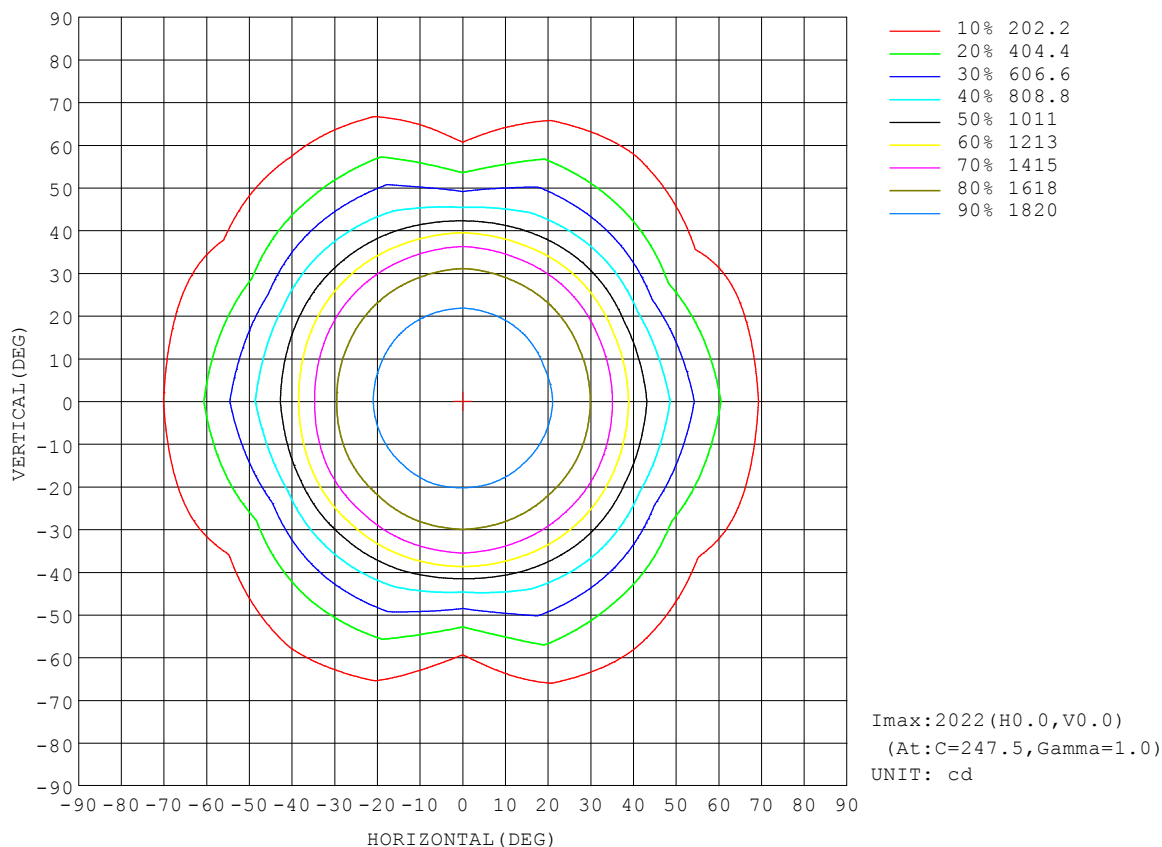
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	67	57	51	66	56	51	65	56	50	45
0.80	76	67	61	75	66	60	73	65	60	54
1.00	84	75	69	83	74	68	80	75	68	61
1.25	90	81	76	88	81	75	86	79	74	68
1.50	94	86	81	92	85	80	89	83	79	72
2.00	100	93	88	98	91	87	94	89	85	77
2.50	103	96	91	100	95	90	96	92	88	80
3.00	105	100	95	103	98	94	99	95	91	83
4.00	108	104	100	106	102	98	101	98	95	86
5.00	110	106	103	107	104	101	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: 25.3°C
Operators: DAMIN
Test Date: 2025-02-06

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:230.36V I:0.1348A P:30.135W PF:0.9703 Freq:50.00Hz Lamp Flux:3997.07x1 lm		
NAME: LED612-W34KA (30W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3304	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

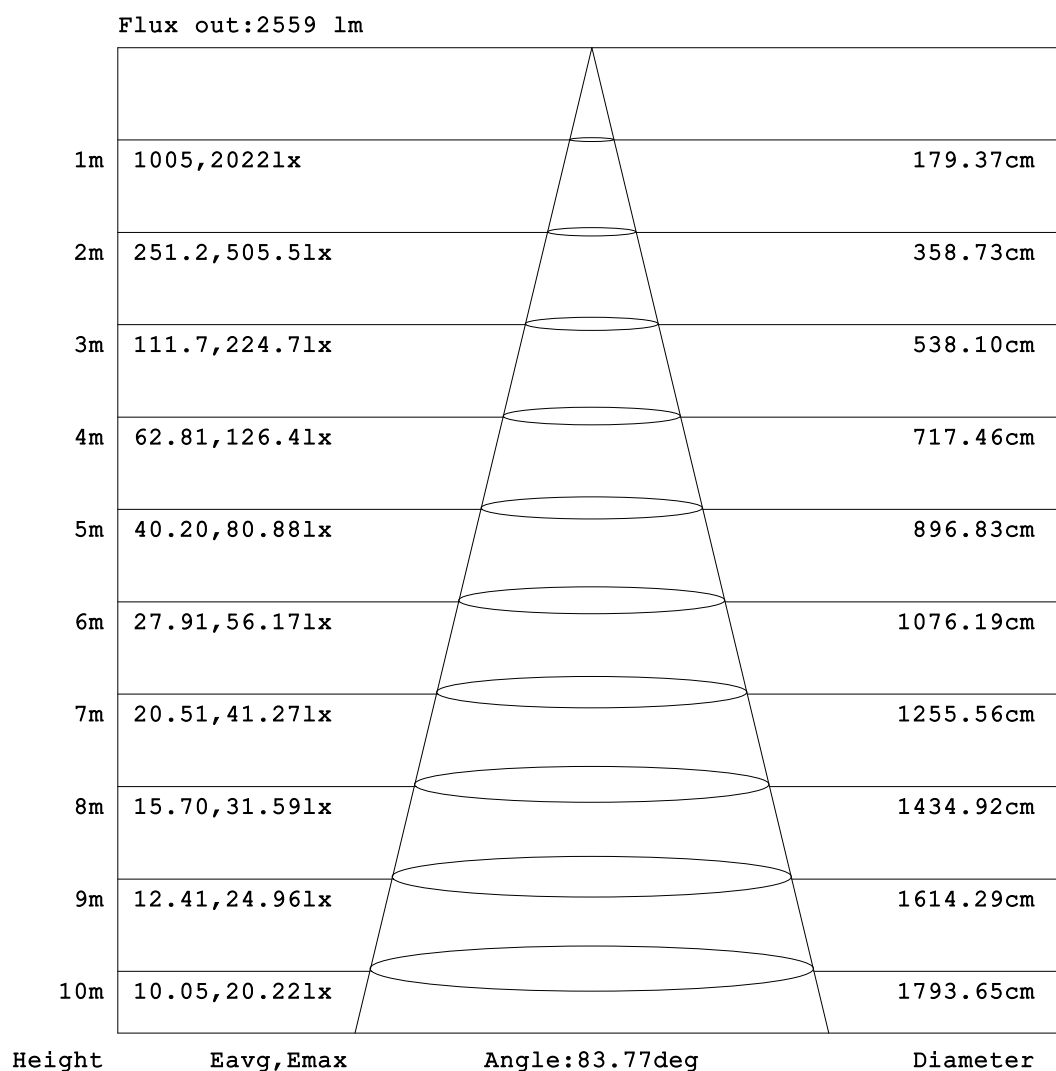


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-02-06

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:230.36V I:0.1348A P:30.135W PF:0.9703 Freq:50.00Hz Lamp Flux:3997.07x1 lm		
NAME: LED612-W34KA (30W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3304	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:



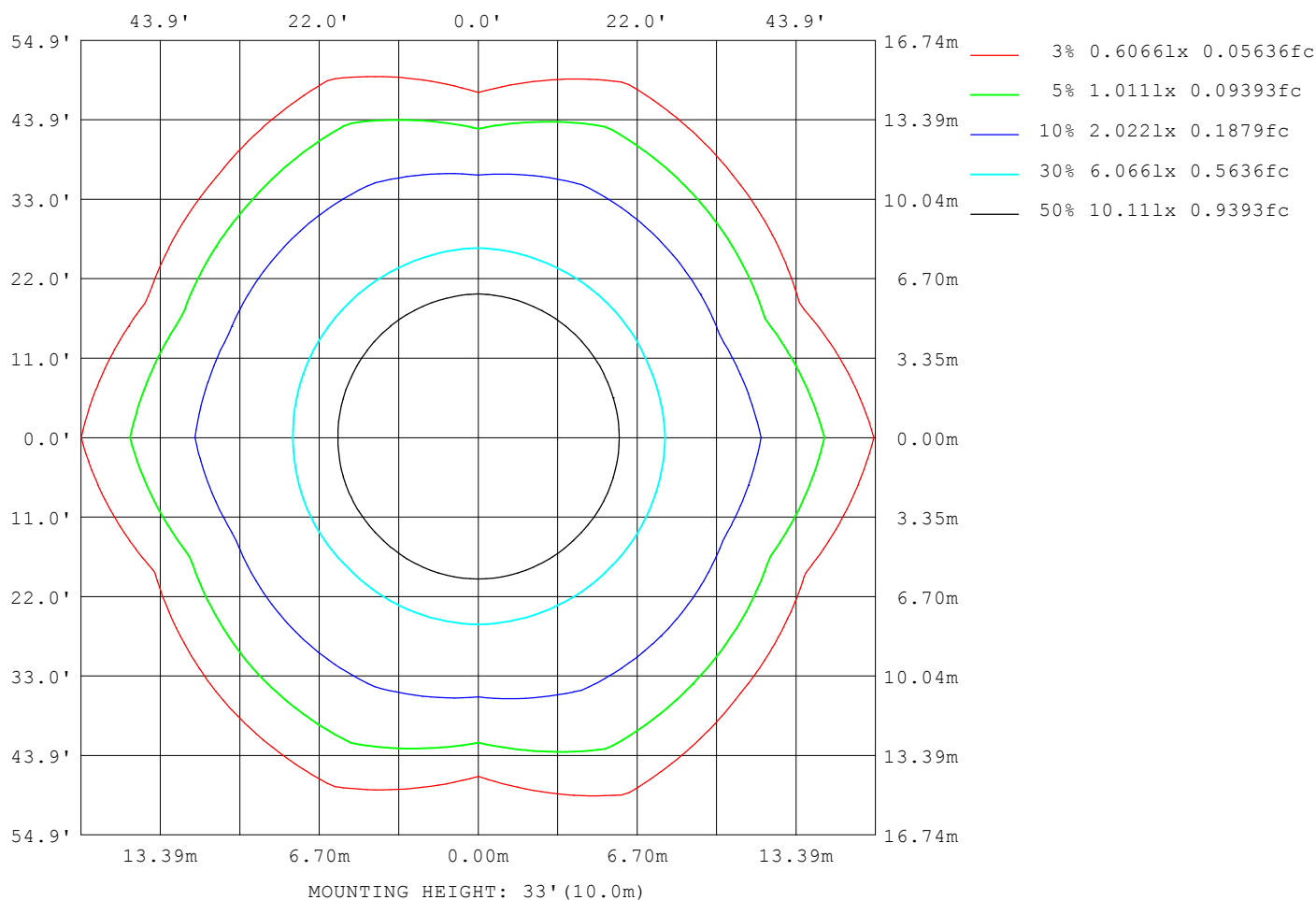
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2025-02-06

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:230.36V I:0.1348A P:30.135W PF:0.9703 Freq:50.00Hz Lamp Flux:3997.07x1 lm		
NAME: LED612-W34KA (30W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3304	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-02-06

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:230.36V I:0.1348A P:30.135W PF:0.9703 Freq:50.00Hz Lamp Flux:3997.07x1 lm		
NAME: LED612-W34KA (30W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3304	SERIAL No.: 1
MFR.:	SUR.:	Shielding Angle:

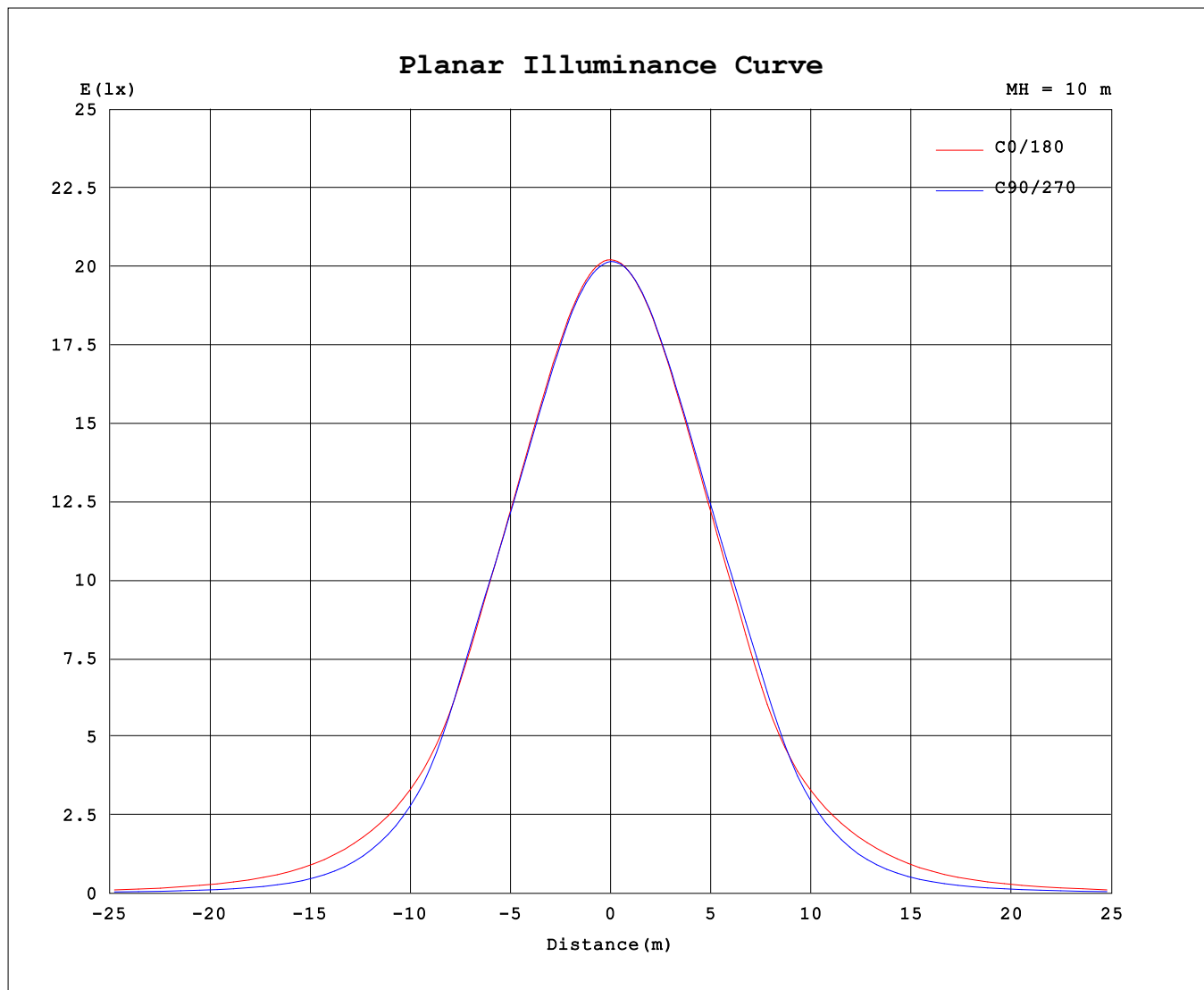
AvgL	cd/m2
L_0~180 (65) av	2122
L_0~180 (75) av	1500
L_0~180 (85) av	1818
L_90~270 (65) av	975
L_90~270 (75) av	1021
L_90~270 (85) av	544
L_45 (65) av	1524
L_45 (75) av	1457
L_45 (85) av	1317

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2025-02-06

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: 2025-02-06

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

Test:U:230.36V I:0.1348A P:30.135W PF:0.9703 Freq:50.00Hz Lamp Flux:3997.07x1 lm		
NAME: LED612-W34KA (30W 4000K)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.3304	SERIAL No.: 1
MFR.:	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	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017			
5	2006	2006	2005	2004	2002	2003	2003	2006	2005	2007	2008	2011	2011	2011	2009	2008			
10	1972	1973	1969	1971	1968	1970	1969	1972	1971	1974	1978	1980	1980	1977	1974	1971			
15	1913	1911	1906	1907	1905	1910	1909	1914	1913	1916	1922	1924	1924	1919	1917	1911			
20	1834	1829	1824	1826	1825	1830	1827	1835	1833	1837	1844	1849	1851	1846	1840	1834			
25	1738	1733	1725	1730	1732	1735	1728	1737	1733	1738	1748	1755	1762	1753	1747	1739			
30	1611	1609	1600	1610	1618	1612	1599	1609	1599	1607	1620	1634	1649	1632	1622	1613			
35	1416	1417	1406	1420	1444	1422	1393	1410	1397	1412	1427	1449	1480	1446	1428	1410			
40	1151	1123	1118	1120	1120	1117	1092	1113	1129	1138	1140	1150	1177	1143	1129	1107			
45	936	842	854	856	790	840	827	820	924	883	874	885	832	865	843	819			
50	759	597	644	685	533	658	620	576	763	638	668	700	563	687	628	568			
55	577	389	448	523	321	490	438	372	589	412	463	541	349	520	438	362			
60	417	249	298	380	189	344	299	240	422	269	305	384	214	370	293	233			
65	292	172	214	254	126	236	214	166	300	186	210	266	146	245	212	165			
70	189	143	169	165	105	162	166	133	204	149	160	175	121	165	171	138			
75	123	112	120	100	83.3	101	126	115	133	125	128	111	91.2	107	124	112			
80	84.4	77.8	70.4	56.2	50.5	56.4	76.3	88.7	97.6	90.5	84.6	65.4	56.8	59.5	73.3	77.5			
85	49.3	44.6	34.8	22.1	14.3	22.6	38.4	49.9	55.4	49.5	43.0	27.3	17.0	22.4	35.5	43.2			
90	32.3	28.6	20.1	9.05	2.27	9.04	22.1	32.4	36.8	32.5	23.9	10.2	1.70	7.79	19.4	27.6			
95	25.4	22.9	16.8	8.68	3.00	8.77	19.1	27.0	30.0	27.1	19.8	9.29	2.19	7.29	15.8	22.3			
100	24.2	22.5	17.4	9.89	4.26	9.92	19.3	26.1	28.4	26.2	19.7	10.0	3.10	8.30	16.3	21.8			
105	24.5	23.1	18.4	11.4	5.80	11.1	19.5	25.9	27.6	25.7	19.7	10.8	4.33	9.52	17.1	22.2			
110	25.3	24.0	19.3	13.1	7.66	12.5	19.5	25.9	27.3	25.4	20.0	11.9	5.88	11.0	18.1	23.1			
115	26.3	24.6	20.1	14.9	9.75	14.1	20.0	25.0	27.4	24.5	20.4	13.2	7.69	12.7	19.0	23.3			
120	27.4	25.2	22.1	16.6	11.8	15.7	21.6	25.8	27.6	24.9	20.8	14.6	9.73	14.3	20.1	24.0			
125	28.7	26.8	23.7	18.5	14.3	17.6	22.9	27.1	28.3	26.1	21.8	15.9	11.8	15.9	21.6	25.8			
130	29.9	28.3	25.2	20.2	16.4	19.5	24.4	28.0	28.9	26.9	23.0	17.7	14.0	17.8	23.1	27.2			
135	30.9	29.5	26.5	21.7	18.6	21.3	25.7	29.1	29.6	27.8	24.2	19.4	16.2	19.5	24.4	28.3			
140	31.7	30.4	27.5	23.0	20.6	22.8	26.9	29.9	30.2	28.5	25.3	21.1	18.4	21.0	25.7	29.2			
145	32.1	31.2	27.7	24.1	22.6	23.8	27.9	30.5	30.5	29.0	26.3	22.1	20.5	21.7	26.6	29.8			
150	32.6	31.9	28.1	24.7	24.8	25.5	28.9	31.1	30.8	29.5	27.3	23.5	22.6	23.0	27.4	30.5			
155	33.0	32.5	28.9	26.6	27.0	27.1	29.8	31.6	31.0	30.0	28.1	25.1	24.8	24.7	28.2	31.4			
160	33.3	33.4	29.1	28.4	28.9	28.9	29.7	32.2	31.4	30.7	28.4	27.1	27.1	26.7	28.2	32.4			
165	33.1	31.8	29.6	29.9	30.6	30.3	30.4	31.4	30.8	30.1	29.4	29.0	29.3	28.8	28.9	31.5			
170	32.8	30.8	30.8	31.4	32.0	31.8	31.6	31.7	31.2	30.7	30.8	30.9	31.2	30.8	30.6	31.3			
175	32.5	31.5	31.9	32.6	32.8	32.7	32.5	32.1	31.8	31.6	32.2	32.3	32.6	32.5	32.2	31.7			
180	33.3	32.0	32.6	32.8	33.0	32.9	32.9	32.4	33.2	31.9	32.6	32.8	33.0	33.0	32.9	32.4			

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