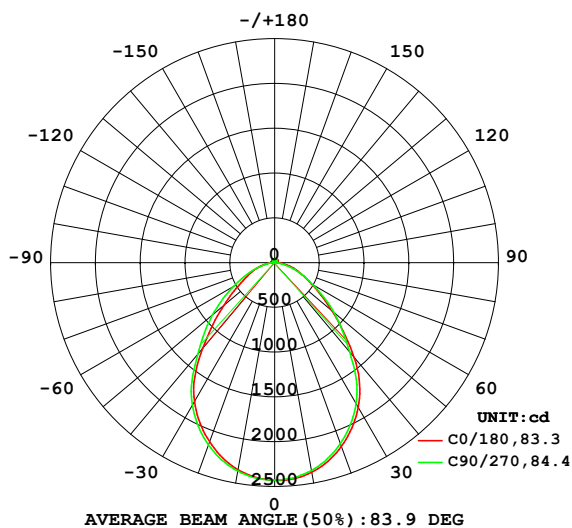


LUMINAIRE PHOTOMETRIC TEST REPORT

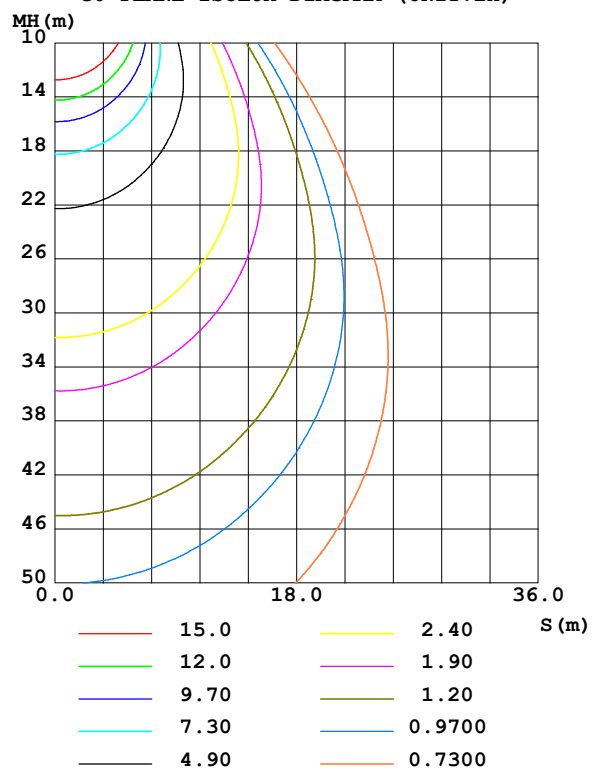
Test:U:230.72V I:0.1600A P:36.132W PF:0.9790 Freq:50.00Hz Lamp Flux:4948.75x1 lm		
NAME: LED615-W34KA (3000K 38W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 136.96 lm/W			
MODEL		I _{max} (cd)	2433	S/MH(C0/180)	1.12
NOMINAL POWER(W)	36.1	LOR(%)	100.0	S/MH(C90/270)	1.14
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	4948.7	η UP,DN(C0-180)	1.8,48.3
NOMINAL FLUX(lm)	4948.75	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.8,48.1
LAMPS INSIDE	1	η up (%)	3.6	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230	η down (%)	96.4	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:2025-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
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
10	2377	2367	2358	2354	2349	2354	2364	2369	0- 10	228.7	228.7	4.62
20	2182	2165	2148	2137	2127	2141	2164	2171	10- 20	639.9	868.6	17.6
30	1867	1841	1819	1804	1790	1802	1839	1850	20- 30	921.5	1790	36.2
40	1382	1329	1307	1291	1253	1283	1336	1353	30- 40	991.9	2782	56.2
50	834.6	818.5	865.2	839.5	740.2	787.3	904.7	888.8	40- 50	816.7	3599	72.7
60	473.4	453.1	493.5	487.1	416.4	436.9	523.9	516.2	50- 60	573.1	4172	84.3
70	274.4	258.0	248.7	264.4	243.4	245.8	269.0	279.7	60- 70	355.1	4527	91.5
80	128.0	107.6	84.07	101.9	107.5	98.95	92.39	113.8	70- 80	188.2	4715	95.3
90	36.55	20.78	3.382	27.76	38.97	23.28	2.815	24.24	80- 90	57.51	4773	96.4
100	32.22	20.77	6.065	28.15	37.72	23.97	5.321	23.57	90-100	23.66	4796	96.9
110	33.46	23.26	10.06	30.28	38.48	26.15	9.003	25.46	100-110	24.95	4821	97.4
120	34.60	26.09	14.52	31.63	38.21	28.11	13.14	26.84	110-120	25.66	4847	97.9
130	36.89	29.61	19.89	34.61	40.60	30.88	18.02	30.29	120-130	25.59	4873	98.5
140	38.77	31.96	25.07	36.45	41.07	33.15	22.83	32.76	130-140	24.43	4897	99
150	39.47	32.73	30.22	37.59	40.69	34.82	27.94	33.37	140-150	21.14	4918	99.4
160	39.53	35.00	35.24	38.12	39.59	35.60	33.44	34.97	150-160	16.39	4935	99.7
170	38.53	36.89	38.82	38.49	38.17	38.05	37.96	35.97	160-170	10.47	4945	99.9
180	40.34	39.75	39.99	39.78	40.32	39.78	40.03	39.75	170-180	3.684	4949	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3218.8 lm

%lum = 65.0%

%lamp = 65.0%

Conical surface Flux(120deg): 4171.9 lm

%lum = 84.3%

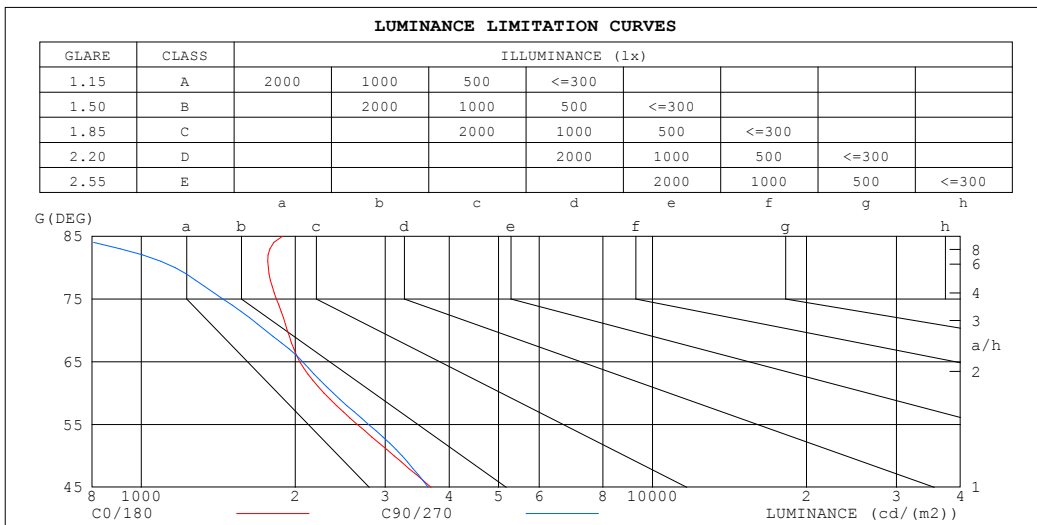
%lamp = 84.3%

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.72V I:0.1600A P:36.132W PF:0.9790 Freq:50.00Hz Lamp Flux:4948.75x1 lm		
NAME: LED615-W34KA (3000K 38W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1888	702
80	1772	1164
75	1838	1443
70	1929	1749
65	2040	2066
60	2277	2373
55	2645	2783
50	3122	3236
45	3687	3641

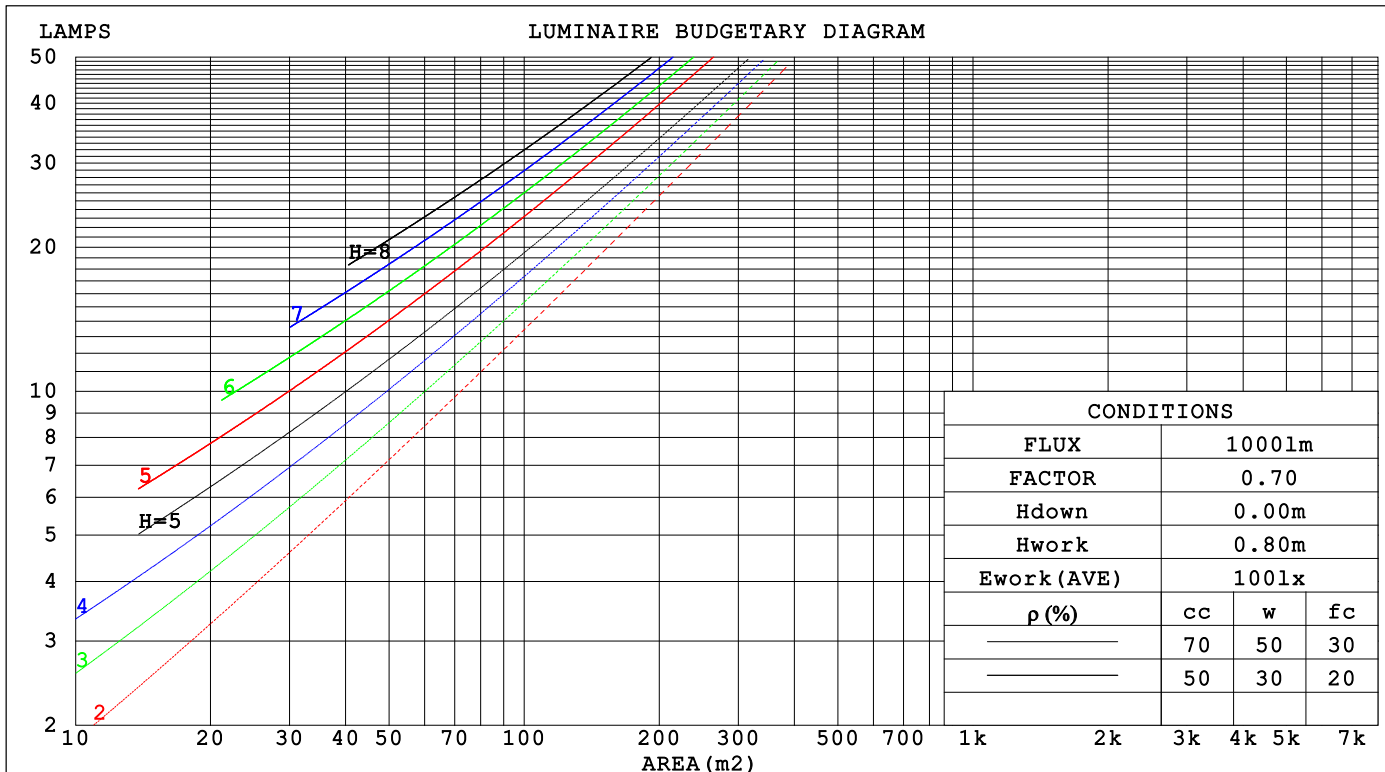
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.72V I:0.1600A P:36.132W PF:0.9790 Freq:50.00Hz Lamp Flux:4948.75x1 lm		
NAME: LED615-W34KA (3000K 38W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	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	.96
1.0	1.05	1.02	.98	1.03	.99	.96	.98	.95	.93	.94	.91	.89	.89	.88	.86	.84
2.0	.94	.88	.83	.92	.86	.82	.88	.83	.79	.84	.80	.77	.80	.77	.75	.73
3.0	.84	.77	.71	.82	.75	.70	.79	.73	.69	.76	.71	.67	.73	.69	.65	.63
4.0	.75	.68	.62	.74	.67	.61	.71	.65	.60	.68	.63	.59	.66	.61	.58	.56
5.0	.68	.60	.54	.67	.59	.54	.65	.58	.53	.62	.57	.52	.60	.55	.51	.49
6.0	.62	.54	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.55	.50	.46	.44
7.0	.57	.49	.43	.56	.48	.43	.54	.47	.43	.52	.46	.42	.51	.46	.41	.40
8.0	.52	.45	.39	.52	.44	.39	.50	.43	.39	.49	.42	.38	.47	.42	.38	.36
9.0	.48	.41	.36	.48	.40	.35	.46	.40	.35	.45	.39	.35	.44	.38	.34	.33
10.0	.45	.38	.33	.44	.37	.32	.43	.37	.32	.42	.36	.32	.41	.35	.32	.30



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.72V I:0.1600A P:36.132W PF:0.9790 Freq:50.00Hz Lamp Flux:4948.75x1 lm		
NAME: LED615-W34KA (3000K 38W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	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	.265	.150	.048	.256	.146	.046	.241	.139	.044	.228	.131	.042	.215	.125	.040		
2.0	.251	.138	.042	.244	.135	.041	.231	.129	.040	.219	.123	.038	.208	.117	.037		
3.0	.235	.125	.038	.229	.123	.037	.218	.118	.036	.207	.113	.035	.197	.109	.034		
4.0	.220	.114	.034	.214	.112	.033	.204	.108	.032	.194	.104	.031	.185	.101	.031		
5.0	.205	.105	.030	.201	.103	.030	.191	.100	.029	.183	.096	.029	.175	.093	.028		
6.0	.192	.096	.028	.188	.095	.027	.180	.092	.027	.172	.089	.026	.165	.087	.026		
7.0	.181	.089	.025	.177	.088	.025	.169	.086	.025	.162	.083	.024	.156	.081	.024		
8.0	.170	.083	.023	.166	.082	.023	.160	.080	.023	.153	.078	.022	.147	.076	.022		
9.0	.160	.078	.022	.157	.077	.021	.151	.075	.021	.145	.073	.021	.140	.071	.020		
10.0	.152	.073	.020	.149	.072	.020	.143	.070	.020	.138	.068	.019	.133	.067	.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	.218	.218	.218	.186	.186	.186	.127	.127	.127	.073	.073	.073	.023	.023	.023		
1.0	.204	.184	.165	.175	.158	.142	.120	.109	.098	.069	.063	.057	.022	.020	.018		
2.0	.194	.160	.130	.166	.137	.113	.114	.095	.079	.066	.055	.046	.021	.018	.015		
3.0	.185	.142	.107	.159	.122	.093	.109	.085	.065	.063	.050	.038	.020	.016	.013		
4.0	.177	.128	.090	.152	.111	.079	.105	.077	.055	.061	.045	.033	.019	.015	.011		
5.0	.170	.117	.079	.146	.102	.068	.101	.071	.048	.058	.042	.029	.019	.014	.009		
6.0	.163	.109	.070	.140	.094	.061	.097	.066	.043	.056	.039	.026	.018	.013	.008		
7.0	.157	.102	.064	.135	.088	.056	.093	.062	.039	.054	.037	.023	.017	.012	.008		
8.0	.151	.096	.059	.130	.083	.051	.090	.059	.036	.052	.035	.022	.017	.011	.007		
9.0	.145	.091	.055	.125	.079	.048	.086	.056	.034	.050	.033	.020	.016	.011	.007		
10.0	.140	.087	.052	.120	.076	.045	.084	.053	.032	.049	.031	.019	.016	.010	.006		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.72V I:0.1600A P:36.132W PF:0.9790 Freq:50.00Hz Lamp Flux:4948.75x1 lm										
NAME: LED615-W34KA (3000K 38W)					TYPE:			WEIGHT:		
SPEC.:					DIM.: 0.41588			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	15.8	17.1	16.1	17.3	17.6	15.3	16.6	15.6	16.8	17.1
3H	16.7	17.9	17.0	18.2	18.5	16.1	17.3	16.4	17.6	17.9
4H	17.1	18.2	17.4	18.5	18.8	16.4	17.5	16.8	17.8	18.2
6H	17.4	18.5	17.8	18.8	19.1	16.6	17.6	16.9	18.0	18.3
8H	17.5	18.5	17.9	18.9	19.2	16.6	17.6	17.0	18.0	18.3
12H	17.6	18.6	18.0	19.0	19.3	16.6	17.6	17.0	17.9	18.3
4H 2H	16.0	17.2	16.4	17.5	17.8	15.6	16.7	16.0	17.0	17.4
3H	17.2	18.1	17.6	18.5	18.9	16.6	17.6	17.0	17.9	18.3
4H	17.7	18.6	18.1	19.0	19.4	17.0	17.9	17.5	18.3	18.7
6H	18.1	18.9	18.6	19.3	19.8	17.3	18.1	17.8	18.5	18.9
8H	18.3	19.1	18.8	19.5	19.9	17.4	18.1	17.8	18.5	19.0
12H	18.5	19.2	19.0	19.6	20.1	17.4	18.1	17.9	18.5	19.0
8H 4H	17.8	18.5	18.3	19.0	19.4	17.2	17.9	17.7	18.4	18.8
6H	18.4	19.0	18.9	19.5	20.0	17.6	18.2	18.1	18.7	19.2
8H	18.7	19.2	19.2	19.7	20.2	17.7	18.3	18.2	18.7	19.3
12H	18.9	19.4	19.4	19.9	20.4	17.8	18.2	18.3	18.7	19.3
12H 4H	17.8	18.5	18.3	18.9	19.4	17.2	17.9	17.7	18.3	18.8
6H	18.4	18.9	18.9	19.4	20.0	17.7	18.2	18.2	18.7	19.2
8H	18.7	19.2	19.2	19.7	20.2	17.8	18.3	18.3	18.8	19.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.3 / - 0.5					+ 0.4 / - 0.5				
1.5H	+ 0.1 / - 0.4					+ 0.2 / - 0.2				
2.0H	+ 0.6 / - 0.7					+ 0.8 / - 0.8				

CIE Pub.117, 4949 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.6)
Area: 0.41588 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.72V I:0.1600A P:36.132W PF:0.9790 Freq:50.00Hz Lamp Flux:4948.75x1 lm		
NAME: LED615-W34KA (3000K 38W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

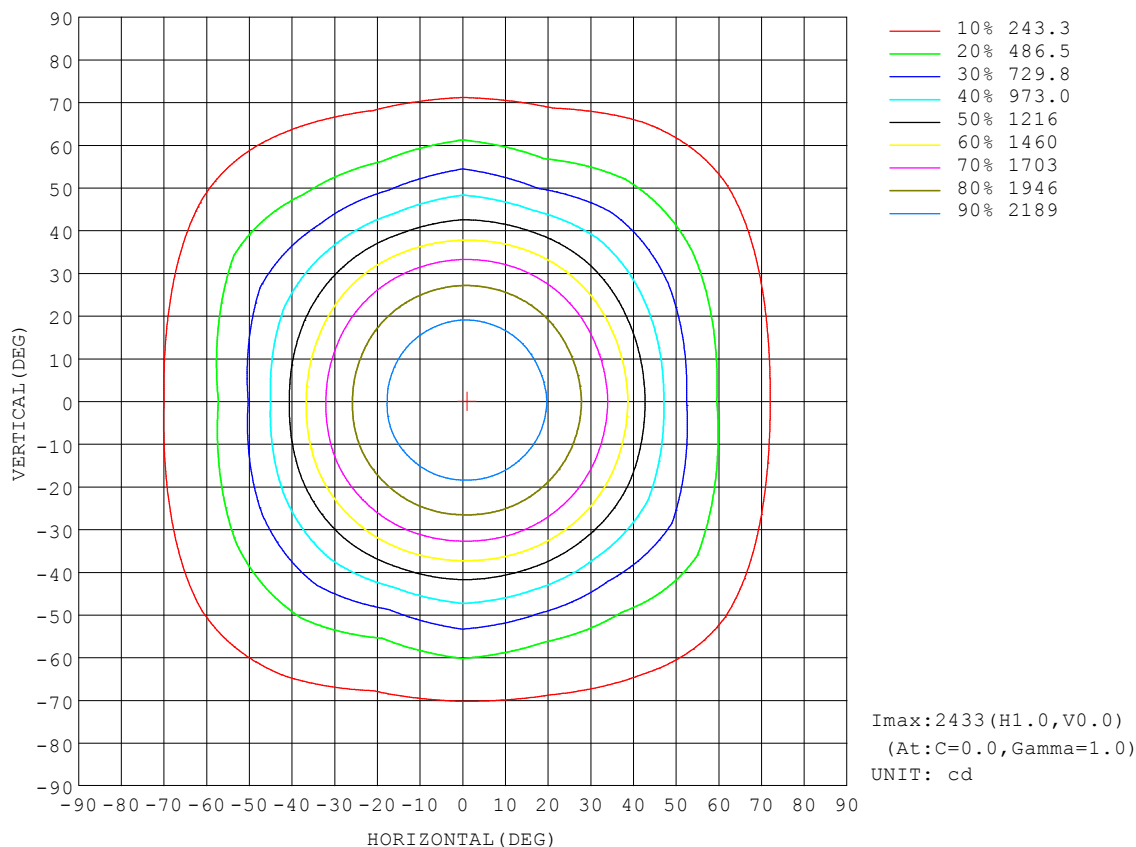
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	54	48	63	54	48	62	53	47	42
0.80	74	64	57	73	63	57	71	62	57	51
1.00	82	72	66	80	71	65	78	72	65	58
1.25	88	79	73	87	78	72	84	77	71	65
1.50	92	84	78	91	83	77	88	81	76	69
2.00	98	91	85	96	90	85	93	87	83	75
2.50	101	95	90	99	93	89	95	90	86	78
3.00	104	98	94	102	97	92	98	93	90	81
4.00	108	103	99	105	101	97	100	97	94	85
5.00	110	105	102	107	103	100	102	99	97	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: 2025-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 12.020m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.72V I:0.1600A P:36.132W PF:0.9790 Freq:50.00Hz Lamp Flux:4948.75x1 lm		
NAME: LED615-W34KA (3000K 38W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

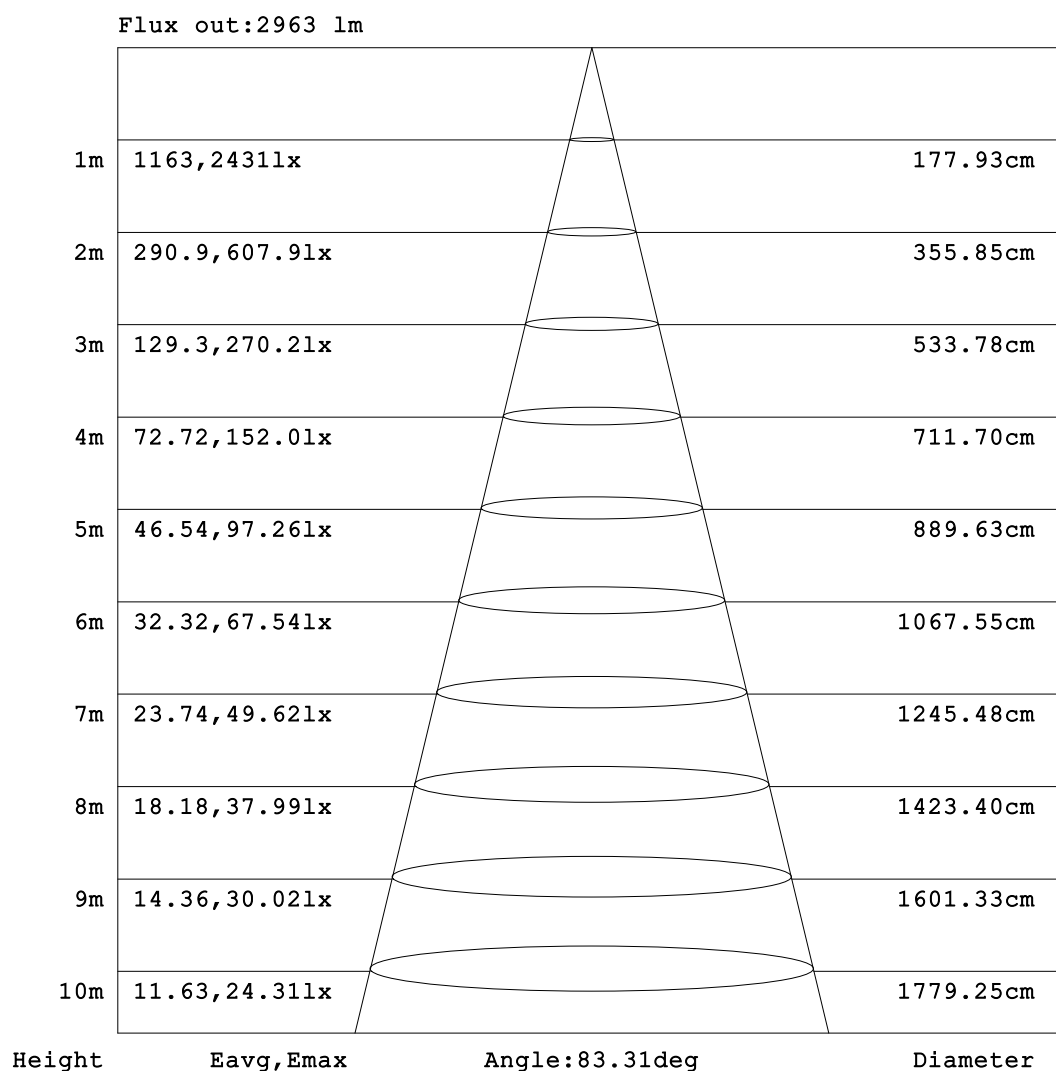


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.72V I:0.1600A P:36.132W PF:0.9790 Freq:50.00Hz Lamp Flux:4948.75x1 lm		
NAME: LED615-W34KA (3000K 38W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



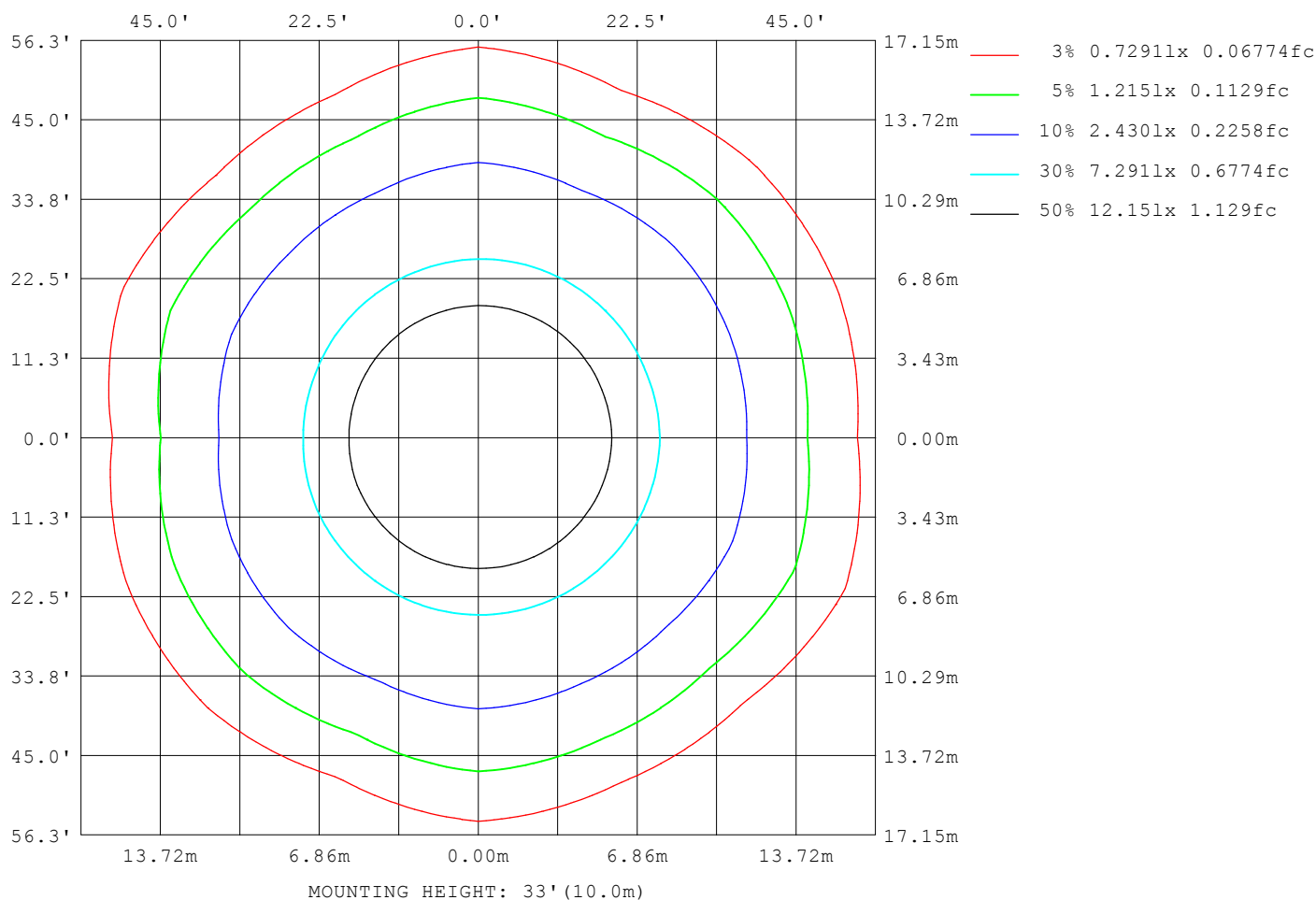
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2025-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:12.020m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.72V I:0.1600A P:36.132W PF:0.9790 Freq:50.00Hz Lamp Flux:4948.75x1 lm		
NAME: LED615-W34KA (3000K 38W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	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:2025-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:12.020m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.72V I:0.1600A P:36.132W PF:0.9790 Freq:50.00Hz Lamp Flux:4948.75x1 lm		
NAME: LED615-W34KA (3000K 38W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

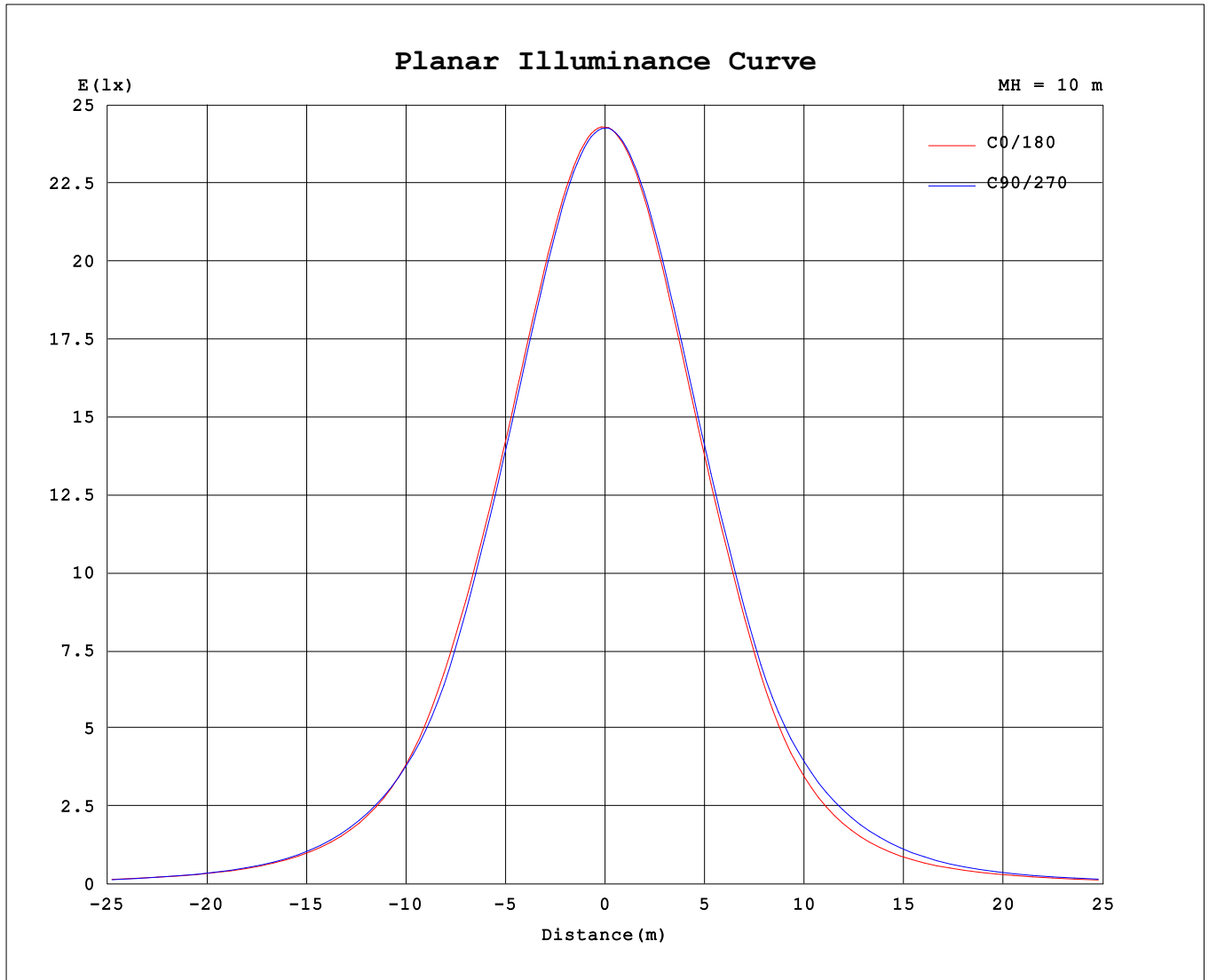
AvgL	cd/m2
L_0~180 (65) av	1928
L_0~180 (75) av	1723
L_0~180 (85) av	1747
L_90~270 (65) av	2129
L_90~270 (75) av	1497
L_90~270 (85) av	758
L_45 (65) av	2012
L_45 (75) av	1668
L_45 (85) av	1342

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
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: 2025-04-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 12.020m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.72V I:0.1600A P:36.132W PF:0.9790 Freq:50.00Hz Lamp Flux:4948.75x1 lm		
NAME: LED615-W34KA (3000K 38W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
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	2430	2430	2428	2429	2427	2428	2428	2428	2430	2430	2428	2429	2427	2428	2428	2428			
5	2423	2420	2415	2414	2410	2409	2407	2407	2408	2406	2409	2412	2413	2415	2417	2417			
10	2377	2374	2367	2363	2358	2356	2354	2352	2349	2350	2354	2358	2364	2367	2369	2371			
15	2296	2291	2281	2275	2269	2266	2261	2260	2253	2257	2264	2272	2281	2284	2287	2287			
20	2182	2177	2165	2158	2148	2143	2137	2136	2127	2130	2141	2153	2164	2169	2171	2173			
25	2039	2032	2019	2011	1999	1993	1985	1985	1974	1976	1988	2003	2017	2022	2027	2027			
30	1867	1856	1841	1833	1819	1811	1804	1804	1790	1788	1802	1820	1839	1847	1850	1851			
35	1656	1639	1617	1605	1591	1584	1576	1579	1556	1551	1570	1589	1613	1626	1630	1636			
40	1382	1365	1329	1312	1307	1290	1291	1286	1253	1266	1283	1298	1336	1344	1353	1357			
45	1084	1106	1052	1047	1071	1018	1048	1030	973	1027	1019	1033	1110	1077	1100	1086			
50	835	902	818	817	865	773	840	821	740	831	787	801	905	826	889	872			
55	631	724	612	607	664	572	649	633	555	657	587	594	707	613	690	683			
60	473	560	453	443	494	420	487	482	416	503	437	436	524	454	516	517			
65	359	412	341	329	363	310	361	364	319	372	330	322	385	335	382	389			
70	274	291	258	246	249	233	264	270	243	260	246	237	269	246	280	291			
75	198	196	180	169	155	157	176	185	173	174	170	164	167	168	192	202			
80	128	124	108	93.7	84.1	89.1	102	111	107	107	99.0	91.0	92.4	97.4	114	124			
85	68.4	63.2	48.4	33.7	25.5	34.4	48.4	59.0	58.2	54.7	44.4	32.2	29.5	38.1	53.3	63.2			
90	36.6	31.7	20.8	8.60	3.38	14.0	27.8	37.4	39.0	34.4	23.3	9.57	2.81	11.8	24.2	33.0			
95	31.5	27.7	19.4	9.58	4.53	15.0	27.3	35.8	37.5	33.2	23.1	10.4	3.89	12.2	22.4	29.3			
100	32.2	28.7	20.8	11.2	6.06	16.4	28.1	36.3	37.7	33.6	24.0	11.8	5.32	13.7	23.6	30.1			
105	32.8	29.5	22.0	13.1	7.90	18.1	29.1	36.8	38.0	34.0	25.0	13.4	7.04	15.1	24.4	30.7			
110	33.5	30.4	23.3	15.2	10.1	19.9	30.3	37.4	38.5	34.7	26.1	15.2	9.00	16.8	25.5	31.3			
115	34.3	31.4	24.0	17.4	12.3	21.6	30.1	38.2	39.1	35.1	26.6	17.2	11.0	18.7	25.6	32.1			
120	34.6	31.4	26.1	19.3	14.5	23.2	31.6	37.5	38.2	34.8	28.1	18.8	13.1	20.3	26.8	31.9			
125	35.3	32.8	27.9	21.2	17.2	25.1	33.4	38.7	39.2	36.0	29.5	20.7	15.6	22.2	28.8	33.0			
130	36.9	34.5	29.6	23.2	19.9	26.9	34.6	40.0	40.6	37.1	30.9	22.7	18.0	24.0	30.3	34.6			
135	38.0	35.7	30.9	24.9	22.5	28.7	35.6	40.6	41.0	37.8	32.1	24.6	20.4	25.3	31.7	35.6			
140	38.8	36.7	32.0	26.6	25.1	30.2	36.5	40.9	41.1	38.3	33.1	26.6	22.8	26.7	32.8	36.5			
145	39.2	37.4	31.9	28.1	27.6	31.7	37.1	40.9	41.0	38.6	34.1	27.5	25.3	28.1	33.6	37.2			
150	39.5	38.0	32.7	29.2	30.2	32.8	37.6	40.8	40.7	38.7	34.8	29.5	27.9	29.4	33.4	37.6			
155	39.5	38.3	33.7	31.2	32.8	33.5	37.9	40.6	40.2	38.7	35.5	31.7	30.7	30.6	34.1	38.1			
160	39.5	37.8	35.0	33.7	35.2	35.4	38.1	40.2	39.6	38.6	35.6	34.0	33.4	32.3	35.0	38.6			
165	39.6	37.0	35.2	36.0	37.2	37.1	37.3	39.5	39.1	37.8	36.5	36.3	35.9	34.7	34.8	38.8			
170	38.5	36.5	36.9	38.0	38.8	38.8	38.5	38.6	38.2	38.0	38.1	38.2	38.0	37.1	36.0	36.5			
175	39.3	37.9	38.8	39.5	39.7	39.7	39.6	39.2	38.9	39.2	39.4	39.4	39.3	39.1	38.4	37.4			
180	40.3	39.2	39.7	39.9	40.0	39.9	39.8	38.8	40.3	39.2	39.8	39.9	40.0	39.9	39.7	38.7			

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