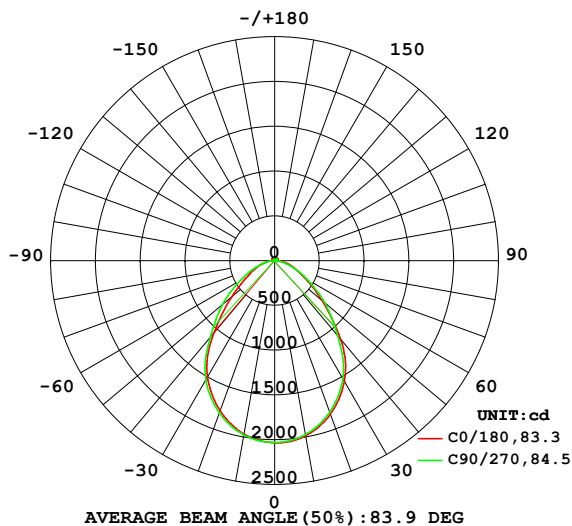


## LUMINAIRE PHOTOMETRIC TEST REPORT

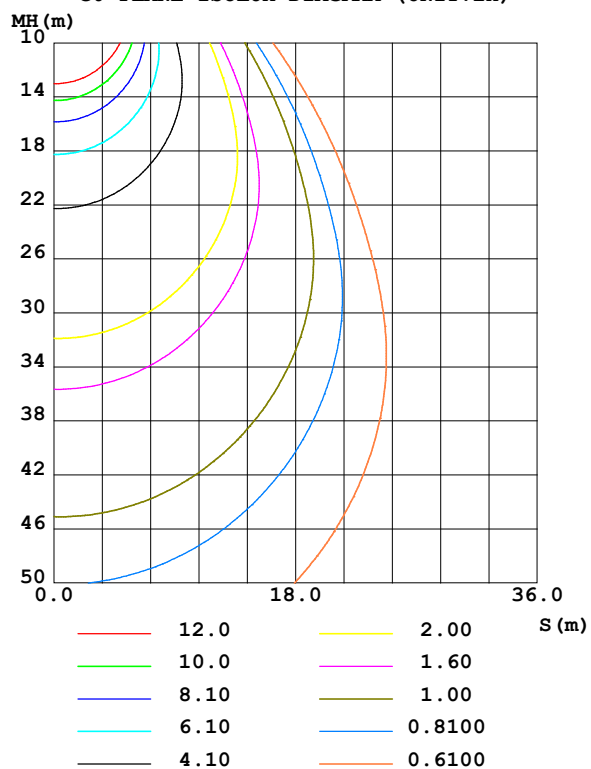
Test:U:230.74V I:0.1338A P:30.075W PF:0.9741 Freq:50.00Hz Lamp Flux:4139.83x1 lm		
NAME: LED615-W34KA (3000K 33W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.65 lm/W			
MODEL		I <sub>max</sub> (cd)	2035	S/MH(C0/180)	1.12
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.14
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	4139.8	η UP,DN(C0-180)	1.8,48.3
NOMINAL FLUX(lm)	4139.83	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.8,48.2
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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum
10	1987	1980	1973	1971	1966	1969	1977	1982	0- 10	191.3	191.3	4.62
20	1822	1811	1799	1789	1783	1791	1808	1816	10- 20	535.3	726.6	17.6
30	1557	1537	1524	1511	1503	1509	1537	1545	20- 30	770.7	1497	36.2
40	1148	1110	1096	1083	1056	1076	1117	1130	30- 40	829.6	2327	56.2
50	690.2	689.5	728.6	698.2	624.1	670.9	755.5	738.2	40- 50	683.2	3010	72.7
60	391.7	384.1	417.9	401.7	350.5	376.0	439.1	424.6	50- 60	479.4	3490	84.3
70	226.9	218.8	207.1	220.9	204.5	210.8	225.5	230.6	60- 70	297.3	3787	91.5
80	105.6	89.87	69.83	83.99	91.22	84.99	78.05	94.51	70- 80	157.5	3944	95.3
90	30.44	18.05	2.545	22.40	32.81	20.56	2.224	19.65	80- 90	48.15	3992	96.4
100	27.10	18.13	4.660	22.84	31.60	20.86	4.195	19.19	90-100	19.82	4012	96.9
110	28.12	20.20	7.939	24.52	32.21	22.37	7.303	20.87	100-110	20.89	4033	97.4
120	29.17	22.30	11.85	26.02	31.95	24.14	11.00	22.21	110-120	21.47	4055	97.9
130	30.98	25.14	16.35	28.38	33.96	26.41	15.27	25.12	120-130	21.45	4076	98.5
140	32.51	27.45	20.82	30.00	34.31	28.25	19.29	27.12	130-140	20.45	4097	99
150	33.06	27.89	25.12	31.03	33.99	29.57	23.67	27.62	140-150	17.72	4114	99.4
160	33.12	29.24	29.33	31.62	33.13	30.38	28.32	29.08	150-160	13.73	4128	99.7
170	32.15	30.80	32.33	32.08	32.02	31.86	31.93	30.25	160-170	8.770	4137	99.9
180	34.05	33.27	33.45	33.20	34.07	33.30	33.48	33.21	170-180	3.081	4140	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2692.3 lm

%lum = 65.0%

%lamp = 65.0%

Conical surface Flux(120deg): 3489.5 lm

%lum = 84.3%

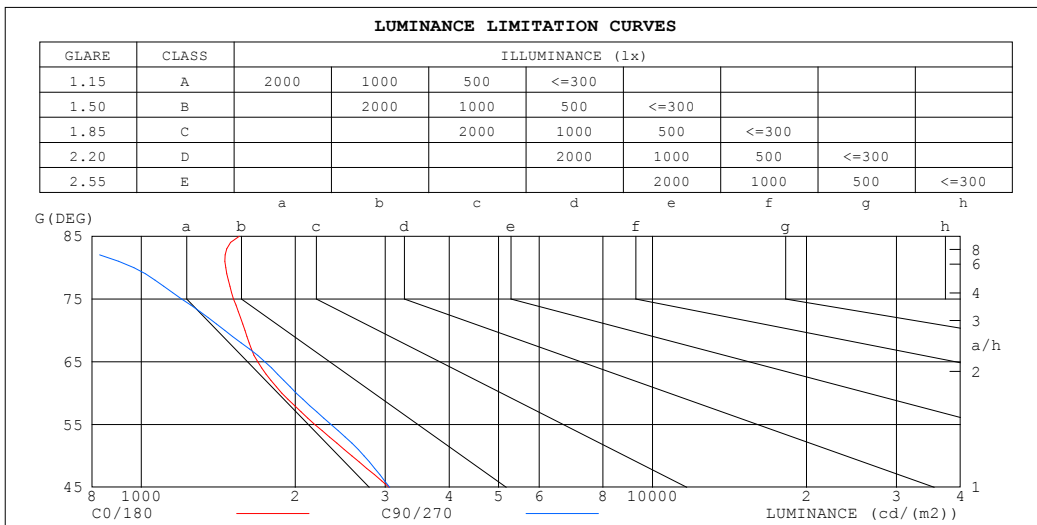
%lamp = 84.3%

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:230.74V I:0.1338A P:30.075W PF:0.9741 Freq:50.00Hz Lamp Flux:4139.83x1 lm		
NAME: LED615-W34KA (3000K 33W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



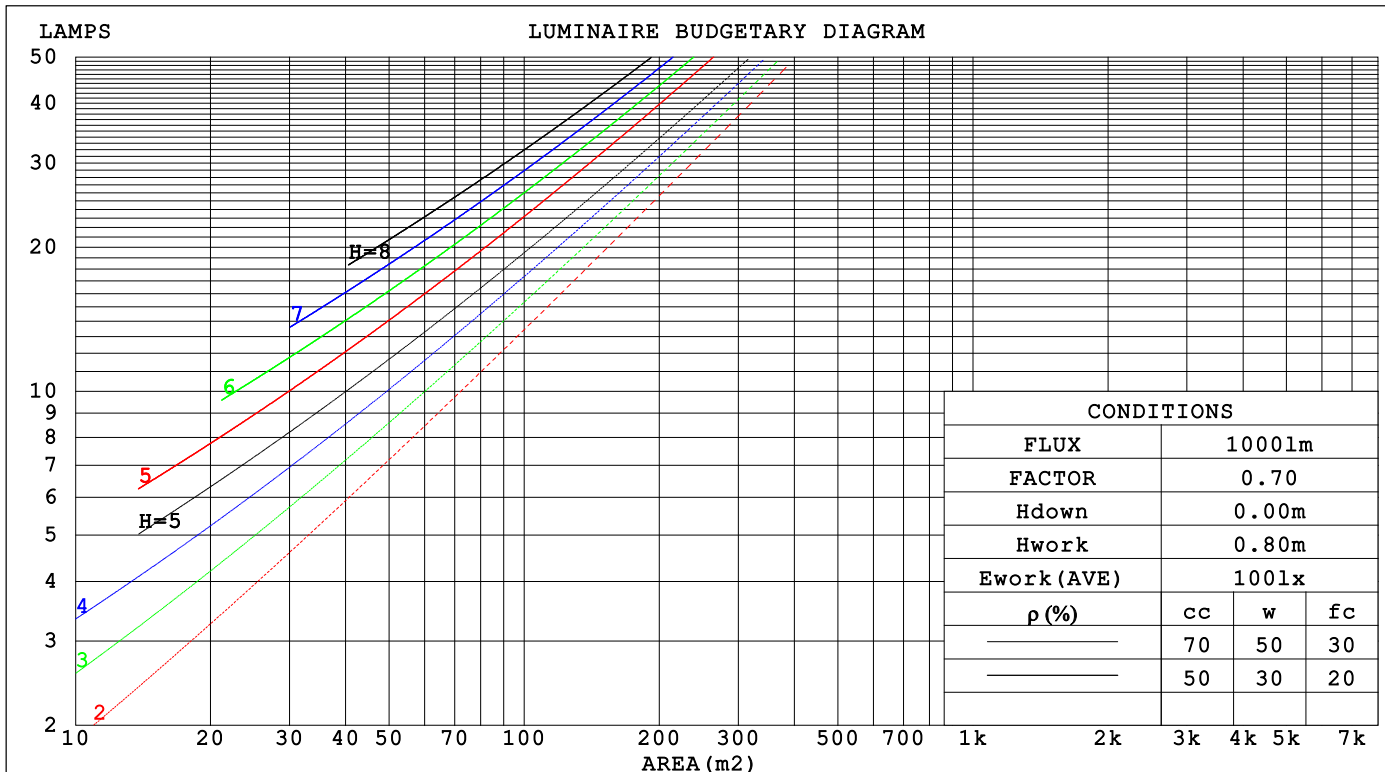
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: DAMIN  
Test Date: 2025-04-07

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:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.74V I:0.1338A P:30.075W PF:0.9741 Freq:50.00Hz Lamp Flux:4139.83x1 lm		
NAME: LED615-W34KA (3000K 33W)	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	.68	.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	.38	.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:230.74V I:0.1338A P:30.075W PF:0.9741 Freq:50.00Hz Lamp Flux:4139.83x1 lm		
NAME: LED615-W34KA (3000K 33W)	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	.205	.184	.165	.175	.158	.142	.120	.109	.098	.069	.063	.057	.022	.020	.019		
2.0	.194	.160	.130	.166	.137	.113	.114	.095	.079	.066	.055	.046	.021	.018	.015		
3.0	.186	.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	.069	.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	.087	.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:230.74V I:0.1338A P:30.075W PF:0.9741 Freq:50.00Hz Lamp Flux:4139.83x1 lm										
NAME: LED615-W34KA (3000K 33W)					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	15.1	16.4	15.4	16.7	16.9	14.6	15.9	14.9	16.2	16.5
3H	16.0	17.2	16.3	17.5	17.8	15.4	16.6	15.8	16.9	17.2
4H	16.4	17.5	16.7	17.8	18.2	15.7	16.9	16.1	17.2	17.5
6H	16.7	17.8	17.1	18.1	18.4	15.9	17.0	16.3	17.3	17.6
8H	16.8	17.9	17.2	18.2	18.6	15.9	17.0	16.3	17.3	17.7
12H	16.9	17.9	17.3	18.3	18.6	15.9	16.9	16.3	17.3	17.6
4H 2H	15.4	16.5	15.7	16.8	17.1	15.0	16.1	15.3	16.4	16.7
3H	16.5	17.5	16.9	17.8	18.2	16.0	16.9	16.4	17.3	17.7
4H	17.0	17.9	17.4	18.3	18.7	16.4	17.3	16.8	17.6	18.0
6H	17.5	18.3	17.9	18.7	19.1	16.6	17.4	17.1	17.8	18.3
8H	17.6	18.4	18.1	18.8	19.3	16.7	17.4	17.2	17.9	18.3
12H	17.8	18.5	18.3	18.9	19.4	16.7	17.4	17.2	17.8	18.3
8H 4H	17.1	17.9	17.6	18.3	18.8	16.6	17.3	17.0	17.7	18.2
6H	17.7	18.3	18.2	18.8	19.3	16.9	17.6	17.4	18.0	18.5
8H	18.0	18.5	18.5	19.0	19.5	17.1	17.6	17.6	18.1	18.6
12H	18.2	18.7	18.8	19.2	19.8	17.1	17.6	17.6	18.1	18.6
12H 4H	17.1	17.8	17.6	18.2	18.7	16.6	17.2	17.0	17.7	18.2
6H	17.7	18.3	18.3	18.8	19.3	17.0	17.5	17.5	18.0	18.5
8H	18.0	18.5	18.6	19.0	19.6	17.1	17.6	17.7	18.1	18.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.3 / - 0.5					+ 0.4 / - 0.4				
1.5H	+ 0.1 / - 0.4					+ 0.2 / - 0.2				
2.0H	+ 0.5 / - 0.7					+ 0.8 / - 0.8				

CIE Pub.117, 4140 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.9)  
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:230.74V I:0.1338A P:30.075W PF:0.9741 Freq:50.00Hz Lamp Flux:4139.83x1 lm		
NAME: LED615-W34KA (3000K 33W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

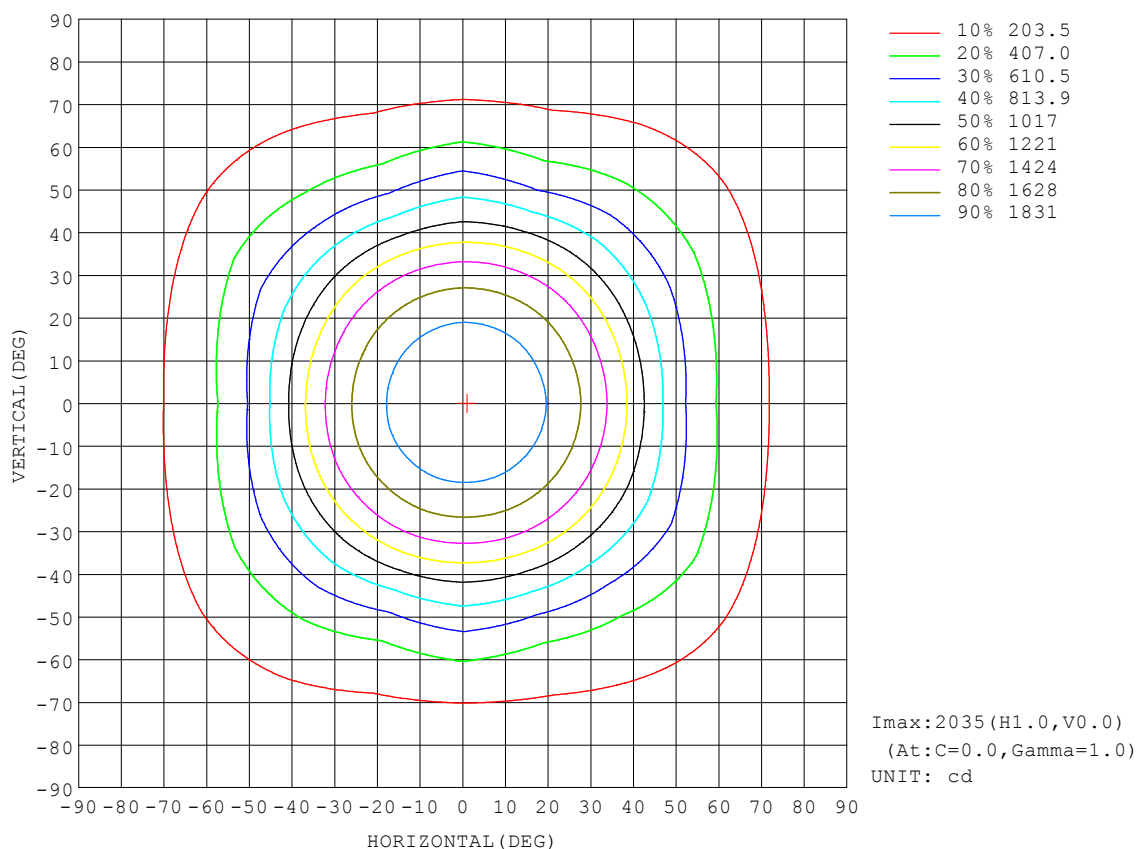
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	54	48	63	54	48	62	53	47	42
0.80	74	64	57	73	63	57	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	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: 2025-04-07

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:230.74V I:0.1338A P:30.075W PF:0.9741 Freq:50.00Hz Lamp Flux:4139.83x1 lm		
NAME: LED615-W34KA (3000K 33W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



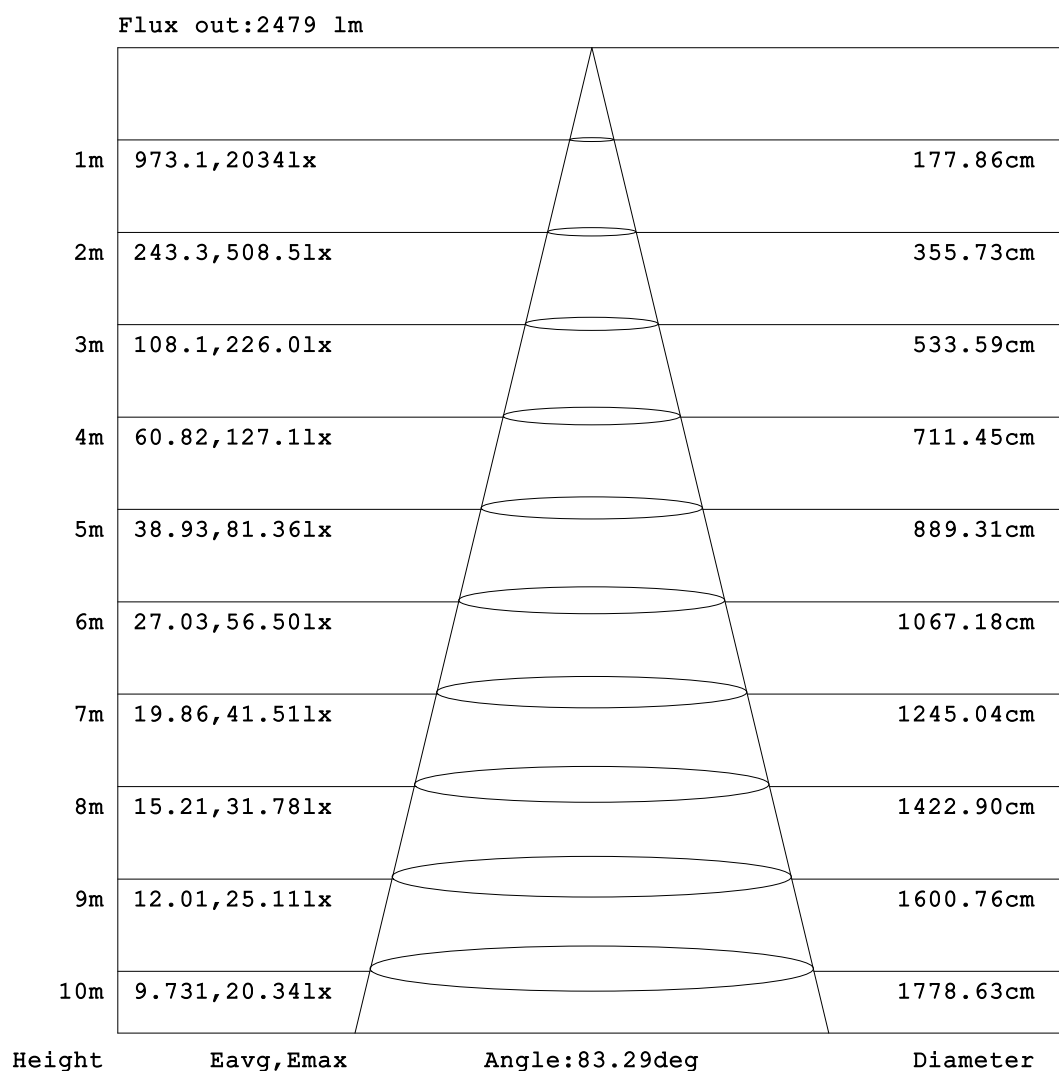
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:DAMIN  
Test Date:2025-04-07

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:230.74V I:0.1338A P:30.075W PF:0.9741 Freq:50.00Hz Lamp Flux:4139.83x1 lm		
NAME: LED615-W34KA (3000K 33W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

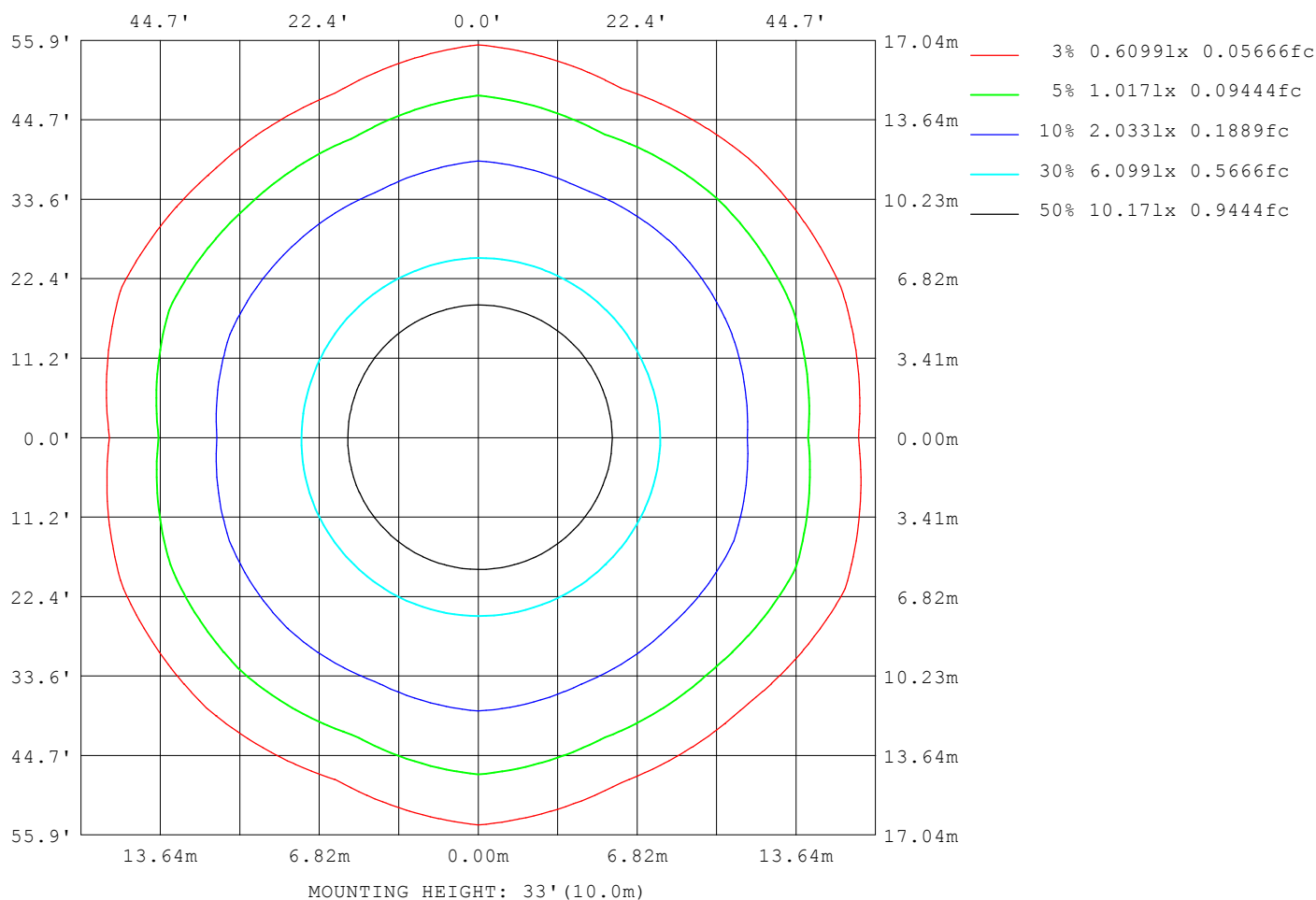


C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2025-04-07

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:

# ISOLUX DIAGRAM

Test:U:230.74V I:0.1338A P:30.075W PF:0.9741 Freq:50.00Hz Lamp Flux:4139.83x1 lm		
NAME: LED615-W34KA (3000K 33W)	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:230.74V I:0.1338A P:30.075W PF:0.9741 Freq:50.00Hz Lamp Flux:4139.83x1 lm		
NAME: LED615-W34KA (3000K 33W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

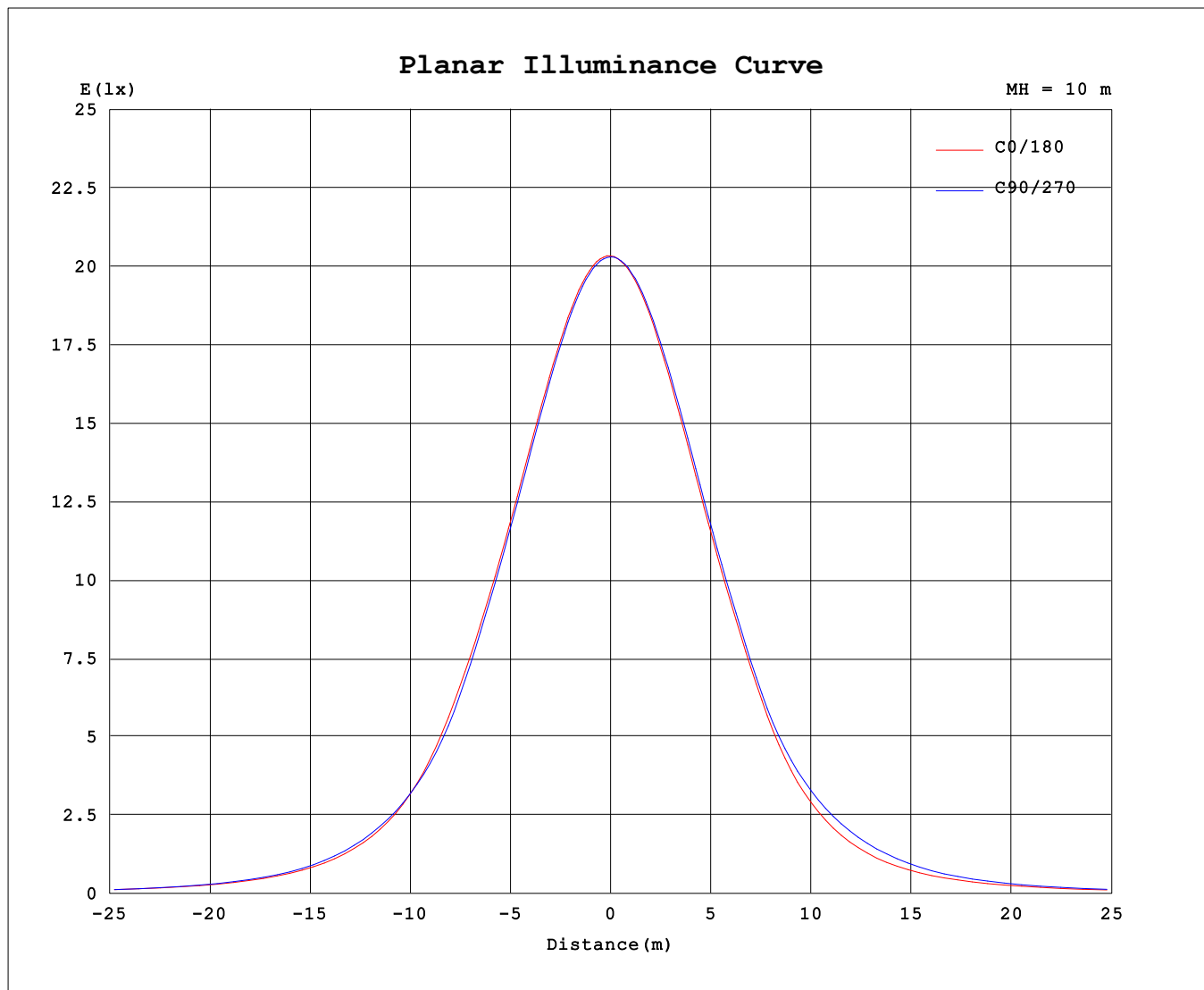
AvgL	cd/m2
L_0~180 (65) av	1607
L_0~180 (75) av	1436
L_0~180 (85) av	1459
L_90~270 (65) av	1797
L_90~270 (75) av	1247
L_90~270 (85) av	632
L_45 (65) av	1689
L_45 (75) av	1405
L_45 (85) av	1125

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:230.74V I:0.1338A P:30.075W PF:0.9741 Freq:50.00Hz Lamp Flux:4139.83x1 lm																	
NAME: LED615-W34KA (3000K 33W)									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	2033	2032	2032	2032	2031	2031	2032	2032	2033	2032	2032	2032	2031	2031	2032	2032			
5	2026	2024	2021	2019	2018	2016	2014	2014	2014	2013	2015	2016	2019	2018	2020	2022			
10	1987	1984	1980	1977	1973	1973	1971	1968	1966	1966	1969	1972	1977	1979	1982	1983			
15	1919	1914	1908	1904	1901	1898	1893	1892	1888	1889	1896	1900	1906	1909	1913	1911			
20	1822	1818	1811	1805	1799	1796	1789	1787	1783	1784	1791	1800	1808	1811	1816	1816			
25	1702	1696	1688	1682	1674	1671	1663	1661	1655	1655	1665	1674	1685	1688	1693	1695			
30	1557	1549	1537	1532	1524	1520	1511	1510	1503	1501	1509	1523	1537	1540	1545	1548			
35	1379	1366	1350	1341	1332	1330	1321	1321	1310	1304	1315	1328	1347	1355	1362	1366			
40	1148	1136	1110	1095	1096	1082	1083	1076	1056	1062	1076	1084	1117	1120	1130	1132			
45	898	918	881	871	900	855	876	866	821	859	859	859	927	902	917	911			
50	690	749	690	673	729	652	698	696	624	694	671	661	756	692	738	735			
55	521	598	520	495	561	480	537	539	465	547	503	491	593	512	569	579			
60	392	459	384	363	418	354	402	413	351	418	376	362	439	379	425	441			
65	297	339	290	270	307	261	300	310	268	311	283	267	325	279	315	331			
70	227	242	219	202	207	196	221	227	205	221	211	197	226	205	231	245			
75	163	164	152	138	129	132	147	154	146	148	146	136	139	140	160	168			
80	106	102	89.9	77.7	69.8	74.4	84.0	92.7	91.2	90.9	85.0	77.7	78.1	80.9	94.5	103			
85	56.3	52.3	40.5	28.2	20.6	28.1	39.4	48.8	49.5	47.3	39.2	28.7	25.2	31.2	44.0	52.7			
90	30.4	26.9	18.0	7.84	2.55	10.9	22.4	30.8	32.8	29.5	20.6	8.97	2.22	9.27	19.7	27.4			
95	26.5	23.8	17.0	8.71	3.41	11.8	22.1	29.5	31.4	28.2	20.2	9.51	3.06	9.70	18.2	24.3			
100	27.1	24.5	18.1	10.1	4.66	13.0	22.8	29.9	31.6	28.5	20.9	10.7	4.19	10.9	19.2	24.9			
105	27.6	25.2	19.1	11.5	6.22	14.4	23.7	30.4	31.8	28.9	21.7	12.0	5.60	12.2	20.0	25.4			
110	28.1	25.9	20.2	13.2	7.94	15.9	24.5	30.9	32.2	29.4	22.4	13.5	7.30	13.7	20.9	26.0			
115	28.8	26.7	20.6	15.0	9.85	17.4	24.6	31.4	32.7	29.8	22.8	15.1	9.08	15.2	20.9	26.6			
120	29.2	26.7	22.3	16.6	11.8	18.8	26.0	31.1	32.0	29.4	24.1	16.5	11.0	16.7	22.2	26.5			
125	29.7	27.8	23.8	18.3	14.1	20.3	27.3	32.0	32.8	30.3	25.3	18.1	13.2	18.4	23.8	27.5			
130	31.0	29.2	25.1	19.7	16.4	21.9	28.4	33.1	34.0	31.4	26.4	19.7	15.3	19.8	25.1	28.8			
135	31.9	30.2	26.4	21.1	18.6	23.4	29.3	33.6	34.3	31.9	27.4	21.2	17.3	21.0	26.3	29.7			
140	32.5	30.9	27.5	22.4	20.8	24.8	30.0	33.9	34.3	32.3	28.3	22.8	19.3	22.2	27.1	30.4			
145	32.9	31.6	27.3	23.7	22.9	26.0	30.6	33.9	34.2	32.6	29.0	24.1	21.3	23.3	27.6	31.0			
150	33.1	32.0	27.9	24.8	25.1	26.9	31.0	33.9	34.0	32.7	29.6	24.9	23.7	24.5	27.6	31.4			
155	33.1	32.4	28.6	26.1	27.3	27.8	31.4	33.7	33.6	32.6	30.1	26.7	26.0	25.6	28.5	31.8			
160	33.1	32.2	29.2	28.1	29.3	29.4	31.6	33.4	33.1	32.4	30.4	28.5	28.3	27.1	29.1	32.3			
165	33.1	31.4	29.6	30.0	31.0	30.9	31.1	32.9	32.7	32.0	30.6	30.4	30.3	29.2	29.1	32.0			
170	32.2	30.5	30.8	31.7	32.3	32.4	32.1	32.2	32.0	31.8	31.9	31.9	31.9	31.1	30.2	30.1			
175	32.6	31.7	32.4	33.0	33.2	33.2	33.0	32.8	32.7	32.7	33.0	32.9	33.0	32.7	32.2	31.4			
180	34.1	32.8	33.3	33.3	33.5	33.4	33.2	32.6	34.1	32.8	33.3	33.4	33.5	33.3	33.2	32.6			

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