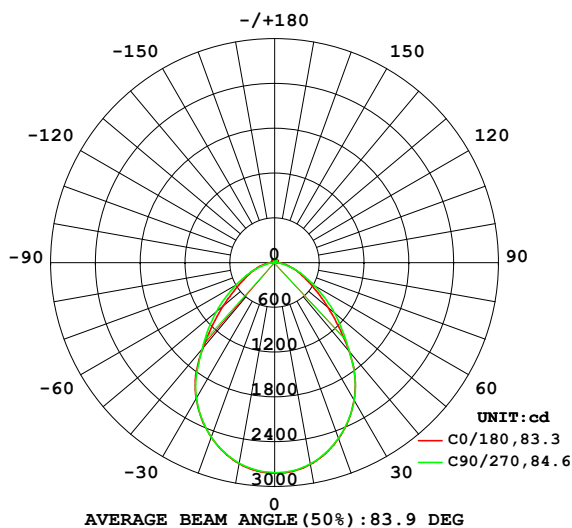


LUMINAIRE PHOTOMETRIC TEST REPORT

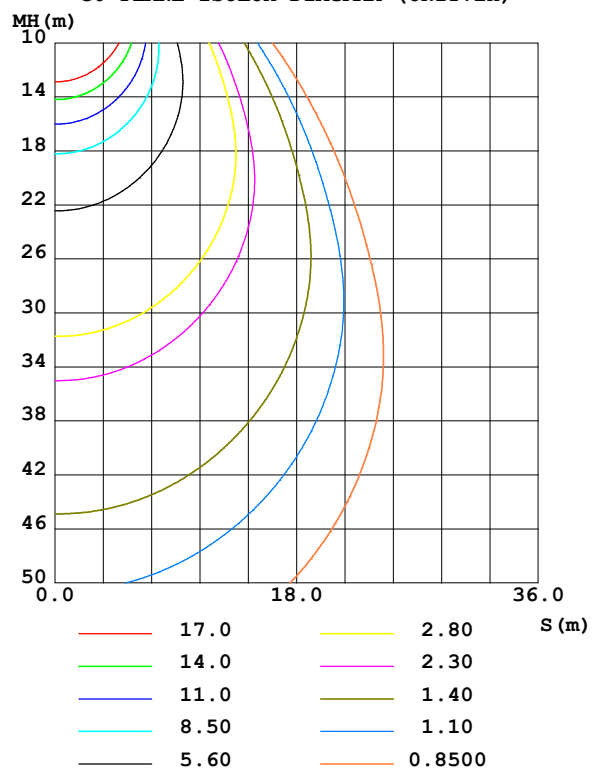
Test:U:230.68V I:0.1914A P:42.904W PF:0.9719 Freq:50.00Hz Lamp Flux:5743.1x1 lm		
NAME: LED615-W34KA (3000K 43W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.86 lm/W			
MODEL		I _{max} (cd)	2821	S/MH(C0/180)	1.13
NOMINAL POWER(W)	43.2	LOR(%)	100.0	S/MH(C90/270)	1.13
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	5743.1	η UP,DN(C0-180)	1.8,48.9
NOMINAL FLUX(lm)	5743.1	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.7,47.6
LAMPS INSIDE	1	η up (%)	3.5	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230	η down (%)	96.5	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:2025-03-28

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	2746	2742	2739	2736	2736	2730	2730	2730	0- 10	264.9	264.9	4.61
20	2507	2504	2504	2497	2487	2481	2486	2486	10- 20	740.9	1006	17.5
30	2130	2127	2131	2121	2103	2086	2098	2098	20- 30	1066	2071	36.1
40	1555	1547	1561	1549	1499	1483	1511	1512	30- 40	1148	3219	56.1
50	936.1	967.7	1045	1011	896.4	918.6	1017	987.5	40- 50	948.3	4168	72.6
60	534.6	543.1	608.8	594.9	507.1	515.3	589.5	568.8	50- 60	669.3	4837	84.2
70	309.4	309.2	311.4	329.9	297.9	290.0	294.8	304.6	60- 70	416.4	5254	91.5
80	138.2	128.4	111.9	133.6	137.2	115.8	95.34	116.2	70- 80	220.4	5474	95.3
90	39.10	24.29	4.686	34.00	48.32	28.65	3.192	24.93	80- 90	67.46	5541	96.5
100	36.05	23.61	6.639	31.95	44.50	28.83	5.910	25.86	90-100	27.29	5569	97
110	37.51	26.57	11.20	34.18	44.94	31.06	10.17	28.06	100-110	28.50	5597	97.5
120	39.34	29.64	16.50	35.82	44.69	33.09	15.21	29.99	110-120	29.28	5627	98
130	41.88	33.40	22.69	39.16	47.15	36.10	21.02	33.80	120-130	29.26	5656	98.5
140	43.95	36.38	28.82	41.43	47.55	38.56	26.63	36.72	130-140	27.93	5684	99
150	44.76	37.61	34.81	43.03	47.01	40.57	32.39	37.71	140-150	24.22	5708	99.4
160	45.00	39.75	40.59	44.00	45.99	41.84	38.81	39.63	150-160	18.82	5727	99.7
170	43.88	42.57	44.70	44.36	44.23	43.81	43.93	41.67	160-170	12.07	5739	99.9
180	46.68	45.92	46.23	45.89	46.75	45.94	46.23	45.92	170-180	4.249	5743	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3726 lm

%lum = 64.9%

%lamp = 64.9%

Conical surface Flux(120deg): 4837.2 lm

%lum = 84.2%

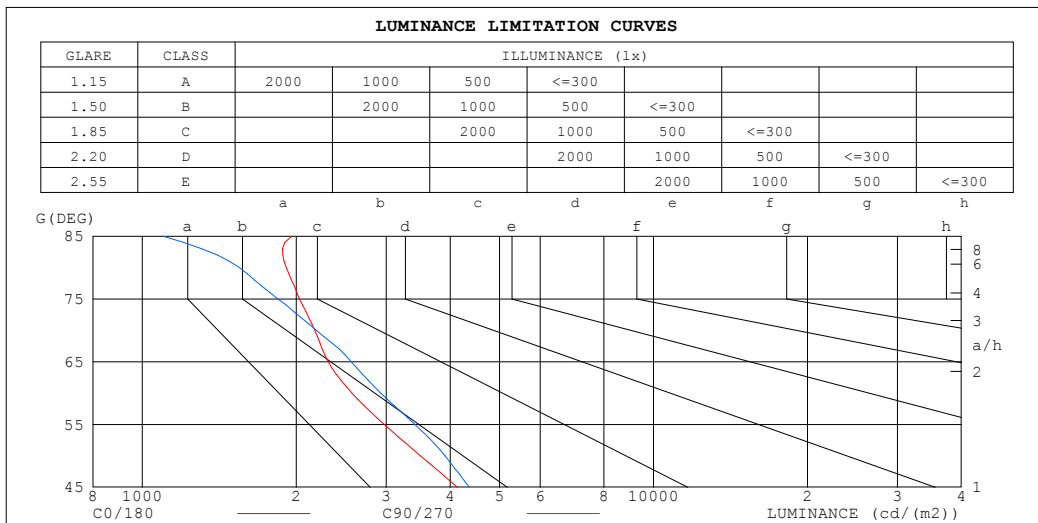
%lamp = 84.2%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2025-03-28

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:230.68V I:0.1914A P:42.904W PF:0.9719 Freq:50.00Hz Lamp Flux:5743.1x1 lm		
NAME: LED615-W34KA (3000K 43W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1961	1099
80	1913	1549
75	2030	1843
70	2175	2189
65	2310	2563
60	2571	2928
55	2972	3413
50	3502	3909
45	4130	4361

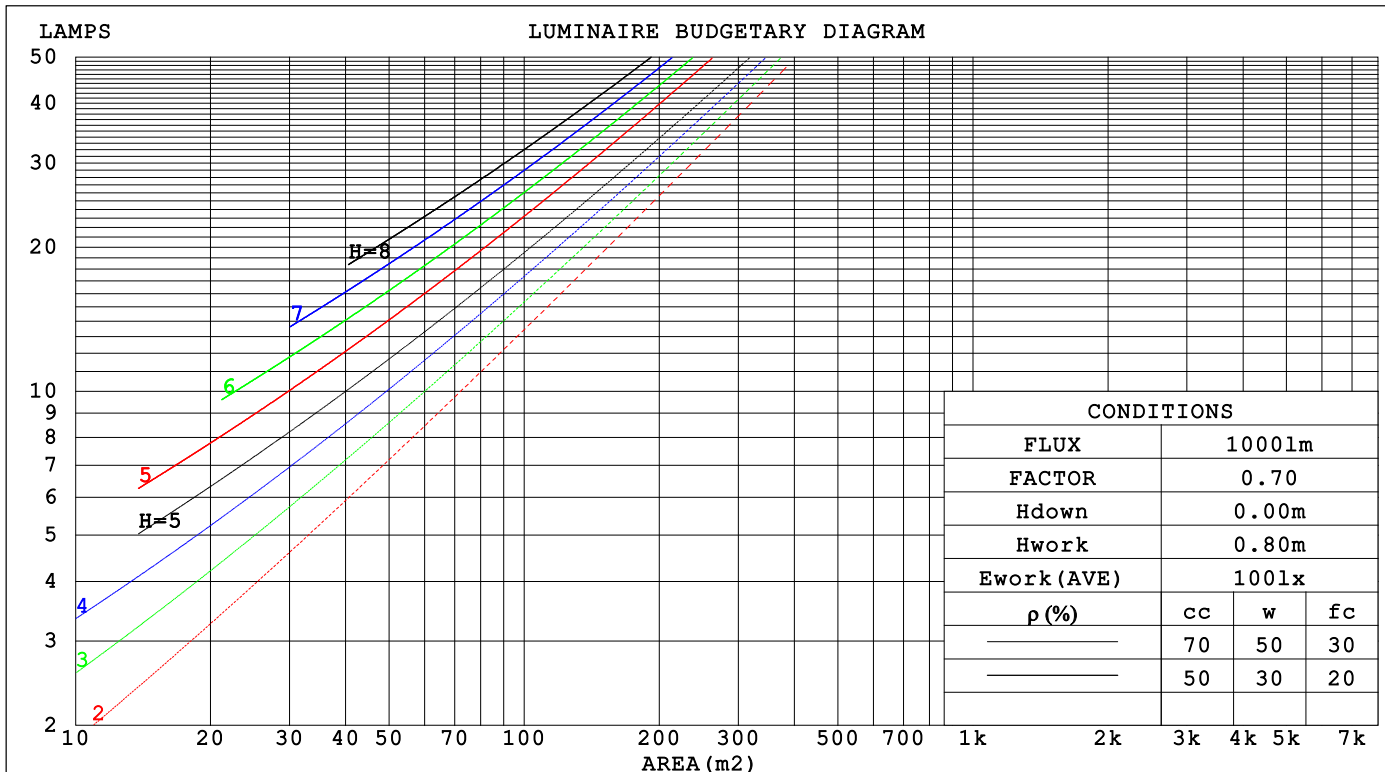
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-03-28

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:230.68V I:0.1914A P:42.904W PF:0.9719 Freq:50.00Hz Lamp Flux:5743.1x1 lm		
NAME: LED615-W34KA (3000K 43W)	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	.55
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	.42	.52	.46	.42	.51	.45	.41	.40
8.0	.52	.44	.39	.51	.44	.39	.50	.43	.38	.48	.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	.37	.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:2025-03-28

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:230.68V I:0.1914A P:42.904W PF:0.9719 Freq:50.00Hz Lamp Flux:5743.1x1 lm		
NAME: LED615-W34KA (3000K 43W)	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	.151	.048	.257	.147	.047	.242	.139	.044	.228	.132	.042	.216	.125	.040		
2.0	.252	.138	.042	.245	.135	.042	.232	.129	.040	.220	.123	.039	.208	.118	.037		
3.0	.236	.126	.038	.230	.123	.037	.218	.118	.036	.207	.114	.035	.197	.109	.034		
4.0	.220	.114	.034	.215	.112	.033	.204	.108	.032	.195	.105	.032	.186	.101	.031		
5.0	.206	.105	.030	.201	.103	.030	.192	.100	.029	.183	.097	.029	.175	.093	.028		
6.0	.193	.097	.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	.167	.082	.023	.160	.080	.023	.153	.078	.022	.147	.076	.022		
9.0	.160	.078	.022	.157	.077	.022	.151	.075	.021	.145	.073	.021	.140	.071	.021		
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	.217	.217	.217	.186	.186	.186	.127	.127	.127	.073	.073	.073	.023	.023	.023		
1.0	.204	.183	.165	.175	.157	.142	.119	.108	.098	.069	.063	.057	.022	.020	.018		
2.0	.194	.159	.130	.166	.137	.112	.114	.095	.078	.066	.055	.046	.021	.018	.015		
3.0	.185	.141	.106	.159	.122	.092	.109	.085	.065	.063	.049	.038	.020	.016	.012		
4.0	.177	.128	.090	.152	.110	.078	.105	.077	.055	.060	.045	.033	.019	.015	.011		
5.0	.170	.117	.078	.146	.101	.068	.100	.071	.048	.058	.042	.029	.019	.014	.009		
6.0	.163	.109	.070	.140	.094	.061	.096	.066	.043	.056	.039	.026	.018	.013	.008		
7.0	.156	.102	.063	.134	.088	.055	.093	.062	.039	.054	.036	.023	.017	.012	.008		
8.0	.150	.096	.058	.129	.083	.051	.089	.058	.036	.052	.034	.022	.017	.011	.007		
9.0	.145	.091	.055	.125	.079	.048	.086	.055	.034	.050	.033	.020	.016	.011	.007		
10.0	.139	.087	.052	.120	.075	.045	.083	.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:2025-03-28

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:230.68V I:0.1914A P:42.904W PF:0.9719 Freq:50.00Hz Lamp Flux:5743.1x1 lm										
NAME: LED615-W34KA (3000K 43W)					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	16.2	17.5	16.5	17.8	18.0	16.0	17.3	16.3	17.6	17.8
3H	17.1	18.3	17.4	18.6	18.9	16.9	18.1	17.2	18.4	18.6
4H	17.5	18.6	17.8	18.9	19.2	17.2	18.3	17.5	18.6	19.0
6H	17.7	18.8	18.1	19.1	19.5	17.4	18.5	17.8	18.8	19.1
8H	17.9	18.9	18.2	19.2	19.6	17.4	18.5	17.8	18.8	19.2
12H	17.9	18.9	18.3	19.3	19.6	17.5	18.4	17.9	18.8	19.2
4H 2H	16.5	17.6	16.8	17.9	18.2	16.3	17.5	16.7	17.8	18.1
3H	17.6	18.6	18.0	18.9	19.3	17.4	18.4	17.8	18.7	19.1
4H	18.1	19.0	18.5	19.4	19.8	17.8	18.7	18.2	19.1	19.5
6H	18.5	19.3	19.0	19.7	20.2	18.1	18.9	18.6	19.3	19.8
8H	18.7	19.4	19.1	19.8	20.3	18.2	19.0	18.7	19.4	19.8
12H	18.8	19.5	19.3	19.9	20.4	18.3	18.9	18.7	19.4	19.9
8H 4H	18.2	19.0	18.7	19.4	19.9	18.0	18.7	18.4	19.1	19.6
6H	18.8	19.4	19.3	19.9	20.4	18.4	19.0	18.9	19.5	20.0
8H	19.0	19.6	19.6	20.1	20.6	18.6	19.1	19.1	19.6	20.1
12H	19.3	19.7	19.8	20.2	20.8	18.7	19.1	19.2	19.6	20.2
12H 4H	18.2	18.9	18.7	19.3	19.8	18.0	18.7	18.5	19.1	19.6
6H	18.8	19.4	19.3	19.8	20.4	18.5	19.0	19.0	19.5	20.0
8H	19.1	19.6	19.6	20.1	20.6	18.7	19.1	19.2	19.6	20.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.4 / - 0.5					+ 0.3 / - 0.4				
1.5H	+ 0.1 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.5 / - 0.8					+ 0.8 / - 0.7				

CIE Pub.117, 5743 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.1$)
Area: 0.41588 m²

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-03-28

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:230.68V I:0.1914A P:42.904W PF:0.9719 Freq:50.00Hz Lamp Flux:5743.1x1 lm		
NAME: LED615-W34KA (3000K 43W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

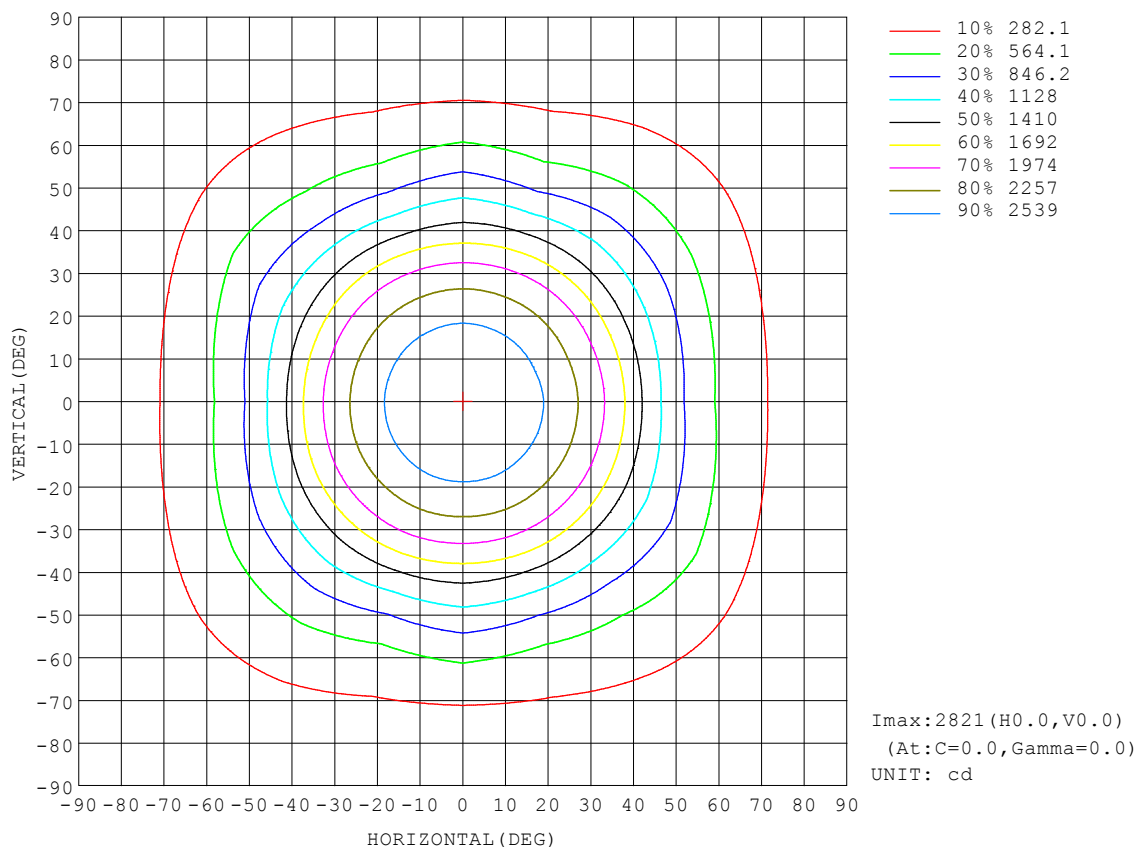
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	54	48	63	54	48	62	53	47	42
0.80	74	64	57	73	63	57	71	62	57	50
1.00	82	72	66	80	71	65	78	72	65	58
1.25	88	79	73	86	78	72	84	77	71	65
1.50	92	84	78	91	83	77	87	81	76	69
2.00	98	91	85	96	90	84	93	87	83	75
2.50	101	95	90	99	93	88	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: 2025-03-28

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:230.68V I:0.1914A P:42.904W PF:0.9719 Freq:50.00Hz Lamp Flux:5743.1x1 lm		
NAME: LED615-W34KA (3000K 43W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

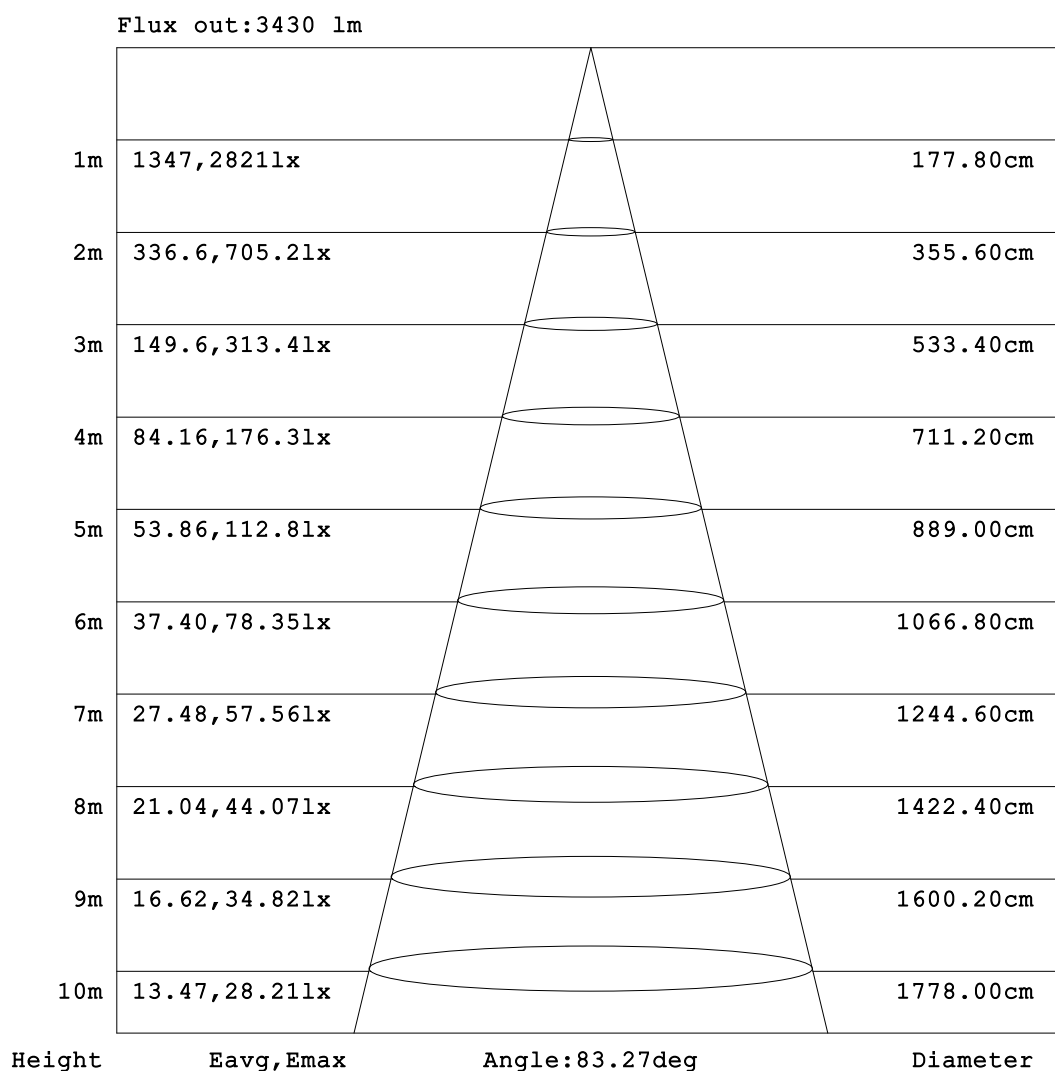


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-03-28

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:230.68V I:0.1914A P:42.904W PF:0.9719 Freq:50.00Hz Lamp Flux:5743.1x1 lm		
NAME: LED615-W34KA (3000K 43W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



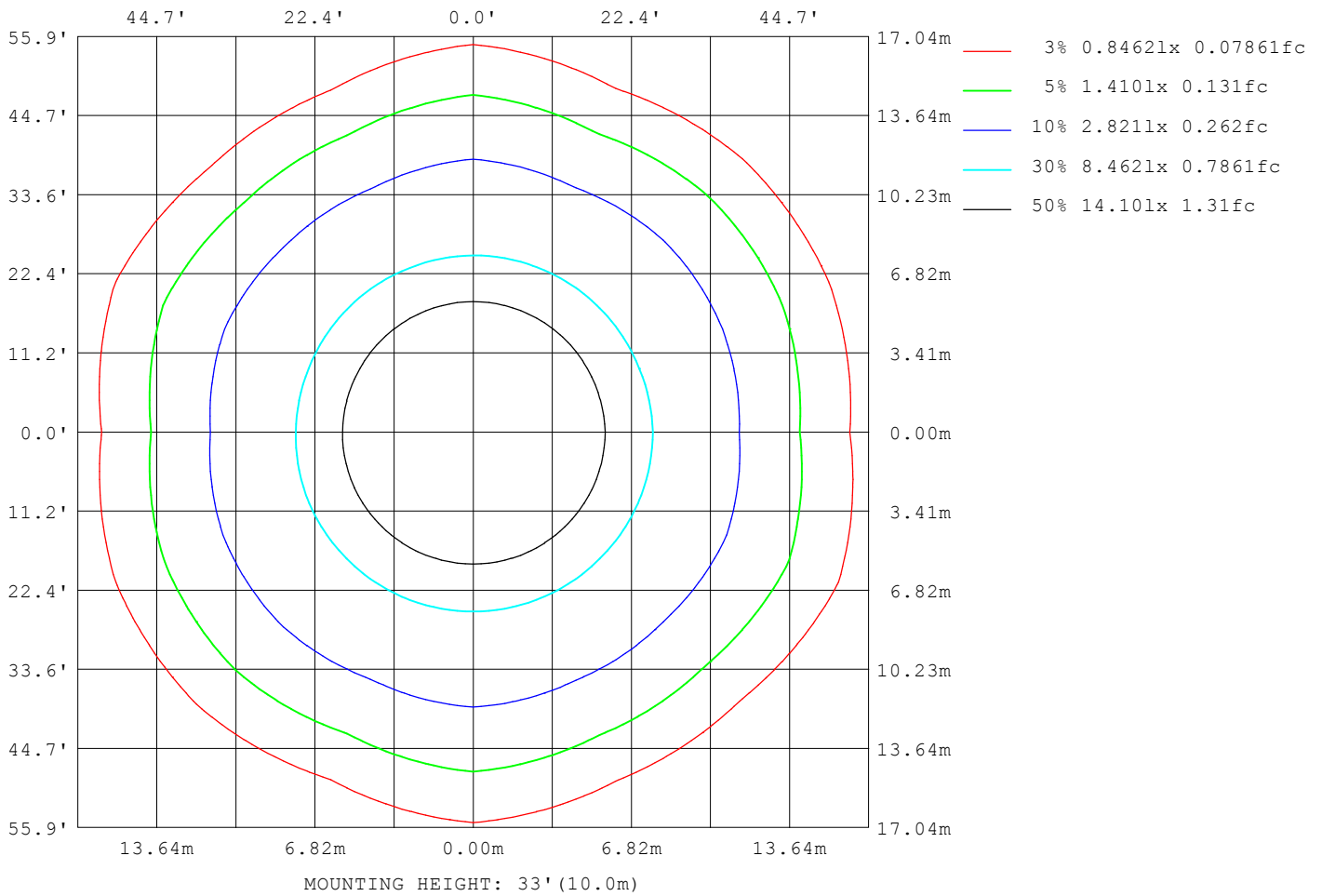
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-03-28

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:230.68V I:0.1914A P:42.904W PF:0.9719 Freq:50.00Hz Lamp Flux:5743.1x1 lm		
NAME: LED615-W34KA (3000K 43W)	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:2025-03-28

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:230.68V I:0.1914A P:42.904W PF:0.9719 Freq:50.00Hz Lamp Flux:5743.1x1 lm		
NAME: LED615-W34KA (3000K 43W)	TYPE:	WEIGHT:
SPEC.:	DIM.: 0.41588	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

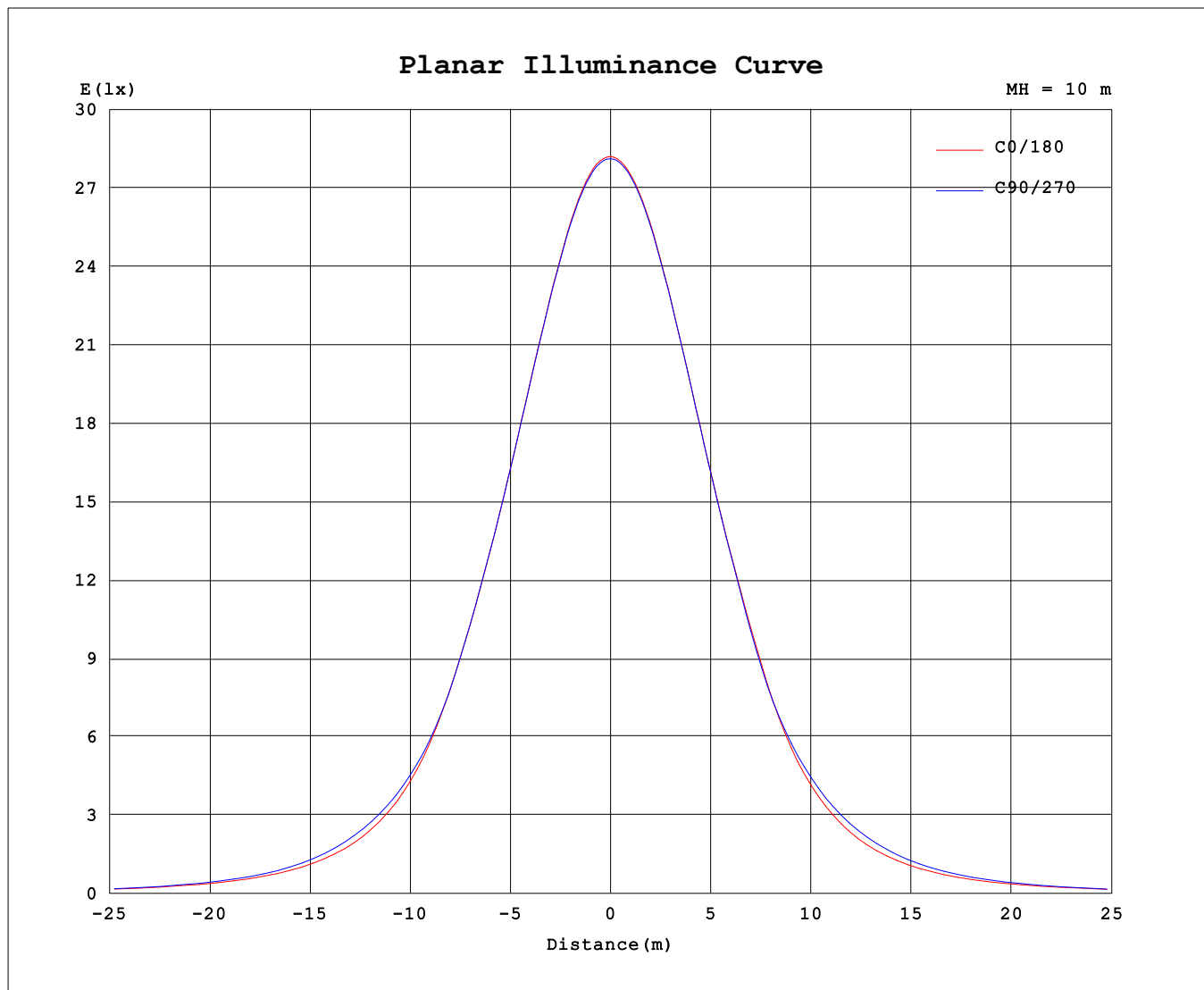
AvgL	cd/m2
L_0~180 (65) av	2260
L_0~180 (75) av	2012
L_0~180 (85) av	2026
L_90~270 (65) av	2509
L_90~270 (75) av	1759
L_90~270 (85) av	913
L_45 (65) av	2364
L_45 (75) av	1959
L_45 (85) av	1572

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-03-28

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: 2025-03-28

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:230.68V I:0.1914A P:42.904W PF:0.9719 Freq:50.00Hz Lamp Flux:5743.1x1 lm		
NAME: LED615-W34KA (3000K 43W)	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	2821	2818	2816	2814	2813	2811	2811	2810	2821	2818	2816	2814	2813	2811	2811	2810			
5	2805	2803	2800	2798	2797	2795	2792	2791	2798	2794	2793	2790	2791	2790	2790	2791			
10	2746	2746	2742	2741	2739	2740	2736	2733	2736	2731	2730	2728	2730	2728	2730	2730			
15	2644	2645	2641	2642	2640	2640	2636	2632	2630	2625	2625	2623	2627	2624	2627	2627			
20	2507	2509	2504	2507	2504	2503	2497	2492	2487	2480	2481	2480	2486	2483	2486	2487			
25	2337	2337	2335	2338	2335	2334	2325	2321	2313	2303	2302	2304	2310	2306	2311	2313			
30	2130	2131	2127	2133	2131	2131	2121	2117	2103	2088	2086	2089	2098	2094	2098	2104			
35	1880	1878	1874	1880	1881	1884	1873	1871	1847	1822	1816	1813	1824	1828	1835	1848			
40	1555	1559	1547	1549	1561	1552	1549	1536	1499	1487	1483	1477	1511	1501	1512	1518			
45	1215	1262	1231	1237	1282	1234	1257	1234	1171	1207	1183	1177	1255	1201	1230	1222			
50	936	1032	968	967	1045	952	1011	994	896	980	919	908	1017	916	988	984			
55	709	824	733	722	814	710	788	773	674	775	690	674	792	681	759	770			
60	535	636	543	530	609	524	595	595	507	594	515	497	590	506	569	583			
65	406	467	409	394	450	387	443	447	388	441	390	368	431	373	420	438			
70	309	332	309	295	311	292	330	333	298	312	290	269	295	271	305	323			
75	219	224	215	205	198	202	224	231	215	210	200	183	180	180	204	218			
80	138	139	128	119	112	120	134	143	137	131	116	99.4	95.3	98.1	116	130			
85	71.1	69.7	58.4	46.7	39.8	50.9	66.1	77.2	75.8	68.9	53.1	34.2	26.3	33.9	50.4	63.2			
90	39.1	35.2	24.3	11.4	4.69	17.3	34.0	45.9	48.3	42.5	28.6	11.9	3.19	12.2	24.9	34.8			
95	35.5	31.6	22.3	11.2	4.92	16.6	31.2	41.7	44.7	40.0	28.0	12.9	4.38	13.5	24.8	32.8			
100	36.1	32.3	23.6	13.0	6.64	18.2	32.0	41.8	44.5	40.0	28.8	14.5	5.91	15.0	25.9	33.4			
105	36.7	33.2	25.0	15.1	8.74	20.1	33.0	42.3	44.6	40.3	29.9	16.4	7.84	16.6	26.9	33.9			
110	37.5	34.2	26.6	17.4	11.2	22.2	34.2	42.9	44.9	40.9	31.1	18.4	10.2	18.6	28.1	34.7			
115	38.5	35.5	27.2	19.8	13.8	24.1	34.0	43.6	45.5	41.0	31.5	20.5	12.6	20.7	28.2	35.7			
120	39.3	35.5	29.6	22.1	16.5	26.0	35.8	42.9	44.7	40.7	33.1	22.3	15.2	22.6	30.0	35.5			
125	40.2	37.1	31.7	24.4	19.6	28.2	37.8	44.2	45.8	42.0	34.7	24.5	18.1	24.8	32.1	36.9			
130	41.9	39.0	33.4	26.4	22.7	30.5	39.2	45.7	47.1	43.2	36.1	26.9	21.0	26.9	33.8	38.7			
135	43.1	40.4	35.4	28.4	25.8	32.6	40.4	46.4	47.5	43.9	37.4	29.1	23.9	28.6	35.5	39.9			
140	43.9	41.6	36.4	30.4	28.8	34.6	41.4	46.8	47.6	44.4	38.6	31.3	26.6	30.3	36.7	41.0			
145	44.5	42.5	36.5	32.2	31.8	36.4	42.3	46.8	47.4	44.6	39.6	32.9	29.4	32.0	37.6	41.7			
150	44.8	42.9	37.6	33.8	34.8	37.8	43.0	46.7	47.0	44.7	40.6	34.3	32.4	33.5	37.7	42.3			
155	44.9	43.6	38.6	35.9	37.8	38.6	43.6	46.5	46.5	44.8	41.4	36.8	35.6	35.0	38.8	43.0			
160	45.0	43.3	39.8	38.8	40.6	40.8	44.0	46.3	46.0	44.7	41.8	39.3	38.8	37.2	39.6	43.8			
165	45.1	42.6	40.5	41.4	42.9	42.7	43.1	45.8	45.5	44.2	42.2	41.8	41.6	40.1	39.9	43.9			
170	43.9	41.7	42.6	43.8	44.7	44.7	44.4	44.6	44.2	43.9	43.8	44.0	43.9	42.9	41.7	41.8			
175	45.2	43.9	44.9	45.5	45.8	45.8	45.6	45.3	44.9	45.0	45.4	45.3	45.5	45.1	44.5	43.3			
180	46.7	45.3	45.9	46.1	46.2	46.1	45.9	45.1	46.8	45.3	45.9	46.1	46.2	46.1	45.9	45.0			

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