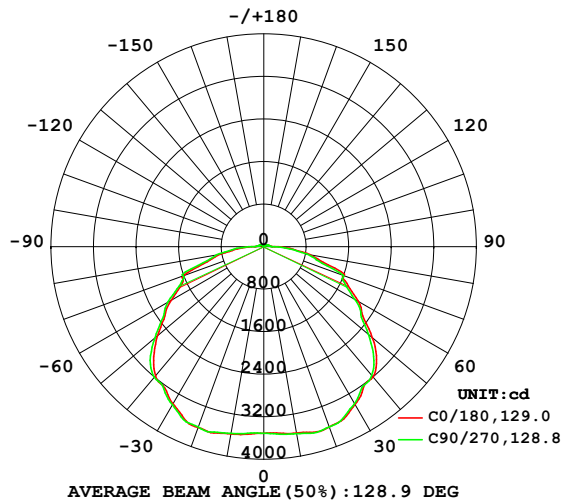


LUMINAIRE PHOTOMETRIC TEST REPORT

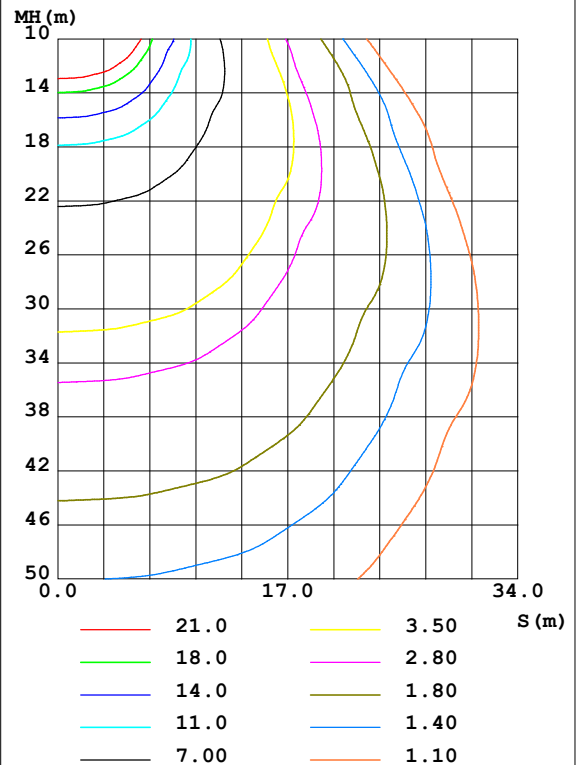
Test:U:120.07V I:0.8580A P:102.84W PF:0.9982 Freq:60.98Hz Lamp Flux:13461.5x1 lm		
NAME: ANL-HB10-100W-120-H-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20181016001
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.89 lm/W			
MODEL: ANL-HB10-100W-120-H-5000K		Imax(cd)	3681	S/MH(C0/180)	1.43
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.43
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	13462	η UP,DN(C0-180)	1.6,48.0
NOMINAL FLUX(lm)	13461.5	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.7,48.7
LAMPS INSIDE	1	η up(%)	3.3	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	96.7	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:16 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

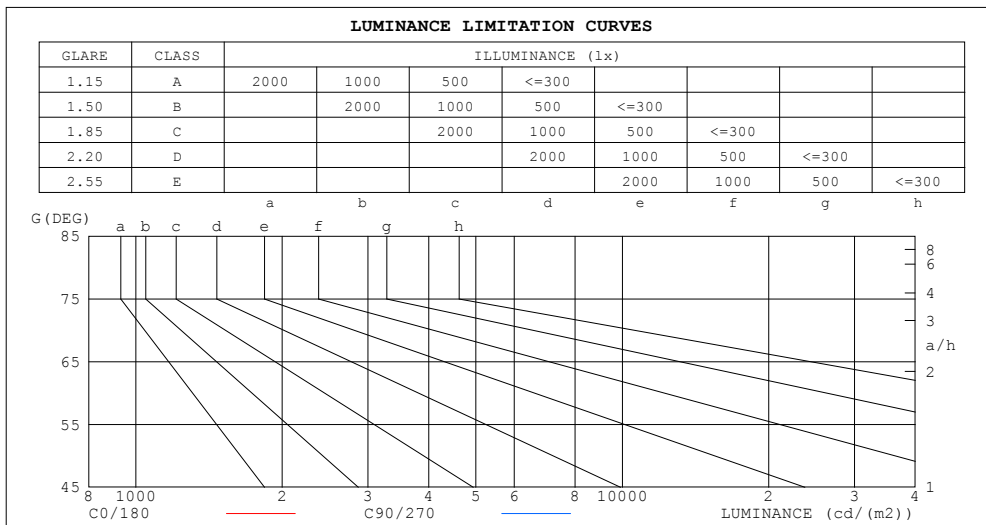
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3559	3572	3570	3582	3574	3566	3567	3564	0- 10	338.1	338.1	2.51,2.51
20	3607	3663	3607	3655	3617	3664	3610	3660	10- 20	1028	1366	10.1,10.1
30	3430	3481	3411	3450	3416	3499	3436	3519	20- 30	1655	3021	22.4,22.4
40	3199	3158	3162	3161	3169	3180	3208	3183	30- 40	2062	5083	37.8,37.8
50	2667	2652	2568	2606	2608	2649	2677	2682	40- 50	2277	7360	54.7,54.7
60	2050	2029	1969	1989	2001	2036	2081	2067	50- 60	2080	9440	70.1,70.1
70	1606	1585	1598	1544	1617	1608	1618	1603	60- 70	1749	11188	83.1,83.1
80	891.1	855.6	825.0	799.0	842.5	877.7	899.4	901.1	70- 80	1263	12451	92.5,92.5
90	212.1	198.0	173.0	186.0	178.6	236.1	236.6	255.4	80- 90	566.6	13018	96.7,96.7
100	102.1	105.1	99.45	100.4	101.0	107.6	105.2	107.0	90-100	148.5	13166	97.8,97.8
110	79.76	93.00	78.98	79.75	79.48	95.40	83.79	85.40	100-110	99.97	13266	98.6,98.6
120	61.37	68.55	61.35	59.90	62.08	71.21	65.22	65.25	110-120	73.48	13340	99.1,99.1
130	41.74	44.45	41.84	39.66	42.67	47.07	45.47	44.82	120-130	47.83	13388	99.5,99.5
140	32.00	32.83	31.82	29.92	33.14	34.31	34.09	33.02	130-140	28.93	13417	99.7,99.7
150	29.50	30.27	29.40	28.51	30.29	31.02	30.61	30.40	140-150	19.46	13436	99.8,99.8
160	29.78	30.26	29.67	28.87	30.39	30.78	30.35	30.11	150-160	13.87	13450	99.9,99.9
170	30.83	31.14	30.61	30.13	31.32	31.56	31.11	30.84	160-170	8.641	13459	100,100
180	31.95	32.20	31.35	31.03	31.98	32.22	31.38	31.05	170-180	2.980	13462	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:16 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.07V I:0.8580A P:102.84W PF:0.9982 Freq:60.98Hz Lamp Flux:13461.5x1 lm		
NAME: ANL-HB10-100W-120-H-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20181016001
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	102874	89406
80	83028	76593
75	72525	67432
70	75987	75343
65	67092	64676
60	66327	63476
55	64052	62653
50	67145	64399
45	68663	66687

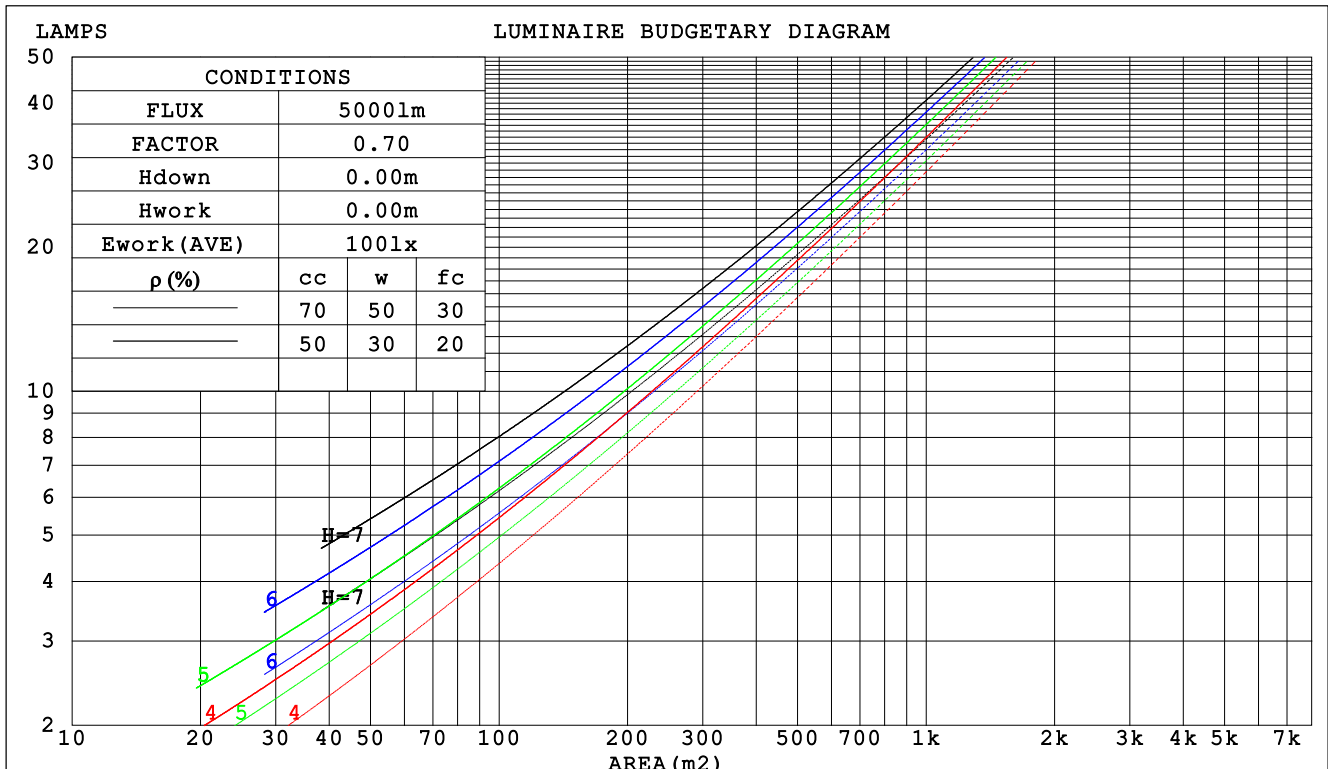
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Admin
 Test Date: 16 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 7.550m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.07V I:0.8580A P:102.84W PF:0.9982 Freq:60.98Hz Lamp Flux:13461.5x1 lm		
NAME: ANL-HB10-100W-120-H-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20181016001
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	1.01	.96	.92	.98	.94	.90	.93	.90	.86	.89	.86	.83	.85	.82	.80	.78
2.0	.87	.79	.73	.85	.78	.72	.81	.75	.70	.77	.72	.68	.73	.69	.66	.63
3.0	.76	.67	.60	.74	.66	.59	.70	.63	.58	.67	.61	.56	.64	.59	.55	.52
4.0	.67	.57	.50	.65	.56	.49	.62	.54	.48	.59	.53	.47	.57	.51	.46	.44
5.0	.59	.50	.43	.58	.49	.42	.55	.47	.41	.53	.46	.41	.51	.45	.40	.38
6.0	.53	.44	.37	.52	.43	.37	.50	.42	.36	.48	.41	.35	.46	.40	.35	.33
7.0	.48	.39	.32	.47	.38	.32	.45	.37	.32	.43	.36	.31	.42	.35	.31	.29
8.0	.44	.35	.29	.43	.34	.28	.41	.33	.28	.40	.33	.28	.38	.32	.27	.25
9.0	.40	.31	.26	.39	.31	.25	.38	.30	.25	.36	.30	.25	.35	.29	.24	.23
10.0	.37	.28	.23	.36	.28	.23	.35	.28	.23	.34	.27	.22	.32	.26	.22	.20



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:16 October 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.07V I:0.8580A P:102.84W PF:0.9982 Freq:60.98Hz Lamp Flux:13461.5x1 lm					
NAME: ANL-HB10-100W-120-H-5000K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:20181016001
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	.351	.199	.063	.343	.195	.062	.327	.188	.060	.313	.181	.058	.300	.174	.056		
2.0	.318	.174	.054	.311	.171	.053	.297	.165	.051	.285	.160	.050	.273	.154	.049		
3.0	.289	.154	.046	.282	.151	.046	.270	.146	.045	.259	.142	.044	.248	.138	.043		
4.0	.263	.137	.040	.258	.135	.040	.247	.131	.039	.237	.127	.038	.227	.123	.038		
5.0	.241	.123	.036	.236	.121	.035	.226	.118	.035	.217	.115	.034	.209	.112	.034		
6.0	.222	.111	.032	.218	.110	.032	.209	.107	.031	.201	.104	.031	.193	.102	.030		
7.0	.206	.102	.029	.202	.100	.029	.194	.098	.028	.186	.096	.028	.180	.093	.027		
8.0	.191	.094	.026	.188	.092	.026	.181	.090	.026	.174	.088	.025	.168	.086	.025		
9.0	.179	.086	.024	.175	.086	.024	.169	.084	.024	.163	.082	.023	.157	.080	.023		
10.0	.168	.080	.022	.165	.080	.022	.159	.078	.022	.153	.076	.022	.148	.075	.021		

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	.184	.184	.184	.126	.126	.126	.072	.072	.072	.023	.023	.023	
1.0	.208	.181	.156	.178	.155	.135	.122	.107	.093	.070	.062	.054	.022	.020	.018	
2.0	.201	.157	.120	.172	.135	.104	.118	.094	.073	.068	.054	.043	.022	.018	.014	
3.0	.194	.140	.097	.166	.121	.084	.114	.084	.059	.066	.049	.035	.021	.016	.011	
4.0	.186	.127	.082	.160	.110	.071	.110	.077	.050	.064	.045	.030	.020	.015	.010	
5.0	.178	.117	.071	.153	.101	.062	.106	.071	.044	.061	.041	.026	.020	.014	.009	
6.0	.171	.109	.064	.147	.094	.056	.101	.066	.039	.059	.039	.023	.019	.013	.008	
7.0	.164	.102	.058	.141	.088	.051	.097	.062	.036	.057	.036	.021	.018	.012	.007	
8.0	.157	.096	.054	.135	.083	.047	.094	.059	.033	.055	.035	.020	.018	.011	.007	
9.0	.151	.091	.051	.130	.079	.044	.090	.056	.031	.053	.033	.019	.017	.011	.006	
10.0	.145	.087	.048	.125	.075	.042	.087	.053	.030	.051	.031	.018	.016	.010	.006	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:16 October 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.07V I:0.8580A P:102.84W PF:0.9982 Freq:60.98Hz Lamp Flux:13461.5x1 lm										
NAME: ANL-HB10-100W-120-H-5000K						TYPE:			WEIGHT:	
SPEC.:						DIM.:			SERIAL No.:20181016001	
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	27.3	28.9	27.6	29.1	29.4	27.1	28.7	27.5	29.0	29.2
3H	29.4	30.8	29.7	31.1	31.4	29.2	30.6	29.5	30.9	31.2
4H	30.3	31.7	30.7	32.0	32.3	30.0	31.4	30.4	31.7	32.0
6H	31.1	32.4	31.5	32.7	33.1	30.8	32.1	31.2	32.4	32.8
8H	31.4	32.7	31.8	33.0	33.4	31.1	32.3	31.5	32.7	33.1
12H	31.8	33.0	32.2	33.3	33.7	31.4	32.6	31.8	33.0	33.3
4H 2H	28.0	29.4	28.4	29.7	30.0	27.9	29.2	28.2	29.5	29.9
3H	30.3	31.5	30.7	31.9	32.3	30.2	31.4	30.6	31.7	32.1
4H	31.3	32.4	31.8	32.8	33.2	31.1	32.2	31.5	32.6	33.0
6H	32.3	33.3	32.8	33.7	34.2	32.0	33.0	32.5	33.5	33.9
8H	32.7	33.7	33.2	34.1	34.6	32.4	33.3	32.9	33.8	34.2
12H	33.2	34.0	33.6	34.5	34.9	32.8	33.7	33.3	34.1	34.6
8H 4H	31.7	32.6	32.2	33.1	33.5	31.5	32.4	32.0	32.9	33.3
6H	32.9	33.7	33.4	34.2	34.7	32.7	33.5	33.2	33.9	34.4
8H	33.5	34.2	34.0	34.6	35.2	33.2	33.9	33.7	34.4	34.9
12H	34.0	34.6	34.6	35.1	35.7	33.7	34.3	34.3	34.8	35.4
12H 4H	31.8	32.6	32.2	33.1	33.5	31.6	32.4	32.1	32.9	33.4
6H	33.0	33.7	33.6	34.2	34.7	32.8	33.5	33.3	34.0	34.5
8H	33.7	34.3	34.2	34.8	35.3	33.4	34.0	33.9	34.5	35.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.3 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				

CIE Pub.117, 13462 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 9.0$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:16 October 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.07V I:0.8580A P:102.84W PF:0.9982 Freq:60.98Hz Lamp Flux:13461.5x1 lm		
NAME: ANL-HB10-100W-120-H-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20181016001
MFR.:	SUR.:	Shielding Angle:

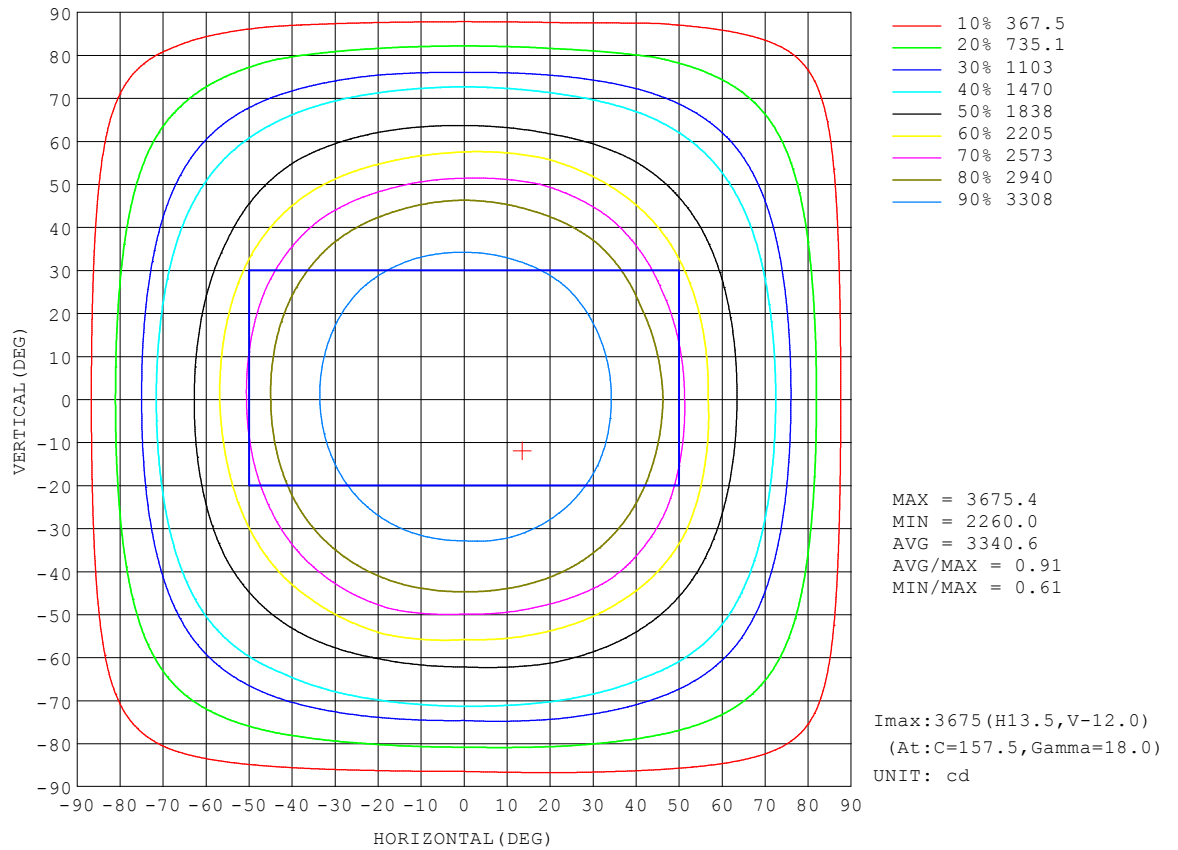
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	41	34	53	41	34	51	41	34	27
0.80	63	51	43	62	51	43	60	50	43	35
1.00	72	60	52	70	59	51	68	60	51	43
1.25	79	67	59	77	66	59	74	65	58	50
1.50	84	73	65	82	72	65	79	70	63	55
2.00	91	81	74	89	80	73	85	77	72	63
2.50	95	86	80	93	85	79	89	82	76	67
3.00	99	91	85	96	89	83	92	86	81	71
4.00	103	97	91	101	95	90	96	91	87	76
5.00	106	100	96	103	98	94	98	94	90	80
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:25.3DEG
Operators:Admin
Test Date:16 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.07V I:0.8580A P:102.84W PF:0.9982 Freq:60.98Hz Lamp Flux:13461.5x1 lm		
NAME: ANL-HB10-100W-120-H-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20181016001
MFR.:	SUR.:	Shielding Angle:

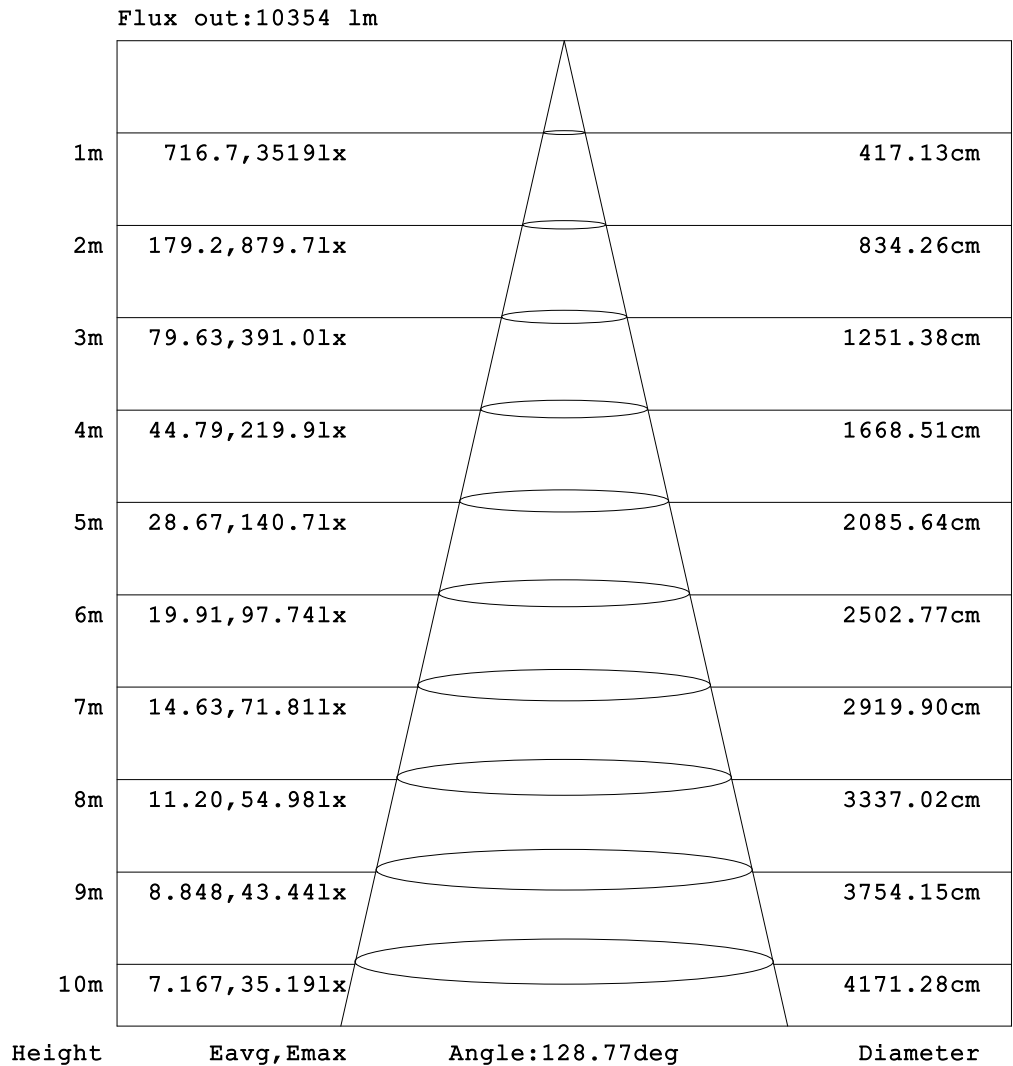


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:16 October 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.07V I:0.8580A P:102.84W PF:0.9982 Freq:60.98Hz Lamp Flux:13461.5x1 lm		
NAME: ANL-HB10-100W-120-H-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20181016001
MFR.:	SUR.:	Shielding Angle:



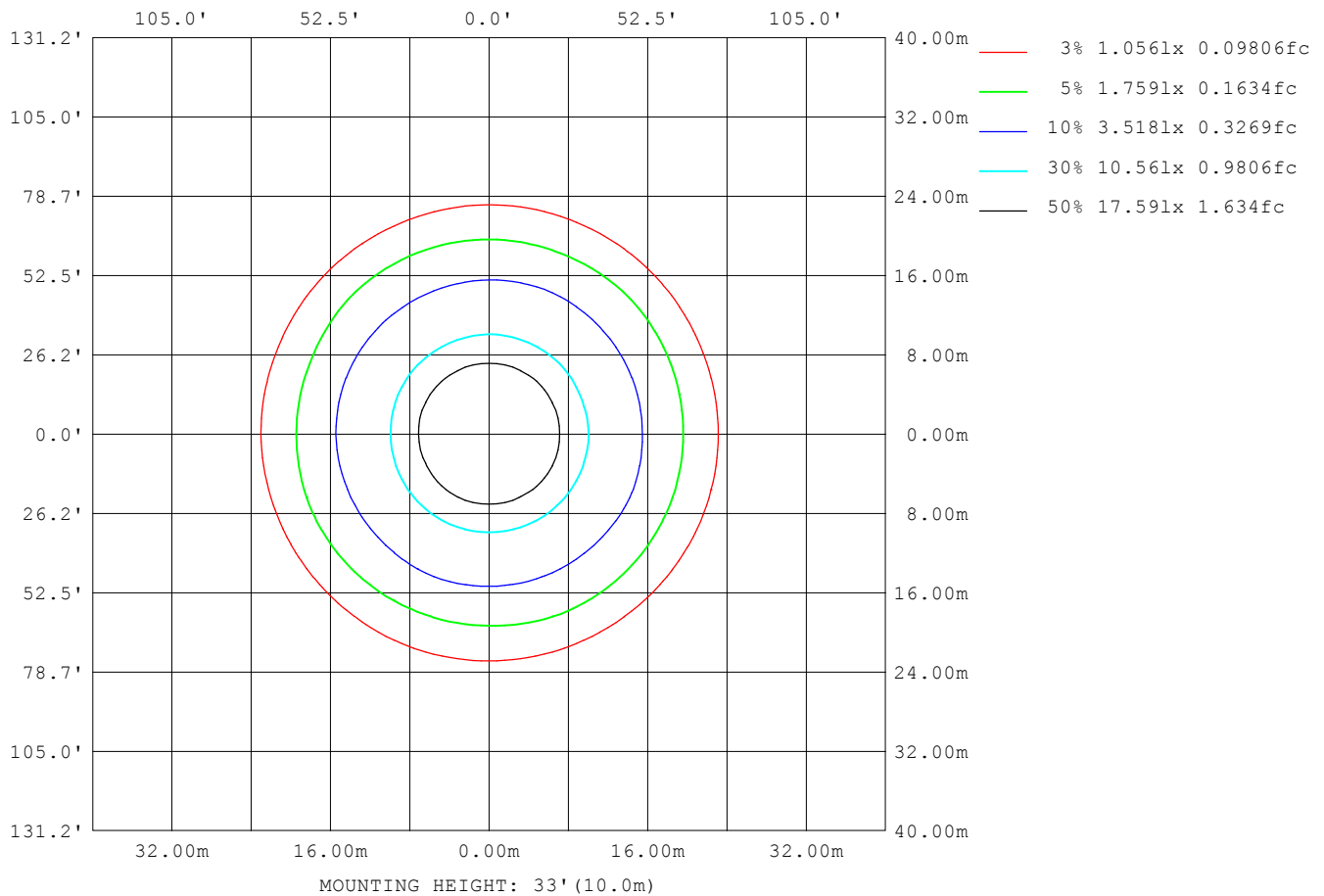
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:16 October 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.07V I:0.8580A P:102.84W PF:0.9982 Freq:60.98Hz Lamp Flux:13461.5x1 lm		
NAME: ANL-HB10-100W-120-H-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20181016001
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:16 October 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.07V I:0.8580A P:102.84W PF:0.9982 Freq:60.98Hz Lamp Flux:13461.5x1 lm		
NAME: ANL-HB10-100W-120-H-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20181016001
MFR.:	SUR.:	Shielding Angle:

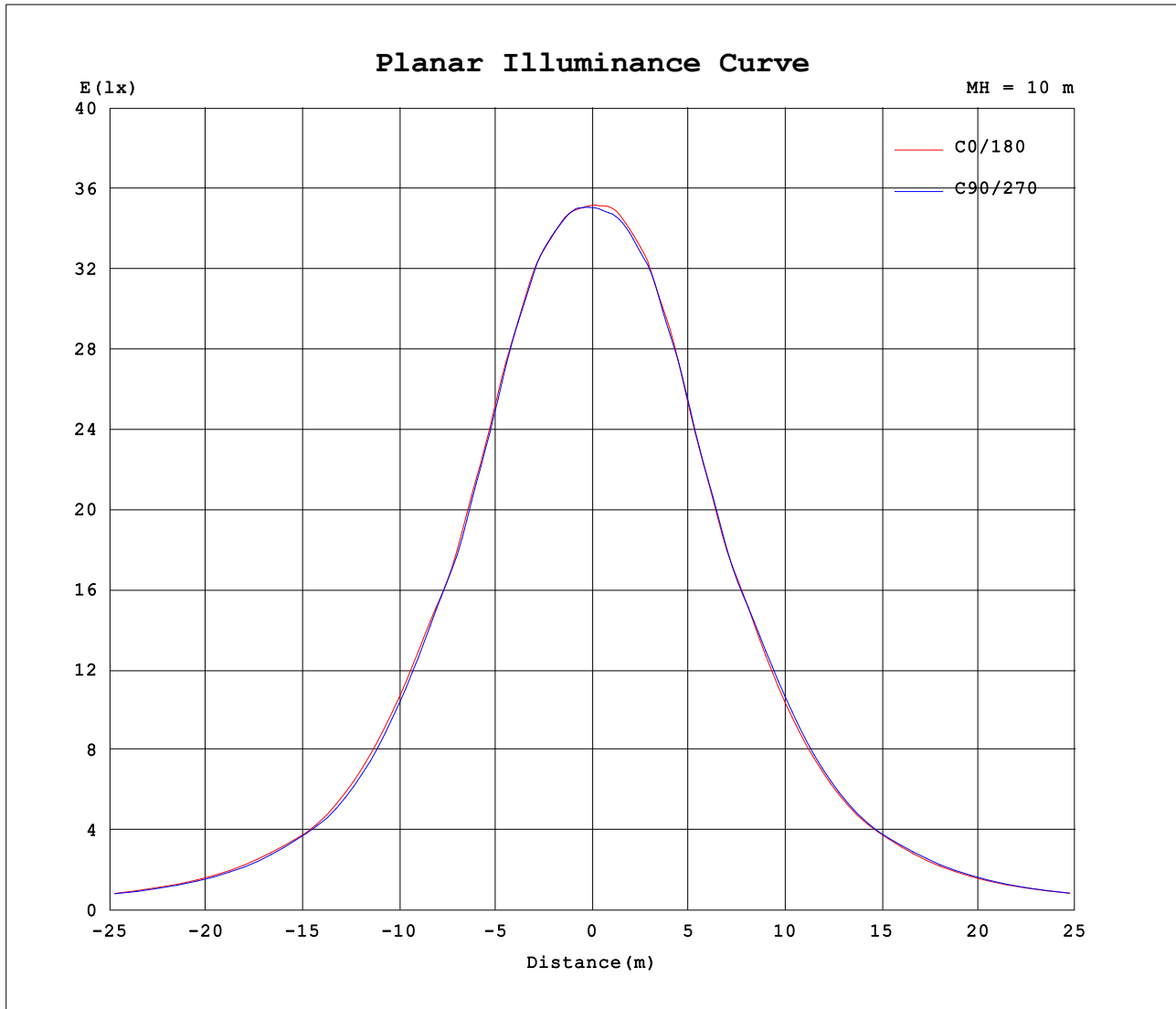
AvgL	cd/m2
L_0~180 (65) av	66006
L_0~180 (75) av	70326
L_0~180 (85) av	97565
L_90~270 (65) av	65875
L_90~270 (75) av	70409
L_90~270 (85) av	96924
L_45 (65) av	66585
L_45 (75) av	72727
L_45 (85) av	99227

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Admin
Test Date:16 October 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.550m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Admin
 Test Date: 16 October 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 7.550m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.8580A P:102.84W PF:0.9982 Freq:60.98Hz Lamp Flux:13461.5x1 lm																	
NAME: ANL-HB10-100W-120-H-5000K									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:20181016001		
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	3507	3507	3507	3507	3507	3507	3507	3507	3507	3507	3507	3507	3507	3507	3507	3507			
5	3523	3524	3531	3538	3540	3531	3529	3534	3539	3534	3524	3523	3522	3524	3519	3520			
10	3559	3558	3572	3572	3570	3562	3582	3574	3574	3562	3566	3574	3567	3554	3564	3573			
15	3613	3625	3634	3642	3628	3638	3643	3652	3628	3633	3631	3626	3611	3615	3613	3628			
20	3607	3652	3663	3658	3607	3639	3655	3676	3617	3631	3664	3674	3610	3641	3660	3662			
25	3571	3596	3635	3608	3548	3569	3613	3612	3561	3581	3624	3630	3584	3605	3630	3623			
30	3430	3457	3481	3477	3411	3434	3450	3475	3416	3437	3499	3503	3436	3467	3519	3501			
35	3261	3276	3266	3239	3229	3253	3244	3235	3247	3269	3283	3276	3273	3280	3301	3282			
40	3199	3172	3158	3132	3162	3177	3161	3144	3169	3219	3180	3151	3208	3195	3183	3151			
45	3001	2974	2959	2941	2925	2938	2931	2943	2929	2973	3000	2982	3020	3007	3025	2975			
50	2667	2693	2652	2604	2568	2642	2606	2603	2608	2649	2649	2641	2677	2697	2682	2654			
55	2271	2367	2308	2282	2229	2294	2275	2285	2271	2308	2349	2335	2310	2377	2380	2339			
60	2050	2054	2029	1989	1969	1985	1989	1985	2001	2017	2036	2017	2081	2082	2067	2027			
65	1752	1752	1731	1736	1696	1697	1700	1737	1707	1715	1767	1773	1757	1759	1780	1777			
70	1606	1631	1585	1590	1598	1614	1544	1589	1617	1651	1608	1612	1618	1638	1603	1611			
75	1160	1161	1142	1135	1083	1100	1117	1121	1097	1134	1184	1195	1177	1180	1226	1212			
80	891	901	856	852	825	816	799	844	842	865	878	898	899	919	901	901			
85	554	534	525	514	483	475	488	502	500	500	548	558	564	560	583	566			
90	212	223	198	189	173	175	186	185	179	185	236	216	237	223	255	226			
95	130	130	128	127	122	124	124	126	126	128	134	134	134	136	138	135			
100	102	102	105	104	99.4	97.9	100	100	101	102	108	107	105	105	107	106			
105	91.4	92.3	104	103	89.7	87.3	90.2	89.9	90.7	92.7	106	105	94.2	92.6	96.0	95.1			
110	79.8	81.9	93.0	91.4	79.0	76.6	79.7	79.5	79.5	82.8	95.4	94.6	83.8	81.6	85.4	84.8			
115	70.0	72.0	80.3	78.7	69.0	66.8	69.1	69.1	69.9	73.2	83.0	82.2	73.9	72.0	75.0	74.3			
120	61.4	63.4	68.6	67.5	61.4	58.8	59.9	60.1	62.1	65.1	71.2	70.9	65.2	63.4	65.3	64.7			
125	50.5	52.4	54.7	53.8	49.7	47.7	47.8	48.1	50.6	53.8	57.6	57.5	54.3	52.8	54.4	54.0			
130	41.7	43.5	44.5	43.8	41.8	39.9	39.7	39.7	42.7	45.0	47.1	46.9	45.5	43.9	44.8	44.4			
135	35.7	36.9	36.9	36.5	35.5	34.5	33.3	33.3	36.9	38.1	39.1	39.1	38.7	38.0	37.5	37.3			
140	32.0	32.8	32.8	32.5	31.8	31.4	29.9	29.8	33.1	33.8	34.3	34.3	34.1	33.8	33.0	33.0			
145	30.0	30.7	31.0	30.6	29.9	29.5	28.8	28.9	31.1	31.6	31.9	32.1	31.6	31.5	31.2	31.2			
150	29.5	30.0	30.3	30.0	29.4	29.1	28.5	28.7	30.3	30.7	31.0	31.1	30.6	30.5	30.4	30.3			
155	29.5	30.0	30.1	30.0	29.4	29.3	28.6	28.8	30.2	30.4	30.7	30.8	30.4	30.2	30.1	30.2			
160	29.8	30.2	30.3	30.2	29.7	29.5	28.9	29.2	30.4	30.5	30.8	30.9	30.4	30.1	30.1	30.2			
165	30.3	30.7	30.7	30.8	30.1	29.9	29.5	30.0	30.9	31.0	31.2	31.3	30.7	30.5	30.5	30.7			
170	30.8	31.2	31.1	31.2	30.6	30.3	30.1	30.6	31.3	31.4	31.6	31.6	31.1	30.8	30.8	31.0			
175	31.3	31.5	31.5	31.6	31.2	30.8	30.7	31.2	31.7	31.8	31.8	31.7	31.3	31.0	31.1	31.3			
180	32.0	32.1	32.2	32.2	31.3	31.1	31.0	31.6	32.0	32.1	32.2	32.2	31.4	31.0	31.0	31.7			

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