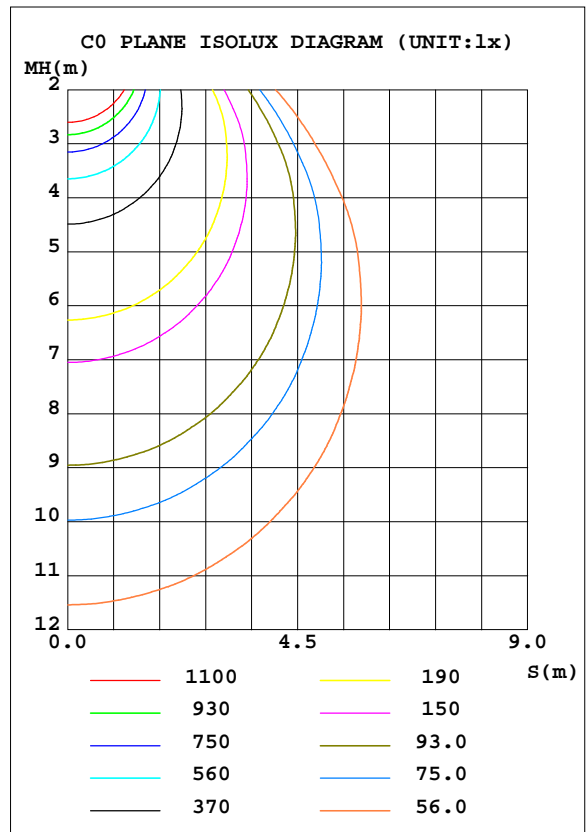
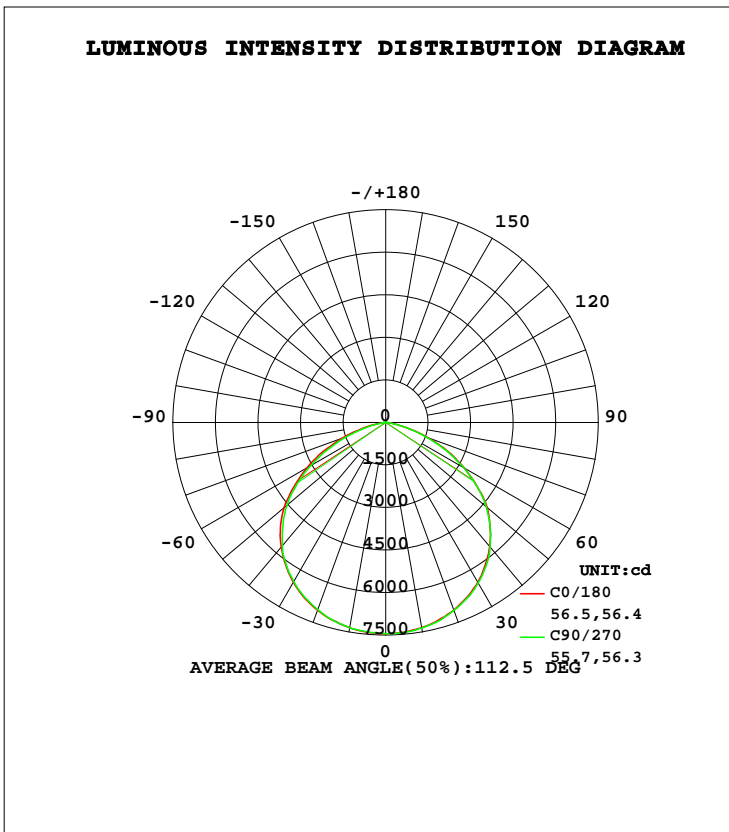


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:277.00V I:0.5668A P:143.90W PF:0.9166 Freq:60.00Hz Lamp Flux:20614.7x1 lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.26 lm/W			
MODEL	AST-HB05-150WSACGD2-40K	Imax(cd)	7453	S/MH(C0/180)	1.30
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	277	TOTAL FLUX(lm)	20615	η UP, DN(C0-180)	0.2,50.1
NOMINAL FLUX(lm)	20614.7	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,49.6
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	277.0	η down(%)	99.7	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:27.3DEG
 Operators:Leo
 Test Date:2017-12-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
 Humidity:44.8%
 Test Distance:26.000m [K=1.3311]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

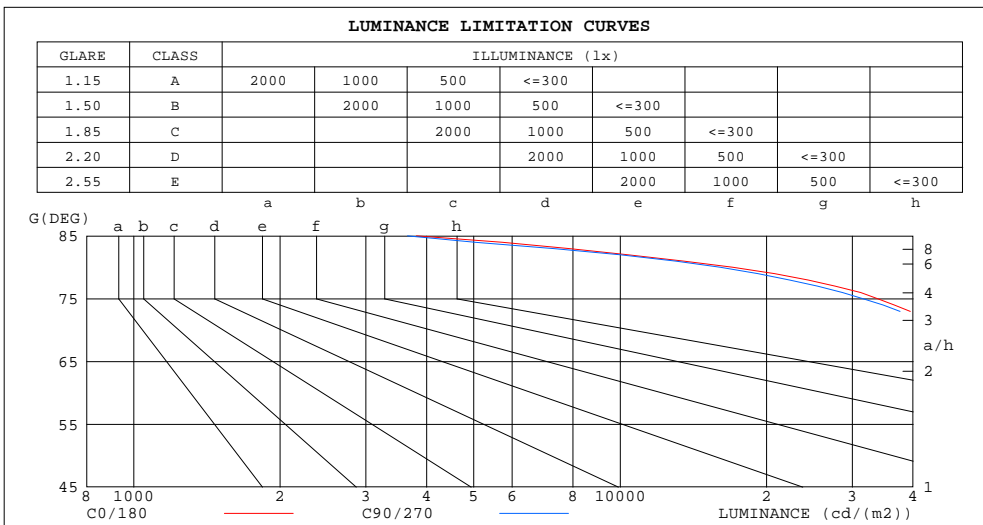
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	7346	7339	7359	7356	7352	7338	7348	7344	0- 10	706.2	706.2	3.43,3.43
20	7036	7047	7056	7046	7041	7023	7023	7019	10- 20	2040	2746	13.3,13.3
30	6505	6521	6529	6521	6505	6493	6484	6487	20- 30	3137	5882	28.5,28.5
40	5708	5736	5731	5745	5728	5705	5668	5693	30- 40	3845	9727	47.2,47.2
50	4673	4697	4628	4689	4686	4636	4549	4635	40- 50	4021	13748	66.7,66.7
60	3178	3181	3152	3192	3212	3123	3049	3111	50- 60	3493	17241	83.6,83.6
70	1605	1586	1560	1595	1635	1528	1446	1510	60- 70	2335	19577	95,95
80	295.6	277.2	278.5	287.0	318.7	255.4	227.9	238.6	70- 80	902.9	20480	99.3,99.3
90	3.054	2.981	2.976	2.969	2.830	2.485	2.335	2.335	80- 90	74.87	20555	99.7,99.7
100	4.061	3.906	3.451	3.847	3.359	3.401	3.303	3.355	90-100	3.099	20558	99.7,99.7
110	8.059	7.191	7.045	7.251	6.601	6.038	6.147	6.043	100-110	5.392	20563	99.7,99.7
120	12.03	11.05	9.731	11.16	8.987	8.909	8.481	8.754	110-120	8.165	20571	99.8,99.8
130	14.97	11.73	15.24	12.34	11.83	9.894	13.30	10.16	120-130	10.35	20582	99.8,99.8
140	15.76	12.98	15.72	12.59	12.06	11.62	14.77	10.92	130-140	10.38	20592	99.9,99.9
150	15.79	15.72	17.36	14.52	14.57	13.65	16.13	15.94	140-150	9.034	20601	99.9,99.9
160	14.47	17.01	18.12	16.97	14.78	14.35	15.99	15.79	150-160	7.204	20608	100,100
170	17.51	19.12	19.17	18.83	17.92	16.38	20.73	19.56	160-170	4.628	20613	100,100
180	18.27	19.73	21.93	19.65	18.07	16.49	20.30	19.34	170-180	1.811	20615	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:27.3DEG
 Operators:Leo
 Test Date:2017-12-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
 Humidity:44.8%
 Test Distance:26.000m [K=1.3311]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:277.00V I:0.5668A P:143.90W PF:0.9166 Freq:60.00Hz Lamp Flux:20614.7x1 lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3810	3657
80	17034	16046
75	33790	31532
70	46980	45639
65	57744	56063
60	63618	63081
55	68580	68533
50	72750	72047
45	73814	73650

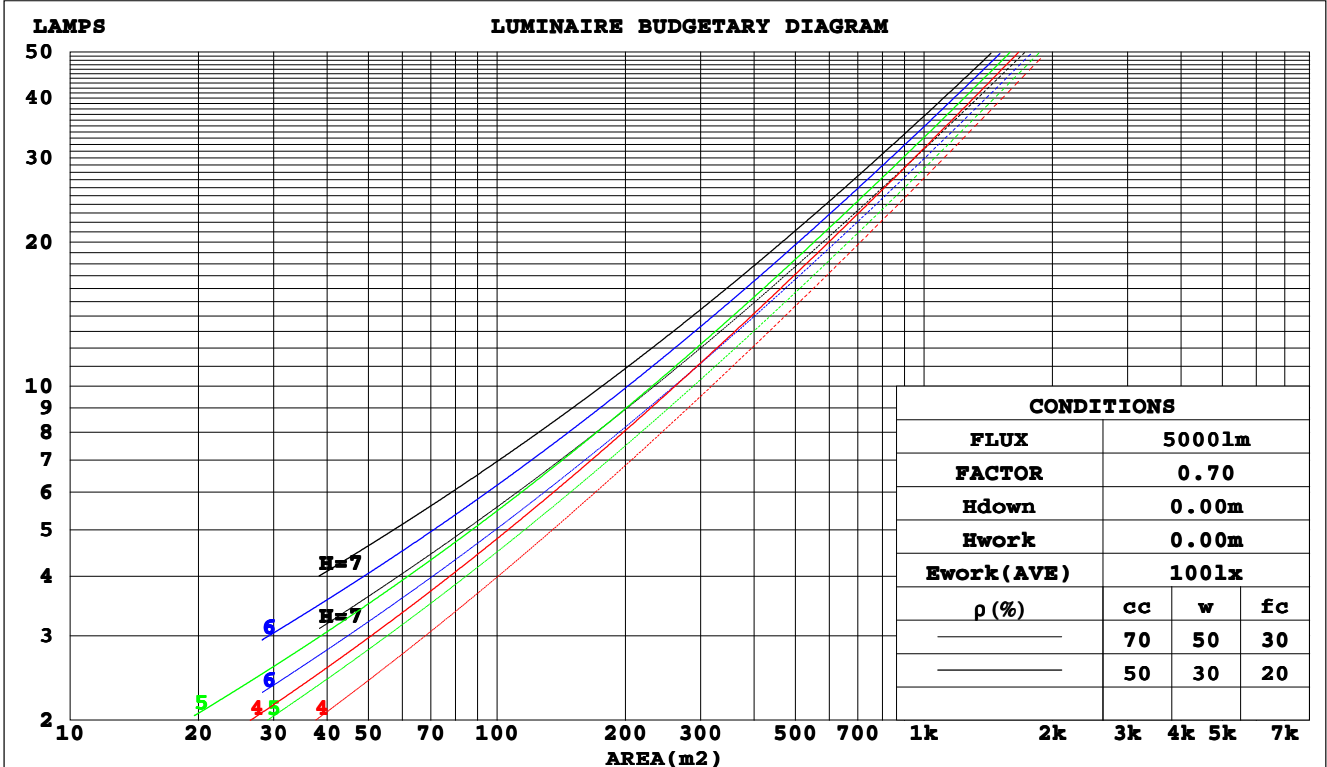
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 27.3DEG
Operators: Leo
Test Date: 2017-12-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity: 44.8%
Test Distance: 26.000m [K=1.3311]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:277.00V I:0.5668A P:143.90W PF:0.9166 Freq:60.00Hz Lamp Flux:20614.7x1 lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASMART LIGHT CO., LTD	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρw																
ρfc																
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.05	1.02	.98	1.03	.00	.96	.99	.96	.93	.95	.93	.90	.91	.89	.88	.86
2.0	.92	.86	.81	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.77	.74	.72
3.0	.82	.74	.68	.80	.73	.67	.77	.71	.66	.74	.69	.65	.72	.67	.63	.61
4.0	.72	.64	.57	.71	.63	.57	.68	.62	.56	.66	.60	.55	.64	.59	.55	.52
5.0	.65	.56	.49	.64	.55	.49	.61	.54	.49	.59	.53	.48	.58	.52	.48	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.43	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.48	.42	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.30	.43	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 27.3DEG
 Operators: Leo
 Test Date: 2017-12-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.284
 Humidity: 44.8%
 Test Distance: 26.000m [K=1.3311]
 Remarks:

WEC AND CCEC

Test:U:277.00V I:0.5668A P:143.90W PF:0.9166 Freq:60.00Hz Lamp Flux:20614.7x1 lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASHART LIGHT CO., LTD	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.279	.159	.050	.272	.155	.049	.259	.149	.047	.247	.142	.046	.235	.136	.044	
2.0	.271	.149	.046	.265	.146	.045	.254	.141	.044	.243	.136	.043	.233	.132	.042	
3.0	.256	.136	.041	.250	.134	.040	.240	.130	.040	.230	.126	.039	.222	.123	.038	
4.0	.239	.124	.036	.234	.122	.036	.225	.119	.036	.216	.116	.035	.208	.113	.034	
5.0	.223	.114	.033	.218	.112	.033	.210	.109	.032	.203	.107	.032	.196	.105	.031	
6.0	.208	.104	.030	.204	.103	.030	.197	.101	.029	.190	.099	.029	.184	.097	.029	
7.0	.194	.096	.027	.191	.095	.027	.184	.093	.027	.178	.091	.027	.173	.090	.026	
8.0	.182	.089	.025	.179	.088	.025	.173	.087	.025	.168	.085	.025	.163	.083	.024	
9.0	.171	.083	.023	.168	.082	.023	.163	.081	.023	.158	.079	.023	.154	.078	.023	
10.0	.161	.077	.021	.159	.077	.021	.154	.075	.021	.150	.074	.021	.145	.073	.021	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.193	.193	.193	.165	.165	.165	.112	.112	.112	.065	.065	.065	.021	.021	.021	
1.0	.180	.159	.139	.154	.136	.120	.106	.094	.083	.061	.054	.048	.019	.017	.016	
2.0	.172	.134	.103	.147	.116	.089	.101	.080	.062	.058	.047	.036	.019	.015	.012	
3.0	.164	.116	.079	.141	.100	.068	.097	.070	.048	.056	.041	.028	.018	.013	.009	
4.0	.157	.103	.062	.134	.089	.054	.092	.062	.038	.053	.036	.022	.017	.012	.007	
5.0	.149	.093	.051	.128	.080	.044	.088	.056	.031	.051	.033	.018	.017	.011	.006	
6.0	.143	.084	.042	.123	.073	.037	.085	.051	.026	.049	.030	.015	.016	.010	.005	
7.0	.136	.077	.036	.117	.067	.031	.081	.047	.022	.047	.028	.013	.015	.009	.004	
8.0	.130	.071	.031	.112	.062	.027	.077	.044	.019	.045	.026	.012	.015	.008	.004	
9.0	.124	.067	.028	.107	.058	.024	.074	.041	.017	.043	.024	.010	.014	.008	.003	
10.0	.118	.062	.025	.102	.054	.022	.071	.038	.015	.041	.023	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:27.3DEG
 Operators:Leo
 Test Date:2017-12-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
 Humidity:44.8%
 Test Distance:26.000m [K=1.3311]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:277.00V I:0.5668A P:143.90W PF:0.9166 Freq:60.00Hz Lamp Flux:20614.7x1 lm										
NAME: AST-HB05-150WSACGD2-40K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ASHART LIGHT CO., LTD					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	17.2	18.6	17.4	18.8	19.0	17.1	18.6	17.4	18.8	19.0
3H	18.2	19.6	18.5	19.8	20.1	18.1	19.5	18.4	19.7	20.0
4H	18.5	19.8	18.8	20.0	20.3	18.4	19.6	18.7	19.9	20.2
6H	18.5	19.7	18.9	20.0	20.3	18.4	19.6	18.7	19.9	20.1
8H	18.5	19.7	18.8	19.9	20.2	18.3	19.5	18.7	19.8	20.1
12H	18.4	19.6	18.8	19.9	20.2	18.3	19.4	18.6	19.7	20.0
4H 2H	17.6	18.9	18.0	19.2	19.4	17.6	18.9	17.9	19.1	19.4
3H	18.9	20.0	19.2	20.3	20.6	18.8	19.9	19.1	20.2	20.5
4H	19.2	20.2	19.6	20.5	20.9	19.0	20.1	19.4	20.4	20.7
6H	19.3	20.2	19.7	20.5	20.9	19.1	20.0	19.5	20.4	20.7
8H	19.2	20.1	19.7	20.4	20.8	19.1	19.9	19.5	20.3	20.7
12H	19.2	20.0	19.6	20.3	20.8	19.0	19.8	19.5	20.2	20.6
8H 4H	19.2	20.1	19.7	20.4	20.8	19.1	19.9	19.5	20.3	20.7
6H	19.4	20.0	19.8	20.4	20.9	19.2	19.9	19.7	20.3	20.7
8H	19.3	19.9	19.8	20.4	20.8	19.2	19.8	19.7	20.2	20.7
12H	19.3	19.8	19.8	20.3	20.8	19.2	19.7	19.6	20.1	20.6
12H 4H	19.2	20.0	19.6	20.3	20.8	19.1	19.8	19.5	20.2	20.6
6H	19.3	19.9	19.8	20.4	20.8	19.2	19.8	19.6	20.2	20.7
8H	19.3	19.8	19.8	20.3	20.8	19.2	19.7	19.7	20.1	20.6
Variations with the observer position at spacings:										
s = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.3 / - 0.5					+ 0.3 / - 0.5				
2.0H	+ 0.5 / - 0.4					+ 0.5 / - 0.4				

CIE Pub.117, 20615 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.5)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:27.3DEG
 Operators:Leo
 Test Date:2017-12-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
 Humidity:44.8%
 Test Distance:26.000m [K=1.3311]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:277.00V I:0.5668A P:143.90W PF:0.9166 Freq:60.00Hz Lamp Flux:20614.7x1 Lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	SUR.:	Shielding Angle:

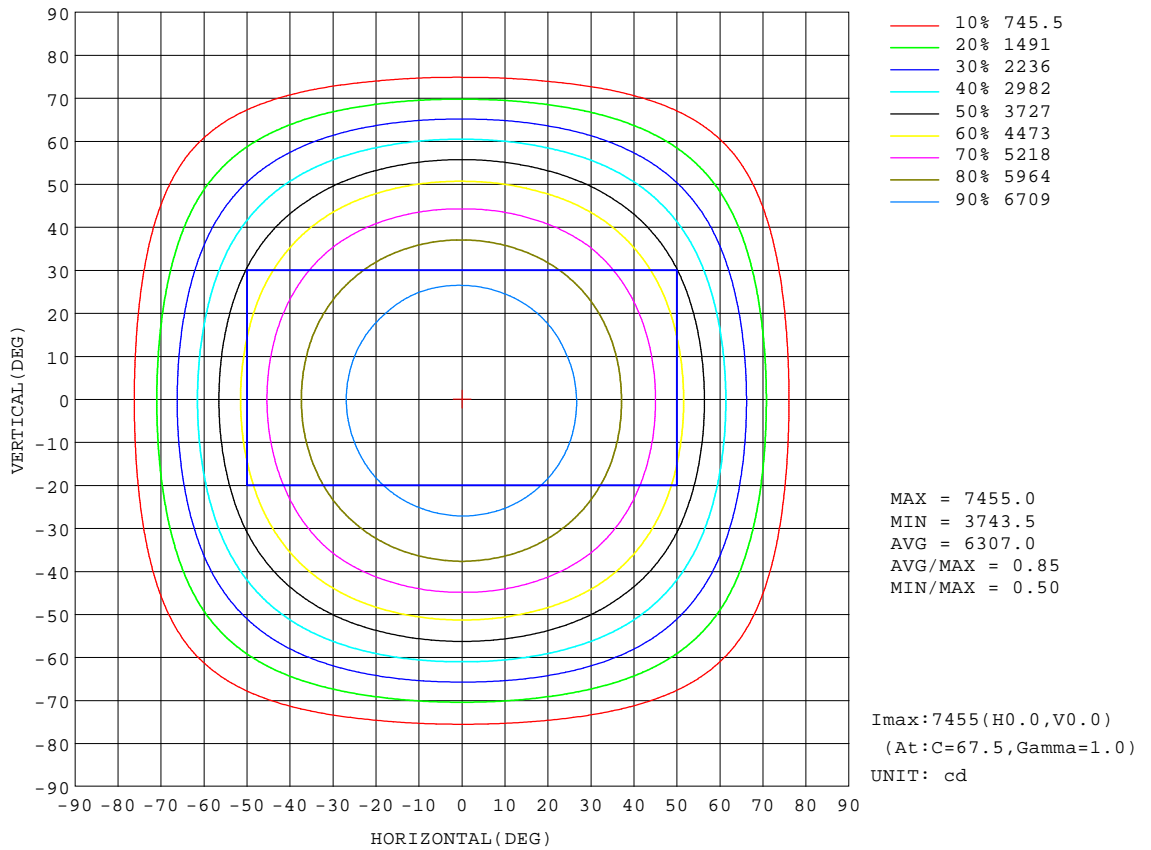
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	47	40	58	47	40	57	46	40	34
0.80	69	58	51	68	57	50	66	57	50	43
1.00	78	67	60	77	67	60	74	68	59	52
1.25	85	75	68	84	74	68	81	73	67	60
1.50	90	81	74	88	80	74	85	78	73	65
2.00	97	89	83	95	88	82	92	85	81	73
2.50	100	93	88	98	92	87	95	89	85	77
3.00	104	97	92	102	96	91	98	93	89	81
4.00	107	102	98	105	101	97	101	97	94	85
5.00	110	105	102	107	103	100	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:27.3DEG
 Operators:Leo
 Test Date:2017-12-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
 Humidity:44.8%
 Test Distance:26.000m [K=1.3311]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:277.00V I:0.5668A P:143.90W PF:0.9166 Freq:60.00Hz Lamp Flux:20614.7x1 lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	SUR.:	Shielding Angle:



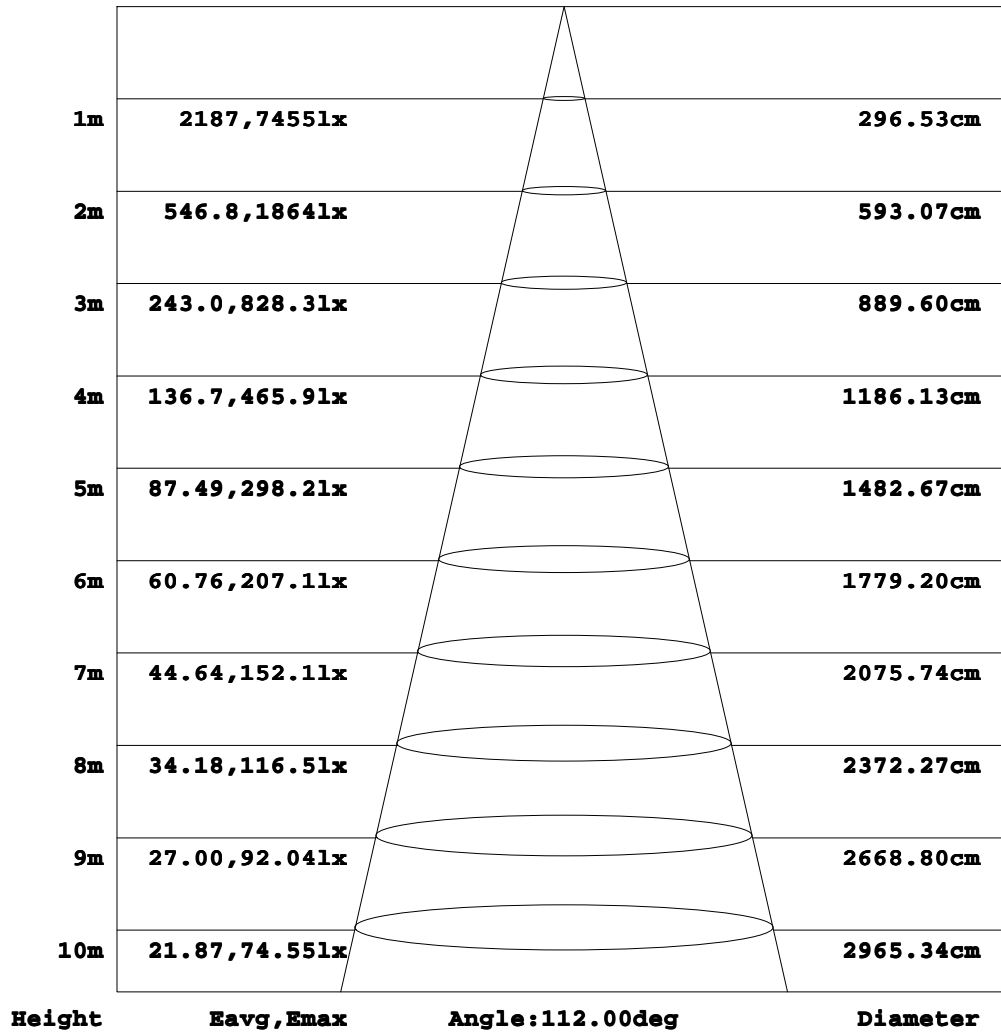
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 27.3DEG
Operators: Leo
Test Date: 2017-12-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity: 44.8%
Test Distance: 26.000m [K=1.3311]
Remarks:

AAI Figure

Test:U:277.00V I:0.5668A P:143.90W PF:0.9166 Freq:60.00Hz Lamp Flux:20614.7x1 lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	SUR.:	Shielding Angle:

Flux out:16294 lm



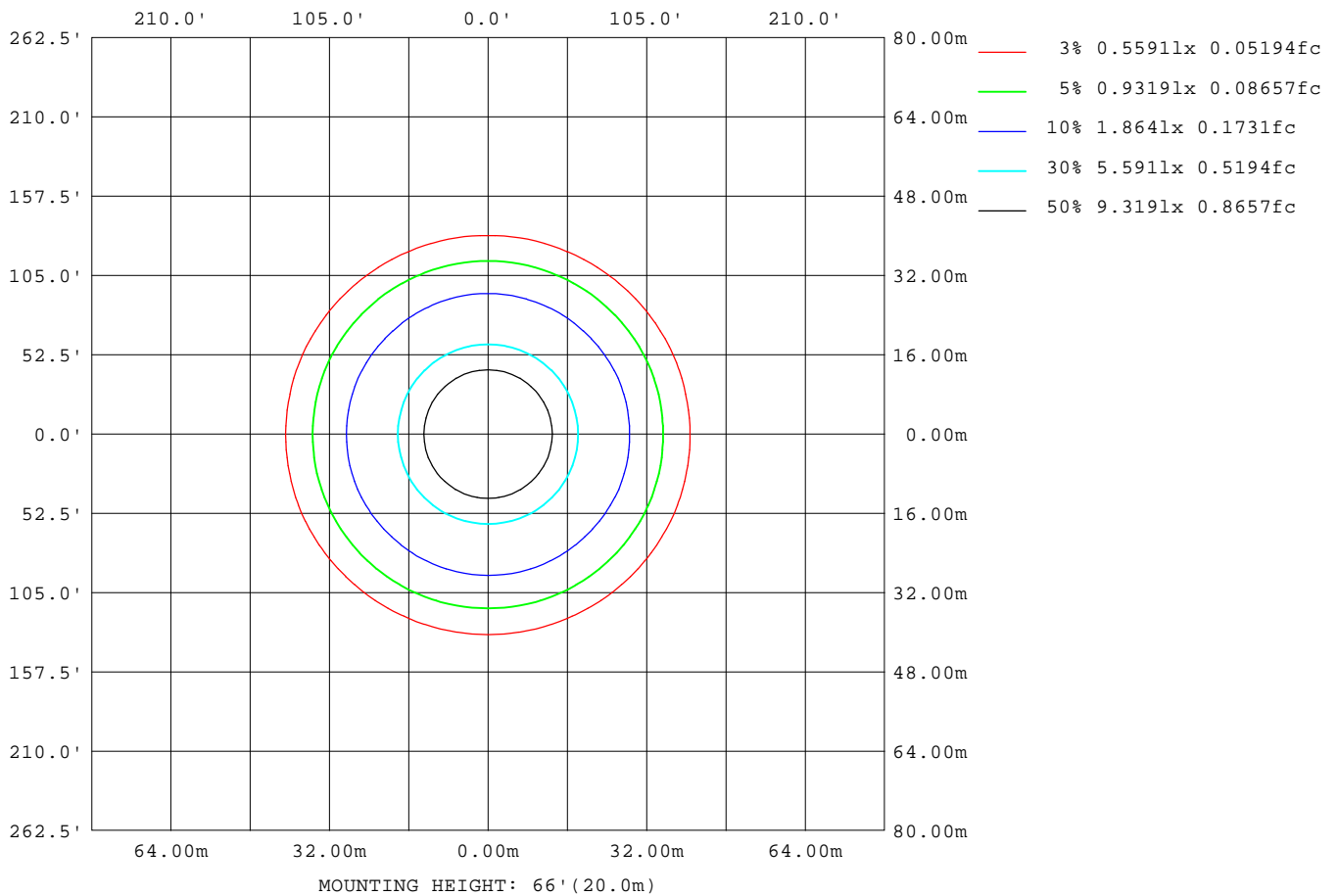
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:27.3DEG
 Operators:Leo
 Test Date:2017-12-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
 Humidity:44.8%
 Test Distance:26.000m [K=1.3311]
 Remarks:

ISOLUX DIAGRAM

Test:U:277.00V I:0.5668A P:143.90W PF:0.9166 Freq:60.00Hz Lamp Flux:20614.7x1 lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 27.3DEG
Operators: Leo
Test Date: 2017-12-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity: 44.8%
Test Distance: 26.000m [K=1.3311]
Remarks:

LED Avg.L Report

Test:U:277.00V I:0.5668A P:143.90W PF:0.9166 Freq:60.00Hz Lamp Flux:20614.7x1 lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	SUR.:	Shielding Angle:

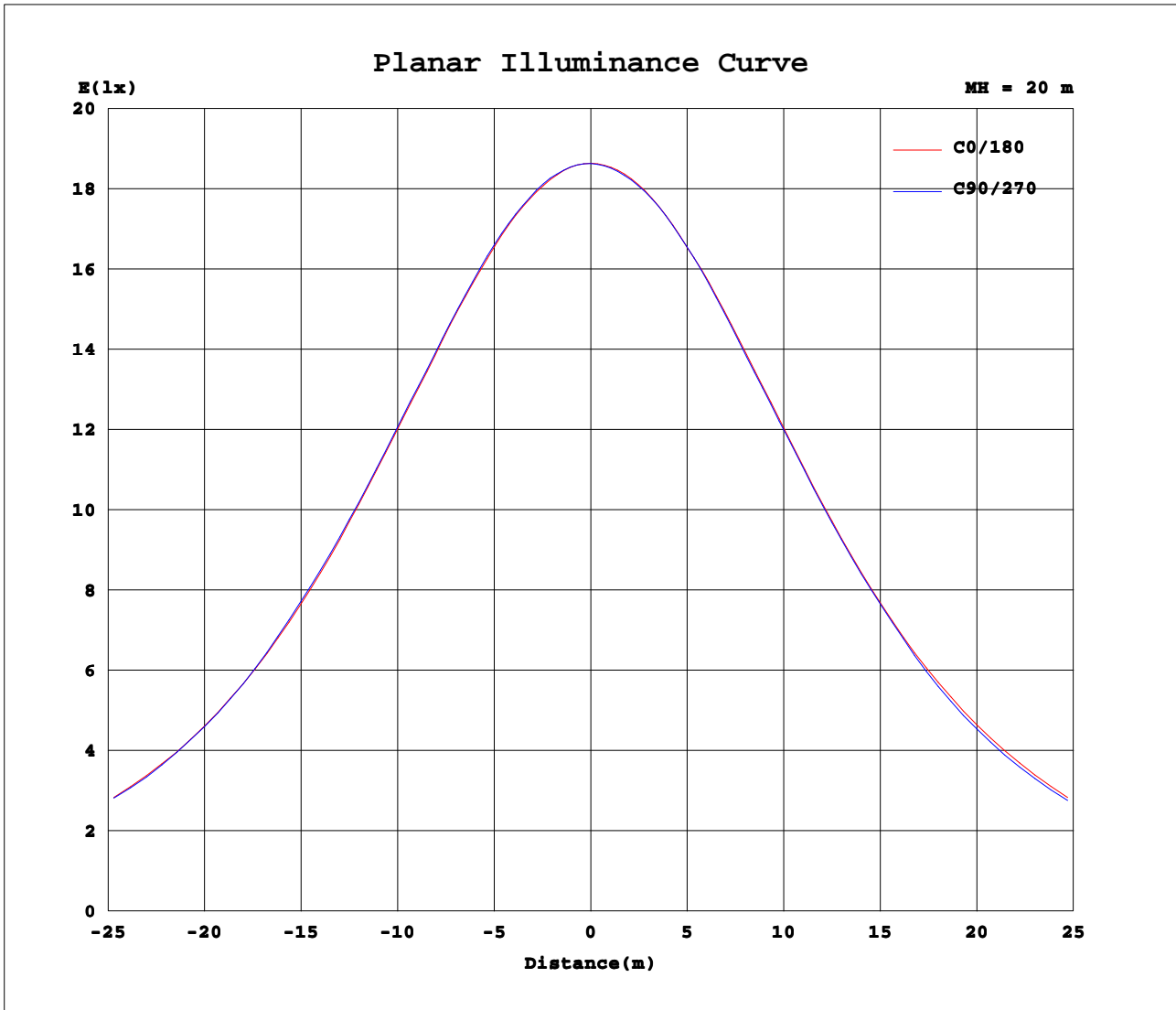
AvgL	cd/m2
L_0~180(65)av	57820
L_0~180(75)av	34238
L_0~180(85)av	4130
L_90~270(65)av	54645
L_90~270(75)av	29692
L_90~270(85)av	3273
L_45(65)av	56288
L_45(75)av	31735
L_45(85)av	3694

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:27.3DEG
 Operators:Leo
 Test Date:2017-12-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.284
 Humidity:44.8%
 Test Distance:26.000m [K=1.3311]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 27.3DEG
Operators: Leo
Test Date: 2017-12-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.284
Humidity: 44.8%
Test Distance: 26.000m [K=1.3311]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.00V I:0.5668A P:143.90W PF:0.9166 Freq:60.00Hz Lamp Flux:20614.7x1 lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	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	7449	7449	7449	7449	7449	7449	7449	7449	7449	7449	7449	7449	7449	7449	7449	7449			
5	7419	7426	7411	7429	7429	7421	7421	7436	7427	7436	7407	7428	7414	7409	7414	7421			
10	7346	7357	7339	7357	7359	7344	7356	7364	7352	7357	7338	7345	7348	7334	7344	7345			
15	7213	7224	7219	7241	7241	7224	7227	7231	7217	7227	7214	7218	7220	7216	7216	7219			
20	7036	7042	7047	7061	7056	7053	7046	7048	7041	7032	7023	7035	7023	7017	7019	7026			
25	6797	6815	6814	6826	6828	6814	6815	6822	6809	6800	6784	6786	6784	6778	6787	6791			
30	6505	6511	6521	6530	6529	6517	6521	6515	6505	6507	6493	6500	6484	6491	6487	6494			
35	6133	6155	6154	6179	6177	6167	6168	6169	6149	6146	6136	6133	6123	6117	6120	6143			
40	5708	5733	5736	5749	5731	5750	5745	5738	5728	5725	5705	5709	5668	5688	5693	5710			
45	5215	5243	5250	5223	5204	5218	5264	5256	5249	5251	5222	5163	5133	5150	5215	5225			
50	4673	4693	4697	4645	4628	4639	4689	4701	4686	4673	4636	4570	4549	4559	4635	4667			
55	3930	3971	3916	3936	3928	3915	3911	3964	3950	3934	3846	3832	3832	3822	3846	3932			
60	3178	3203	3181	3160	3152	3155	3192	3215	3212	3196	3123	3065	3049	3056	3111	3176			
65	2438	2460	2422	2379	2368	2380	2424	2459	2449	2423	2344	2283	2251	2273	2326	2411			
70	1605	1621	1586	1565	1560	1565	1595	1639	1635	1602	1528	1477	1446	1463	1510	1577			
75	874	878	849	823	816	820	857	895	898	866	798	736	721	727	782	845			
80	296	296	277	279	278	280	287	310	319	295	255	240	228	230	239	278			
85	33.2	33.8	34.5	35.1	31.8	35.5	35.5	37.6	38.8	32.9	30.2	26.7	25.2	26.6	28.6	29.8			
90	3.05	3.11	2.98	3.09	2.98	2.70	2.97	3.15	2.83	4.15	2.48	2.29	2.33	2.43	2.34	4.28			
95	2.84	3.08	2.93	2.49	2.53	2.51	2.54	2.85	2.54	2.64	2.43	2.54	2.49	2.43	2.59	2.64			
100	4.06	4.07	3.91	3.79	3.45	3.49	3.85	4.11	3.36	3.46	3.40	3.36	3.30	3.35	3.35	3.62			
105	6.04	5.69	5.47	5.02	4.87	4.96	5.52	6.04	4.72	4.73	4.67	4.42	4.37	4.36	4.72	4.88			
110	8.06	8.02	7.19	6.70	7.04	6.89	7.25	7.92	6.60	6.31	6.04	6.10	6.15	5.98	6.04	6.76			
115	9.99	10.0	9.02	7.97	8.42	7.55	9.33	10.3	8.03	8.09	7.26	6.75	7.73	6.48	7.22	8.09			
120	12.0	11.4	11.1	10.7	9.73	9.86	11.2	11.8	8.99	9.15	8.91	9.25	8.48	7.91	8.75	9.00			
125	13.7	13.4	11.8	13.6	14.5	13.3	11.6	13.8	9.80	10.1	9.23	11.0	11.8	10.3	8.99	9.97			
130	15.0	14.2	11.7	14.8	15.2	14.4	12.3	14.4	11.8	11.3	9.89	12.6	13.3	12.2	10.2	10.9			
135	15.4	14.5	12.2	15.8	15.6	15.4	13.6	14.4	12.7	11.6	11.3	13.7	14.1	13.0	10.7	11.8			
140	15.8	14.4	13.0	16.2	15.7	15.8	12.6	14.7	12.1	13.0	11.6	13.8	14.8	13.8	10.9	12.9			
145	16.0	14.0	13.7	17.0	15.0	16.4	12.0	14.8	14.3	13.4	12.2	14.0	13.9	14.6	12.7	13.4			
150	15.8	13.6	15.7	17.2	17.4	17.2	14.5	15.0	14.6	14.1	13.7	15.2	16.1	15.5	15.9	13.6			
155	15.5	13.5	16.6	17.0	18.2	17.3	16.4	15.4	14.2	14.8	14.0	16.2	15.1	15.1	15.9	14.0			
160	14.5	13.4	17.0	16.8	18.1	17.5	17.0	15.2	14.8	14.7	14.3	16.4	16.0	15.8	15.8	15.2			
165	16.1	13.9	17.3	16.6	17.4	18.4	16.8	14.6	15.6	15.3	14.6	16.5	15.5	16.0	15.7	16.0			
170	17.5	15.2	19.1	19.6	19.2	19.9	18.8	15.4	17.9	17.8	16.4	19.9	20.7	20.1	19.6	18.7			
175	18.5	16.2	19.6	20.2	21.7	20.3	19.4	16.3	18.5	18.7	16.7	19.6	21.1	21.3	19.8	19.4			
180	18.3	16.5	19.7	20.3	21.9	19.5	19.6	16.4	18.1	18.4	16.5	19.3	20.3	21.7	19.3	19.4			

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