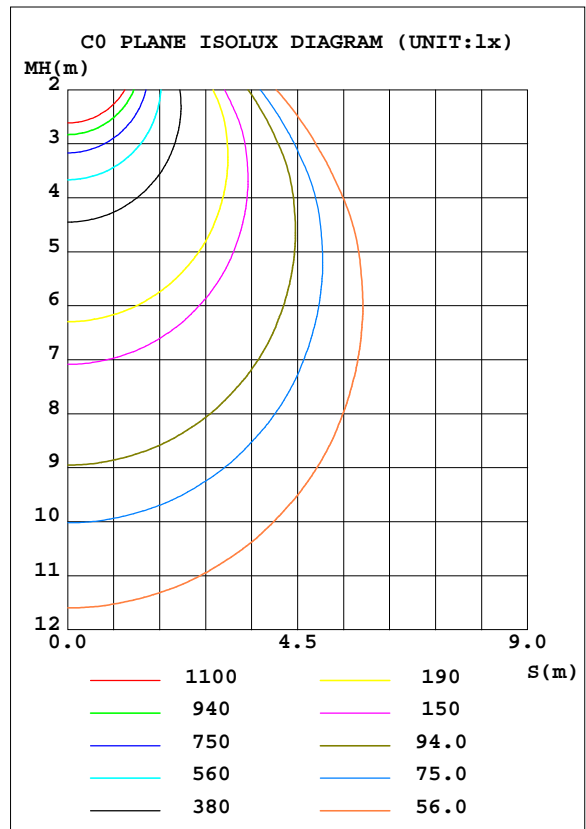
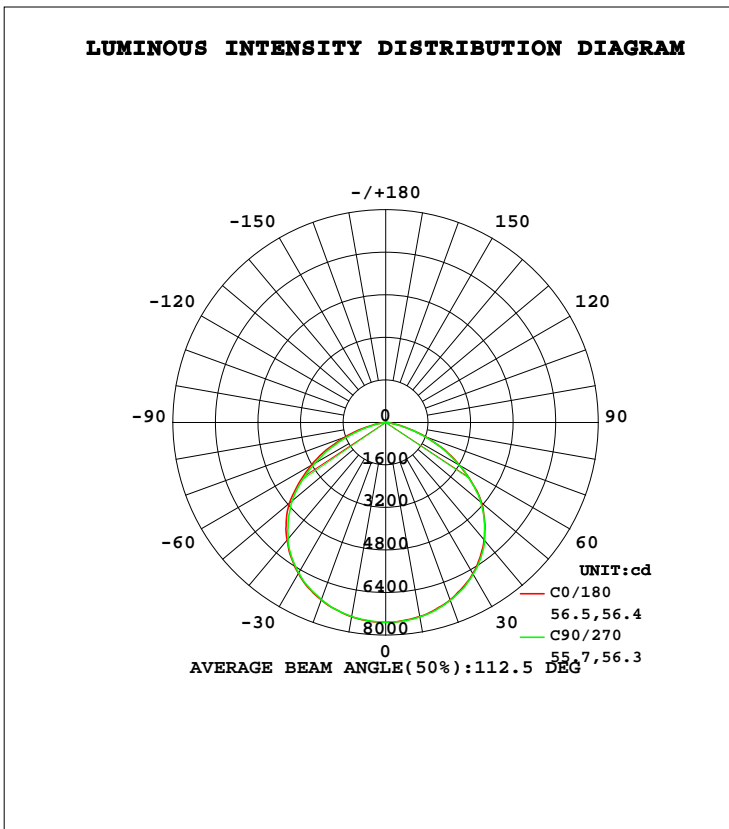


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:1.2480A P:148.70W PF:0.9929 Freq:60.00Hz Lamp Flux:20799.1x1 lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASHART LIGHT CO., LTD	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 139.87 lm/W			
MODEL: AST-HB05-150WSACGD2-40K		Imax(cd)	7519	S/MH(C0/180)	1.30
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	20799	η UP, DN(C0-180)	0.2,50.1
NOMINAL FLUX(lm)	20799.1	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)	120.0	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:

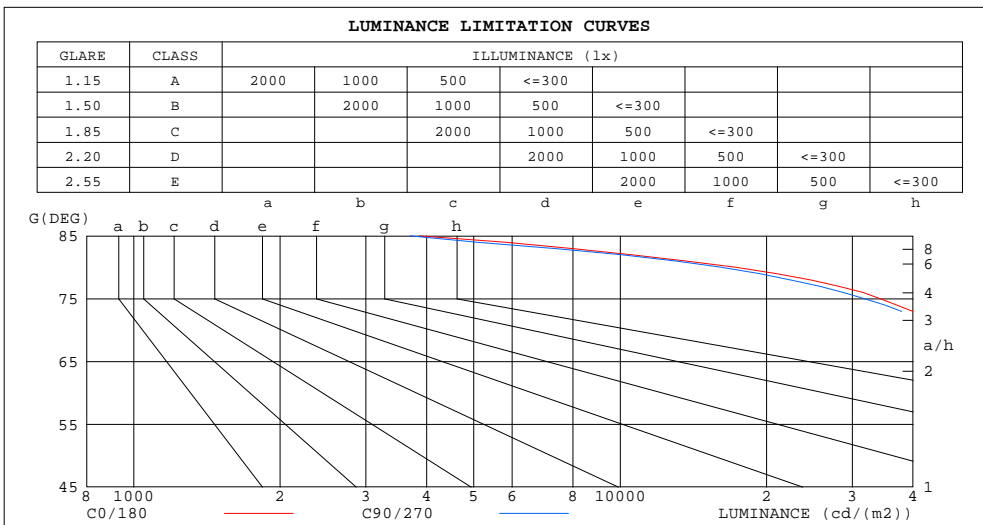
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	7412	7406	7425	7422	7418	7404	7414	7410	0- 10	712.5	712.5	3.43,3.43
20	7101	7109	7117	7110	7103	7086	7083	7082	10- 20	2058	2770	13.3,13.3
30	6565	6579	6587	6580	6563	6551	6541	6544	20- 30	3165	5935	28.5,28.5
40	5761	5786	5784	5796	5778	5755	5717	5744	30- 40	3879	9814	47.2,47.2
50	4717	4740	4669	4733	4728	4677	4590	4677	40- 50	4057	13871	66.7,66.7
60	3208	3209	3180	3221	3252	3149	3070	3140	50- 60	3525	17395	83.6,83.6
70	1621	1597	1574	1609	1647	1540	1457	1522	60- 70	2356	19751	95,95
80	299.3	280.2	280.1	288.5	321.5	255.4	230.3	241.5	70- 80	910.7	20662	99.3,99.3
90	3.196	3.006	3.081	3.084	3.367	2.431	2.387	6.159	80- 90	75.62	20738	99.7,99.7
100	4.199	3.944	3.752	3.956	3.503	3.448	3.358	3.610	90-100	3.314	20741	99.7,99.7
110	8.303	7.239	7.208	7.562	6.847	5.982	6.258	6.408	100-110	5.547	20747	99.7,99.7
120	12.21	11.19	9.799	11.37	9.326	8.676	8.605	9.091	110-120	8.345	20755	99.8,99.8
130	15.30	11.88	15.44	12.74	12.07	9.980	13.41	10.56	120-130	10.53	20765	99.8,99.8
140	16.06	13.07	16.26	12.95	13.68	11.76	14.66	11.33	130-140	10.57	20776	99.9,99.9
150	16.27	15.84	17.71	14.92	15.10	13.88	16.35	15.93	140-150	9.184	20785	99.9,99.9
160	14.79	17.07	18.34	17.06	15.15	14.61	15.87	16.18	150-160	7.324	20793	100,100
170	17.78	19.19	19.45	18.99	18.25	16.41	20.84	20.07	160-170	4.688	20797	100,100
180	18.74	19.61	22.15	19.80	18.44	16.56	20.58	19.75	170-180	1.846	20799	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:120.00V I:1.2480A P:148.70W PF:0.9929 Freq:60.00Hz Lamp Flux:20799.1x1 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	3867	3700
80	17266	16120
75	34190	31771
70	47483	45998
65	58277	56449
60	64280	63559
55	69263	69076
50	73511	72576
45	74607	74217

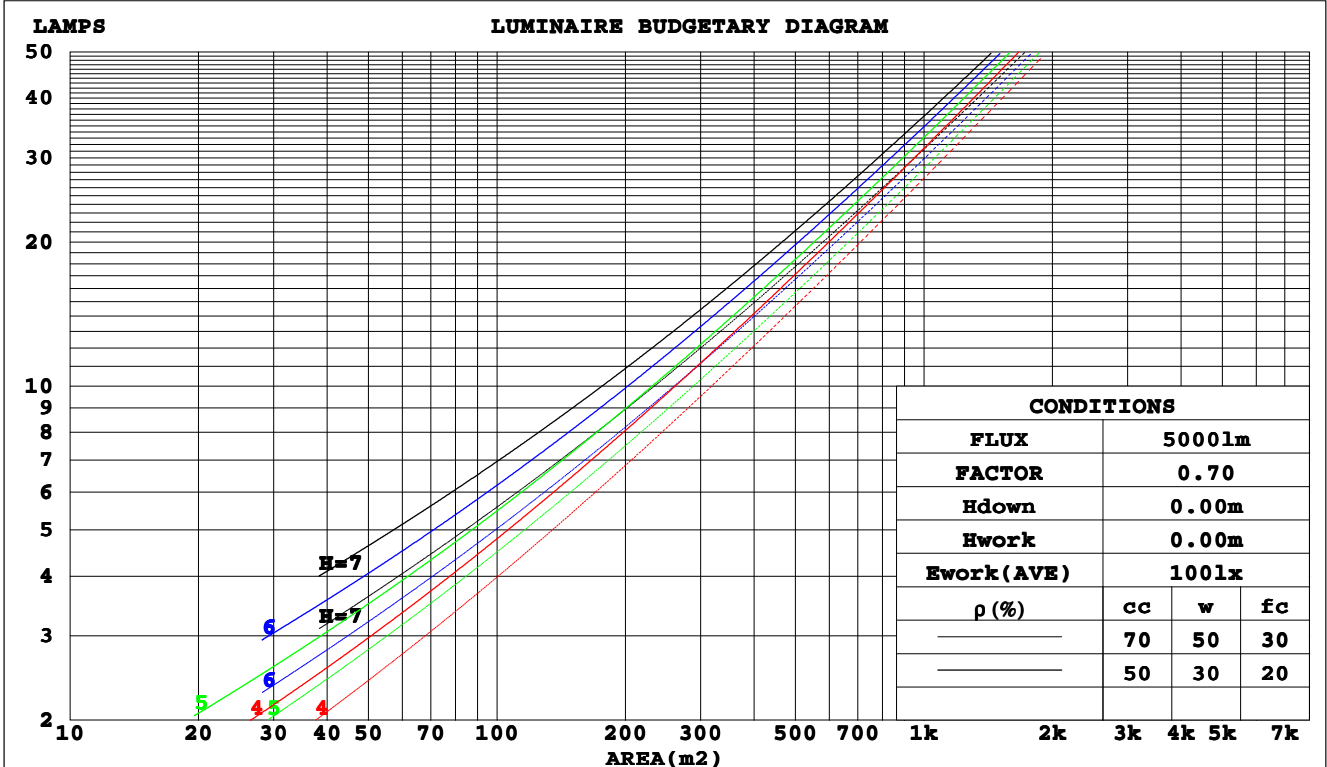
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 27.3DEG
Operators: Leo
Test Date: 2017-12-15

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:120.00V I:1.2480A P:148.70W PF:0.9929 Freq:60.00Hz Lamp Flux:20799.1x1 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															
	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	.90	.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:120.00V I:1.2480A P:148.70W PF:0.9929 Freq:60.00Hz Lamp Flux:20799.1x1 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																
1.0	.193	.193	.193	.165	.165	.165	.112	.112	.112	.065	.065	.065	.021	.021	.021	
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	.072	.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	.016	.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:120.00V I:1.2480A P:148.70W PF:0.9929 Freq:60.00Hz Lamp Flux:20799.1x1 lm										
NAME: AST-HB05-150WSACGD2-40K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ASmart 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	19.1	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	18.3	19.6	18.7	19.9	20.1
6H	18.5	19.7	18.9	20.0	20.3	18.4	19.6	18.7	19.8	20.1
8H	18.5	19.7	18.8	19.9	20.2	18.3	19.5	18.7	19.8	20.1
12H	18.5	19.6	18.8	19.9	20.2	18.3	19.4	18.6	19.7	20.0
4H 2H	17.7	18.9	18.0	19.2	19.5	17.6	18.9	17.9	19.1	19.4
3H	18.9	20.0	19.2	20.3	20.6	18.7	19.9	19.1	20.2	20.5
4H	19.2	20.2	19.6	20.5	20.9	19.0	20.0	19.4	20.4	20.7
6H	19.3	20.2	19.7	20.5	20.9	19.1	20.0	19.5	20.3	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	20.4	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	20.1	19.8	20.5	20.9	19.2	19.9	19.6	20.3	20.7
8H	19.4	20.0	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	20.4	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	19.6	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, 20799 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:120.00V I:1.2480A P:148.70W PF:0.9929 Freq:60.00Hz Lamp Flux:20799.1x1 Lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	SUR.:	Shielding Angle:

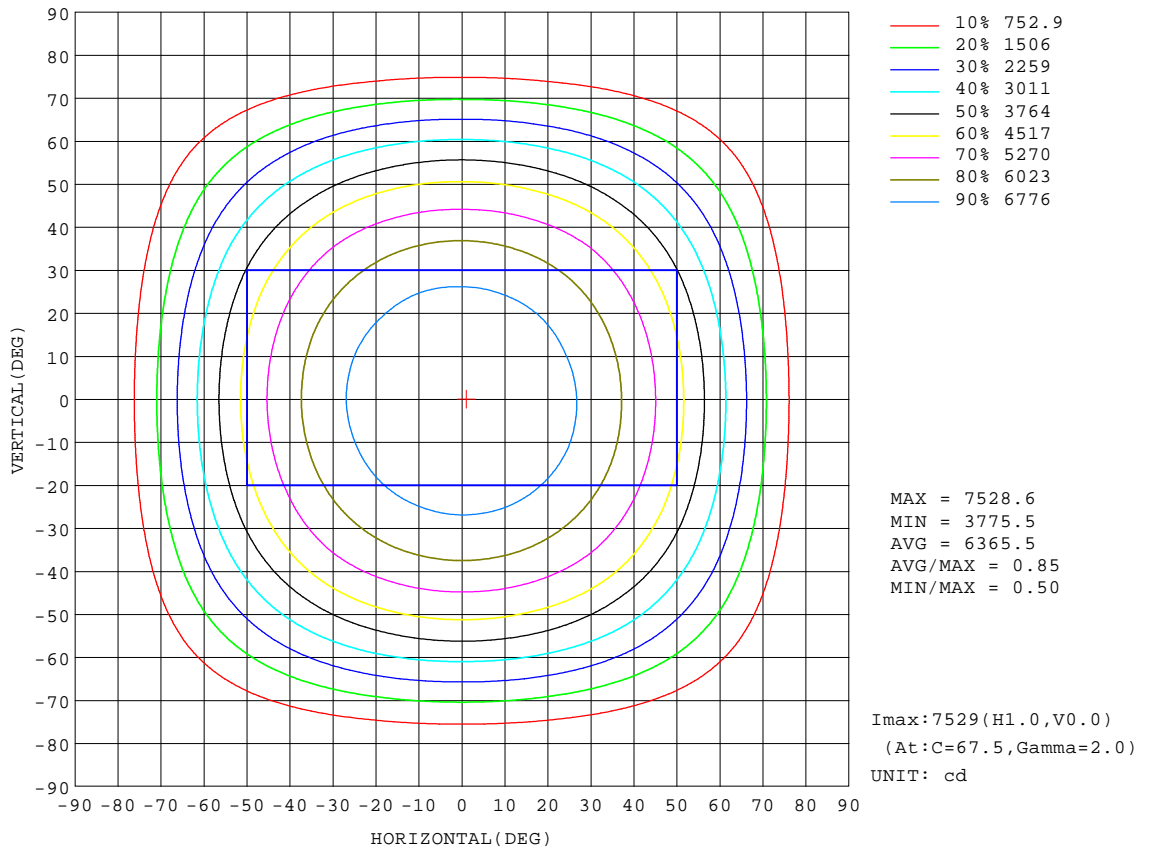
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	47	40	58	47	40	57	46	40	34
0.80	69	58	51	68	57	50	66	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:120.00V I:1.2480A P:148.70W PF:0.9929 Freq:60.00Hz Lamp Flux:20799.1x1 lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	SUR.:	Shielding Angle:



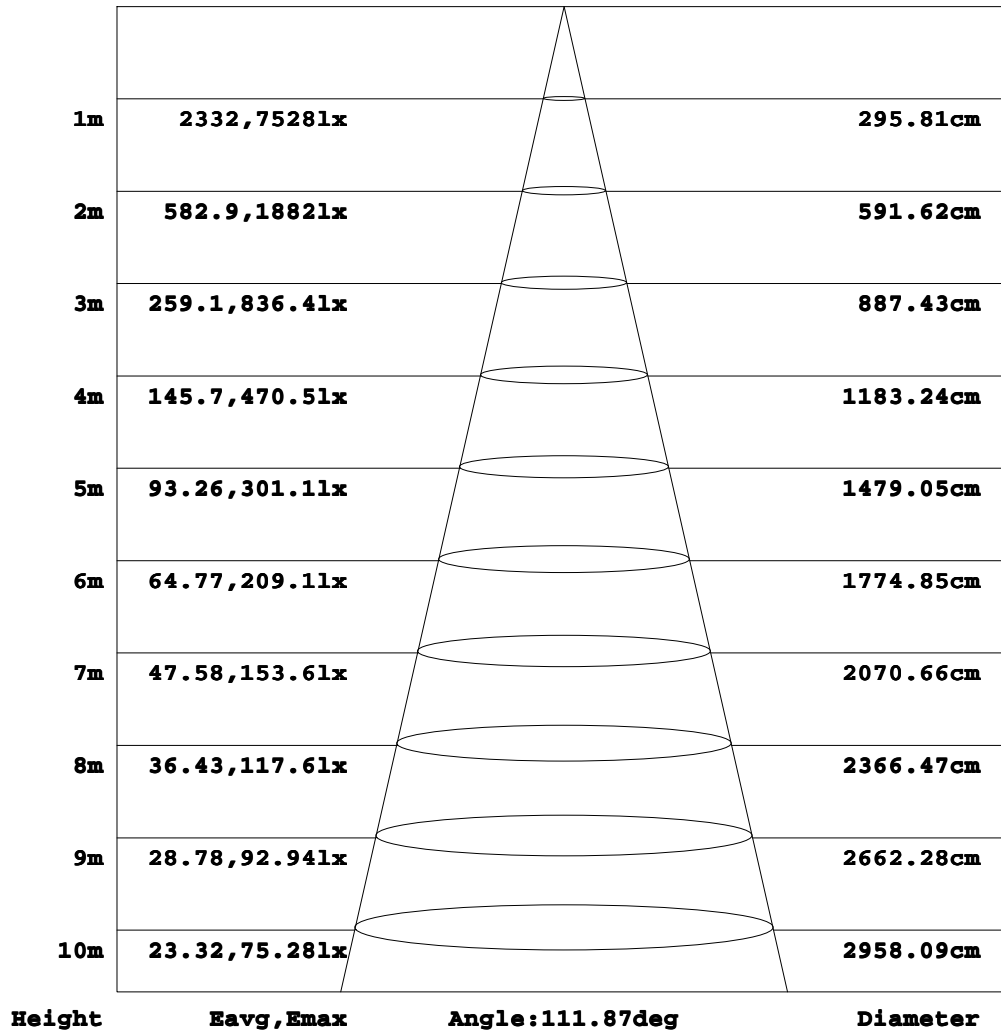
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 27.3DEG
Operators: Leo
Test Date: 2017-12-15

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:120.00V I:1.2480A P:148.70W PF:0.9929 Freq:60.00Hz Lamp Flux:20799.1x1 lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASMART LIGHT CO., LTD	SUR.:	Shielding Angle:

Flux out:16100 lm



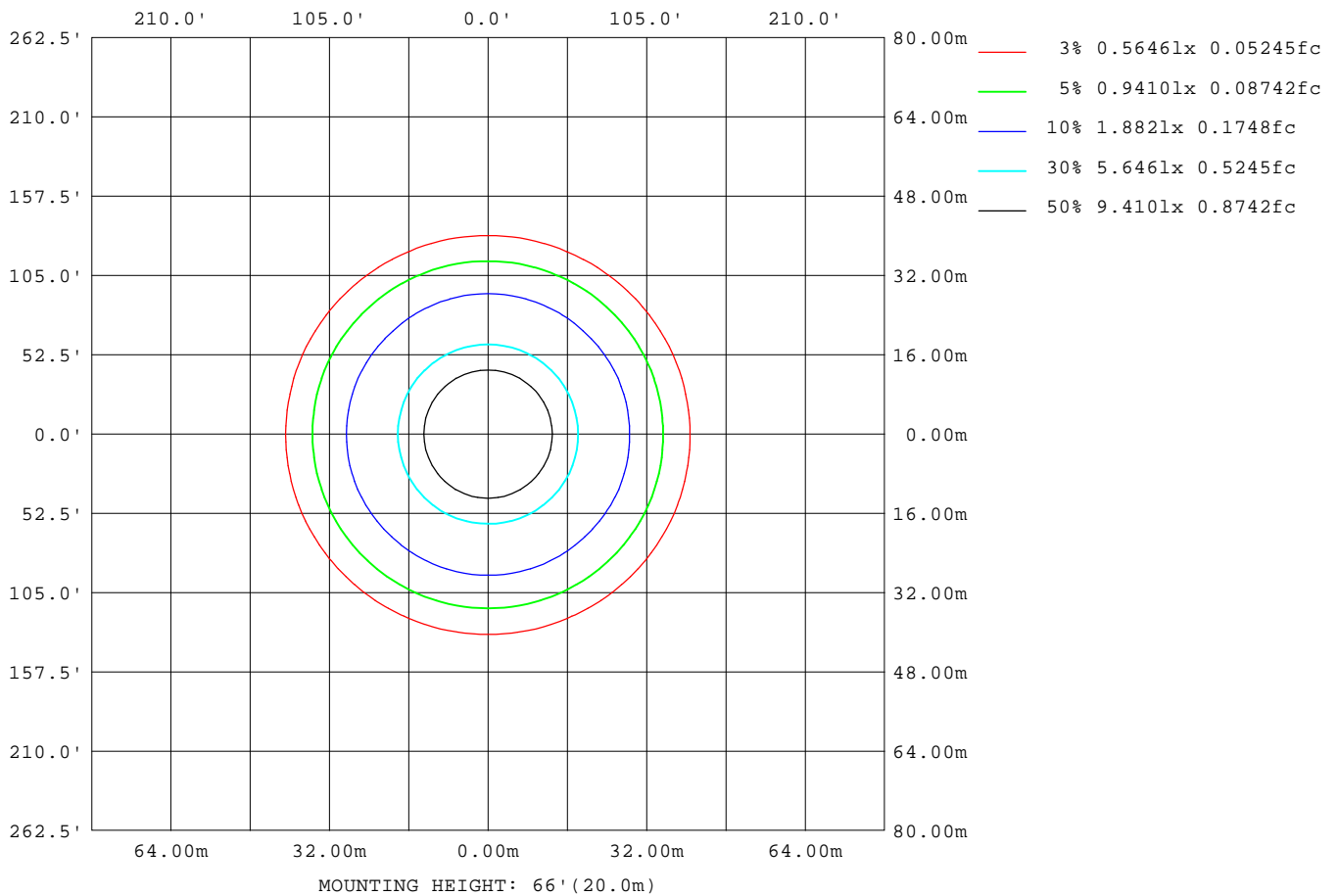
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.00V I:1.2480A P:148.70W PF:0.9929 Freq:60.00Hz Lamp Flux:20799.1x1 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:120.00V I:1.2480A P:148.70W PF:0.9929 Freq:60.00Hz Lamp Flux:20799.1x1 lm		
NAME: AST-HB05-150WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	SUR.:	Shielding Angle:

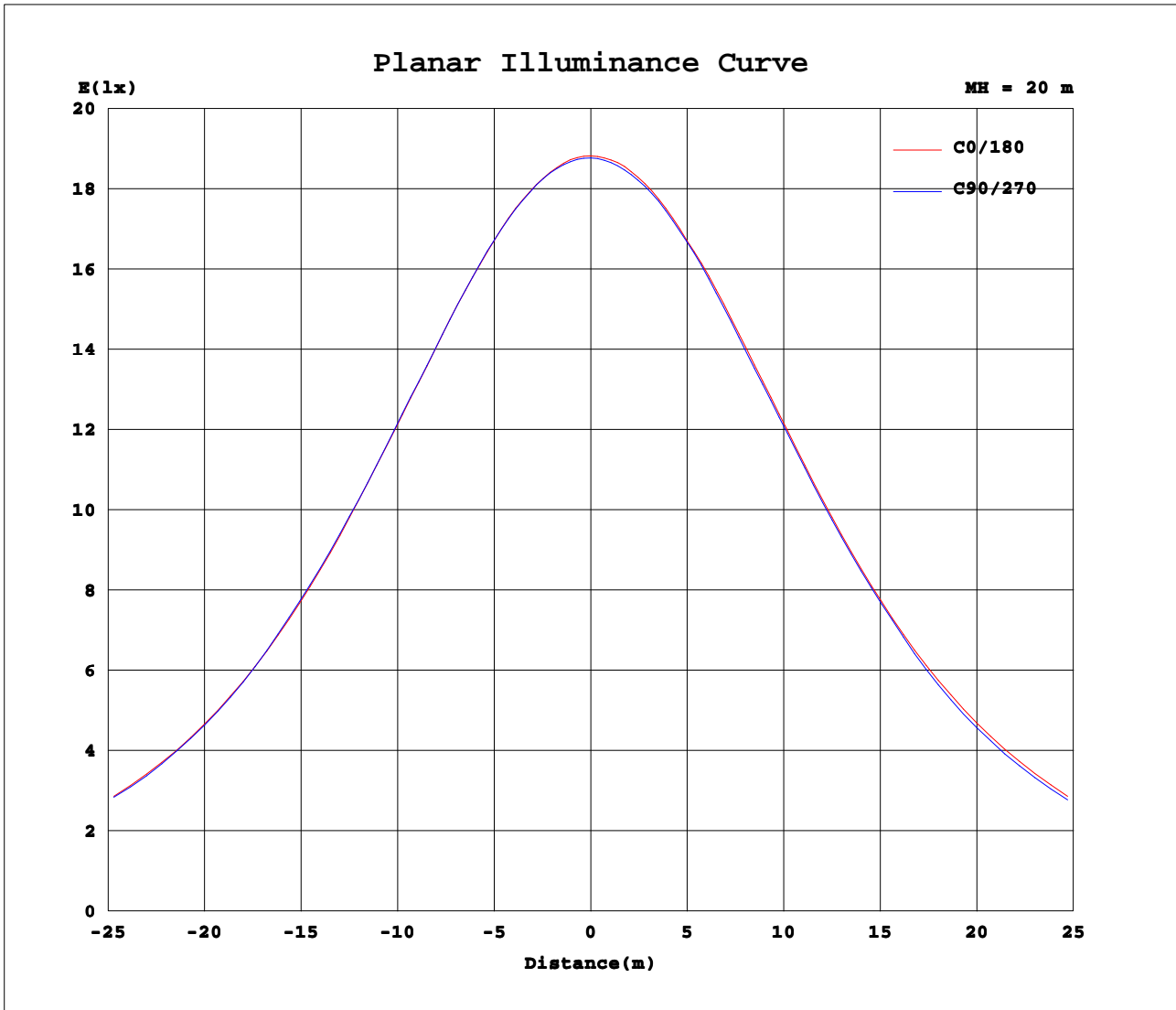
AvgL	cd/m2
L_0~180(65)av	58301
L_0~180(75)av	34593
L_0~180(85)av	4196
L_90~270(65)av	55102
L_90~270(75)av	29964
L_90~270(85)av	3307
L_45(65)av	56800
L_45(75)av	31993
L_45(85)av	3744

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:120.00V I:1.2480A P:148.70W PF:0.9929 Freq:60.00Hz Lamp Flux:20799.1x1 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	7515	7515	7515	7515	7515	7515	7515	7515	7515	7515	7515	7515	7515	7515	7515	7515			
5	7485	7492	7478	7493	7495	7488	7488	7502	7495	7503	7473	7495	7481	7476	7481	7486			
10	7412	7421	7406	7423	7425	7408	7422	7430	7418	7421	7404	7411	7414	7397	7410	7410			
15	7279	7288	7284	7305	7306	7289	7294	7293	7281	7290	7279	7281	7284	7279	7282	7283			
20	7101	7102	7109	7120	7117	7116	7110	7109	7103	7093	7086	7096	7083	7077	7082	7087			
25	6859	6877	6875	6886	6889	6875	6877	6882	6870	6860	6845	6847	6844	6837	6848	6850			
30	6565	6570	6579	6589	6587	6576	6580	6573	6563	6564	6551	6557	6541	6549	6544	6549			
35	6189	6208	6211	6232	6231	6221	6224	6223	6203	6201	6192	6187	6176	6171	6175	6197			
40	5761	5785	5786	5800	5784	5802	5796	5788	5778	5776	5755	5760	5717	5740	5744	5761			
45	5266	5289	5297	5268	5252	5266	5310	5301	5295	5295	5269	5209	5179	5194	5264	5273			
50	4717	4735	4740	4687	4669	4684	4733	4743	4728	4715	4677	4612	4590	4601	4677	4708			
55	3966	4005	3951	3970	3965	3951	3949	4000	3985	3969	3878	3863	3867	3858	3880	3964			
60	3208	3231	3209	3187	3180	3183	3221	3245	3252	3240	3149	3095	3070	3087	3140	3201			
65	2459	2479	2444	2400	2388	2401	2447	2482	2469	2441	2365	2304	2270	2292	2346	2432			
70	1621	1637	1597	1577	1574	1582	1609	1653	1647	1616	1540	1489	1457	1475	1522	1590			
75	883	886	855	829	823	830	864	903	907	874	804	743	728	733	789	855			
80	299	299	280	280	280	283	289	313	322	297	255	242	230	232	241	280			
85	33.6	34.2	35.0	35.4	32.3	36.1	36.3	38.0	39.5	33.3	30.3	27.0	25.4	27.2	29.0	30.3			
90	3.20	3.16	3.01	2.91	3.08	3.23	3.08	3.12	3.37	2.59	2.43	2.34	2.39	4.19	6.16	4.59			
95	2.89	2.94	2.96	2.74	2.82	2.88	2.98	3.13	2.74	2.74	2.59	2.44	2.49	2.64	2.84	2.85			
100	4.20	4.00	3.94	3.70	3.75	3.75	3.96	4.16	3.50	3.50	3.45	3.35	3.36	3.46	3.61	3.66			
105	6.22	5.93	5.61	5.02	5.27	5.32	5.68	5.89	4.87	4.88	4.77	4.32	4.43	4.48	5.09	5.09			
110	8.30	8.01	7.24	6.80	7.21	7.20	7.56	8.08	6.85	6.55	5.98	6.15	6.26	6.24	6.41	6.88			
115	10.4	10.0	9.16	8.07	8.78	7.97	9.54	10.3	8.21	8.22	7.40	6.85	7.88	6.73	7.67	8.29			
120	12.2	11.4	11.2	10.7	9.80	10.3	11.4	11.9	9.33	9.24	8.68	9.11	8.60	8.15	9.09	9.06			
125	13.8	13.5	12.0	13.6	14.6	13.7	12.1	13.7	10.1	10.3	9.21	11.1	12.1	10.7	9.40	10.2			
130	15.3	14.4	11.9	15.0	15.4	14.7	12.7	14.5	12.1	11.4	9.98	12.6	13.4	12.5	10.6	11.1			
135	15.7	14.7	12.4	16.2	15.8	15.8	13.8	14.6	13.1	11.8	11.4	13.9	14.0	13.4	11.0	11.9			
140	16.1	14.8	13.1	16.3	16.3	16.2	12.9	15.0	13.7	13.0	11.8	13.8	14.7	14.4	11.3	13.1			
145	16.3	14.0	13.8	17.1	15.3	16.7	12.3	14.7	14.7	13.7	12.2	14.2	14.0	15.1	13.1	13.6			
150	16.3	13.8	15.8	17.4	17.7	17.7	14.9	15.1	15.1	14.5	13.9	15.3	16.4	15.9	15.9	13.9			
155	15.8	13.7	16.9	17.1	18.5	17.9	16.6	15.5	14.4	15.1	14.5	16.2	15.2	15.3	16.2	14.2			
160	14.8	13.5	17.1	16.9	18.3	17.8	17.1	15.3	15.2	15.2	14.6	16.4	15.9	16.0	16.2	15.4			
165	16.6	13.8	17.4	16.7	17.6	18.7	17.1	14.7	15.9	15.7	14.8	16.4	15.6	16.4	16.2	16.3			
170	17.8	15.4	19.2	19.8	19.4	20.3	19.0	15.5	18.2	18.1	16.4	20.0	20.8	20.6	20.1	19.1			
175	18.8	16.3	19.8	20.3	22.0	20.6	19.7	16.3	19.4	19.4	17.0	19.8	21.3	22.2	20.3	19.6			
180	18.7	16.8	19.6	20.5	22.1	20.1	19.8	16.5	18.4	18.6	16.6	19.6	20.6	22.1	19.8	19.7			

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