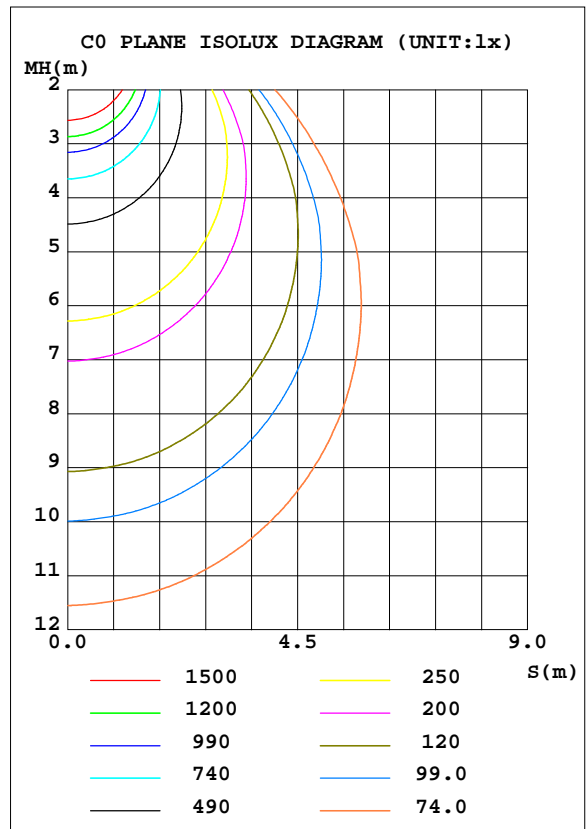
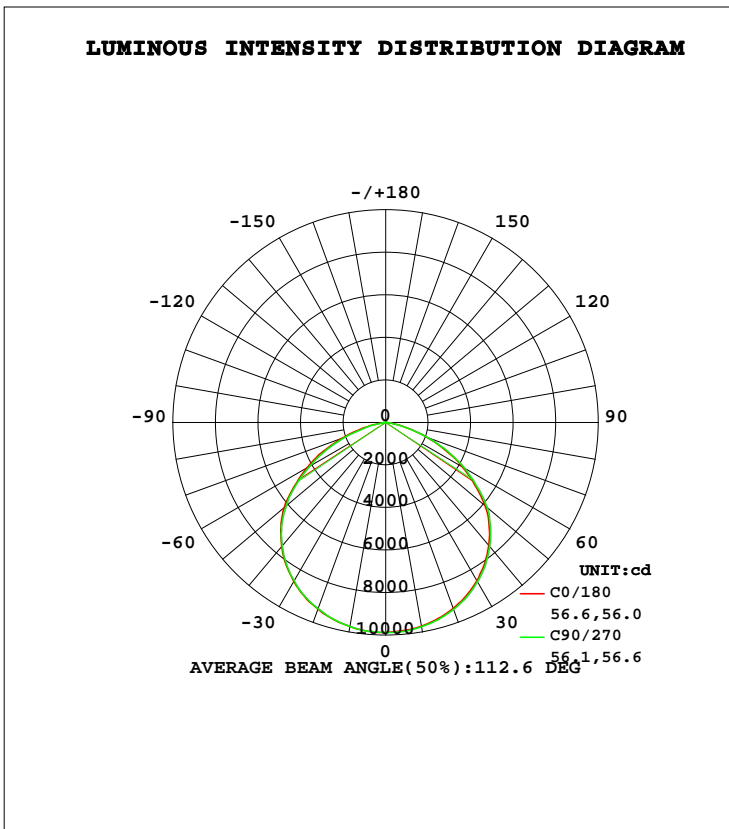


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:277.00V I:0.7307A P:192.30W PF:0.9501 Freq:60.00Hz Lamp Flux:27414.5x1		
lm NAME: AST-HB05-200WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 142.56 lm/W			
MODEL: AST-HB05-200WSACGD2-40K		Imax(cd)	9875	S/MH(C0/180)	1.30
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	277	TOTAL FLUX(lm)	27415	η UP, DN(C0-180)	0.2,50.1
NOMINAL FLUX(lm)	27414.5	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:2017-12-14

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:

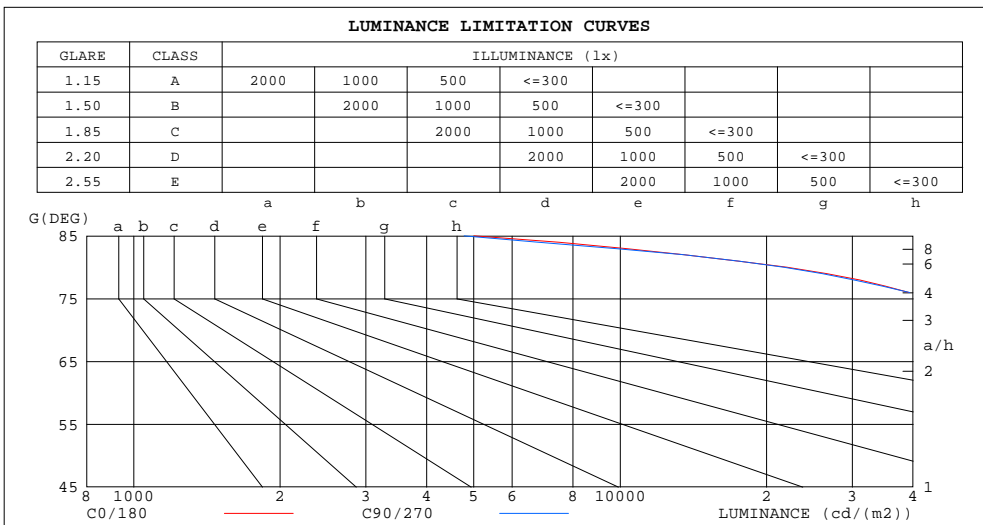
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	9721	9743	9751	9772	9739	9741	9734	9719	0- 10	936.1	936.1	3.41,3.41
20	9296	9331	9352	9355	9325	9319	9310	9312	10- 20	2703	3639	13.3,13.3
30	8587	8622	8644	8650	8634	8620	8599	8581	20- 30	4157	7796	28.4,28.4
40	7538	7581	7620	7631	7607	7581	7572	7544	30- 40	5093	12889	47,47
50	6106	6180	6252	6256	6238	6214	6103	6127	40- 50	5346	18235	66.5,66.5
60	4159	4225	4274	4293	4281	4218	4132	4144	50- 60	4648	22883	83.5,83.5
70	2084	2132	2131	2200	2186	2097	1972	2006	60- 70	3133	26016	94.9,94.9
80	382.6	378.3	377.0	404.5	437.4	345.7	297.5	314.9	70- 80	1219	27235	99.3,99.3
90	4.120	4.179	3.866	4.188	3.748	3.402	3.102	5.837	80- 90	99.88	27335	99.7,99.7
100	5.578	5.579	4.926	5.277	4.474	4.576	4.378	4.633	90-100	4.293	27339	99.7,99.7
110	11.36	9.948	9.606	9.701	8.796	7.729	8.150	7.936	100-110	7.351	27346	99.8,99.8
120	16.19	15.03	13.47	14.74	11.93	11.25	11.32	11.69	110-120	10.94	27357	99.8,99.8
130	19.95	16.04	20.49	16.57	15.79	13.36	17.14	13.37	120-130	13.79	27371	99.8,99.8
140	20.81	16.50	20.95	16.26	17.41	15.03	18.60	14.08	130-140	13.66	27385	99.9,99.9
150	21.04	20.25	22.83	19.60	19.44	17.78	20.03	20.69	140-150	11.79	27397	99.9,99.9
160	19.09	22.19	23.19	21.90	19.64	18.26	20.39	20.96	150-160	9.423	27406	100,100
170	22.89	25.24	25.21	24.49	23.61	20.63	26.67	25.83	160-170	6.027	27412	100,100
180	24.11	26.56	28.48	25.31	23.91	21.99	26.24	25.21	170-180	2.392	27415	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:2017-12-14

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:0.7307A P:192.30W PF:0.9501 Freq:60.00Hz Lamp Flux:27414.5x1		
lm NAME: AST-HB05-200WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5008	4775
80	22034	21704
75	43473	43569
70	60944	62283
65	74145	76507
60	83192	85458
55	89288	91402
50	95007	97232
45	97430	98692

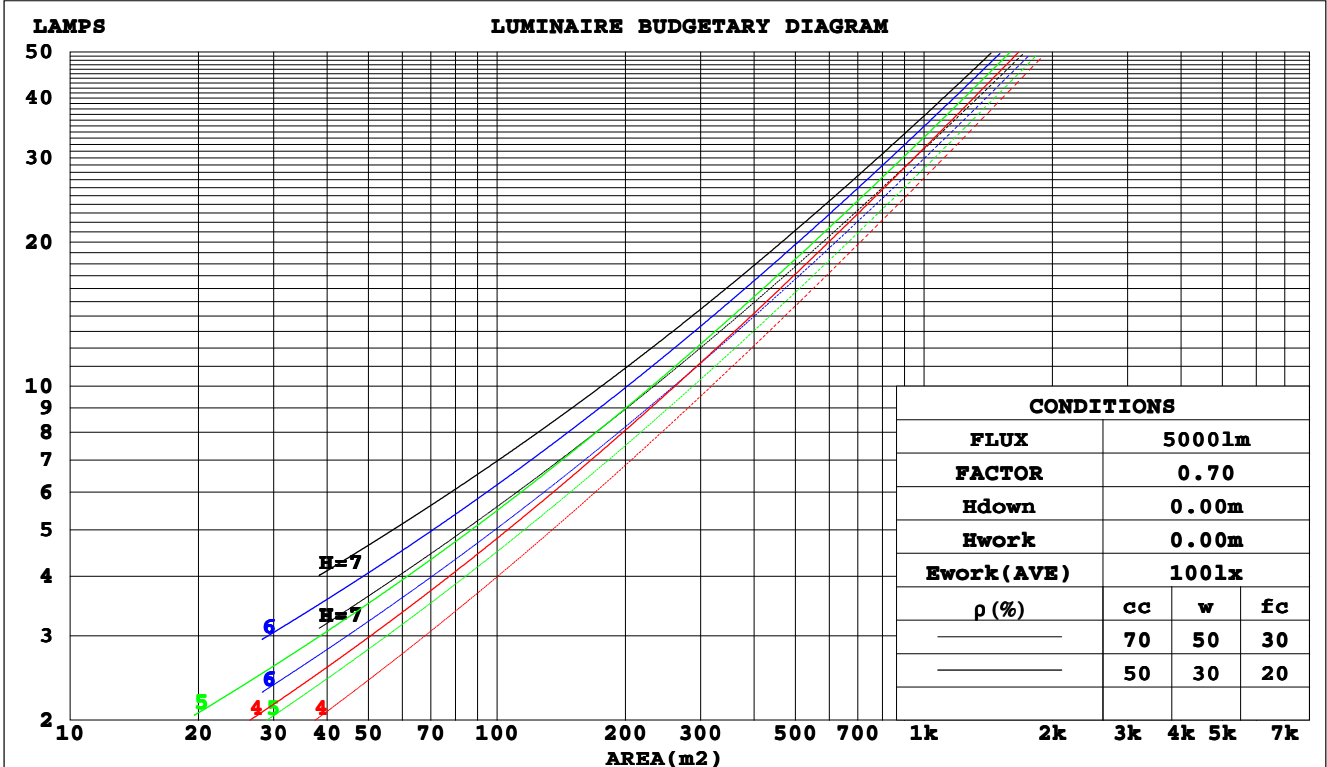
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 27.3DEG
Operators: Leo
Test Date: 2017-12-14

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:0.7307A P:192.30W PF:0.9501 Freq:60.00Hz Lamp Flux:27414.5x1		
lm NAME: AST-HB05-200WSACGD2-40K	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	1.01	.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	.81	.74	.67	.80	.73	.67	.77	.71	.66	.74	.69	.64	.72	.67	.63	.61
4.0	.72	.64	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.59	.54	.52
5.0	.65	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.47	.41	.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	.27	.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: 2017-12-14

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:0.7307A P:192.30W PF:0.9501 Freq:60.00Hz Lamp Flux:27414.5x1		
lm NAME: AST-HB05-200WSACGD2-40K	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	.280	.159	.050	.273	.156	.049	.260	.149	.048	.247	.143	.046	.236	.137	.044	
2.0	.272	.149	.046	.266	.146	.045	.254	.141	.044	.243	.137	.043	.233	.132	.042	
3.0	.256	.136	.041	.251	.134	.040	.240	.130	.040	.231	.127	.039	.222	.123	.038	
4.0	.239	.124	.037	.234	.123	.036	.225	.119	.036	.217	.116	.035	.209	.113	.035	
5.0	.223	.114	.033	.219	.112	.033	.211	.110	.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	.195	.096	.027	.191	.095	.027	.185	.093	.027	.179	.092	.027	.173	.090	.026	
8.0	.182	.089	.025	.179	.088	.025	.173	.087	.025	.168	.085	.025	.163	.084	.024	
9.0	.171	.083	.023	.169	.082	.023	.163	.081	.023	.158	.079	.023	.154	.078	.023	
10.0	.161	.077	.021	.159	.077	.021	.154	.076	.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	.150	.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	.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:2017-12-14

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:0.7307A P:192.30W PF:0.9501 Freq:60.00Hz Lamp Flux:27414.5x1										
lm NAME: AST-HB05-200WSACGD2-40K					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	17.0	18.5	17.3	18.7	18.9	17.1	18.6	17.4	18.8	19.0
3H	18.1	19.5	18.4	19.7	19.9	18.2	19.6	18.5	19.8	20.0
4H	18.3	19.6	18.7	19.9	20.1	18.5	19.7	18.8	20.0	20.3
6H	18.4	19.6	18.7	19.9	20.1	18.5	19.7	18.8	20.0	20.2
8H	18.3	19.5	18.7	19.8	20.1	18.4	19.6	18.8	19.9	20.2
12H	18.3	19.4	18.6	19.7	20.0	18.4	19.5	18.7	19.8	20.1
4H 2H	17.6	18.8	17.9	19.1	19.4	17.6	18.9	17.9	19.2	19.4
3H	18.7	19.9	19.1	20.1	20.5	18.8	19.9	19.2	20.2	20.5
4H	19.0	20.1	19.4	20.4	20.7	19.1	20.1	19.5	20.5	20.8
6H	19.1	20.0	19.5	20.4	20.7	19.2	20.1	19.6	20.4	20.8
8H	19.1	19.9	19.5	20.3	20.7	19.2	20.0	19.6	20.4	20.8
12H	19.1	19.8	19.5	20.2	20.6	19.1	19.9	19.6	20.3	20.7
8H 4H	19.1	19.9	19.5	20.3	20.7	19.2	20.0	19.6	20.4	20.8
6H	19.2	19.9	19.7	20.3	20.8	19.3	20.0	19.7	20.4	20.8
8H	19.2	19.8	19.7	20.3	20.7	19.3	19.9	19.7	20.3	20.8
12H	19.2	19.7	19.7	20.2	20.6	19.3	19.8	19.7	20.2	20.7
12H 4H	19.1	19.8	19.5	20.2	20.6	19.2	19.9	19.6	20.3	20.7
6H	19.2	19.8	19.7	20.2	20.7	19.3	19.9	19.7	20.3	20.8
8H	19.2	19.7	19.7	20.2	20.7	19.3	19.8	19.7	20.2	20.7
Variations with the observer position at spacings:										
s = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.2 / - 0.5					+ 0.2 / - 0.5				
2.0H	+ 0.4 / - 0.4					+ 0.5 / - 0.5				

CIE Pub.117, 27415 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.5)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:27.3DEG
 Operators:Leo
 Test Date:2017-12-14

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:0.7307A P:192.30W PF:0.9501 Freq:60.00Hz Lamp Flux:27414.5x1		
lm NAME: AST-HB05-200WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASHART LIGHT CO., LTD	SUR.:	Shielding Angle:

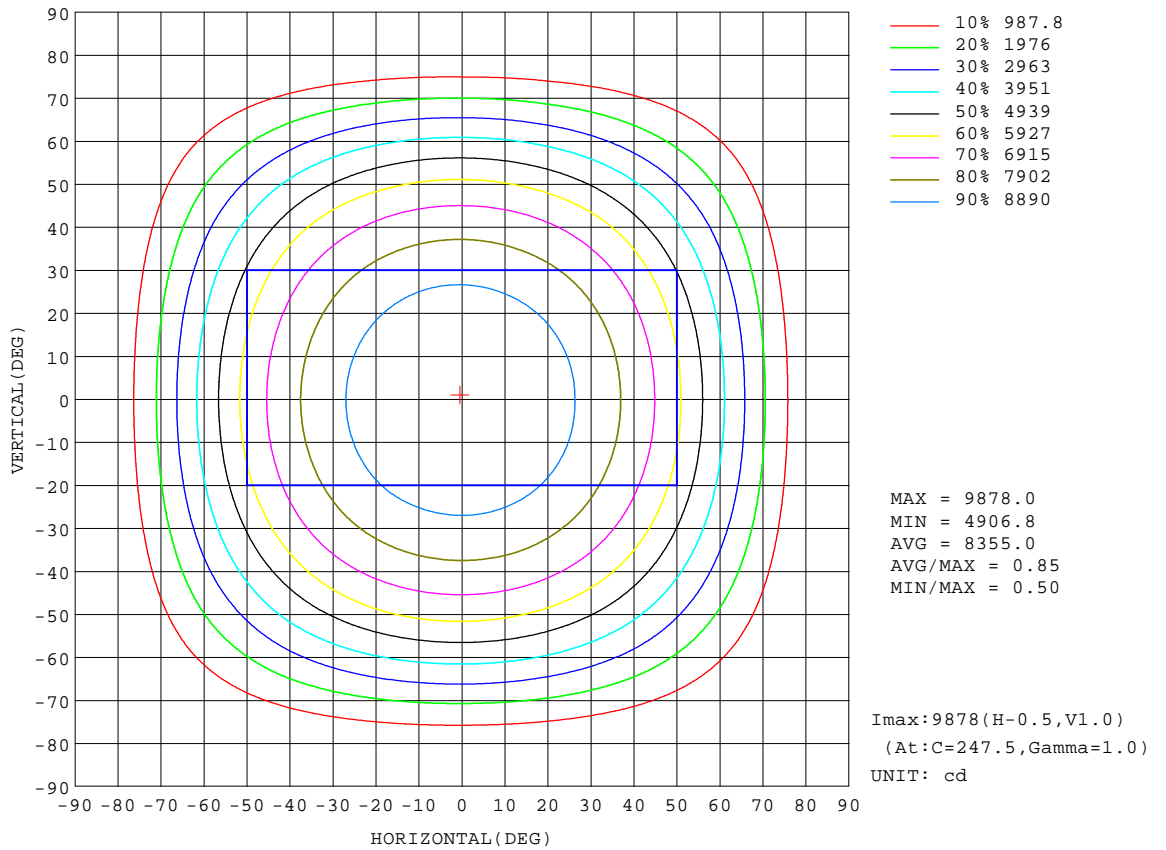
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	47	40	58	47	40	57	46	40	34
0.80	69	58	50	68	57	50	66	56	50	43
1.00	78	67	60	77	66	60	74	68	59	52
1.25	85	75	68	84	74	68	81	73	67	60
1.50	90	81	74	88	80	73	85	78	72	65
2.00	97	89	83	95	88	82	91	85	80	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	100	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:2017-12-14

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:0.7307A P:192.30W PF:0.9501 Freq:60.00Hz Lamp Flux:27414.5x1		
lm NAME: AST-HB05-200WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	SUR.:	Shielding Angle:



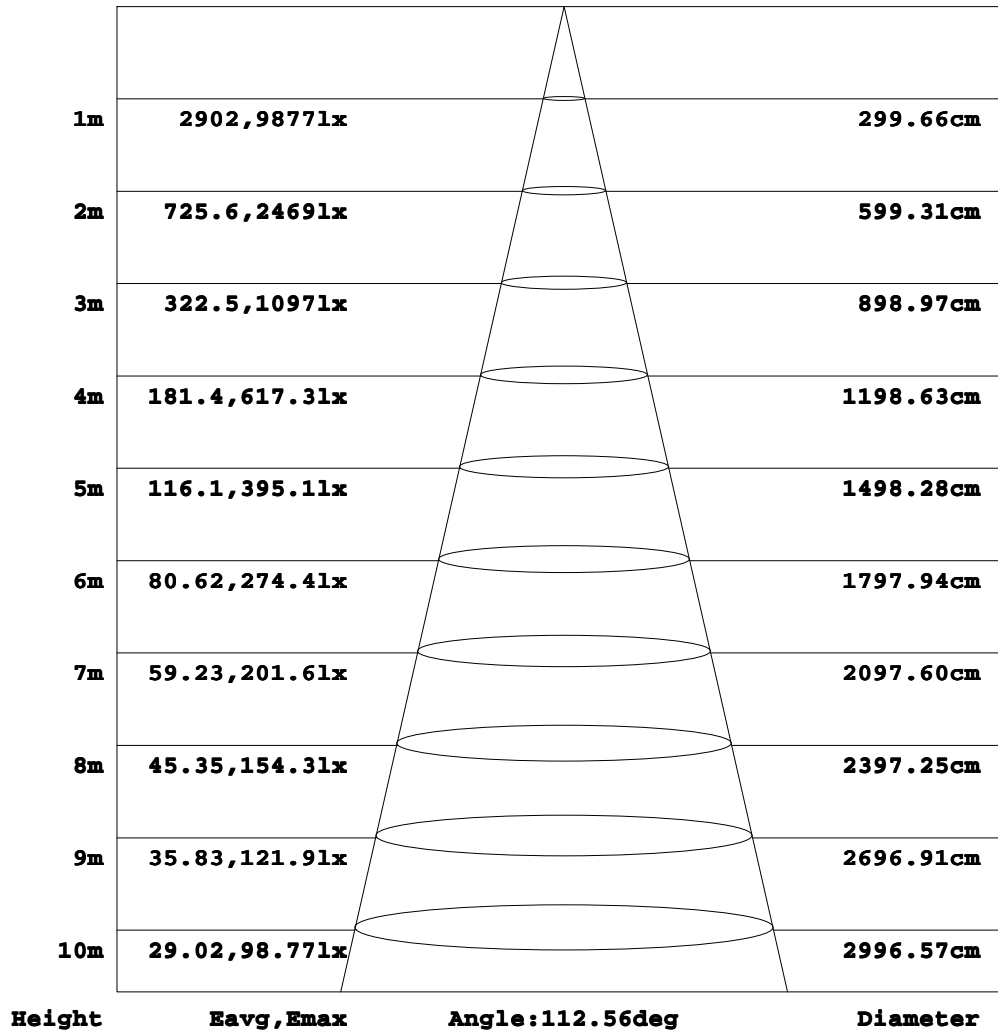
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:27.3DEG
Operators:Leo
Test Date:2017-12-14

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:0.7307A P:192.30W PF:0.9501 Freq:60.00Hz Lamp Flux:27414.5x1		
lm NAME: AST-HB05-200WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASmart LIGHT CO., LTD	SUR.:	Shielding Angle:

Flux out:21619 lm



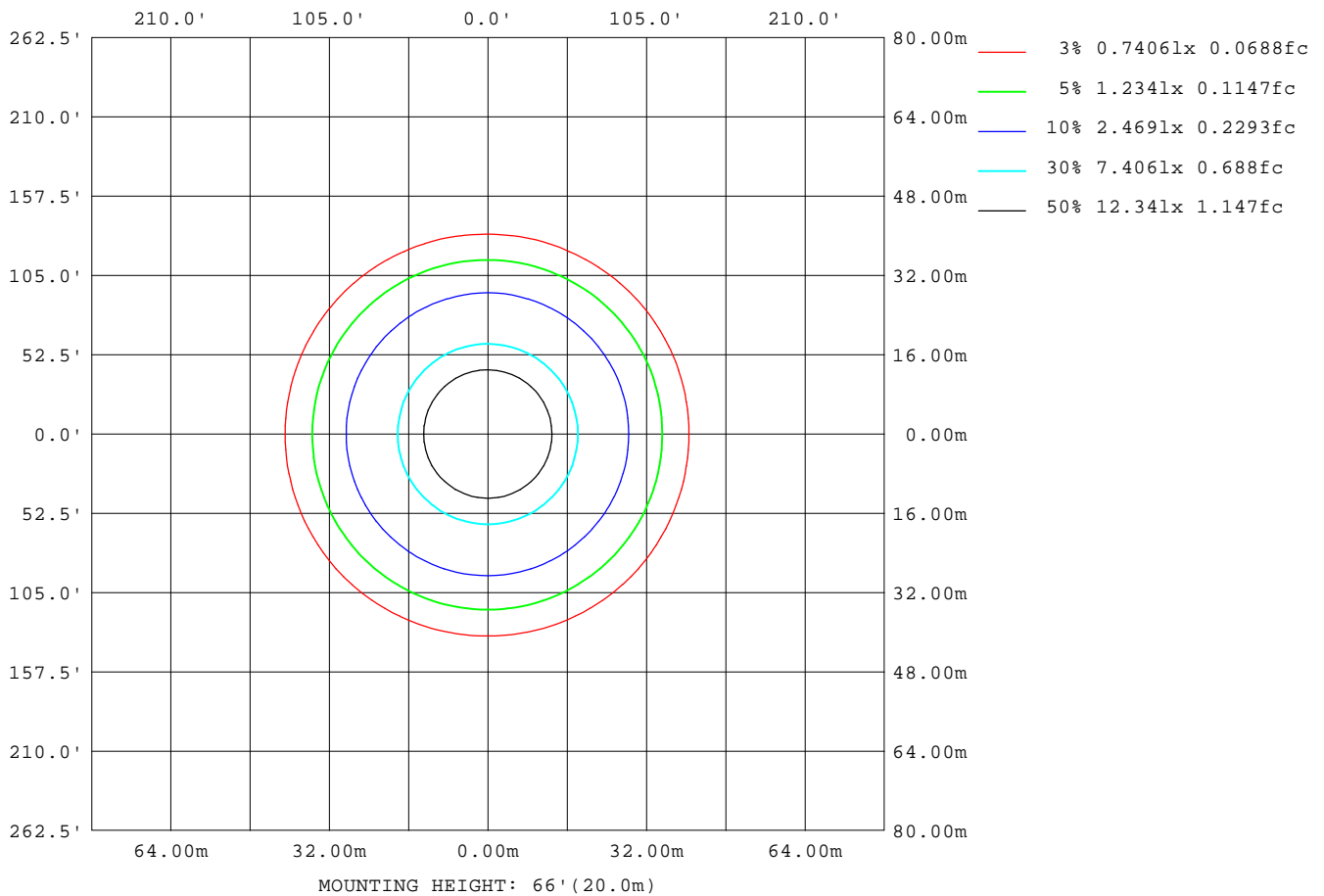
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:27.3DEG
 Operators:Leo
 Test Date:2017-12-14

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:0.7307A P:192.30W PF:0.9501 Freq:60.00Hz Lamp Flux:27414.5x1		
lm NAME: AST-HB05-200WSACGD2-40K	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: 2017-12-14

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:0.7307A P:192.30W PF:0.9501 Freq:60.00Hz Lamp Flux:27414.5x1		
lm NAME: AST-HB05-200WSACGD2-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASHART LIGHT CO., LTD	SUR.:	Shielding Angle:

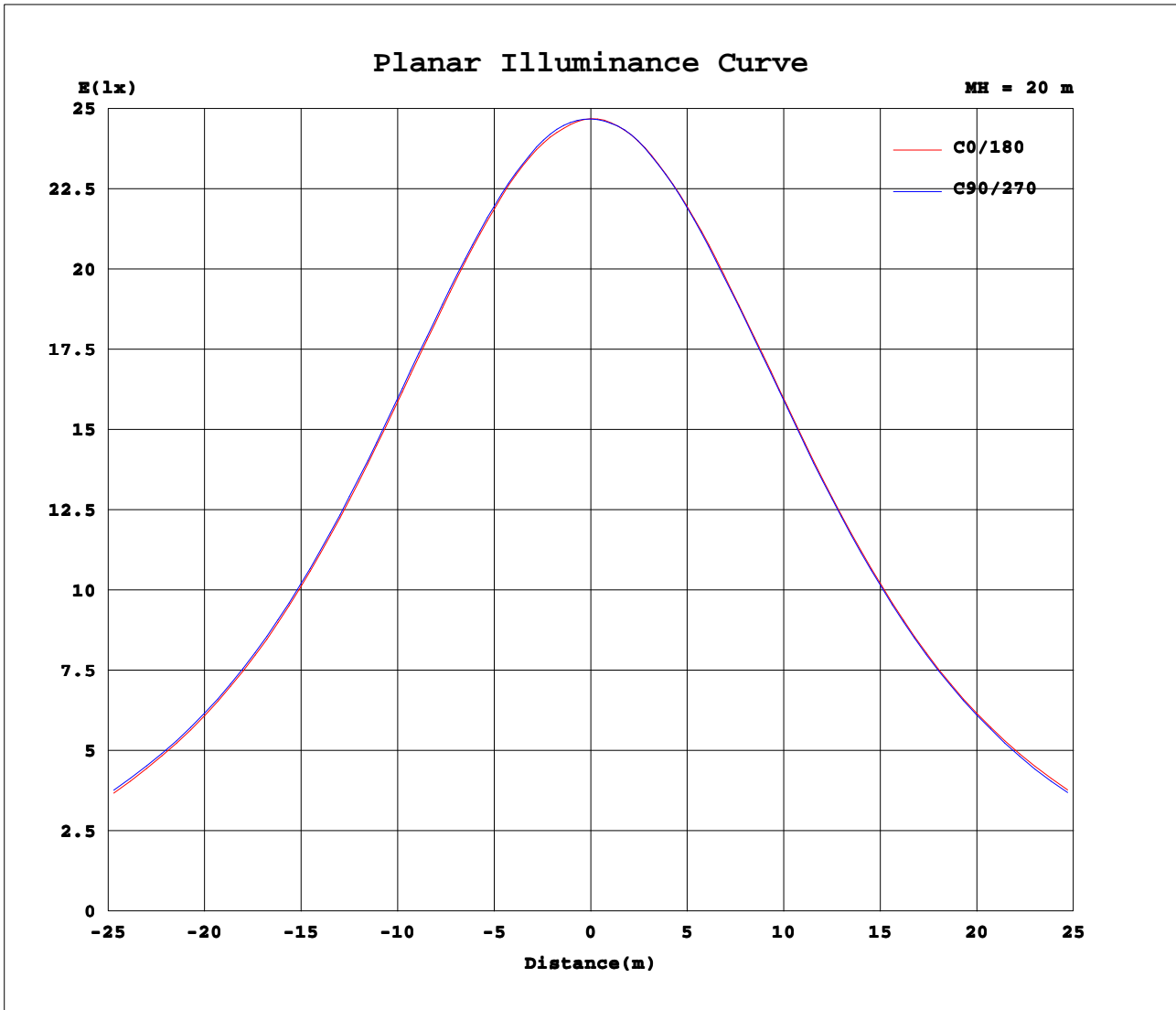
AvgL	cd/m2
L_0~180(65)av	75730
L_0~180(75)av	45148
L_0~180(85)av	5584
L_90~270(65)av	74429
L_90~270(75)av	40495
L_90~270(85)av	4133
L_45(65)av	75636
L_45(75)av	43378
L_45(85)av	4833

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:27.3DEG
Operators:Leo
Test Date:2017-12-14

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: 2017-12-14

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:0.7307A P:192.30W PF:0.9501 Freq:60.00Hz Lamp Flux:27414.5x1		
lm NAME: AST-HB05-200WSACGD2-40K	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	9873	9873	9873	9873	9873	9873	9873	9873	9873	9873	9873	9873	9873	9873	9873	9873			
5	9814	9830	9840	9844	9858	9833	9841	9837	9843	9844	9844	9849	9851	9828	9834	9829			
10	9721	9738	9743	9747	9751	9753	9772	9762	9739	9747	9741	9735	9734	9720	9719	9725			
15	9541	9564	9569	9573	9590	9584	9586	9599	9575	9576	9571	9566	9564	9554	9548	9543			
20	9296	9327	9331	9339	9352	9346	9355	9360	9325	9325	9319	9317	9310	9301	9312	9307			
25	8982	9012	9020	9034	9053	9038	9055	9037	9036	9025	9021	9014	9007	8992	8994	8987			
30	8587	8611	8622	8633	8644	8637	8650	8638	8634	8635	8620	8613	8599	8585	8581	8581			
35	8111	8129	8149	8169	8181	8174	8187	8169	8171	8156	8148	8139	8131	8106	8112	8105			
40	7538	7555	7581	7608	7620	7623	7631	7625	7607	7597	7581	7575	7572	7535	7544	7544			
45	6888	6909	6936	6960	6981	6985	6990	6986	6967	6960	6947	6932	6915	6903	6895	6898			
50	6106	6135	6180	6214	6252	6260	6256	6240	6238	6224	6214	6156	6103	6094	6127	6108			
55	5121	5145	5179	5219	5244	5259	5264	5256	5251	5244	5219	5168	5168	5125	5134	5141			
60	4159	4185	4225	4249	4274	4280	4293	4278	4281	4260	4218	4163	4132	4113	4144	4174			
65	3133	3164	3211	3209	3234	3252	3294	3286	3268	3255	3199	3119	3057	3050	3082	3142			
70	2084	2104	2132	2129	2131	2160	2200	2203	2186	2165	2097	2011	1972	1958	2006	2066			
75	1125	1144	1140	1128	1128	1154	1197	1223	1212	1190	1109	1017	968	978	1044	1102			
80	383	389	378	369	377	386	405	440	437	418	346	314	298	300	315	357			
85	43.6	44.5	42.6	44.6	41.6	47.6	49.3	53.5	53.7	49.5	40.0	34.5	30.4	32.6	36.5	39.5			
90	4.12	4.08	4.18	3.82	3.87	3.90	4.19	4.18	3.75	3.55	3.40	3.20	3.10	4.78	5.84	5.21			
95	4.06	3.91	3.81	3.40	3.35	3.35	3.71	3.96	3.61	3.41	3.51	3.31	3.21	3.41	3.61	3.76			
100	5.58	5.68	5.58	5.17	4.93	5.02	5.28	5.53	4.47	4.53	4.58	4.52	4.38	4.53	4.63	4.88			
105	8.26	8.16	7.86	7.15	7.01	7.20	7.51	7.86	6.51	6.15	6.15	5.79	5.75	5.84	6.40	6.86			
110	11.4	11.1	9.95	9.39	9.61	9.54	9.70	10.5	8.80	8.18	7.73	7.98	8.15	7.92	7.94	9.25			
115	13.8	13.6	12.4	11.0	11.9	10.2	12.5	13.3	10.5	10.5	9.46	8.65	10.2	8.63	9.71	10.9			
120	16.2	15.5	15.0	14.8	13.5	13.8	14.7	15.5	11.9	12.0	11.2	11.9	11.3	10.9	11.7	11.6			
125	18.1	17.8	16.1	18.2	19.5	18.1	15.7	17.9	13.1	13.5	12.1	14.4	15.5	13.6	11.8	13.1			
130	19.9	19.0	16.0	19.1	20.5	19.3	16.6	18.9	15.8	14.6	13.4	16.3	17.1	16.0	13.4	14.3			
135	20.4	19.0	16.3	21.0	21.0	20.4	17.4	18.7	17.0	15.0	14.7	17.9	18.2	17.3	13.7	15.2			
140	20.8	19.5	16.5	21.1	21.0	21.2	16.3	19.4	17.4	16.8	15.0	17.7	18.6	18.1	14.1	16.9			
145	21.1	18.1	17.9	22.0	19.6	22.0	16.1	19.3	19.0	17.4	15.4	18.2	17.5	18.9	16.9	17.6			
150	21.0	17.9	20.2	22.8	22.8	22.9	19.6	19.6	19.4	18.3	17.8	19.8	20.0	20.0	20.7	17.8			
155	20.5	17.7	21.8	22.6	23.7	22.9	21.5	20.4	18.6	19.7	18.2	20.7	19.4	19.4	20.8	18.8			
160	19.1	17.6	22.2	22.5	23.2	22.9	21.9	19.8	19.6	19.6	18.3	20.8	20.4	20.4	21.0	19.9			
165	21.1	18.3	23.0	21.1	22.6	24.0	21.6	19.2	20.4	20.1	18.4	20.9	19.9	21.0	21.2	21.0			
170	22.9	20.6	25.2	25.5	25.2	26.3	24.5	20.2	23.6	23.4	20.6	25.7	26.7	26.3	25.8	24.7			
175	24.4	22.2	26.1	26.3	28.2	26.7	25.1	21.5	25.0	25.0	22.4	25.1	27.3	28.4	26.3	24.9			
180	24.1	22.6	26.6	26.6	28.5	25.5	25.3	22.0	23.9	24.1	22.0	25.3	26.2	28.2	25.2	24.9			

C Range: 0 - 360DEG
C Interval: 22.5DEG
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