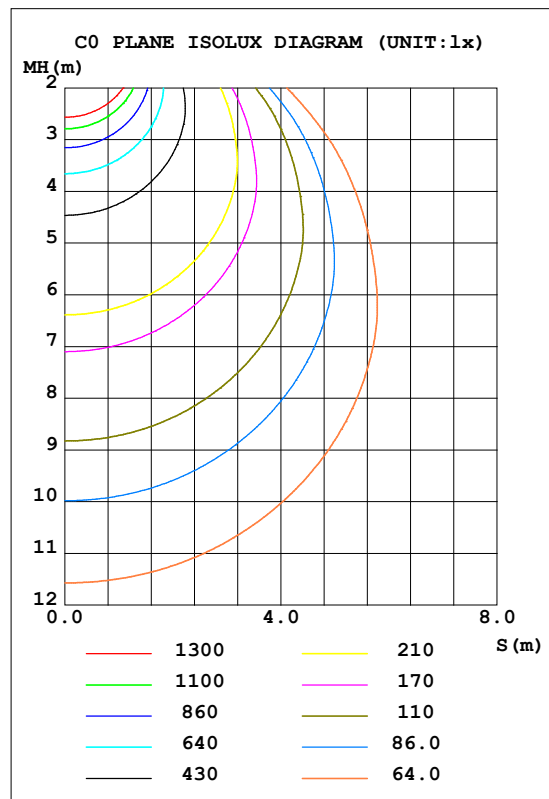
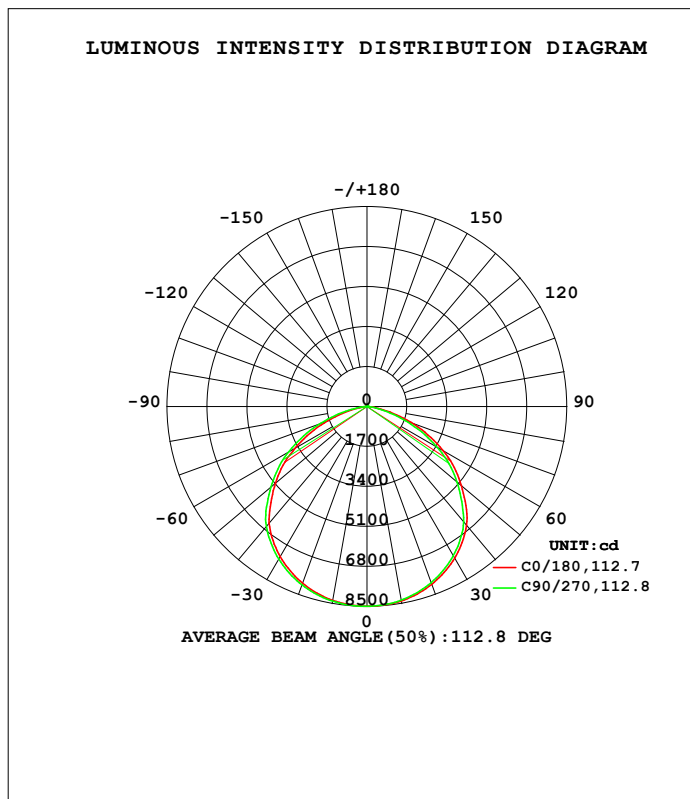


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.13V I:0.6935A P:158.04W PF:0.9902 Freq:50.01Hz Lamp Flux:23740.8x1 lm		
NAME: BLP-SHBL150WB	TYPE:	WEIGHT:4.52Kg
SPEC.:	DIM.: 0.33*0.33	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.20*0.20	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.22 lm/W			
MODEL		I _{max} (cd)	8494	S/MH (C0/180)	1.29
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.31
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	23741	h UP, DN (C0-180)	0.3,48.8
NOMINAL FLUX (lm)	23740.8	CIE CLASS	DIRECT	h UP, DN (C180-360)	0.3,50.6
LAMPS INSIDE	1	h up (%)	0.6	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	h down (%)	99.4	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:06 February 2018

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.680m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

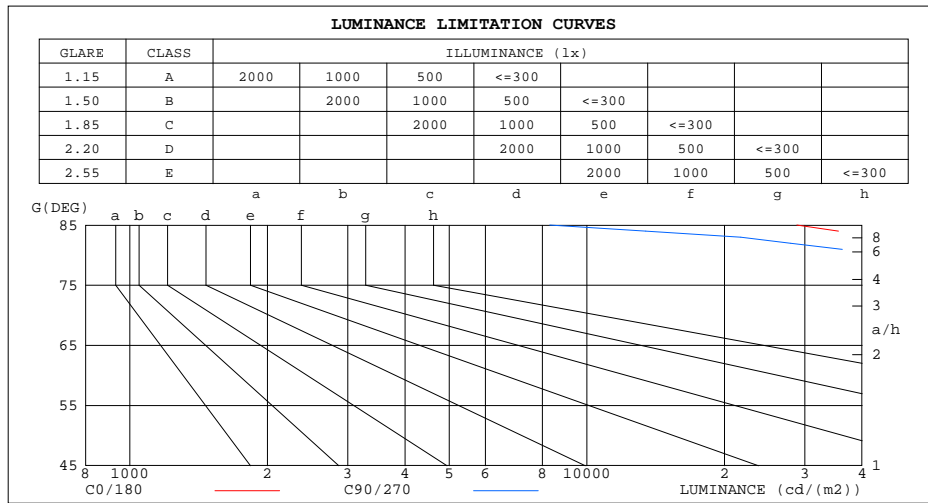
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	8396	8372	8365	8367	8372	8394	8406	8406	0- 10	805.6	805.6	3.39,3.39
20	8049	7996	7975	7981	7998	8051	8076	8071	10- 20	2326	3132	13.2,13.2
30	7453	7368	7335	7347	7376	7459	7499	7491	20- 30	3575	6707	28.3,28.3
40	6593	6472	6396	6418	6476	6606	6659	6645	30- 40	4387	11094	46.7,46.7
50	5244	5073	5000	5019	5083	5246	5328	5309	40- 50	4528	15622	65.8,65.8
60	3729	3519	3415	3432	3508	3733	3837	3819	50- 60	3963	19585	82.5,82.5
70	1984	1778	1691	1707	1776	1974	2090	2076	60- 70	2727	22312	94,94
80	488.2	354.2	306.3	312.5	342.6	470.4	556.8	550.2	70- 80	1154	23467	98.8,98.8
90	4.091	4.266	4.483	4.449	4.037	3.796	4.233	4.279	80- 90	132.3	23599	99.4,99.4
100	7.999	8.684	9.091	9.059	8.193	7.537	7.220	7.258	90-100	6.381	23605	99.4,99.4
110	14.28	15.11	15.63	15.56	14.52	13.60	13.25	13.27	100-110	11.77	23617	99.5,99.5
120	21.30	22.10	22.69	22.57	21.48	20.46	20.22	20.22	110-120	17.70	23635	99.6,99.6
130	28.07	28.83	29.23	29.29	28.30	27.34	27.05	27.15	120-130	22.20	23657	99.6,99.6
140	34.27	34.92	35.17	35.33	34.43	33.65	33.40	33.53	130-140	24.19	23681	99.7,99.7
150	39.11	39.60	39.96	40.03	39.66	38.97	38.84	38.94	140-150	23.15	23704	99.8,99.8
160	43.28	43.58	43.92	43.96	43.77	43.20	43.10	43.18	150-160	19.16	23724	99.9,99.9
170	45.94	46.01	46.35	46.42	46.81	46.46	46.38	46.34	160-170	12.74	23736	100,100
180	47.58	47.56	47.79	47.65	47.74	47.68	47.87	47.71	170-180	4.474	23741	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:06 February 2018

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.680m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.13V I:0.6935A P:158.04W PF:0.9902 Freq:50.01Hz Lamp Flux:23740.8x1 lm		
NAME: BLP-SHBL150WB	TYPE:	WEIGHT:4.52Kg
SPEC.:	DIM.: 0.33*0.33	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.20*0.20	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	28812	8300
80	70908	44017
75	113228	86077
70	146315	123365
65	171025	151868
60	188064	170432
55	199408	186189
50	205761	194110
45	212526	200935

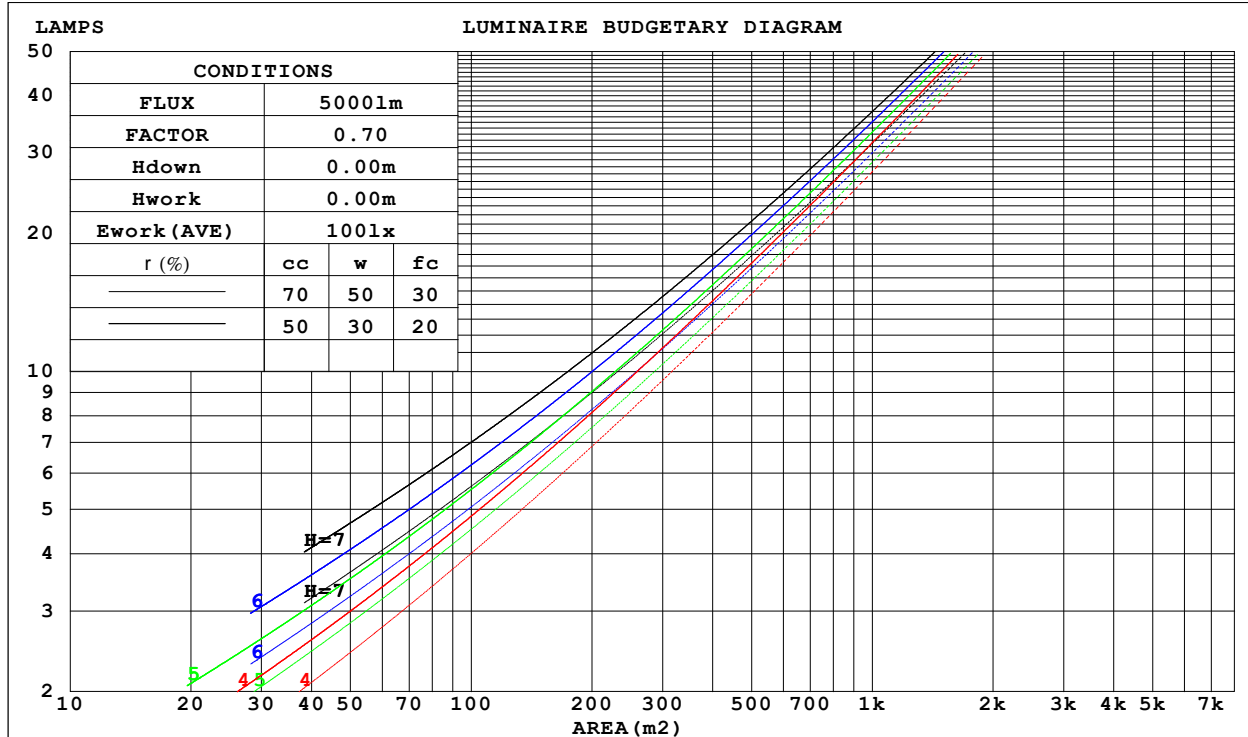
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:06 February 2018

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.680m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.13V I:0.6935A P:158.04W PF:0.9902 Freq:50.01Hz Lamp Flux:23740.8x1 lm		
NAME: BLP-SHBL150WB	TYPE:	WEIGHT:4.52Kg
SPEC.:	DIM.: 0.33*0.33	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.20*0.20	Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{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	1.01	1.01	1.01	.99
1.0	1.05	1.01	.98	1.03	.99	.96	.98	.95	.93	.94	.92	.90	.91	.89	.87	.85
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.63	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.51	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.53	.47	.42	.52	.46	.41	.39
7.0	.52	.44	.38	.52	.43	.38	.50	.43	.37	.49	.42	.37	.47	.41	.37	.35
8.0	.48	.39	.34	.47	.39	.34	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.28
10.0	.40	.33	.27	.40	.32	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:06 February 2018

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.680m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.13V I:0.6935A P:158.04W PF:0.9902 Freq:50.01Hz Lamp Flux:23740.8x1 lm		
NAME: BLP-SHBL150WB	TYPE:	WEIGHT:4.52Kg
SPEC.:	DIM.: 0.33*0.33	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.20*0.20	Shielding Angle:

r cc	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.284	.161	.051	.277	.158	.050	.263	.151	.048	.251	.145	.046	.239	.139	.045	
2.0	.275	.150	.046	.268	.148	.046	.256	.143	.044	.245	.138	.043	.235	.133	.042	
3.0	.258	.137	.041	.252	.135	.041	.242	.131	.040	.232	.127	.039	.223	.124	.038	
4.0	.240	.125	.037	.235	.123	.036	.226	.120	.036	.217	.117	.035	.209	.114	.035	
5.0	.224	.114	.033	.219	.113	.033	.211	.110	.032	.203	.107	.032	.196	.105	.031	
6.0	.209	.105	.030	.205	.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	.183	.089	.025	.179	.088	.025	.174	.087	.025	.168	.085	.025	.163	.084	.024	
9.0	.172	.083	.023	.169	.082	.023	.163	.081	.023	.158	.079	.023	.154	.078	.023	
10.0	.162	.077	.022	.159	.077	.021	.154	.076	.021	.150	.074	.021	.145	.073	.021	

r cc	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.195	.195	.195	.167	.167	.167	.114	.114	.114	.065	.065	.065	.021	.021	.021	
1.0	.183	.161	.141	.157	.138	.121	.107	.095	.084	.062	.055	.049	.020	.018	.016	
2.0	.175	.137	.105	.150	.118	.091	.102	.081	.063	.059	.047	.037	.019	.015	.012	
3.0	.167	.119	.081	.143	.103	.070	.098	.071	.049	.057	.042	.029	.018	.014	.009	
4.0	.159	.105	.064	.137	.091	.056	.094	.064	.039	.054	.037	.023	.018	.012	.008	
5.0	.152	.095	.053	.131	.082	.046	.090	.057	.032	.052	.034	.019	.017	.011	.006	
6.0	.145	.087	.045	.125	.075	.039	.086	.053	.027	.050	.031	.016	.016	.010	.005	
7.0	.139	.080	.038	.119	.069	.033	.082	.048	.024	.048	.029	.014	.015	.009	.005	
8.0	.132	.074	.034	.114	.064	.029	.079	.045	.021	.046	.027	.012	.015	.009	.004	
9.0	.126	.069	.030	.109	.060	.026	.075	.042	.019	.044	.025	.011	.014	.008	.004	
10.0	.121	.065	.027	.104	.056	.024	.072	.040	.017	.042	.023	.010	.014	.008	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:06 February 2018

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.680m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.13V I:0.6935A P:158.04W PF:0.9902 Freq:50.01Hz Lamp Flux:23740.8x1 lm										
NAME: BLP-SHBL150WB					TYPE:			WEIGHT:4.52Kg		
SPEC.:					DIM.: 0.33*0.33			SERIAL No.:		
MFR.: Shenzhen Brillloop Lighting					SUR.:0.20*0.20			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	31.3	32.7	31.5	32.9	33.2	30.9	32.4	31.2	32.6	32.8
3H	32.4	33.8	32.7	34.0	34.3	32.0	33.3	32.3	33.5	33.8
4H	32.8	34.1	33.1	34.3	34.6	32.2	33.5	32.5	33.7	34.0
6H	32.9	34.1	33.2	34.4	34.6	32.2	33.4	32.5	33.7	34.0
8H	32.9	34.0	33.2	34.3	34.6	32.2	33.3	32.5	33.6	33.9
12H	32.8	33.9	33.2	34.2	34.6	32.1	33.2	32.5	33.5	33.9
4H 2H	31.7	33.0	32.0	33.3	33.5	31.4	32.7	31.8	33.0	33.3
3H	33.0	34.1	33.4	34.4	34.8	32.6	33.7	33.0	34.0	34.3
4H	33.4	34.4	33.8	34.8	35.1	32.9	33.9	33.3	34.2	34.6
6H	33.6	34.5	34.0	34.8	35.2	33.0	33.9	33.4	34.2	34.6
8H	33.6	34.4	34.0	34.8	35.2	32.9	33.8	33.4	34.1	34.5
12H	33.6	34.3	34.0	34.7	35.1	32.9	33.7	33.3	34.1	34.5
8H 4H	33.5	34.3	33.9	34.7	35.1	33.0	33.8	33.4	34.2	34.6
6H	33.7	34.4	34.1	34.8	35.2	33.1	33.8	33.5	34.2	34.6
8H	33.7	34.3	34.2	34.8	35.2	33.1	33.7	33.6	34.1	34.6
12H	33.7	34.2	34.2	34.7	35.2	33.1	33.6	33.5	34.0	34.5
12H 4H	33.4	34.2	33.9	34.6	35.0	33.0	33.7	33.4	34.1	34.5
6H	33.7	34.3	34.1	34.7	35.2	33.1	33.7	33.5	34.1	34.6
8H	33.7	34.2	34.2	34.7	35.2	33.1	33.6	33.6	34.0	34.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.4				
1.5H	+ 0.2 / - 0.4					+ 0.3 / - 0.5				
2.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5				

CIE Pub.117, 23741 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 11.0)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:06 February 2018

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.680m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.13V I:0.6935A P:158.04W PF:0.9902 Freq:50.01Hz Lamp Flux:23740.8x1 lm		
NAME: BLP-SHBL150WB	TYPE:	WEIGHT:4.52Kg
SPEC.:	DIM.: 0.33*0.33	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.20*0.20	Shielding Angle:

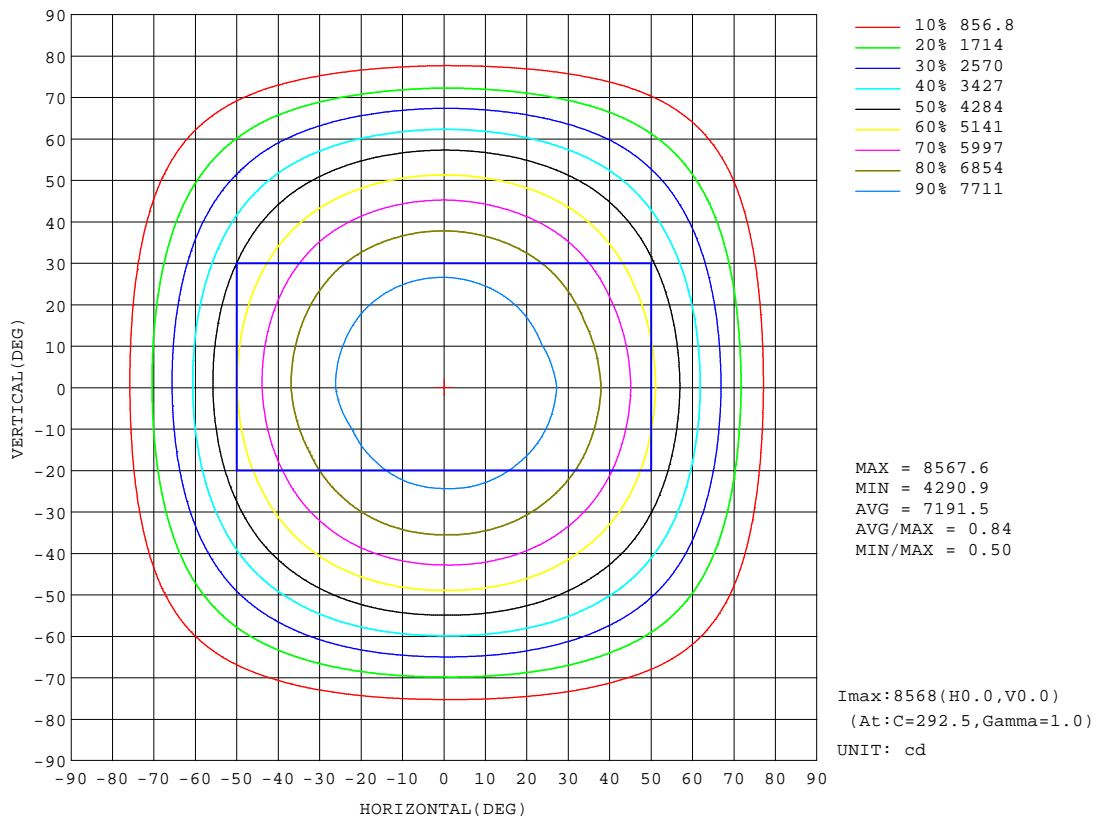
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	58	47	40	56	46	40	33
0.80	69	57	50	68	57	50	66	56	50	43
1.00	77	67	60	76	66	59	74	67	59	52
1.25	85	75	68	83	74	67	80	72	66	59
1.50	90	80	74	88	79	73	85	77	72	65
2.00	96	88	82	95	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	95	91	97	92	88	80
4.00	107	102	98	105	100	96	101	97	93	85
5.00	109	105	101	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:25.3DEG
 Operators:DAMIN
 Test Date:06 February 2018

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.680m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.13V I:0.6935A P:158.04W PF:0.9902 Freq:50.01Hz Lamp Flux:23740.8x1 lm		
NAME: BLP-SHBL150WB	TYPE:	WEIGHT:4.52Kg
SPEC.:	DIM.: 0.33*0.33	SERIAL No.:
MFR.: Shenzhen Brilloop Lighting	SUR.:0.20*0.20	Shielding Angle:



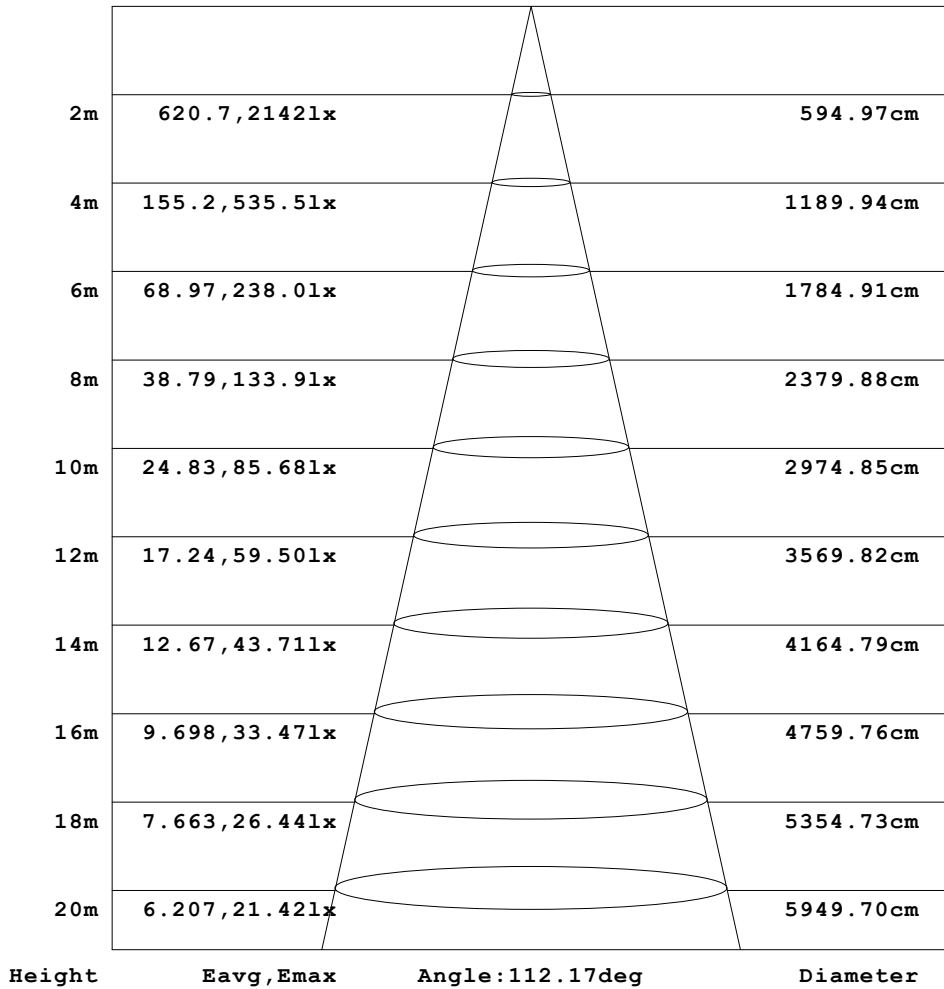
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:06 February 2018

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.680m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.13V I:0.6935A P:158.04W PF:0.9902 Freq:50.01Hz Lamp Flux:23740.8x1 lm		
NAME: BLP-SHBL150WB	TYPE:	WEIGHT:4.52Kg
SPEC.:	DIM.: 0.33*0.33	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.20*0.20	Shielding Angle:

Flux out:18495 lm



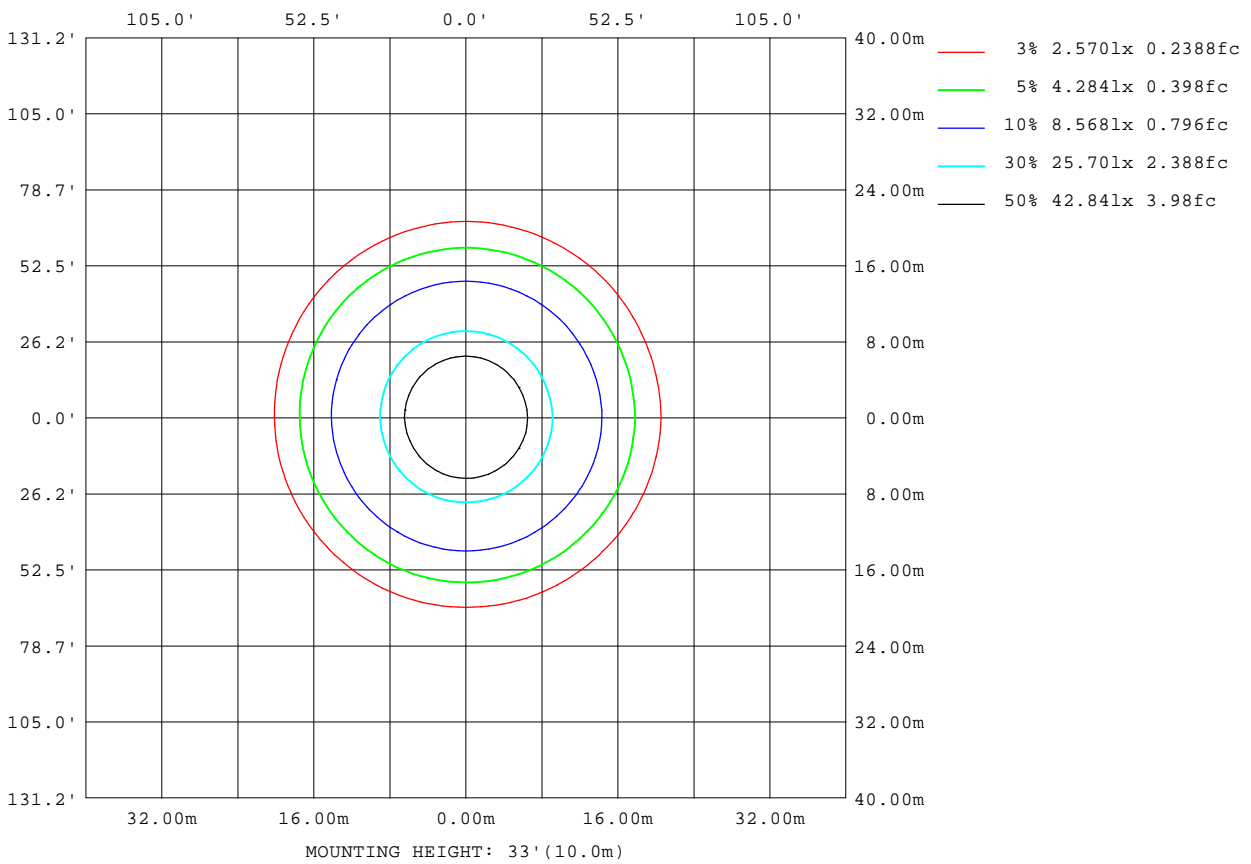
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:06 February 2018

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.680m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.13V I:0.6935A P:158.04W PF:0.9902 Freq:50.01Hz Lamp Flux:23740.8x1 lm		
NAME: BLP-SHBL150WB	TYPE:	WEIGHT:4.52Kg
SPEC.:	DIM.: 0.33*0.33	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.20*0.20	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:06 February 2018

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.680m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.13V I:0.6935A P:158.04W PF:0.9902 Freq:50.01Hz Lamp Flux:23740.8x1 lm		
NAME: BLP-SHBL150WB	TYPE:	WEIGHT:4.52Kg
SPEC.:	DIM.: 0.33*0.33	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.20*0.20	Shielding Angle:

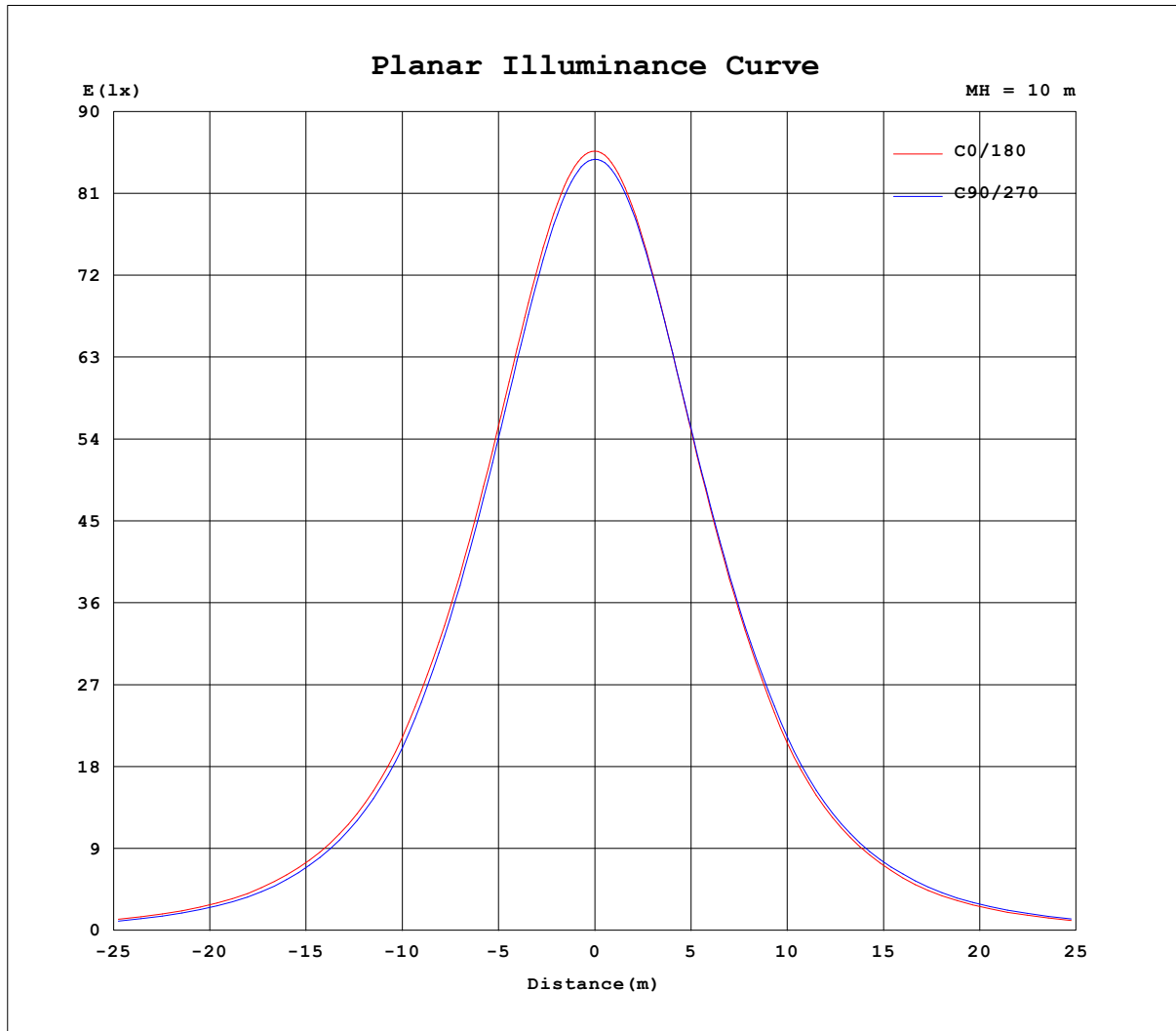
AvgL	cd/m2
L_0~180 (65) av	163306
L_0~180 (75) av	102559
L_0~180 (85) av	19738
L_90~270 (65) av	164184
L_90~270 (75) av	103666
L_90~270 (85) av	21807
L_45 (65) av	163741
L_45 (75) av	103008
L_45 (85) av	20042

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:06 February 2018

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.680m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 06 February 2018

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 7.680m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.13V I:0.6935A P:158.04W PF:0.9902 Freq:50.01Hz Lamp Flux:23740.8x1 lm		
NAME: BLP-SHBL150WB	TYPE:	WEIGHT:4.52Kg
SPEC.:	DIM.: 0.33*0.33	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.20*0.20	Shielding Angle:

Table--1

UNIT: cd

C (DEG) g (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	8493	8493	8493	8493	8493	8493	8493	8493	8493	8493	8493	8493	8493	8493	8493	8493			
5	8472	8468	8462	8461	8459	8460	8459	8461	8462	8465	8471	8473	8476	8475	8475	8473			
10	8396	8386	8372	8369	8365	8367	8367	8372	8372	8381	8394	8400	8406	8406	8406	8401			
15	8255	8236	8215	8208	8200	8206	8206	8216	8218	8234	8254	8263	8273	8272	8271	8263			
20	8049	8027	7996	7986	7975	7984	7981	7997	7998	8021	8051	8064	8076	8074	8071	8061			
25	7783	7757	7715	7702	7686	7700	7696	7716	7718	7750	7787	7807	7819	7817	7811	7799			
30	7453	7420	7368	7352	7335	7349	7347	7370	7376	7415	7459	7485	7499	7495	7491	7471			
35	7057	7013	6956	6936	6917	6929	6930	6956	6968	7011	7065	7092	7112	7106	7103	7079			
40	6593	6539	6472	6435	6396	6408	6418	6455	6476	6538	6606	6633	6659	6649	6645	6615			
45	5959	5885	5788	5734	5694	5700	5711	5749	5784	5870	5978	6017	6041	6023	6022	5985			
50	5244	5170	5073	5037	5000	5017	5019	5063	5083	5162	5246	5292	5328	5318	5309	5276			
55	4535	4456	4354	4315	4280	4297	4299	4347	4362	4441	4533	4588	4624	4619	4611	4569			
60	3729	3640	3519	3459	3415	3428	3432	3479	3508	3598	3733	3797	3837	3828	3819	3765			
65	2866	2778	2665	2611	2572	2588	2588	2628	2655	2747	2862	2927	2979	2969	2957	2902			
70	1984	1889	1778	1732	1691	1700	1707	1747	1776	1858	1974	2040	2090	2086	2076	2020			
75	1162	1075	975	925	893	902	904	937	962	1049	1143	1199	1254	1252	1244	1194			
80	488	422	354	328	306	312	312	332	343	400	470	520	557	556	550	513			
85	99.6	66.1	44.0	34.4	29.0	29.5	29.5	35.0	38.1	56.7	85.1	112	123	124	121	111			
90	4.09	4.08	4.27	4.40	4.48	4.48	4.45	4.36	4.04	3.87	3.80	3.94	4.23	4.26	4.28	4.03			
95	5.61	5.85	6.15	6.33	6.47	6.46	6.44	6.30	5.75	5.51	5.28	5.12	5.04	5.05	5.08	5.15			
100	8.00	8.31	8.68	8.92	9.09	9.08	9.06	8.88	8.19	7.88	7.54	7.35	7.22	7.25	7.26	7.41			
105	11.0	11.3	11.7	12.0	12.2	12.2	12.2	12.0	11.2	10.8	10.4	10.2	10.0	10.0	10.1	10.3			
110	14.3	14.6	15.1	15.4	15.6	15.6	15.6	15.4	14.5	14.0	13.6	13.4	13.3	13.3	13.3	13.5			
115	17.8	18.1	18.6	18.9	19.2	19.1	19.1	18.9	18.0	17.5	17.0	16.8	16.7	16.7	16.7	16.9			
120	21.3	21.6	22.1	22.4	22.7	22.6	22.6	22.5	21.5	20.9	20.5	20.3	20.2	20.2	20.2	20.4			
125	24.7	25.1	25.5	25.8	26.1	26.1	26.0	25.9	24.9	24.4	23.9	23.7	23.7	23.7	23.7	24.0			
130	28.1	28.5	28.8	29.1	29.2	29.2	29.3	29.2	28.3	27.9	27.3	27.1	27.0	27.1	27.1	27.4			
135	31.3	31.6	32.0	32.1	32.3	32.3	32.4	32.4	31.5	31.1	30.6	30.4	30.3	30.4	30.4	30.7			
140	34.3	34.6	34.9	35.1	35.2	35.2	35.3	35.3	34.4	34.1	33.6	33.5	33.4	33.5	33.5	33.7			
145	36.8	37.1	37.3	37.6	37.7	37.8	37.8	37.8	37.2	36.8	36.4	36.2	36.2	36.3	36.3	36.5			
150	39.1	39.4	39.6	39.8	40.0	40.0	40.0	40.0	39.7	39.3	39.0	38.8	38.8	38.9	38.9	39.1			
155	41.3	41.6	41.7	42.0	42.1	42.1	42.1	42.1	41.8	41.5	41.2	41.0	41.0	41.0	41.1	41.3			
160	43.3	43.5	43.6	43.8	43.9	44.0	44.0	44.0	43.8	43.5	43.2	43.1	43.1	43.1	43.2	43.3			
165	44.8	45.0	45.1	45.2	45.4	45.5	45.5	45.4	45.5	45.2	45.1	44.9	44.9	44.9	45.0	45.1			
170	45.9	46.1	46.0	46.2	46.3	46.5	46.4	46.4	46.8	46.5	46.5	46.3	46.4	46.3	46.3	46.4			
175	46.9	47.0	46.9	47.1	47.4	47.4	47.3	47.3	47.3	47.0	47.2	47.0	47.1	46.9	46.9	47.0			
180	47.6	47.7	47.6	47.7	47.8	47.8	47.7	47.8	47.7	47.5	47.7	47.6	47.9	47.7	47.7	47.7			

C Range: 0 - 360DEG
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