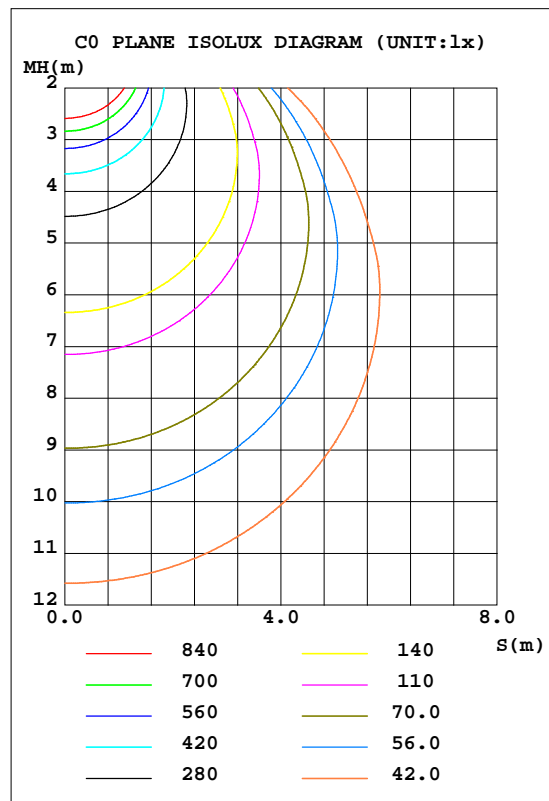
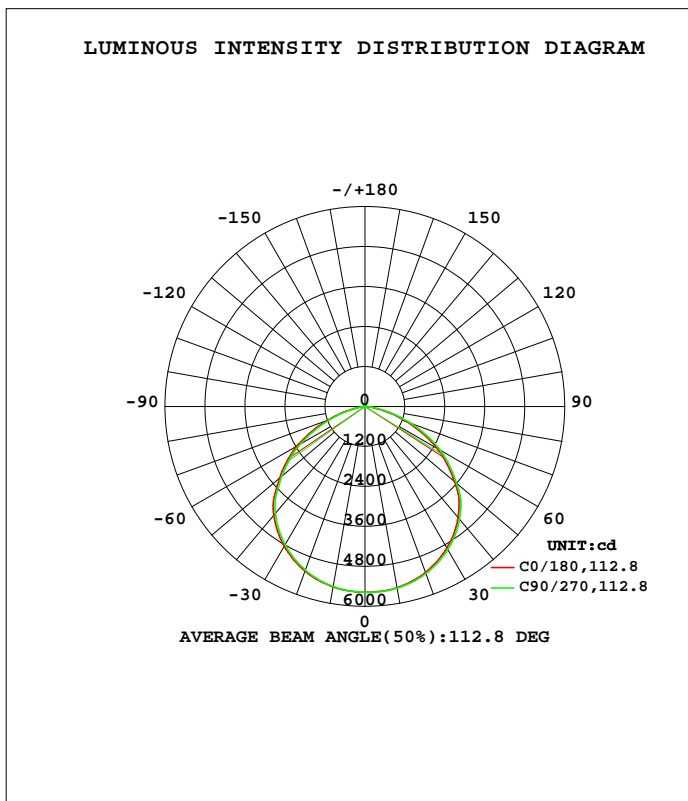


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.20V I:0.5427A P:123.01W PF:0.9846 Freq:50.01Hz Lamp Flux:15713x1 lm		
NAME: BLP-SHBL120WA	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: 127.74 lm/W			
MODEL		I _{max} (cd)	5581	S/MH(C0/180)	1.29
NOMINAL POWER(W)	120	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	15713	h UP, DN(C0-180)	0.3,51.3
NOMINAL FLUX(lm)	15713	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.3,48.1
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:02 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:

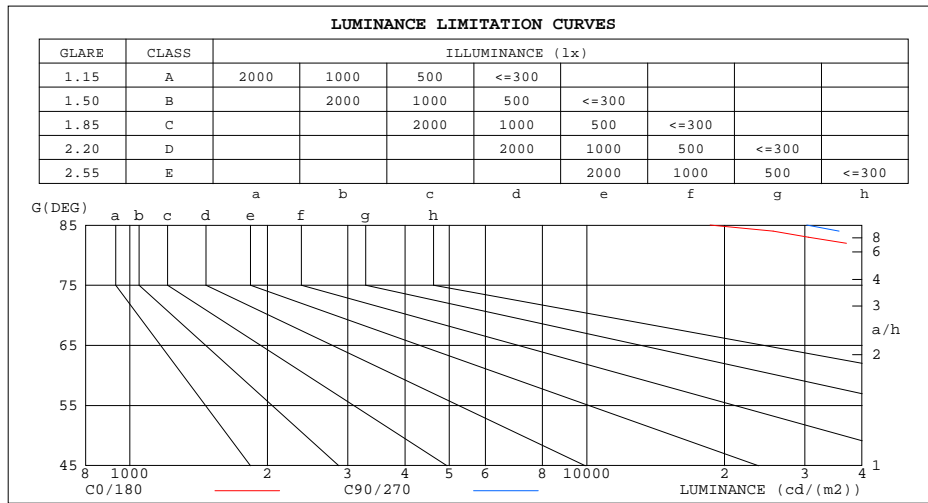
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	5523	5534	5538	5518	5500	5490	5487	5505	0- 10	529.4	529.4	3.37,3.37
20	5303	5327	5337	5296	5259	5234	5227	5266	10- 20	1530	2060	13.1,13.1
30	4913	4950	4965	4905	4848	4809	4796	4854	20- 30	2352	4412	28.1,28.1
40	4350	4401	4419	4343	4261	4210	4188	4266	30- 40	2887	7299	46.4,46.4
50	3511	3579	3594	3473	3348	3281	3258	3381	40- 50	3015	10313	65.6,65.6
60	2487	2568	2599	2474	2340	2241	2217	2365	50- 60	2617	12931	82.3,82.3
70	1339	1427	1458	1321	1183	1103	1060	1189	60- 70	1811	14741	93.8,93.8
80	338.0	398.8	423.3	328.5	250.3	200.7	182.1	254.6	70- 80	783.8	15525	98.8,98.8
90	2.749	3.423	3.965	2.700	2.743	2.863	2.912	2.714	80- 90	94.10	15619	99.4,99.4
100	5.368	5.079	4.966	5.387	5.525	5.760	5.860	5.442	90-100	4.277	15624	99.4,99.4
110	9.500	9.137	9.054	9.545	9.749	10.03	10.10	9.537	100-110	7.834	15631	99.5,99.5
120	14.08	13.70	13.76	14.12	14.40	14.64	14.71	14.03	110-120	11.75	15643	99.6,99.6
130	18.55	18.18	18.08	18.59	18.88	19.09	19.13	18.51	120-130	14.69	15658	99.6,99.6
140	22.57	22.26	22.11	22.60	22.95	23.08	23.06	22.54	130-140	15.97	15674	99.8,99.8
150	25.70	25.40	25.41	25.80	26.35	26.43	26.34	25.93	140-150	15.24	15689	99.8,99.8
160	28.35	28.16	28.21	28.46	28.94	29.04	28.94	28.60	150-160	12.60	15702	99.9,99.9
170	30.14	29.97	30.07	30.10	30.84	30.95	30.88	30.54	160-170	8.361	15710	100,100
180	31.32	31.35	31.48	31.16	31.41	31.43	31.56	31.22	170-180	2.938	15713	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:02 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:230.20V I:0.5427A P:123.01W PF:0.9846 Freq:50.01Hz Lamp Flux:15713x1 lm		
NAME: BLP-SHBL120WA	TYPE:	WEIGHT:4.52Kg
SPEC.:	DIM.: 0.33*0.33	SERIAL No.:
MFR.: Shenzhen Brilloop Lighting	SUR.:0.20*0.20	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	18607	30299
80	49107	60834
75	76894	86738
70	98771	106363
65	113638	119471
60	125482	129721
55	132009	134912
50	137802	139513
45	142636	143840

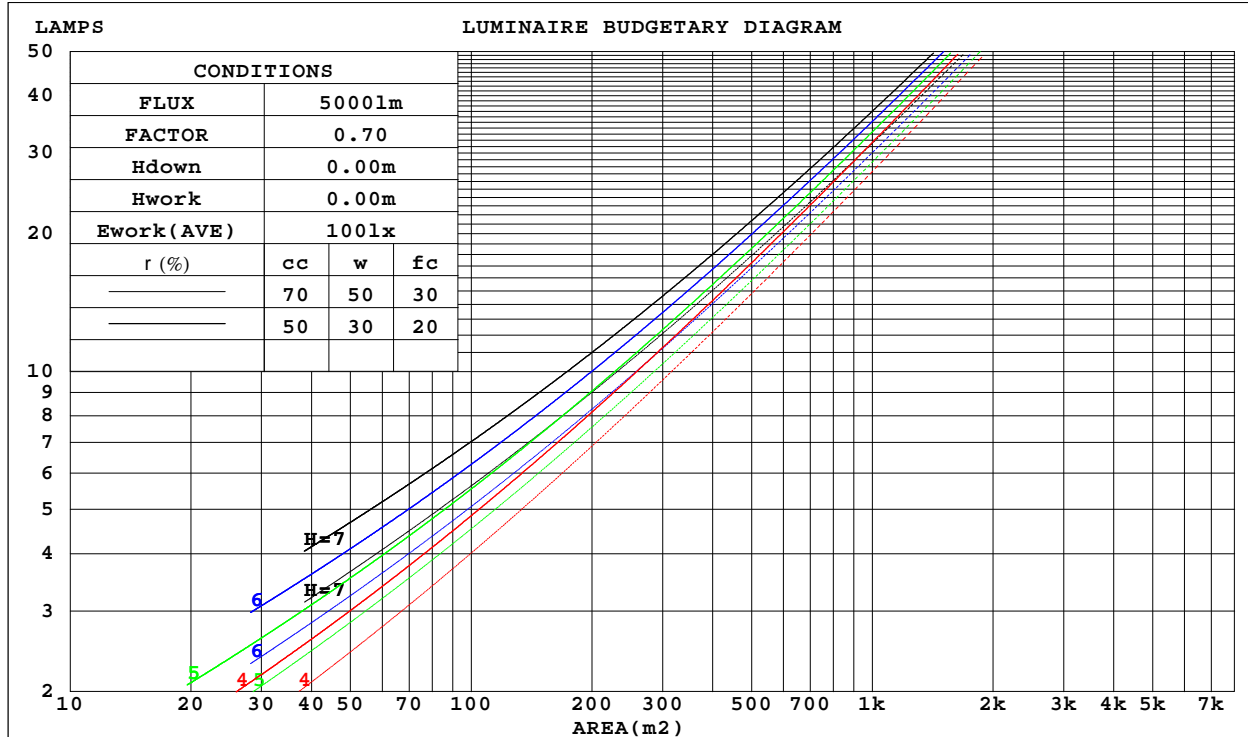
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:02 February 2018

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:230.20V I:0.5427A P:123.01W PF:0.9846 Freq:50.01Hz Lamp Flux:15713x1 lm		
NAME: BLP-SHBL120WA	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	.97	1.03	.99	.96	.98	.95	.93	.94	.92	.90	.91	.89	.87	.85
2.0	.92	.86	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.77	.74	.71
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.66	.63	.60
4.0	.72	.63	.57	.70	.62	.56	.68	.61	.55	.66	.60	.55	.63	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.49	.61	.54	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.58	.49	.43	.57	.48	.42	.55	.48	.42	.53	.47	.42	.52	.46	.41	.39
7.0	.52	.44	.38	.51	.43	.37	.50	.43	.37	.48	.42	.37	.47	.41	.37	.35
8.0	.48	.39	.34	.47	.39	.33	.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	.29	.28
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:02 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:230.20V I:0.5427A P:123.01W PF:0.9846 Freq:50.01Hz Lamp Flux:15713x1 lm		
NAME: BLP-SHBL120WA	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	.285	.162	.051	.278	.159	.050	.265	.152	.048	.252	.145	.047	.241	.140	.045	
2.0	.275	.151	.046	.269	.148	.046	.257	.143	.044	.246	.138	.043	.236	.134	.042	
3.0	.259	.138	.041	.253	.136	.041	.243	.131	.040	.233	.128	.039	.224	.124	.038	
4.0	.241	.125	.037	.236	.124	.037	.227	.120	.036	.218	.117	.035	.210	.114	.035	
5.0	.224	.114	.033	.220	.113	.033	.212	.110	.032	.204	.108	.032	.197	.105	.032	
6.0	.209	.105	.030	.205	.104	.030	.198	.101	.029	.191	.099	.029	.184	.097	.029	
7.0	.195	.097	.027	.192	.096	.027	.185	.094	.027	.179	.092	.027	.173	.090	.026	
8.0	.183	.089	.025	.180	.088	.025	.174	.087	.025	.168	.085	.025	.163	.084	.024	
9.0	.172	.083	.023	.169	.082	.023	.164	.081	.023	.159	.079	.023	.154	.078	.023	
10.0	.162	.078	.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	.090	.103	.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	.044	.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	.127	.069	.030	.109	.060	.026	.076	.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:02 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:230.20V I:0.5427A P:123.01W PF:0.9846 Freq:50.01Hz Lamp Flux:15713x1 lm										
NAME: BLP-SHBL120WA					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	30.1	31.6	30.4	31.8	32.0	30.2	31.7	30.5	31.9	32.1
3H	31.3	32.6	31.6	32.9	33.1	31.5	32.8	31.8	33.1	33.3
4H	31.6	32.9	32.0	33.2	33.5	31.9	33.2	32.2	33.4	33.7
6H	31.8	33.0	32.1	33.3	33.6	32.1	33.3	32.4	33.6	33.8
8H	31.8	32.9	32.1	33.2	33.5	32.1	33.2	32.4	33.5	33.8
12H	31.7	32.8	32.1	33.1	33.5	32.1	33.2	32.4	33.5	33.8
4H 2H	30.6	31.9	31.0	32.2	32.5	30.7	32.0	31.0	32.3	32.5
3H	32.0	33.1	32.4	33.4	33.8	32.2	33.3	32.5	33.6	33.9
4H	32.5	33.5	32.8	33.8	34.2	32.7	33.7	33.1	34.0	34.4
6H	32.7	33.6	33.1	33.9	34.3	32.9	33.8	33.4	34.2	34.6
8H	32.7	33.5	33.1	33.9	34.3	33.0	33.8	33.4	34.2	34.6
12H	32.6	33.4	33.1	33.8	34.2	33.0	33.7	33.4	34.1	34.6
8H 4H	32.6	33.5	33.0	33.8	34.2	32.8	33.7	33.2	34.0	34.4
6H	32.9	33.6	33.3	34.0	34.4	33.2	33.9	33.6	34.3	34.7
8H	32.9	33.5	33.4	34.0	34.4	33.2	33.8	33.7	34.3	34.7
12H	32.9	33.5	33.4	33.9	34.4	33.3	33.8	33.7	34.2	34.7
12H 4H	32.6	33.4	33.0	33.8	34.2	32.8	33.6	33.2	34.0	34.4
6H	32.9	33.5	33.4	33.9	34.4	33.2	33.8	33.6	34.2	34.7
8H	33.0	33.5	33.4	33.9	34.4	33.3	33.8	33.7	34.2	34.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117, 15713 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 9.6)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:02 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:230.20V I:0.5427A P:123.01W PF:0.9846 Freq:50.01Hz Lamp Flux:15713x1 lm		
NAME: BLP-SHBL120WA	TYPE:	WEIGHT:4.52Kg
SPEC.:	DIM.: 0.33*0.33	SERIAL No.:
MFR.: Shenzhen Brilloop Lighting	SUR.:0.20*0.20	Shielding Angle:

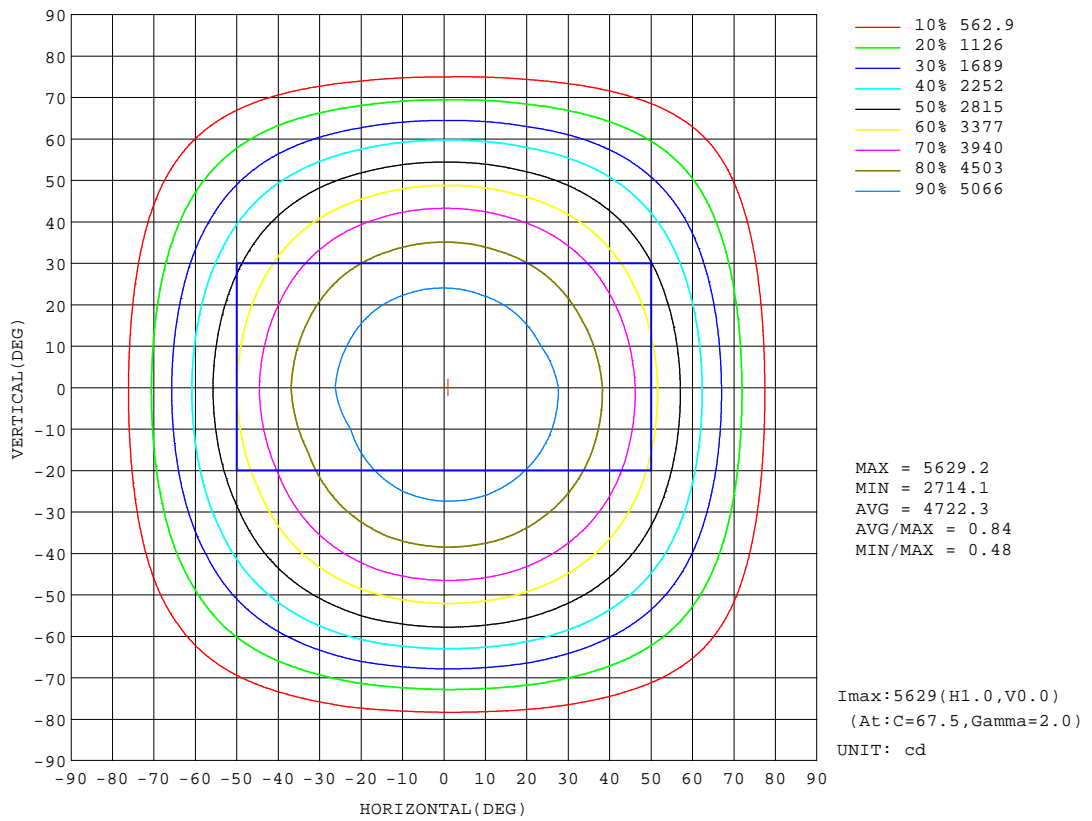
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	58	47	40	58	47	40	56	46	40	33
0.80	69	57	50	68	57	50	66	56	49	43
1.00	77	67	59	76	66	59	74	67	59	52
1.25	85	74	68	83	74	67	80	72	66	59
1.50	89	80	73	88	79	73	85	77	72	64
2.00	96	88	82	94	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	100	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:02 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:230.20V I:0.5427A P:123.01W PF:0.9846 Freq:50.01Hz Lamp Flux:15713x1 lm		
NAME: BLP-SHBL120WA	TYPE:	WEIGHT:4.52Kg
SPEC.:	DIM.: 0.33*0.33	SERIAL No.:
MFR.: Shenzhen Brilloop Lighting	SUR.:0.20*0.20	Shielding Angle:



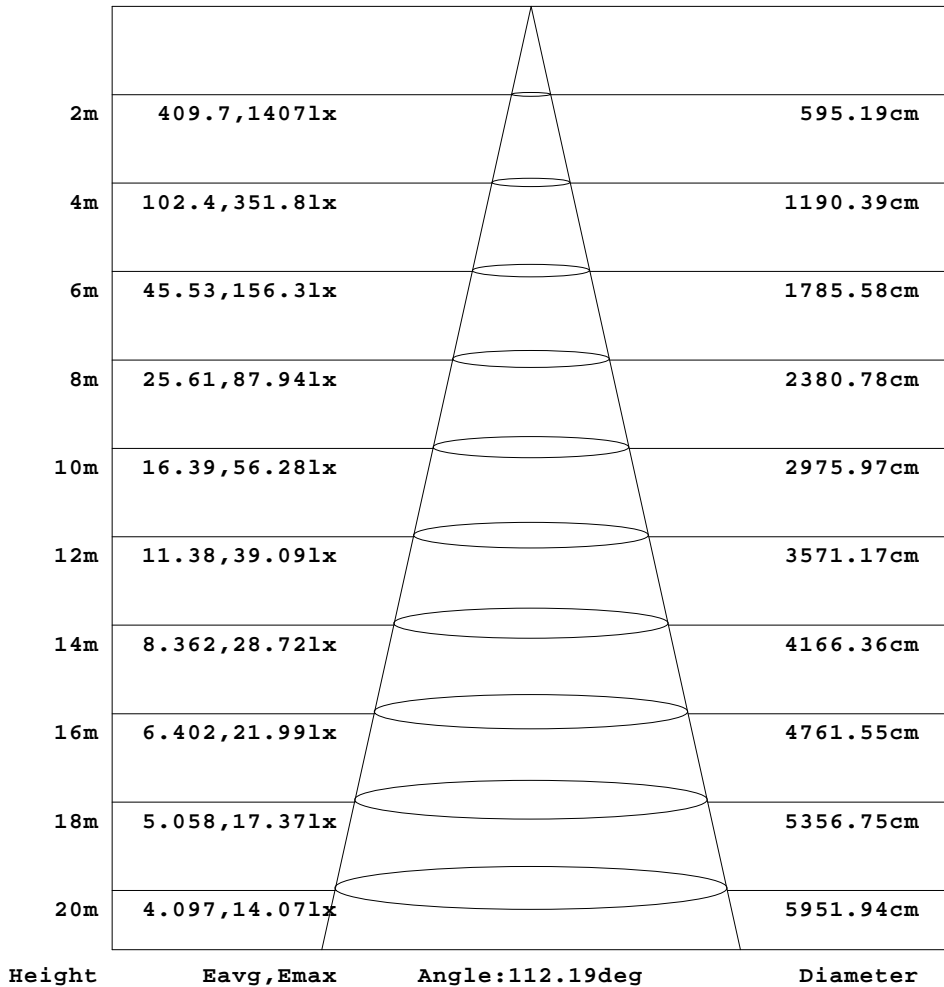
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:02 February 2018

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:230.20V I:0.5427A P:123.01W PF:0.9846 Freq:50.01Hz Lamp Flux:15713x1 lm		
NAME: BLP-SHBL120WA	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:12209 lm



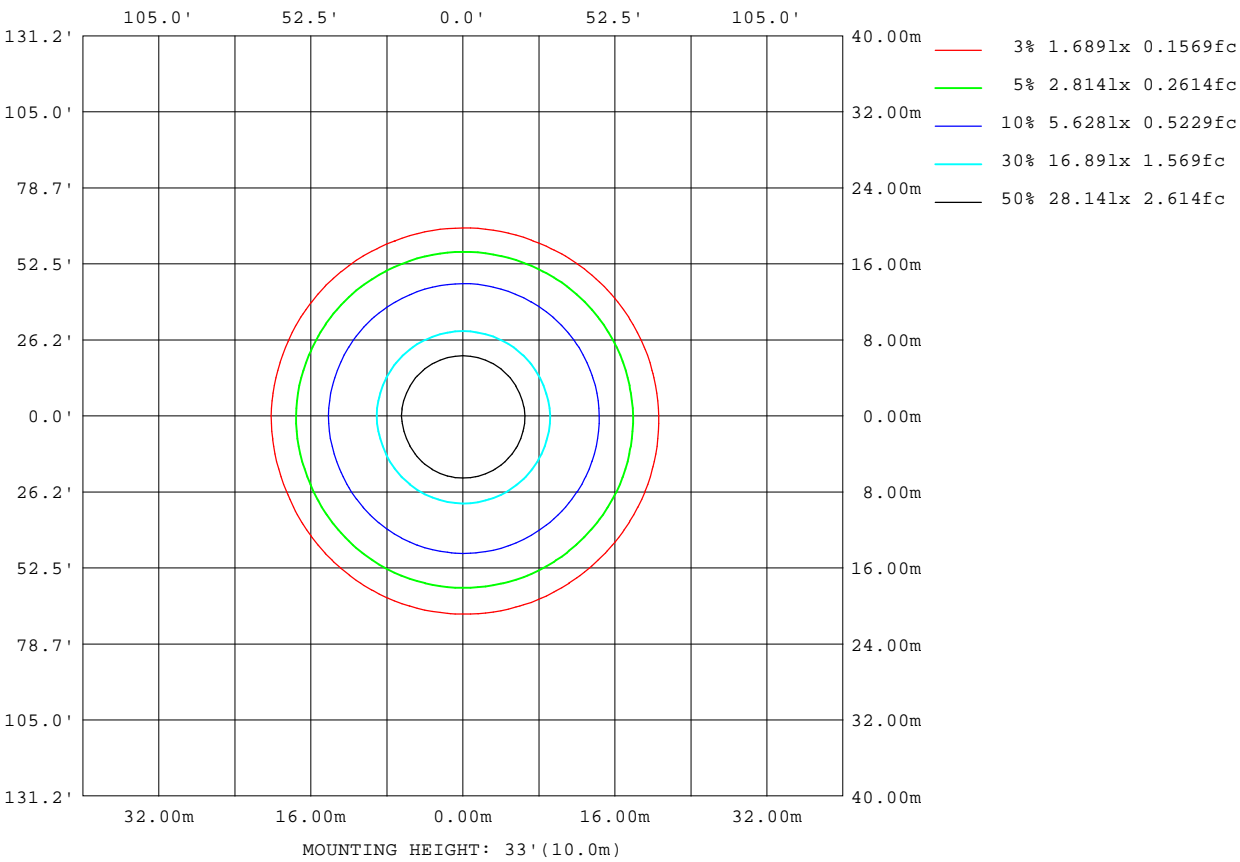
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:02 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:230.20V I:0.5427A P:123.01W PF:0.9846 Freq:50.01Hz Lamp Flux:15713x1 lm		
NAME: BLP-SHBL120WA	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:02 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:230.20V I:0.5427A P:123.01W PF:0.9846 Freq:50.01Hz Lamp Flux:15713x1 lm		
NAME: BLP-SHBL120WA	TYPE:	WEIGHT:4.52Kg
SPEC.:	DIM.: 0.33*0.33	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.20*0.20	Shielding Angle:

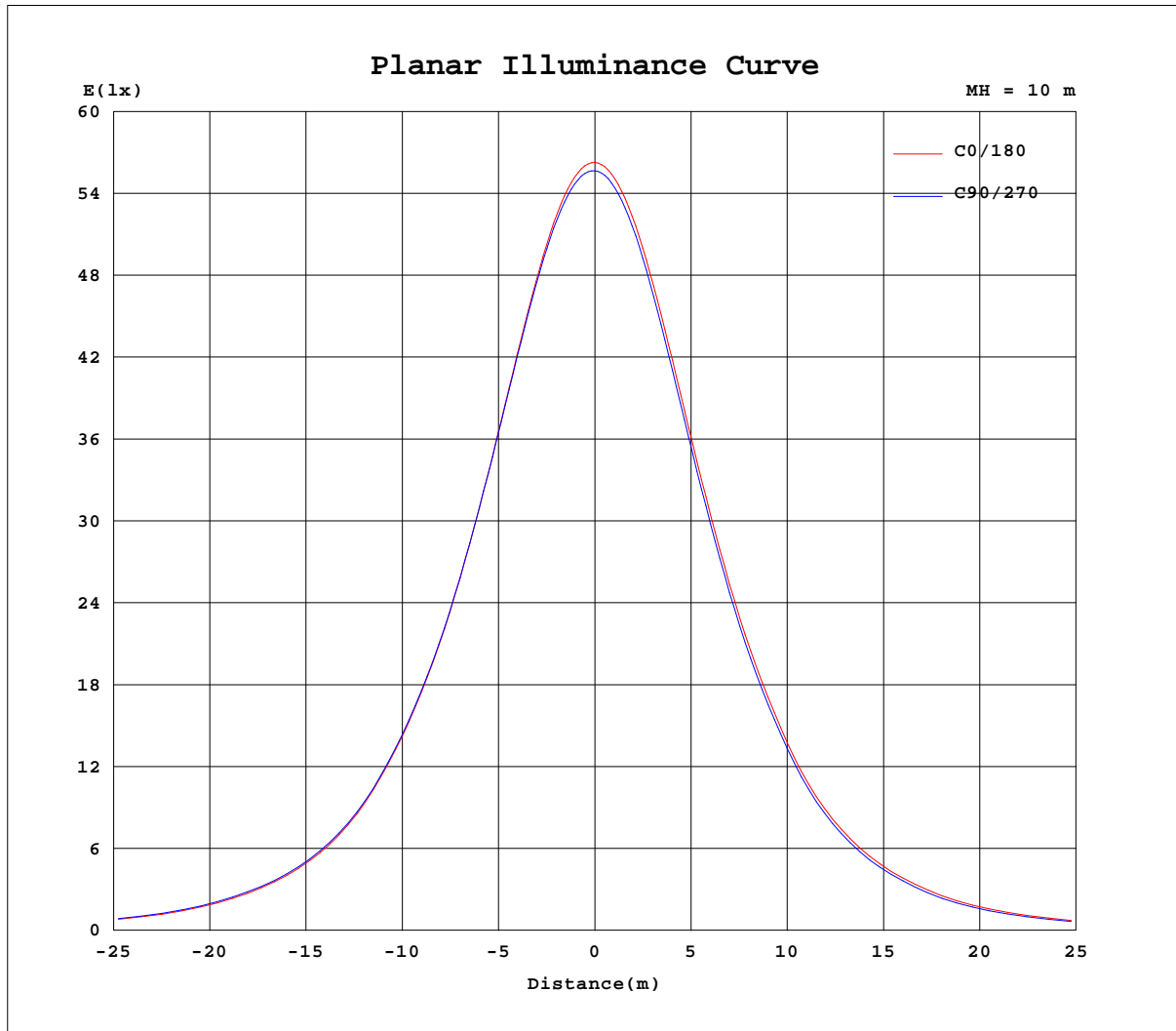
AvgL	cd/m2
L_0~180(65)av	108088
L_0~180(75)av	70053
L_0~180(85)av	13322
L_90~270(65)av	107994
L_90~270(75)av	70327
L_90~270(85)av	17195
L_45(65)av	108021
L_45(75)av	70167
L_45(85)av	14473

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:02 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: 02 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:230.20V I:0.5427A P:123.01W PF:0.9846 Freq:50.01Hz Lamp Flux:15713x1 lm		
NAME: BLP-SHBL120WA	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	5577	5577	5577	5577	5577	5577	5577	5577	5577	5577	5577	5577	5577	5577	5577	5577			
5	5566	5571	5573	5575	5575	5572	5565	5560	5556	5553	5552	5550	5551	5553	5560	5566			
10	5523	5531	5534	5539	5538	5531	5518	5505	5500	5493	5490	5485	5487	5492	5505	5518			
15	5434	5447	5452	5461	5460	5450	5429	5408	5402	5391	5384	5376	5379	5386	5407	5428			
20	5303	5321	5327	5339	5337	5325	5296	5268	5259	5242	5234	5224	5227	5237	5266	5292			
25	5130	5152	5160	5173	5173	5158	5121	5086	5074	5052	5043	5028	5034	5046	5081	5115			
30	4913	4940	4950	4967	4965	4949	4905	4862	4848	4820	4809	4792	4796	4810	4854	4896			
35	4655	4686	4699	4719	4715	4698	4647	4593	4577	4546	4532	4508	4515	4531	4582	4635			
40	4350	4385	4401	4424	4419	4401	4343	4279	4261	4225	4210	4182	4188	4205	4266	4327			
45	3998	4039	4057	4082	4076	4056	3983	3902	3863	3800	3785	3763	3785	3825	3900	3974			
50	3511	3557	3579	3600	3594	3559	3473	3378	3348	3303	3281	3245	3258	3289	3381	3474			
55	3001	3049	3074	3107	3101	3072	2982	2895	2864	2816	2792	2753	2755	2783	2873	2968			
60	2487	2547	2568	2610	2599	2569	2474	2386	2340	2273	2241	2203	2217	2262	2365	2455			
65	1904	1965	1992	2028	2023	1985	1878	1785	1751	1696	1670	1625	1628	1662	1765	1864			
70	1339	1403	1427	1470	1458	1428	1321	1227	1183	1128	1103	1060	1060	1099	1189	1305			
75	789	842	872	910	900	871	780	691	662	617	585	556	557	596	668	758			
80	338	376	399	421	423	395	328	270	250	215	201	180	182	203	255	312			
85	64.3	81.8	96.7	104	106	88.9	56.8	33.0	28.6	20.9	17.7	13.9	14.1	16.8	30.7	53.6			
90	2.75	3.03	3.42	4.12	3.96	3.23	2.70	2.83	2.74	2.80	2.86	2.91	2.91	2.84	2.71	2.61			
95	3.77	3.65	3.56	3.49	3.48	3.58	3.79	4.07	3.89	4.00	4.09	4.18	4.17	4.07	3.84	3.59			
100	5.37	5.20	5.08	4.98	4.97	5.09	5.39	5.73	5.52	5.67	5.76	5.88	5.86	5.73	5.44	5.12			
105	7.31	7.10	6.97	6.85	6.87	7.00	7.36	7.75	7.52	7.70	7.79	7.92	7.88	7.72	7.37	6.99			
110	9.50	9.25	9.14	9.02	9.05	9.18	9.54	9.95	9.75	9.92	10.0	10.2	10.1	9.90	9.54	9.12			
115	11.8	11.5	11.4	11.3	11.4	11.5	11.8	12.3	12.1	12.3	12.3	12.5	12.4	12.2	11.8	11.4			
120	14.1	13.8	13.7	13.6	13.8	13.8	14.1	14.6	14.4	14.6	14.6	14.8	14.7	14.4	14.0	13.6			
125	16.4	16.2	16.0	15.9	16.0	16.1	16.4	16.8	16.7	16.8	16.9	17.0	17.0	16.7	16.3	15.9			
130	18.6	18.3	18.2	18.1	18.1	18.2	18.6	19.0	18.9	19.0	19.1	19.2	19.1	18.9	18.5	18.1			
135	20.6	20.4	20.3	20.2	20.1	20.3	20.7	21.1	21.0	21.1	21.2	21.2	21.2	21.0	20.6	20.2			
140	22.6	22.4	22.3	22.2	22.1	22.3	22.6	23.0	22.9	23.0	23.1	23.1	23.1	22.9	22.5	22.2			
145	24.2	24.1	23.9	23.8	23.8	24.0	24.3	24.6	24.7	24.8	24.8	24.8	24.8	24.6	24.3	24.0			
150	25.7	25.6	25.4	25.4	25.4	25.6	25.8	26.1	26.4	26.4	26.4	26.4	26.3	26.2	25.9	25.6			
155	27.1	27.0	26.9	26.9	26.9	27.0	27.2	27.5	27.7	27.7	27.8	27.7	27.7	27.5	27.3	27.0			
160	28.4	28.3	28.2	28.2	28.2	28.4	28.5	28.7	28.9	28.9	29.0	29.0	28.9	28.8	28.6	28.4			
165	29.4	29.3	29.2	29.3	29.2	29.4	29.4	29.7	30.0	30.0	30.1	30.1	30.0	29.8	29.7	29.6			
170	30.1	30.1	30.0	30.0	30.1	30.1	30.1	30.3	30.8	30.8	31.0	30.9	30.9	30.6	30.5	30.4			
175	30.8	30.8	30.7	30.9	30.9	30.9	30.8	30.9	31.1	31.1	31.3	31.2	31.2	30.9	30.9	30.8			
180	31.3	31.4	31.3	31.5	31.5	31.4	31.2	31.2	31.4	31.3	31.4	31.4	31.6	31.3	31.2	31.2			

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 C Interval: 22.5DEG
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