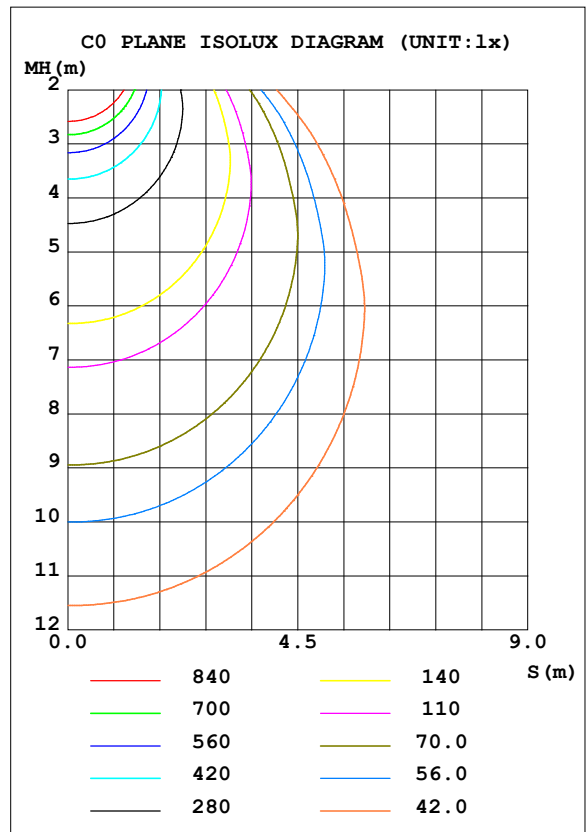
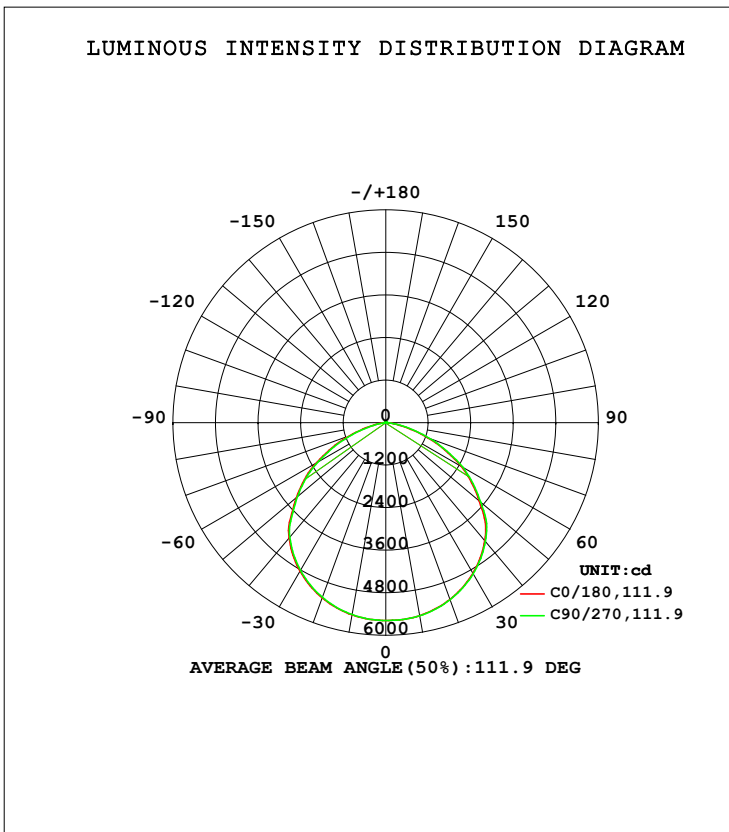


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.14V I:0.4533A P:102.34W PF:0.9810 Freq:50.01Hz Lamp Flux:15474.2x1 lm		
NAME: BLP-SHBL100WB	TYPE:	WEIGHT:3.78Kg
SPEC.:	DIM.: 0.28*0.28	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.16*0.16	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.20 lm/W			
MODEL		Imax (cd)	5580	S/MH (C0/180)	1.29
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	15474	η UP, DN (C0-180)	0.3, 51.0
NOMINAL FLUX (lm)	15474.2	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.3, 48.4
LAMPS INSIDE	1	η up (%)	0.6	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η 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: 05 February 2018

γ Range: 0 - 180DEG
 γ 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:

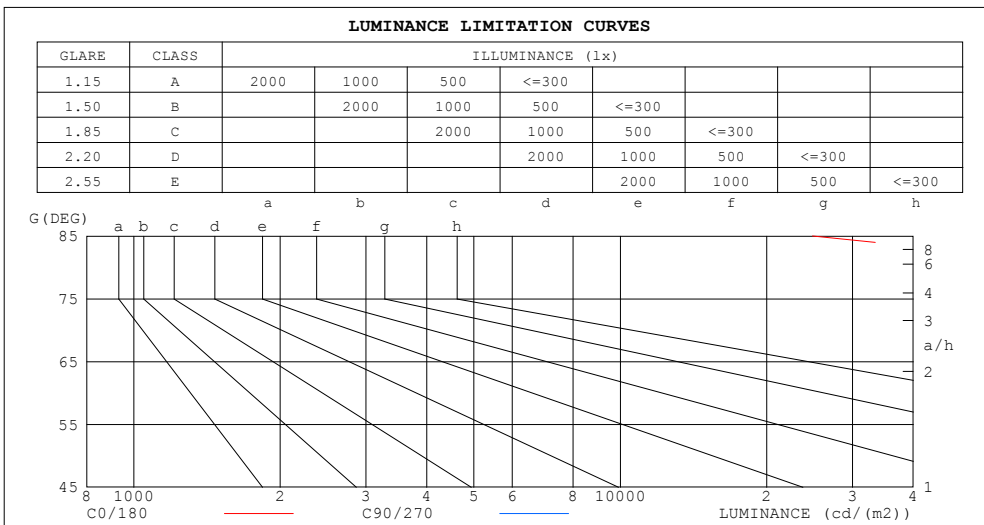
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	5527	5532	5531	5518	5505	5498	5497	5512	0- 10	529.7	529.7	3.42,3.42
20	5303	5318	5314	5284	5256	5240	5239	5271	10- 20	1530	2060	13.3,13.3
30	4909	4933	4927	4883	4839	4817	4815	4864	20- 30	2350	4410	28.5,28.5
40	4345	4376	4373	4308	4248	4216	4215	4280	30- 40	2882	7291	47.1,47.1
50	3449	3511	3502	3386	3289	3245	3252	3347	40- 50	2984	10275	66.4,66.4
60	2451	2511	2506	2369	2242	2188	2181	2306	50- 60	2571	12846	83,83
70	1276	1342	1329	1200	1092	1040	1036	1154	60- 70	1737	14583	94.2,94.2
80	307.6	345.6	347.2	273.8	207.1	170.0	170.5	233.0	70- 80	716.9	15300	98.9,98.9
90	2.576	3.170	3.467	2.631	2.624	2.729	2.710	2.518	80- 90	80.30	15380	99.4,99.4
100	5.103	4.911	4.892	5.253	5.349	5.525	5.503	5.096	90-100	4.067	15384	99.4,99.4
110	9.263	9.003	8.993	9.468	9.601	9.801	9.735	9.206	100-110	7.595	15392	99.5,99.5
120	14.05	13.78	13.82	14.27	14.41	14.57	14.49	13.92	110-120	11.63	15403	99.5,99.5
130	18.79	18.50	18.47	18.95	19.20	19.29	19.17	18.60	120-130	14.79	15418	99.6,99.6
140	23.04	22.80	22.63	23.11	23.50	23.53	23.33	22.94	130-140	16.24	15434	99.7,99.7
150	26.23	26.03	26.01	26.35	26.98	27.05	26.76	26.50	140-150	15.56	15450	99.8,99.8
160	28.79	28.70	28.85	28.97	29.47	29.58	29.37	29.10	150-160	12.85	15463	99.9,99.9
170	30.43	30.32	30.59	30.56	31.25	31.42	31.23	30.89	160-170	8.495	15471	100,100
180	31.66	31.81	31.91	31.61	31.71	31.87	31.95	31.64	170-180	2.975	15474	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:05 February 2018

γ Range: 0 - 180DEG
 γ 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:230.14V I:0.4533A P:102.34W PF:0.9810 Freq:50.01Hz Lamp Flux:15474.2x1 lm		
NAME: BLP-SHBL100WB	TYPE:	WEIGHT:3.78Kg
SPEC.:	DIM.: 0.28*0.28	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.16*0.16	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	24844	37187
80	69481	78034
75	111706	118677
70	146325	151617
65	171824	175239
60	192255	195616
55	202602	204615
50	210480	212644
45	220413	221884

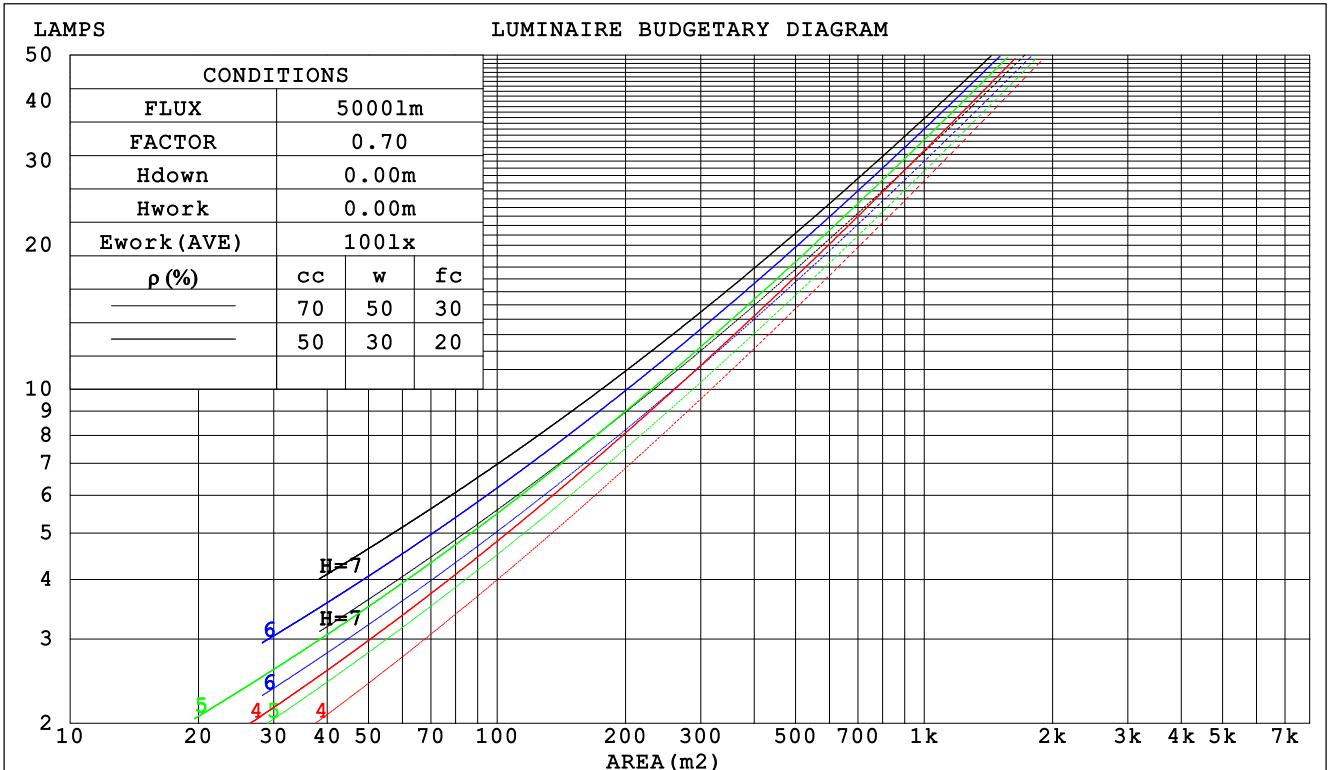
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:05 February 2018

γ Range: 0 - 180DEG
 γ 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:230.14V I:0.4533A P:102.34W PF:0.9810 Freq:50.01Hz Lamp Flux:15474.2x1 lm		
NAME: BLP-SHBL100WB	TYPE:	WEIGHT:3.78Kg
SPEC.:	DIM.: 0.28*0.28	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.16*0.16	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.78	.83	.79	.76	.80	.77	.74	.72
3.0	.81	.74	.67	.80	.72	.67	.77	.71	.65	.74	.69	.64	.71	.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	.43	.37	.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:25.3DEG
 Operators:DAMIN
 Test Date:05 February 2018

γ Range: 0 - 180DEG
 γ 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:230.14V I:0.4533A P:102.34W PF:0.9810 Freq:50.01Hz Lamp Flux:15474.2x1 lm		
NAME: BLP-SHBL100WB	TYPE:	WEIGHT:3.78Kg
SPEC.:	DIM.: 0.28*0.28	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.16*0.16	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.282	.160	.051	.274	.157	.050	.261	.150	.048	.249	.143	.046	.237	.137	.044	
2.0	.273	.149	.046	.266	.147	.045	.254	.142	.044	.244	.137	.043	.233	.132	.042	
3.0	.256	.136	.041	.251	.134	.040	.240	.130	.040	.231	.126	.039	.222	.123	.038	
4.0	.239	.124	.037	.234	.123	.036	.225	.119	.036	.216	.116	.035	.208	.113	.034	
5.0	.223	.114	.033	.218	.112	.033	.210	.109	.032	.202	.107	.032	.195	.104	.031	
6.0	.208	.104	.030	.204	.103	.030	.197	.101	.029	.190	.099	.029	.183	.096	.029	
7.0	.194	.096	.027	.191	.095	.027	.184	.093	.027	.178	.091	.027	.172	.089	.026	
8.0	.182	.089	.025	.179	.088	.025	.173	.086	.025	.167	.085	.024	.162	.083	.024	
9.0	.171	.083	.023	.168	.082	.023	.163	.081	.023	.158	.079	.023	.153	.078	.022	
10.0	.161	.077	.021	.159	.077	.021	.154	.075	.021	.149	.074	.021	.145	.073	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.122	.107	.095	.084	.062	.055	.049	.020	.018	.016	
2.0	.174	.137	.105	.149	.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	.010	
4.0	.159	.106	.065	.137	.091	.056	.094	.064	.039	.054	.037	.023	.017	.012	.008	
5.0	.152	.095	.053	.131	.082	.046	.090	.057	.033	.052	.034	.019	.017	.011	.006	
6.0	.145	.087	.045	.125	.075	.039	.086	.053	.028	.050	.031	.016	.016	.010	.005	
7.0	.139	.080	.039	.119	.069	.034	.082	.048	.024	.048	.029	.014	.015	.009	.005	
8.0	.132	.074	.034	.114	.064	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
9.0	.126	.069	.030	.109	.060	.026	.075	.042	.019	.044	.025	.011	.014	.008	.004	
10.0	.121	.065	.028	.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:05 February 2018

γ Range: 0 - 180DEG
 γ 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:230.14V I:0.4533A P:102.34W PF:0.9810 Freq:50.01Hz Lamp Flux:15474.2x1 lm										
NAME: BLP-SHBL100WB					TYPE:			WEIGHT:3.78Kg		
SPEC.:					DIM.: 0.28*0.28			SERIAL No.:		
MFR.: Shenzhen Brillloop Lighting					SUR.:0.16*0.16			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	31.5	33.0	31.8	33.2	33.4	31.6	33.1	31.9	33.3	33.5
3H	32.7	34.0	33.0	34.3	34.5	32.8	34.1	33.1	34.4	34.6
4H	33.0	34.3	33.3	34.6	34.8	33.1	34.4	33.4	34.7	34.9
6H	33.1	34.3	33.5	34.6	34.9	33.2	34.4	33.6	34.7	35.0
8H	33.1	34.3	33.5	34.6	34.9	33.2	34.4	33.6	34.7	35.0
12H	33.1	34.2	33.4	34.5	34.8	33.2	34.3	33.6	34.6	34.9
4H 2H	32.1	33.4	32.4	33.6	33.9	32.1	33.4	32.4	33.7	33.9
3H	33.4	34.5	33.7	34.8	35.1	33.5	34.6	33.8	34.9	35.2
4H	33.8	34.8	34.2	35.1	35.5	33.9	34.9	34.3	35.2	35.6
6H	34.0	34.9	34.4	35.2	35.6	34.1	35.0	34.5	35.3	35.7
8H	34.0	34.8	34.4	35.2	35.6	34.1	34.9	34.5	35.3	35.7
12H	33.9	34.7	34.4	35.1	35.5	34.1	34.8	34.5	35.2	35.7
8H 4H	33.9	34.8	34.3	35.1	35.5	34.0	34.8	34.4	35.2	35.6
6H	34.2	34.8	34.6	35.3	35.7	34.3	35.0	34.7	35.4	35.8
8H	34.2	34.8	34.7	35.2	35.7	34.3	34.9	34.8	35.4	35.8
12H	34.2	34.7	34.7	35.2	35.6	34.3	34.8	34.8	35.3	35.8
12H 4H	33.9	34.7	34.3	35.1	35.5	34.0	34.7	34.4	35.1	35.6
6H	34.2	34.8	34.6	35.2	35.7	34.3	34.9	34.7	35.3	35.8
8H	34.2	34.7	34.7	35.2	35.7	34.3	34.8	34.8	35.3	35.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 15474 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 9.5)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:05 February 2018

γ Range: 0 - 180DEG
 γ 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:230.14V I:0.4533A P:102.34W PF:0.9810 Freq:50.01Hz Lamp Flux:15474.2x1 lm		
NAME: BLP-SHBL100WB	TYPE:	WEIGHT:3.78Kg
SPEC.:	DIM.: 0.28*0.28	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.16*0.16	Shielding Angle:

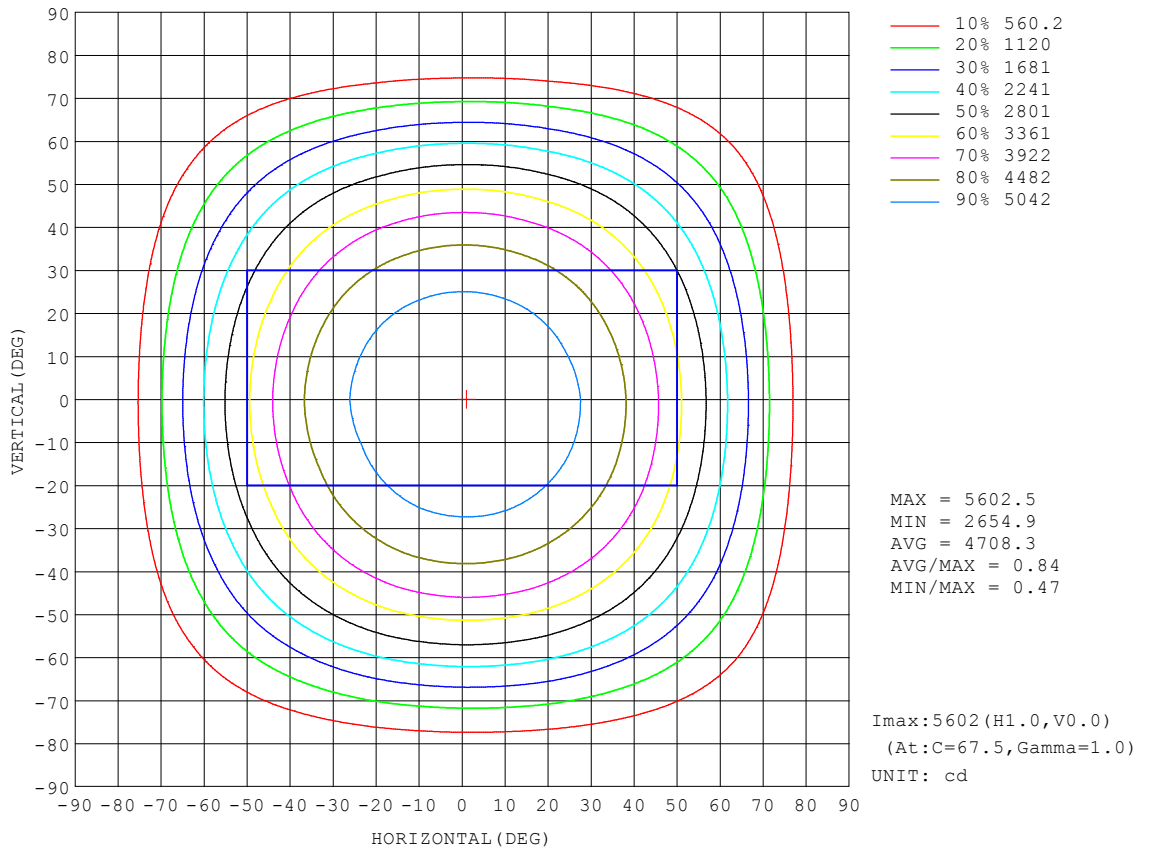
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	47	40	58	47	40	57	46	40	34
0.80	69	58	51	68	57	50	66	56	50	43
1.00	78	67	60	76	66	60	74	68	59	52
1.25	85	75	68	83	74	68	81	73	67	60
1.50	90	80	74	88	80	73	85	78	72	65
2.00	97	89	83	95	87	82	91	85	80	73
2.50	100	93	87	98	92	87	94	89	85	76
3.00	104	97	92	101	96	91	97	93	89	80
4.00	107	102	98	105	100	96	101	97	94	85
5.00	110	105	101	107	103	100	103	99	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:25.3DEG
 Operators:DAMIN
 Test Date:05 February 2018

γ Range: 0 - 180DEG
 γ 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:230.14V I:0.4533A P:102.34W PF:0.9810 Freq:50.01Hz Lamp Flux:15474.2x1 lm		
NAME: BLP-SHBL100WB	TYPE:	WEIGHT:3.78Kg
SPEC.:	DIM.: 0.28*0.28	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.16*0.16	Shielding Angle:

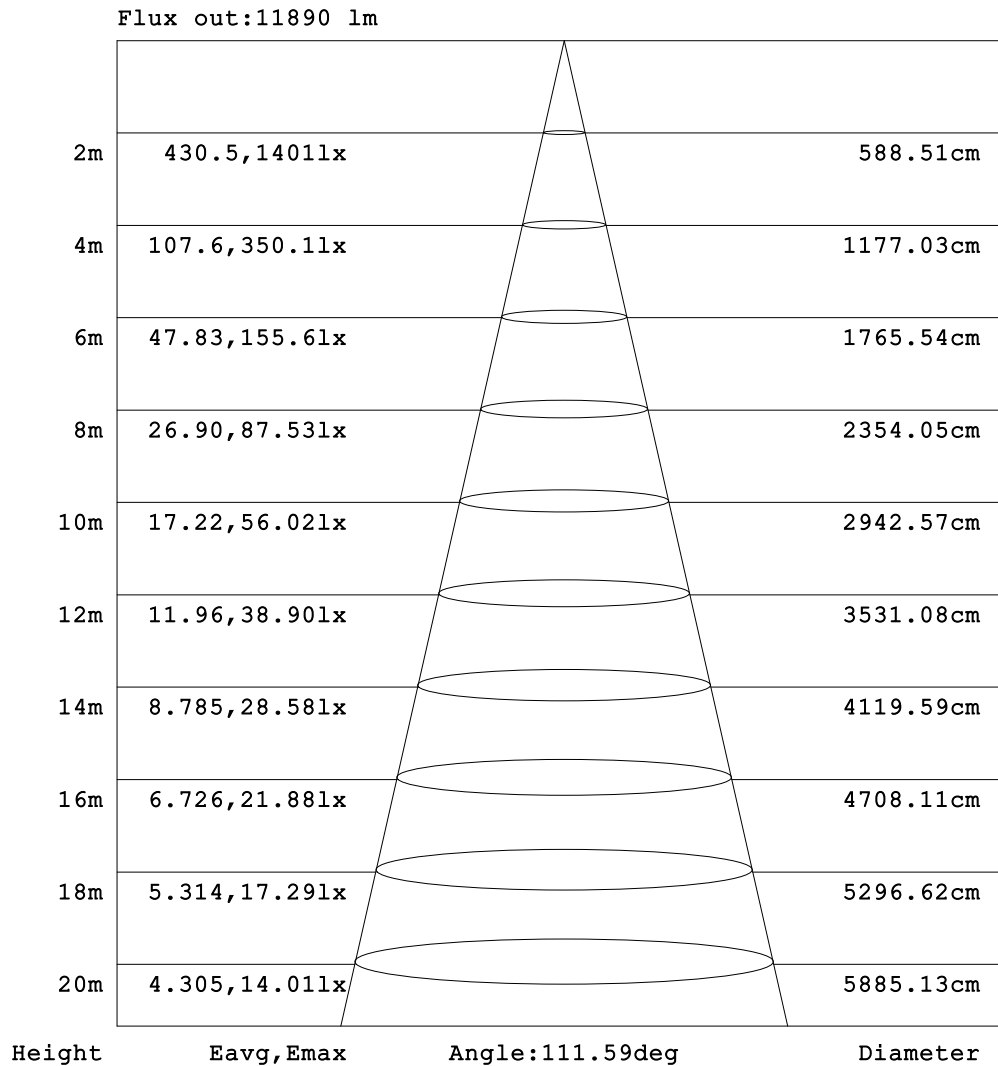


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:05 February 2018

γ Range: 0 - 180DEG
 γ 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:230.14V I:0.4533A P:102.34W PF:0.9810 Freq:50.01Hz Lamp Flux:15474.2x1 lm		
NAME: BLP-SHBL100WB	TYPE:	WEIGHT:3.78Kg
SPEC.:	DIM.: 0.28*0.28	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.16*0.16	Shielding Angle:



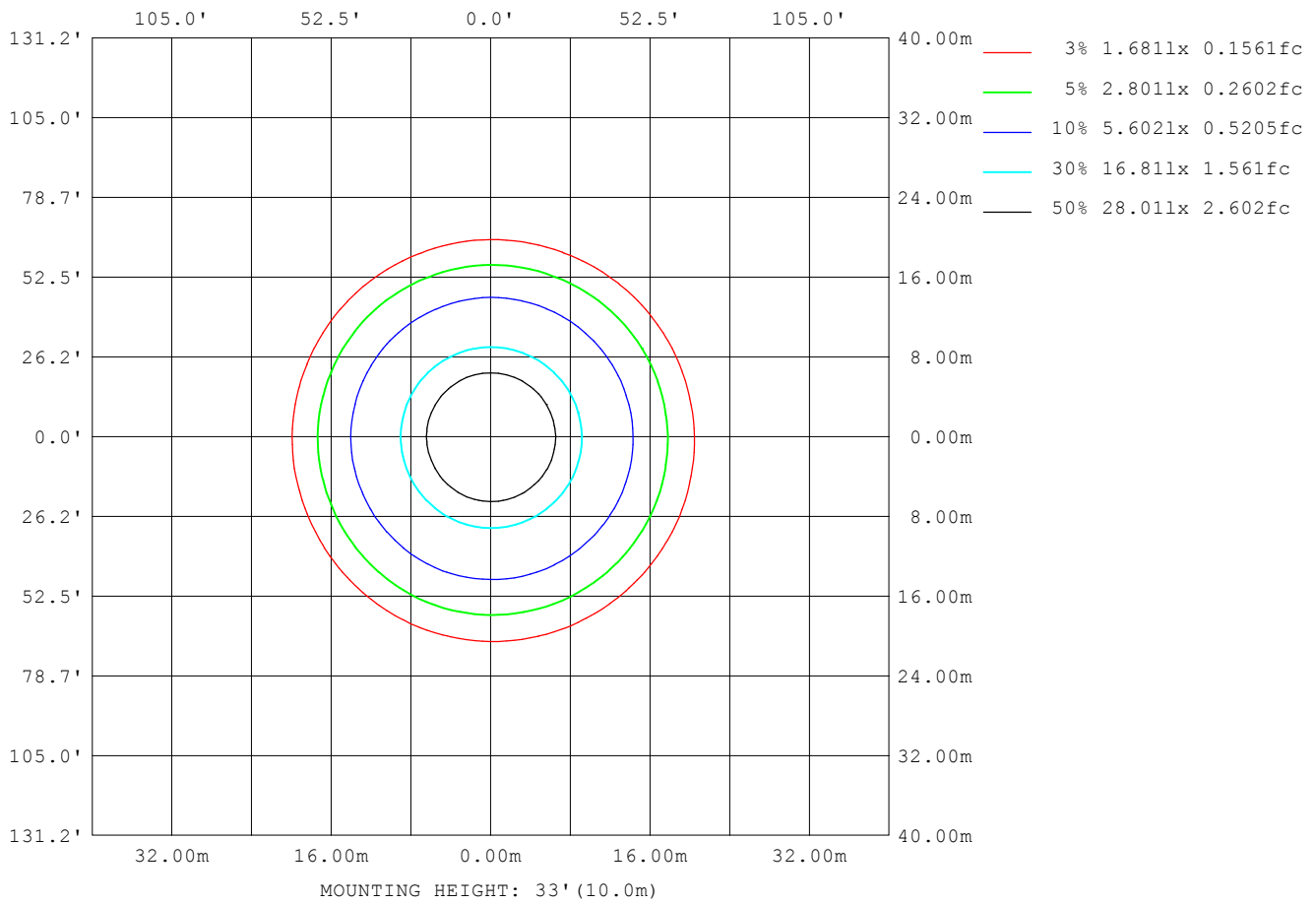
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:05 February 2018

γ Range: 0 - 180DEG
 γ 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:230.14V I:0.4533A P:102.34W PF:0.9810 Freq:50.01Hz Lamp Flux:15474.2x1 lm		
NAME: BLP-SHBL100WB	TYPE:	WEIGHT:3.78Kg
SPEC.:	DIM.: 0.28*0.28	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.16*0.16	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:05 February 2018

γ Range: 0 - 180DEG
 γ 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:230.14V I:0.4533A P:102.34W PF:0.9810 Freq:50.01Hz Lamp Flux:15474.2x1 lm		
NAME: BLP-SHBL100WB	TYPE:	WEIGHT:3.78Kg
SPEC.:	DIM.: 0.28*0.28	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.16*0.16	Shielding Angle:

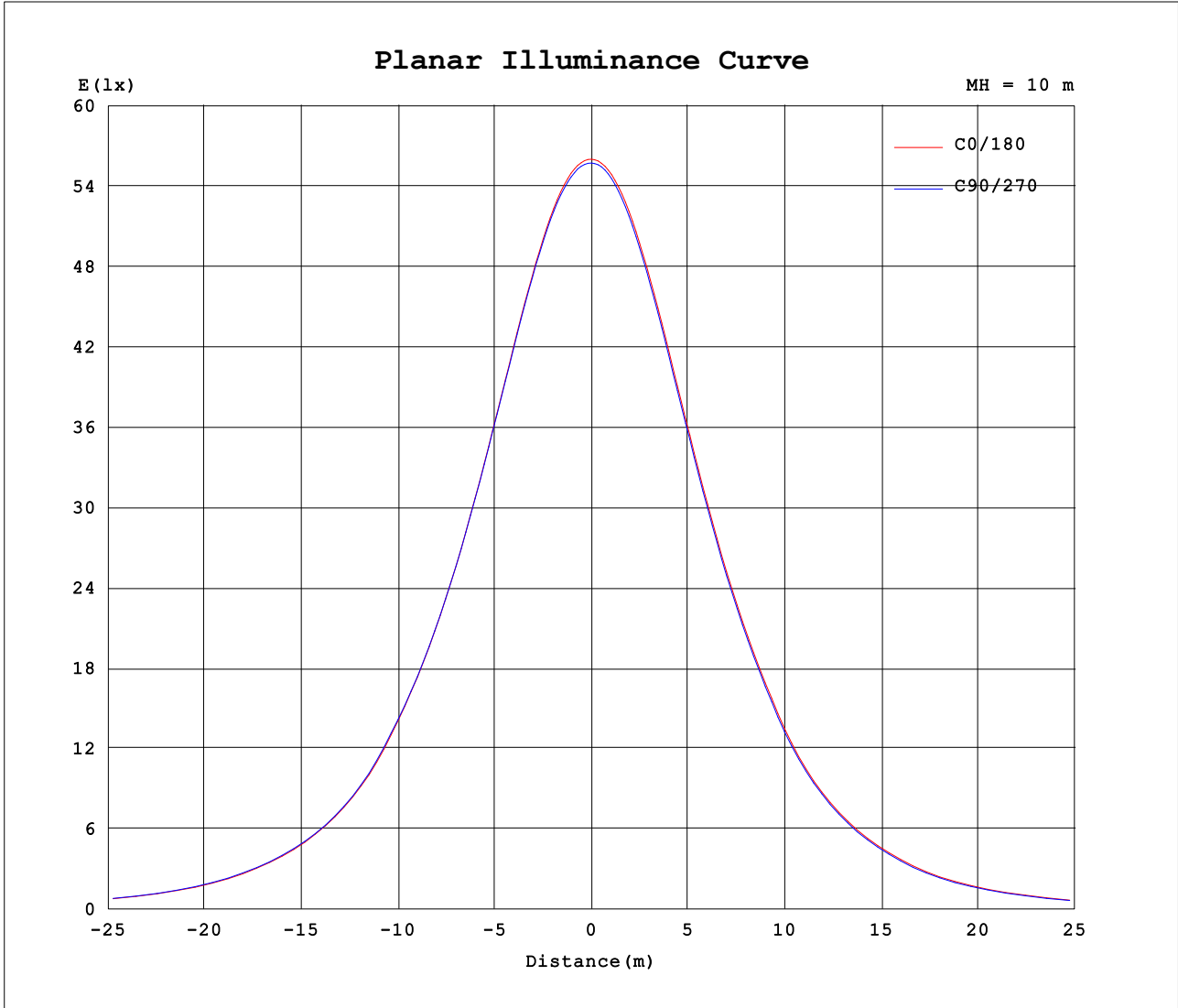
AvgL	cd/m2
L_0~180 (65) av	162727
L_0~180 (75) av	100046
L_0~180 (85) av	17786
L_90~270 (65) av	162177
L_90~270 (75) av	99514
L_90~270 (85) av	21243
L_45 (65) av	162161
L_45 (75) av	99711
L_45 (85) av	18656

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:05 February 2018

γ Range: 0 - 180DEG
 γ 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: 05 February 2018

γ Range: 0 - 180DEG
 γ 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:230.14V I:0.4533A P:102.34W PF:0.9810 Freq:50.01Hz Lamp Flux:15474.2x1 lm		
NAME: BLP-SHBL100WB	TYPE:	WEIGHT:3.78Kg
SPEC.:	DIM.: 0.28*0.28	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.16*0.16	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	5579	5579	5579	5579	5579	5579	5579	5579	5579	5579	5579	5579	5579	5579	5579	5579			
5	5571	5572	5572	5572	5571	5569	5566	5562	5562	5560	5561	5559	5561	5562	5567	5569			
10	5527	5532	5532	5533	5531	5526	5518	5508	5505	5498	5498	5495	5497	5501	5512	5521			
15	5436	5445	5447	5448	5445	5437	5422	5407	5403	5394	5391	5387	5390	5396	5413	5428			
20	5303	5315	5318	5320	5314	5305	5284	5263	5256	5245	5240	5236	5239	5248	5271	5291			
25	5127	5143	5146	5151	5141	5131	5104	5079	5068	5054	5048	5042	5047	5060	5088	5114			
30	4909	4930	4933	4939	4927	4915	4883	4852	4839	4822	4817	4810	4815	4828	4864	4894			
35	4650	4672	4676	4683	4672	4657	4619	4581	4566	4546	4539	4531	4539	4553	4594	4631			
40	4345	4370	4376	4383	4373	4354	4308	4266	4248	4223	4216	4205	4215	4232	4280	4324			
45	3973	4017	4027	4035	4020	3986	3911	3836	3801	3757	3751	3740	3755	3780	3852	3925			
50	3449	3498	3511	3524	3502	3462	3386	3319	3289	3254	3245	3232	3252	3279	3347	3410			
55	2963	3000	3010	3024	3007	2975	2900	2833	2805	2765	2758	2736	2759	2791	2862	2924			
60	2451	2498	2511	2524	2506	2471	2369	2279	2242	2198	2188	2161	2181	2216	2306	2395			
65	1851	1899	1908	1918	1898	1852	1768	1700	1670	1631	1614	1597	1612	1646	1728	1808			
70	1276	1322	1342	1355	1329	1281	1200	1129	1092	1055	1040	1023	1036	1068	1154	1231			
75	737	781	794	803	787	750	681	619	589	546	539	519	532	558	629	698			
80	308	340	346	355	347	323	274	236	207	184	170	162	170	186	233	272			
85	55.2	72.2	79.5	85.8	83.0	73.0	49.8	32.3	24.2	16.5	13.2	11.0	11.8	14.8	24.0	39.4			
90	2.58	2.85	3.17	3.60	3.47	3.01	2.63	2.68	2.62	2.68	2.73	2.72	2.71	2.62	2.52	2.41			
95	3.55	3.47	3.41	3.39	3.39	3.49	3.66	3.88	3.73	3.84	3.88	3.90	3.86	3.76	3.56	3.37			
100	5.10	4.97	4.91	4.86	4.89	5.00	5.25	5.53	5.35	5.48	5.52	5.55	5.50	5.35	5.10	4.84			
105	7.03	6.87	6.80	6.73	6.78	6.91	7.22	7.53	7.34	7.50	7.54	7.57	7.49	7.32	7.00	6.73			
110	9.26	9.07	9.00	8.94	8.99	9.14	9.47	9.80	9.60	9.75	9.80	9.82	9.73	9.54	9.21	8.89			
115	11.6	11.4	11.4	11.3	11.4	11.5	11.9	12.2	12.0	12.1	12.2	12.2	12.1	11.9	11.5	11.2			
120	14.0	13.8	13.8	13.7	13.8	14.0	14.3	14.6	14.4	14.6	14.6	14.6	14.5	14.3	13.9	13.6			
125	16.5	16.3	16.2	16.1	16.2	16.4	16.6	17.0	16.8	17.0	17.0	17.0	16.9	16.7	16.3	15.9			
130	18.8	18.6	18.5	18.4	18.5	18.7	19.0	19.3	19.2	19.3	19.3	19.2	19.2	18.9	18.6	18.3			
135	21.0	20.9	20.7	20.6	20.6	20.8	21.1	21.5	21.4	21.5	21.5	21.4	21.3	21.1	20.8	20.5			
140	23.0	22.9	22.8	22.6	22.6	22.8	23.1	23.5	23.5	23.6	23.5	23.4	23.3	23.1	22.9	22.6			
145	24.7	24.6	24.5	24.4	24.4	24.6	24.8	25.1	25.4	25.4	25.4	25.2	25.1	25.0	24.8	24.4			
150	26.2	26.2	26.0	26.0	26.0	26.2	26.3	26.7	27.0	27.0	27.0	26.9	26.8	26.7	26.5	26.2			
155	27.6	27.5	27.4	27.5	27.5	27.6	27.7	28.0	28.3	28.3	28.4	28.3	28.1	28.1	27.9	27.6			
160	28.8	28.8	28.7	28.8	28.9	28.9	29.0	29.2	29.5	29.5	29.6	29.6	29.4	29.3	29.1	28.9			
165	29.7	29.7	29.6	29.8	29.8	29.9	29.9	30.0	30.5	30.6	30.6	30.7	30.5	30.3	30.1	30.0			
170	30.4	30.4	30.3	30.5	30.6	30.6	30.6	30.6	31.3	31.3	31.4	31.4	31.2	31.0	30.9	30.8			
175	31.2	31.1	31.1	31.2	31.3	31.3	31.2	31.2	31.5	31.5	31.7	31.7	31.6	31.3	31.2	31.1			
180	31.7	31.7	31.8	32.0	31.9	31.8	31.6	31.6	31.7	31.7	31.9	32.0	32.0	31.8	31.6	31.6			

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 C Interval: 22.5DEG
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