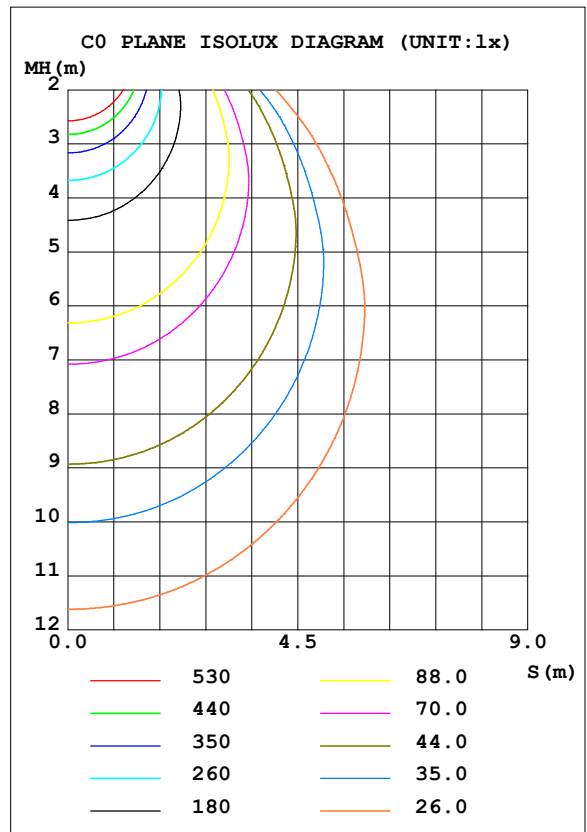
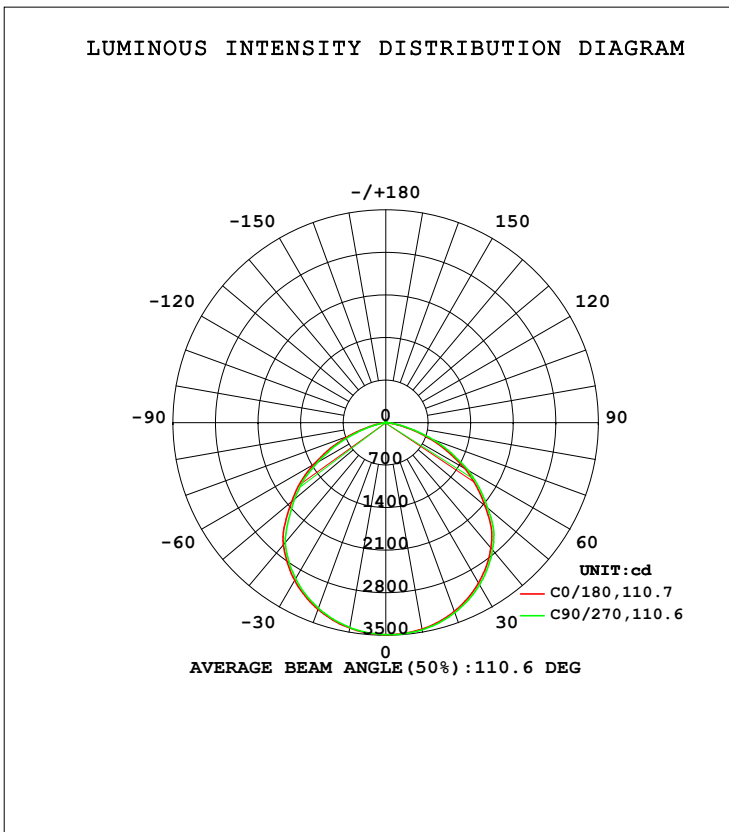


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.15V I:0.3252A P:72.826W PF:0.9732 Freq:50.01Hz Lamp Flux:9490.38x1 lm		
NAME: BLP-SHBL75WA	TYPE:	WEIGHT:3.76Kg
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: 130.32 lm/W			
MODEL		I _{max} (cd)	3490	S/MH (C0/180)	1.28
NOMINAL POWER (W)	75	LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	9490.4	η UP, DN (C0-180)	0.3, 51.6
NOMINAL FLUX (lm)	9490.38	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.3, 47.7
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: 03 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:

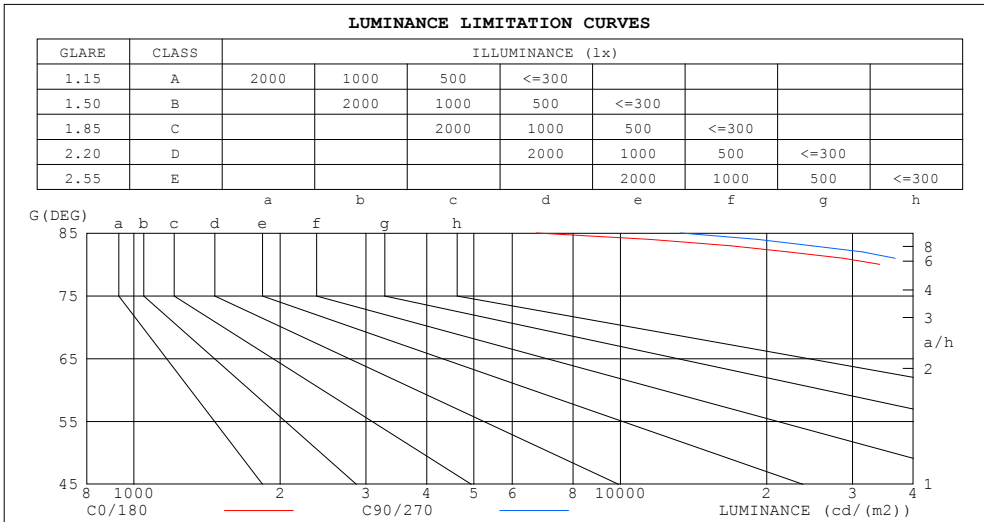
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3449	3458	3460	3448	3431	3423	3421	3432	0- 10	330.7	330.7	3.48,3.48
20	3303	3324	3326	3302	3267	3250	3247	3271	10- 20	953.5	1284	13.5,13.5
30	3052	3081	3085	3049	2998	2972	2966	3001	20- 30	1461	2745	28.9,28.9
40	2691	2729	2734	2688	2622	2583	2576	2625	30- 40	1786	4531	47.7,47.7
50	2132	2193	2190	2114	2024	1966	1959	2024	40- 50	1840	6371	67.1,67.1
60	1496	1556	1564	1485	1362	1296	1282	1364	50- 60	1573	7944	83.7,83.7
70	759.0	829.5	834.6	749.7	644.7	588.5	574.8	646.7	60- 70	1049	8992	94.8,94.8
80	150.9	193.2	196.4	146.6	90.27	65.08	61.01	90.54	70- 80	407.4	9400	99,99
90	1.565	1.901	1.901	1.495	1.535	1.620	1.632	1.508	80- 90	33.01	9433	99.4,99.4
100	3.009	2.809	2.786	3.003	3.190	3.381	3.386	3.147	90-100	2.395	9435	99.4,99.4
110	5.557	5.290	5.274	5.559	5.829	6.059	6.052	5.719	100-110	4.557	9440	99.5,99.5
120	8.519	8.221	8.214	8.505	8.832	9.049	9.038	8.642	110-120	7.058	9447	99.5,99.5
130	11.49	11.19	11.13	11.46	11.84	12.03	11.95	11.58	120-130	9.045	9456	99.6,99.6
140	14.19	13.89	13.78	14.09	14.52	14.67	14.55	14.28	130-140	9.985	9466	99.7,99.7
150	16.20	15.96	15.95	16.20	16.72	16.86	16.72	16.49	140-150	9.608	9475	99.8,99.8
160	17.83	17.69	17.76	17.90	18.30	18.43	18.34	18.10	150-160	7.961	9483	99.9,99.9
170	18.87	18.80	18.86	18.88	19.44	19.55	19.45	19.21	160-170	5.268	9489	100,100
180	19.66	19.81	19.81	19.58	19.73	19.82	19.83	19.62	170-180	1.847	9490	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:03 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:230.15V I:0.3252A P:72.826W PF:0.9732 Freq:50.01Hz Lamp Flux:9490.38x1 lm		
NAME: BLP-SHBL75WA	TYPE:	WEIGHT:3.76Kg
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	6719	13312
80	34137	44120
75	64250	72735
70	87193	95219
65	104006	110008
60	117548	122017
55	124605	127873
50	130314	132957
45	136697	138687

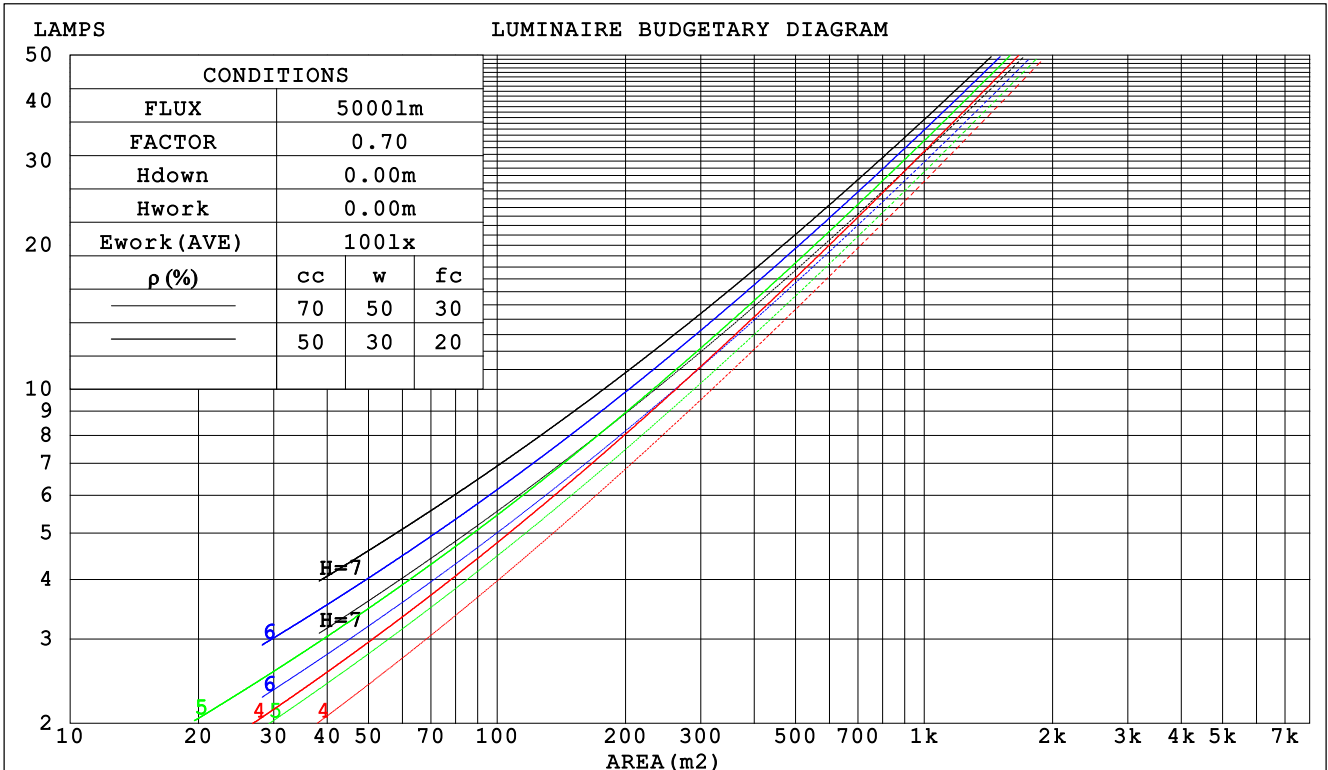
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:03 February 2018

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:230.15V I:0.3252A P:72.826W PF:0.9732 Freq:50.01Hz Lamp Flux:9490.38x1 lm		
NAME: BLP-SHBL75WA	TYPE:	WEIGHT:3.76Kg
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	1.02	.98	1.03	.90	.96	.99	.96	.93	.95	.92	.90	.91	.89	.88	.86
2.0	.93	.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	.64	.61
4.0	.73	.64	.58	.71	.63	.57	.69	.62	.56	.66	.60	.56	.64	.59	.55	.53
5.0	.65	.56	.50	.64	.56	.49	.62	.54	.49	.60	.53	.48	.58	.52	.48	.46
6.0	.58	.50	.43	.57	.49	.43	.56	.48	.43	.54	.47	.42	.52	.47	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.35
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.32
9.0	.44	.36	.31	.44	.36	.31	.43	.35	.31	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.37	.32	.27	.26



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:03 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:230.15V I:0.3252A P:72.826W PF:0.9732 Freq:50.01Hz Lamp Flux:9490.38x1 lm		
NAME: BLP-SHBL75WA	TYPE:	WEIGHT:3.76Kg
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	.277	.158	.050	.270	.154	.049	.257	.147	.047	.244	.141	.045	.233	.135	.044	
2.0	.270	.148	.045	.263	.145	.045	.252	.140	.043	.241	.135	.042	.231	.130	.041	
3.0	.254	.135	.041	.249	.133	.040	.238	.129	.039	.228	.125	.038	.219	.122	.038	
4.0	.237	.123	.036	.233	.122	.036	.223	.118	.035	.215	.115	.035	.207	.112	.034	
5.0	.221	.113	.033	.217	.111	.032	.209	.109	.032	.201	.106	.032	.194	.104	.031	
6.0	.207	.104	.030	.203	.102	.029	.195	.100	.029	.189	.098	.029	.182	.096	.028	
7.0	.193	.096	.027	.190	.095	.027	.183	.093	.027	.177	.091	.026	.171	.089	.026	
8.0	.181	.089	.025	.178	.088	.025	.172	.086	.025	.167	.084	.024	.161	.083	.024	
9.0	.170	.082	.023	.168	.082	.023	.162	.080	.023	.157	.079	.023	.153	.077	.022	
10.0	.161	.077	.021	.158	.076	.021	.153	.075	.021	.149	.074	.021	.144	.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	.142	.156	.138	.122	.107	.095	.084	.062	.055	.049	.020	.018	.016	
2.0	.174	.137	.105	.149	.118	.091	.102	.081	.064	.059	.047	.037	.019	.015	.012	
3.0	.166	.119	.081	.142	.103	.070	.098	.071	.049	.056	.042	.029	.018	.014	.010	
4.0	.159	.105	.065	.136	.091	.056	.094	.064	.040	.054	.037	.023	.017	.012	.008	
5.0	.152	.095	.053	.130	.082	.046	.090	.057	.033	.052	.034	.019	.017	.011	.006	
6.0	.145	.087	.045	.124	.075	.039	.086	.052	.028	.050	.031	.016	.016	.010	.005	
7.0	.138	.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	.027	.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:03 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:230.15V I:0.3252A P:72.826W PF:0.9732 Freq:50.01Hz Lamp Flux:9490.38x1 lm										
NAME: BLP-SHBL75WA					TYPE:			WEIGHT:3.76Kg		
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	29.9	31.4	30.2	31.6	31.8	30.0	31.5	30.3	31.7	31.9
3H	31.0	32.4	31.3	32.6	32.8	31.2	32.6	31.5	32.8	33.0
4H	31.3	32.6	31.6	32.8	33.1	31.5	32.8	31.9	33.1	33.3
6H	31.4	32.5	31.7	32.8	33.1	31.6	32.8	32.0	33.1	33.4
8H	31.3	32.5	31.7	32.8	33.1	31.6	32.8	32.0	33.1	33.4
12H	31.3	32.4	31.6	32.7	33.0	31.6	32.7	31.9	33.0	33.3
4H 2H	30.4	31.7	30.8	32.0	32.2	30.5	31.8	30.9	32.1	32.3
3H	31.7	32.8	32.1	33.1	33.4	31.9	33.0	32.2	33.3	33.6
4H	32.1	33.1	32.5	33.4	33.7	32.3	33.3	32.7	33.6	34.0
6H	32.2	33.1	32.6	33.4	33.8	32.5	33.4	32.9	33.7	34.1
8H	32.2	33.0	32.6	33.4	33.8	32.5	33.3	32.9	33.7	34.1
12H	32.1	32.9	32.6	33.3	33.7	32.4	33.2	32.9	33.6	34.0
8H 4H	32.2	33.0	32.6	33.4	33.8	32.4	33.2	32.8	33.6	34.0
6H	32.4	33.0	32.8	33.5	33.9	32.6	33.3	33.1	33.7	34.2
8H	32.4	33.0	32.8	33.4	33.9	32.7	33.2	33.1	33.7	34.1
12H	32.3	32.8	32.8	33.3	33.8	32.6	33.1	33.1	33.6	34.1
12H 4H	32.2	32.9	32.6	33.3	33.7	32.4	33.1	32.8	33.5	33.9
6H	32.4	32.9	32.8	33.4	33.8	32.6	33.2	33.1	33.6	34.1
8H	32.4	32.9	32.8	33.3	33.8	32.6	33.2	33.1	33.6	34.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.5					+ 0.2 / - 0.5				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 9490 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 7.8$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:03 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:230.15V I:0.3252A P:72.826W PF:0.9732 Freq:50.01Hz Lamp Flux:9490.38x1 lm		
NAME: BLP-SHBL75WA	TYPE:	WEIGHT:3.76Kg
SPEC.:	DIM.: 0.28*0.28	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.16*0.16	Shielding Angle:

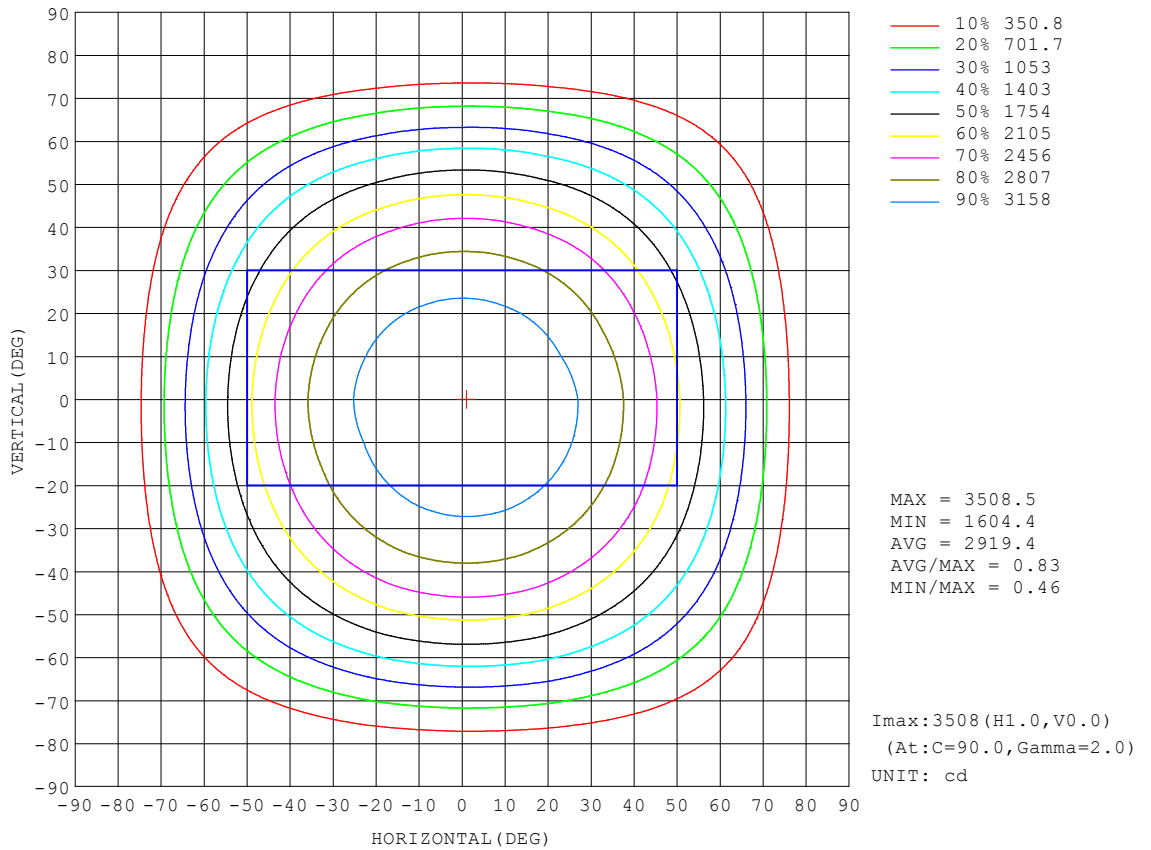
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	59	48	41	58	47	41	57	47	41	34
0.80	69	58	51	68	58	51	67	57	50	44
1.00	78	67	61	77	67	60	75	68	60	53
1.25	85	75	69	84	75	68	81	73	67	60
1.50	90	81	74	89	80	74	86	78	73	66
2.00	97	89	83	95	88	82	92	86	81	73
2.50	101	93	88	99	92	87	95	89	85	77
3.00	104	98	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:25.3DEG
 Operators:DAMIN
 Test Date:03 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:230.15V I:0.3252A P:72.826W PF:0.9732 Freq:50.01Hz Lamp Flux:9490.38x1 lm		
NAME: BLP-SHBL75WA	TYPE:	WEIGHT:3.76Kg
SPEC.:	DIM.: 0.28*0.28	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.16*0.16	Shielding Angle:

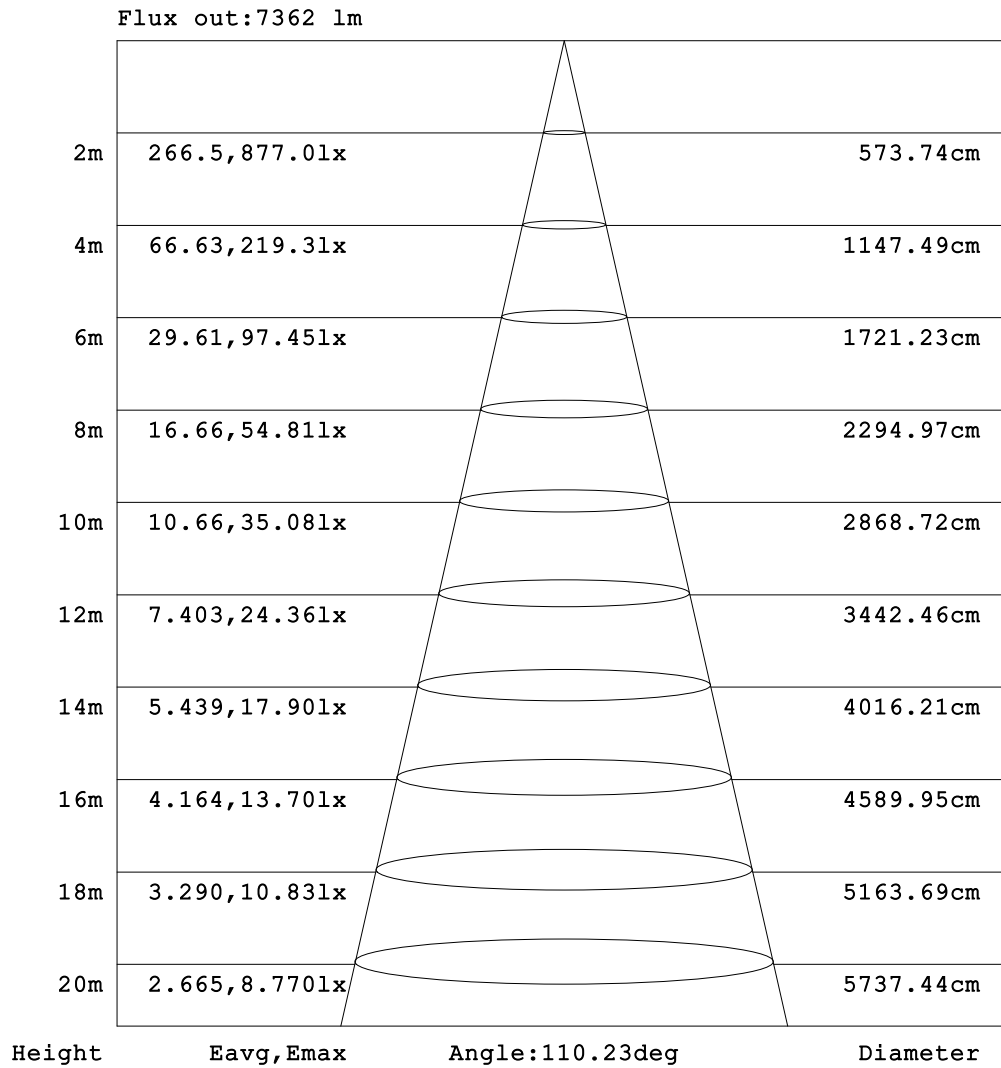


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:03 February 2018

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:230.15V I:0.3252A P:72.826W PF:0.9732 Freq:50.01Hz Lamp Flux:9490.38x1 lm		
NAME: BLP-SHBL75WA	TYPE:	WEIGHT:3.76Kg
SPEC.:	DIM.: 0.28*0.28	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.16*0.16	Shielding Angle:



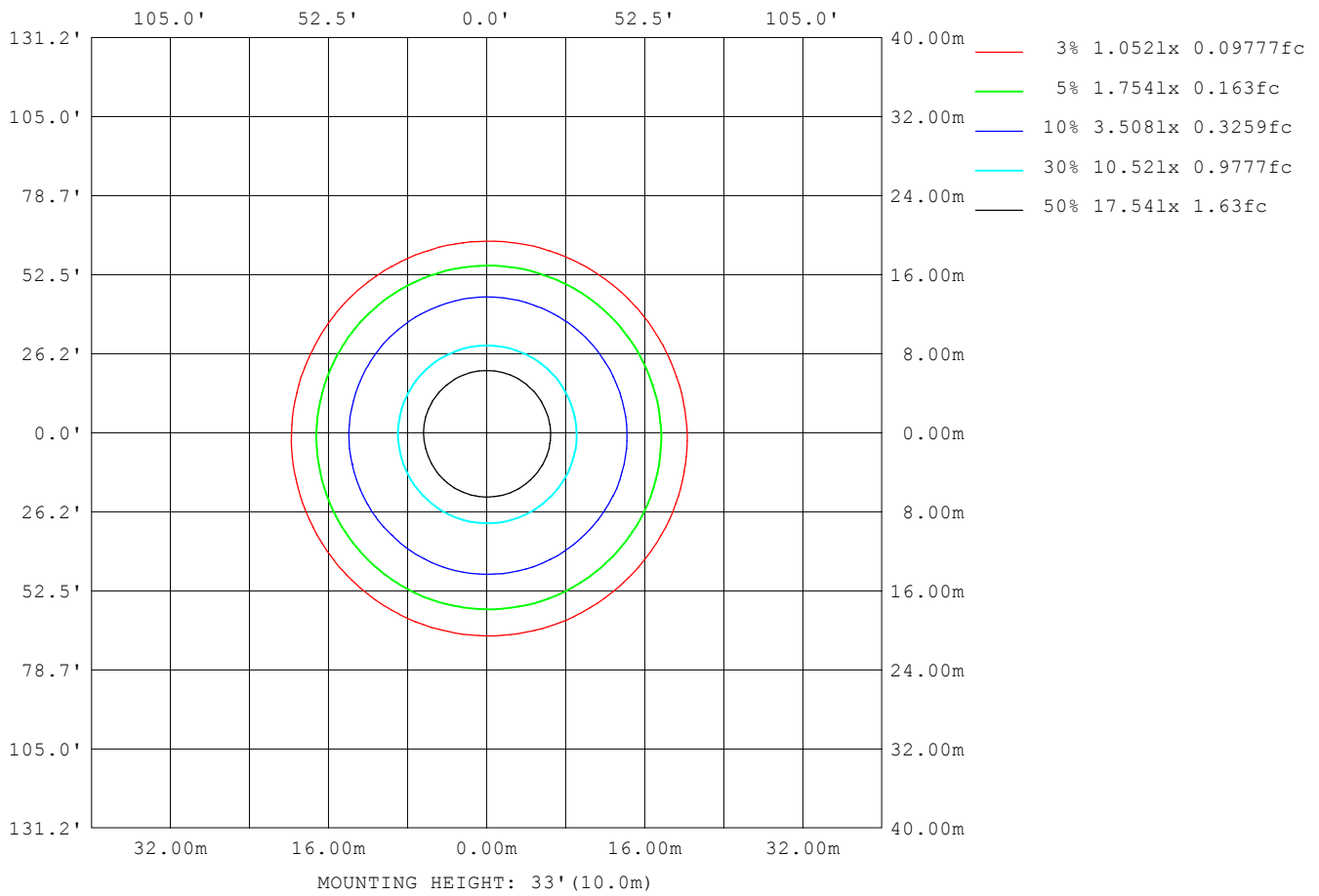
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:03 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:230.15V I:0.3252A P:72.826W PF:0.9732 Freq:50.01Hz Lamp Flux:9490.38x1 lm		
NAME: BLP-SHBL75WA	TYPE:	WEIGHT:3.76Kg
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:03 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:230.15V I:0.3252A P:72.826W PF:0.9732 Freq:50.01Hz Lamp Flux:9490.38x1 lm		
NAME: BLP-SHBL75WA	TYPE:	WEIGHT:3.76Kg
SPEC.:	DIM.: 0.28*0.28	SERIAL No.:
MFR.: Shenzhen Brillloop Lighting	SUR.:0.16*0.16	Shielding Angle:

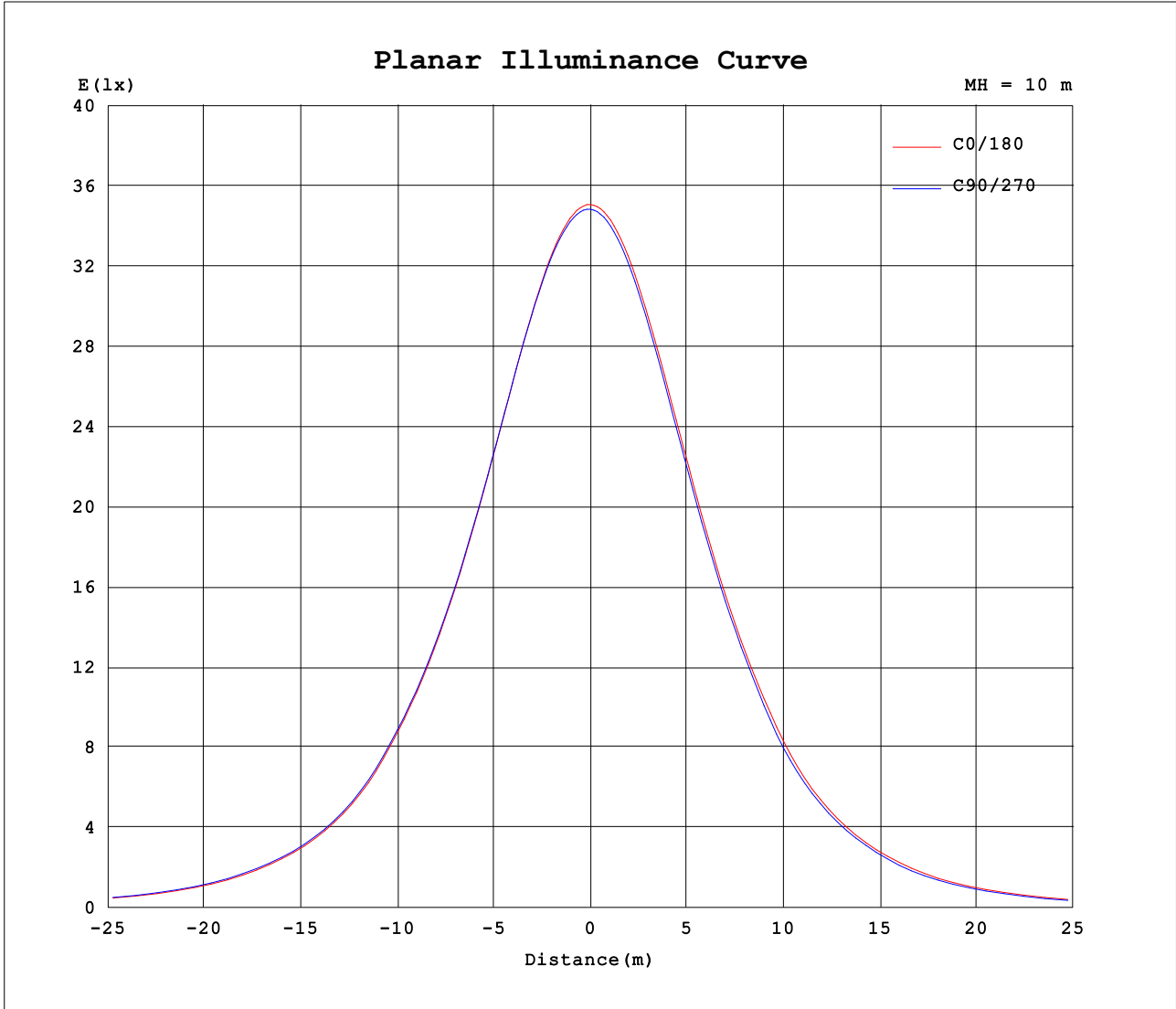
AvgL	cd/m2
L_0~180 (65) av	98159
L_0~180 (75) av	56655
L_0~180 (85) av	4218
L_90~270 (65) av	98192
L_90~270 (75) av	56599
L_90~270 (85) av	7356
L_45 (65) av	98140
L_45 (75) av	56413
L_45 (85) av	5423

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:03 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: 03 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:230.15V I:0.3252A P:72.826W PF:0.9732 Freq:50.01Hz Lamp Flux:9490.38x1 lm		
NAME: BLP-SHBL75WA	TYPE:	WEIGHT:3.76Kg
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	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488	3488			
5	3479	3483	3485	3486	3485	3484	3480	3476	3472	3469	3468	3467	3468	3469	3472	3477			
10	3449	3455	3458	3461	3460	3456	3448	3439	3431	3425	3423	3420	3421	3425	3432	3442			
15	3390	3400	3404	3408	3406	3401	3388	3374	3362	3353	3350	3346	3348	3354	3364	3379			
20	3303	3318	3324	3329	3326	3320	3302	3285	3267	3255	3250	3244	3247	3254	3271	3287			
25	3190	3208	3216	3222	3218	3209	3189	3168	3146	3131	3125	3117	3121	3129	3149	3170			
30	3052	3072	3081	3089	3085	3074	3049	3024	2998	2980	2972	2962	2966	2977	3001	3027			
35	2887	2909	2921	2928	2923	2912	2883	2852	2823	2800	2790	2779	2785	2798	2826	2857			
40	2691	2719	2729	2741	2734	2724	2688	2657	2622	2593	2583	2566	2576	2590	2625	2657			
45	2460	2501	2511	2527	2513	2496	2442	2395	2343	2296	2276	2253	2264	2285	2345	2405			
50	2132	2178	2193	2208	2190	2168	2114	2069	2024	1983	1966	1949	1959	1977	2024	2075			
55	1819	1860	1872	1892	1880	1860	1811	1763	1713	1673	1659	1640	1651	1666	1714	1766			
60	1496	1541	1556	1574	1564	1542	1485	1424	1362	1315	1296	1274	1282	1304	1364	1432			
65	1119	1162	1182	1199	1192	1166	1116	1061	1005	963	943	927	933	954	1006	1060			
70	759	806	830	846	835	805	750	698	645	604	588	574	575	599	647	703			
75	423	459	478	494	482	462	414	371	328	291	276	259	268	282	327	372			
80	151	177	193	200	196	182	147	113	90.3	72.8	65.1	57.5	61.0	70.5	90.5	122			
85	14.9	23.3	27.4	30.7	29.7	23.9	13.7	6.90	3.92	3.37	3.09	2.98	3.09	3.43	4.22	7.35			
90	1.56	1.77	1.90	2.03	1.90	1.73	1.50	1.52	1.54	1.56	1.62	1.62	1.63	1.57	1.51	1.43			
95	2.08	2.02	1.94	1.93	1.91	1.99	2.07	2.23	2.20	2.28	2.35	2.36	2.36	2.27	2.17	2.04			
100	3.01	2.91	2.81	2.79	2.79	2.88	3.00	3.22	3.19	3.30	3.38	3.41	3.39	3.28	3.15	2.95			
105	4.20	4.06	3.95	3.91	3.92	4.02	4.19	4.42	4.42	4.55	4.64	4.67	4.64	4.52	4.34	4.11			
110	5.56	5.41	5.29	5.24	5.27	5.37	5.56	5.81	5.83	5.97	6.06	6.08	6.05	5.91	5.72	5.47			
115	7.02	6.86	6.74	6.69	6.72	6.84	7.01	7.28	7.33	7.46	7.55	7.58	7.53	7.39	7.17	6.89			
120	8.52	8.35	8.22	8.17	8.21	8.33	8.51	8.79	8.83	8.97	9.05	9.07	9.04	8.88	8.64	8.37			
125	10.0	9.86	9.72	9.67	9.71	9.83	10.00	10.3	10.3	10.5	10.6	10.6	10.5	10.4	10.1	9.83			
130	11.5	11.3	11.2	11.1	11.1	11.3	11.5	11.8	11.8	12.0	12.0	12.0	12.0	11.8	11.6	11.3			
135	12.9	12.7	12.6	12.5	12.5	12.6	12.8	13.1	13.2	13.3	13.4	13.3	13.3	13.1	13.0	12.7			
140	14.2	14.0	13.9	13.8	13.8	13.9	14.1	14.4	14.5	14.6	14.7	14.6	14.5	14.4	14.3	14.0			
145	15.3	15.1	15.0	14.9	14.9	15.0	15.2	15.4	15.7	15.8	15.8	15.7	15.7	15.6	15.5	15.2			
150	16.2	16.1	16.0	15.9	15.9	16.1	16.2	16.4	16.7	16.8	16.9	16.8	16.7	16.6	16.5	16.2			
155	17.1	17.0	16.9	16.9	16.9	17.0	17.1	17.3	17.6	17.6	17.7	17.6	17.6	17.5	17.4	17.1			
160	17.8	17.8	17.7	17.8	17.8	17.9	17.9	18.1	18.3	18.4	18.4	18.4	18.3	18.2	18.1	17.9			
165	18.4	18.4	18.3	18.4	18.4	18.5	18.5	18.6	19.0	19.0	19.1	19.0	19.0	18.8	18.7	18.6			
170	18.9	18.9	18.8	18.9	18.9	18.9	18.9	19.0	19.4	19.5	19.5	19.5	19.5	19.3	19.2	19.1			
175	19.3	19.3	19.3	19.4	19.4	19.4	19.3	19.4	19.6	19.6	19.8	19.7	19.6	19.4	19.4	19.3			
180	19.7	19.8	19.8	19.8	19.8	19.7	19.6	19.6	19.7	19.7	19.8	19.8	19.8	19.7	19.6	19.6			

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 C Interval: 22.5DEG
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