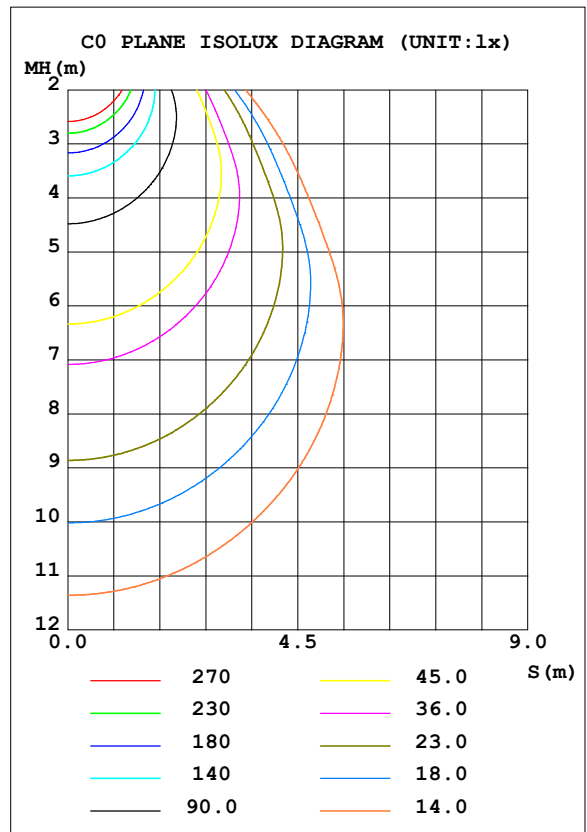
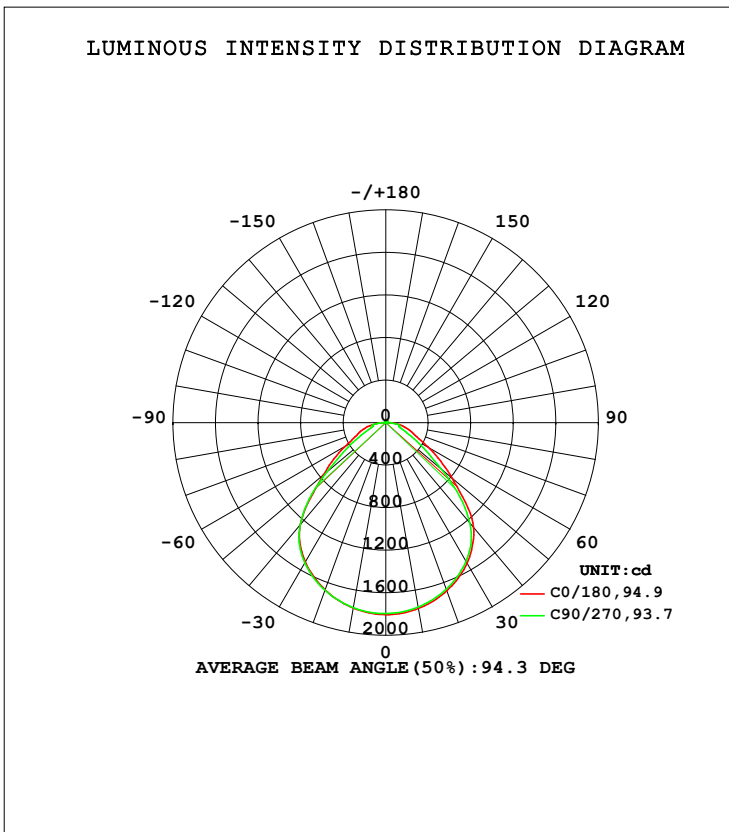


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:220.45V I:0.1952A P:42.051W PF:0.9778 Freq:50.00Hz Lamp Flux:4136.09x1 lm		
NAME: FSP39660-48W 4000K	TYPE:595*595	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN ELECTRICAL AND LIGHTING CO., LTD	SUR.:0.56*0.56	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 98.36 lm/W			
MODEL		I <sub>max</sub> (cd)	1805	S/MH (C0/180)	1.25
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)		TOTAL FLUX (lm)	4136.1	η UP, DN (C0-180)	0.8, 49.1
NOMINAL FLUX (lm)	4136.09	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.6, 49.4
LAMPS INSIDE	1	η up (%)	1.4	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	98.6	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.650m [K=1.0000]  
 Remarks:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

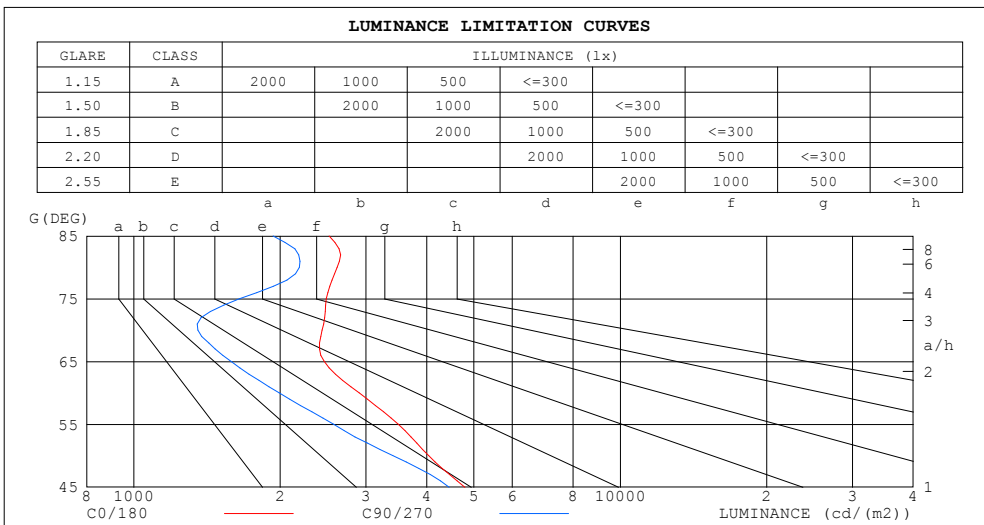
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	1774	1767	1761	1756	1770	1766	1766	1766	0- 10	170.0	170.0	4.11,4.11
20	1681	1673	1666	1658	1672	1672	1676	1676	10- 20	486.9	656.9	15.9,15.9
30	1528	1517	1509	1499	1514	1517	1523	1525	20- 30	738.0	1395	33.7,33.7
40	1283	1255	1228	1223	1250	1246	1251	1274	30- 40	874.8	2270	54.9,54.9
50	813.6	787.9	687.1	742.1	766.6	776.3	723.4	807.4	40- 50	778.5	3048	73.7,73.7
60	455.5	408.6	311.9	379.3	430.4	398.6	331.2	422.0	50- 60	505.2	3553	85.9,85.9
70	261.7	231.1	145.4	209.7	261.2	215.0	150.5	227.9	60- 70	277.6	3831	92.6,92.6
80	142.6	134.0	119.2	128.2	131.6	131.2	123.9	135.5	70- 80	173.4	4004	96.8,96.8
90	8.572	9.455	5.056	3.967	3.931	6.558	6.028	8.309	80- 90	72.17	4077	98.6,98.6
100	5.314	5.376	5.331	5.416	3.315	3.121	2.956	3.030	90-100	3.991	4081	98.7,98.7
110	7.897	7.948	7.977	8.028	5.398	5.091	4.937	4.954	100-110	5.634	4086	98.8,98.8
120	10.57	10.66	10.71	10.76	7.681	7.408	7.271	7.271	110-120	7.718	4094	99,99
130	12.96	12.99	13.12	13.11	9.901	9.599	9.497	9.497	120-130	9.135	4103	99.2,99.2
140	14.89	14.89	14.93	14.98	11.87	11.56	11.44	11.48	130-140	9.516	4113	99.4,99.4
150	16.73	16.72	16.72	16.79	13.93	13.60	13.38	13.46	140-150	8.886	4121	99.6,99.6
160	18.77	18.68	18.77	18.72	16.50	16.10	15.94	15.89	150-160	7.497	4129	99.8,99.8
170	20.20	20.10	20.21	20.13	18.92	18.60	18.62	18.50	160-170	5.207	4134	100,100
180	20.45	20.39	20.40	20.36	20.45	20.38	20.38	20.32	170-180	1.891	4136	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-15

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.650m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:220.45V I:0.1952A P:42.051W PF:0.9778 Freq:50.00Hz Lamp Flux:4136.09x1 lm		
NAME: FSP39660-48W 4000K	TYPE:595*595	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN ELECTRICAL AND LIGHTING CO., LTD	SUR.:0.56*0.56	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2519	1933
80	2619	2190
75	2487	1650
70	2440	1355
65	2465	1586
60	2905	1989
55	3498	2574
50	4036	3408
45	4794	4447

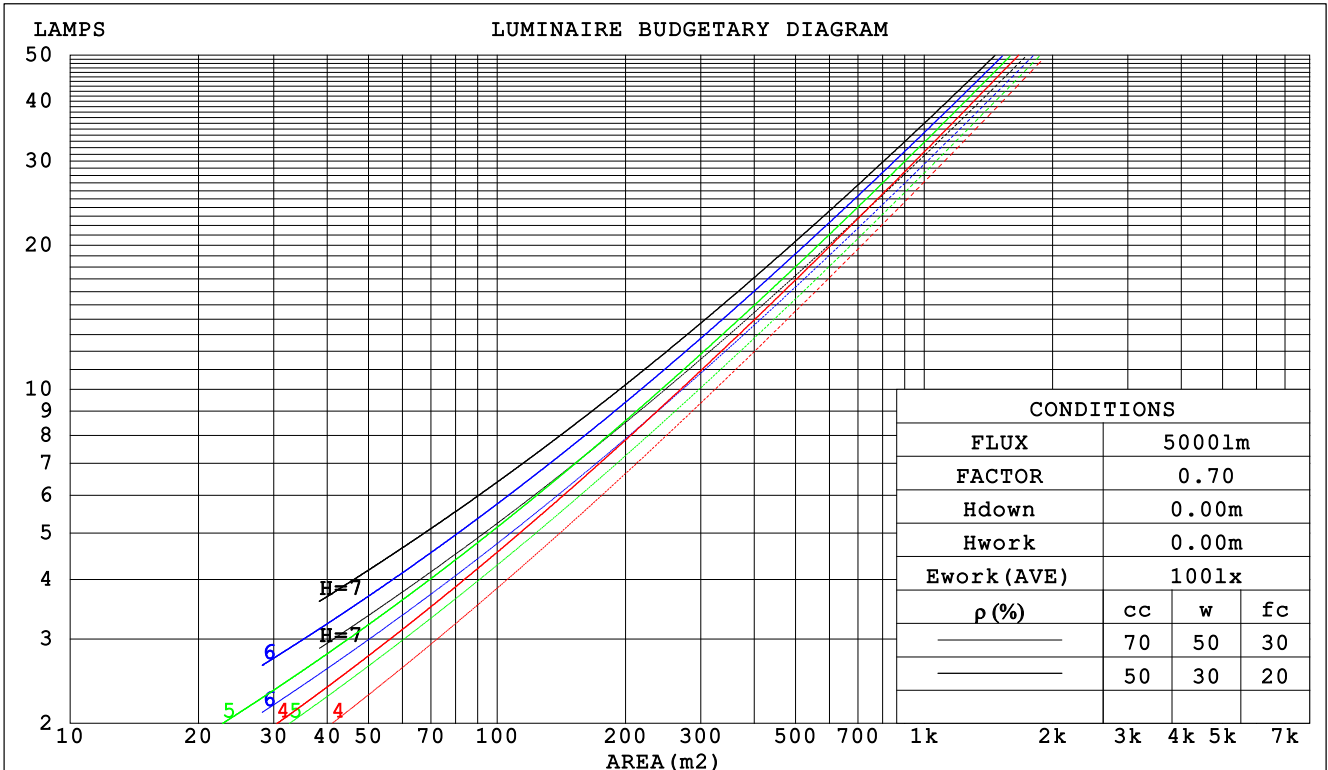
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.650m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.45V I:0.1952A P:42.051W PF:0.9778 Freq:50.00Hz Lamp Flux:4136.09x1 lm		
NAME: FSP39660-48W 4000K	TYPE:595*595	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN ELECTRICAL AND LIGHTING CO., LTD	SUR.:0.56*0.56	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.05	1.02	.98	1.03	.90	.96	.99	.96	.93	.94	.92	.90	.91	.89	.87	.85
2.0	.94	.87	.82	.92	.86	.81	.88	.83	.79	.84	.81	.77	.81	.78	.75	.73
3.0	.83	.76	.70	.82	.75	.70	.79	.73	.68	.76	.71	.67	.73	.69	.66	.63
4.0	.75	.67	.61	.74	.66	.60	.71	.65	.59	.69	.63	.58	.66	.62	.58	.56
5.0	.68	.59	.53	.66	.59	.53	.64	.57	.52	.62	.56	.52	.60	.55	.51	.49
6.0	.61	.53	.47	.60	.53	.47	.59	.52	.46	.57	.51	.46	.55	.50	.45	.43
7.0	.56	.48	.42	.55	.47	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.38	.51	.43	.38	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.40	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.33	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.40	.35	.31	.29



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-15

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.650m [K=1.0000]  
 Remarks:

**WEC AND CCEC**

Test:U:220.45V I:0.1952A P:42.051W PF:0.9778 Freq:50.00Hz Lamp Flux:4136.09x1 lm		
NAME: FSP39660-48W 4000K	TYPE:595*595	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN ELECTRICAL AND LIGHTING CO., LTD	SUR.:0.56*0.56	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	.274	.156	.049	.267	.152	.048	.253	.145	.046	.240	.138	.044	.228	.132	.043	
2.0	.258	.142	.043	.252	.139	.043	.240	.133	.041	.229	.128	.040	.218	.123	.039	
3.0	.241	.128	.038	.236	.126	.038	.225	.122	.037	.215	.118	.036	.206	.114	.035	
4.0	.225	.117	.034	.220	.115	.034	.210	.112	.033	.202	.108	.033	.193	.105	.032	
5.0	.210	.107	.031	.206	.106	.031	.197	.103	.030	.189	.100	.030	.182	.097	.029	
6.0	.197	.099	.028	.193	.097	.028	.185	.095	.028	.178	.093	.027	.171	.090	.027	
7.0	.184	.091	.026	.181	.090	.026	.174	.088	.025	.168	.086	.025	.162	.084	.025	
8.0	.173	.085	.024	.170	.084	.024	.164	.082	.023	.159	.080	.023	.153	.079	.023	
9.0	.164	.079	.022	.161	.078	.022	.155	.077	.022	.150	.075	.022	.145	.074	.021	
10.0	.155	.074	.021	.152	.073	.020	.147	.072	.020	.142	.071	.020	.138	.069	.020	

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	.201	.201	.201	.172	.172	.172	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.189	.167	.148	.162	.144	.128	.111	.099	.088	.064	.057	.051	.020	.018	.017	
2.0	.179	.143	.113	.153	.123	.098	.105	.085	.068	.061	.050	.040	.019	.016	.013	
3.0	.170	.125	.090	.146	.108	.078	.100	.075	.054	.058	.044	.032	.019	.014	.011	
4.0	.162	.112	.073	.139	.096	.064	.096	.067	.045	.055	.039	.026	.018	.013	.009	
5.0	.155	.101	.061	.133	.087	.053	.092	.061	.038	.053	.036	.022	.017	.012	.007	
6.0	.148	.093	.053	.127	.080	.046	.088	.056	.033	.051	.033	.019	.016	.011	.006	
7.0	.141	.086	.046	.122	.074	.041	.084	.052	.029	.049	.031	.017	.016	.010	.006	
8.0	.135	.080	.042	.116	.069	.036	.081	.049	.026	.047	.029	.015	.015	.009	.005	
9.0	.130	.075	.038	.112	.065	.033	.077	.046	.023	.045	.027	.014	.015	.009	.005	
10.0	.124	.071	.035	.107	.061	.030	.074	.043	.022	.043	.025	.013	.014	.008	.004	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.650m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:220.45V I:0.1952A P:42.051W PF:0.9778 Freq:50.00Hz Lamp Flux:4136.09x1 lm		
NAME: FSP39660-48W 4000K	TYPE:595*595	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN ELECTRICAL AND LIGHTING CO., LTD	SUR.:0.56*0.56	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	16.6	17.9	16.8	18.1	18.4	15.9	17.2	16.2	17.5	17.7
3H	17.2	18.5	17.5	18.7	19.0	16.4	17.7	16.7	17.9	18.2
4H	17.6	18.8	17.9	19.1	19.4	16.7	17.9	17.1	18.2	18.5
6H	18.1	19.2	18.4	19.5	19.8	17.2	18.4	17.6	18.6	19.0
8H	18.3	19.4	18.7	19.7	20.0	17.5	18.5	17.8	18.8	19.2
12H	18.5	19.5	18.9	19.8	20.2	17.6	18.6	18.0	19.0	19.3
4H 2H	16.8	17.9	17.1	18.2	18.5	16.2	17.4	16.5	17.7	17.9
3H	17.6	18.6	17.9	18.9	19.2	17.0	18.0	17.4	18.3	18.7
4H	18.0	19.0	18.4	19.3	19.7	17.5	18.5	17.9	18.8	19.2
6H	18.6	19.5	19.1	19.8	20.2	18.3	19.1	18.7	19.5	19.9
8H	19.0	19.8	19.4	20.1	20.6	18.6	19.4	19.0	19.8	20.2
12H	19.2	20.0	19.7	20.4	20.8	18.8	19.5	19.3	19.9	20.4
8H 4H	18.3	19.0	18.7	19.4	19.8	17.8	18.6	18.3	19.0	19.4
6H	19.0	19.7	19.5	20.1	20.6	18.8	19.5	19.3	19.9	20.3
8H	19.5	20.1	20.0	20.5	21.0	19.3	19.9	19.8	20.3	20.8
12H	19.9	20.4	20.4	20.9	21.4	19.6	20.1	20.1	20.6	21.1
12H 4H	18.3	19.0	18.7	19.4	19.8	17.9	18.6	18.3	19.0	19.4
6H	19.1	19.7	19.6	20.2	20.6	18.9	19.5	19.4	19.9	20.4
8H	19.6	20.1	20.1	20.6	21.1	19.5	19.9	19.9	20.4	20.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.5				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.5				
2.0H	+ 0.9 / - 0.9					+ 0.8 / - 0.9				

CIE Pub.117, 4136 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.9)  
 Area: 0.3136 m2

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.650m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:220.45V I:0.1952A P:42.051W PF:0.9778 Freq:50.00Hz Lamp Flux:4136.09x1 lm		
NAME: FSP39660-48W 4000K	TYPE:595*595	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN ELECTRICAL AND LIGHTING CO., LTD	SUR.:0.56*0.56	Shielding Angle:

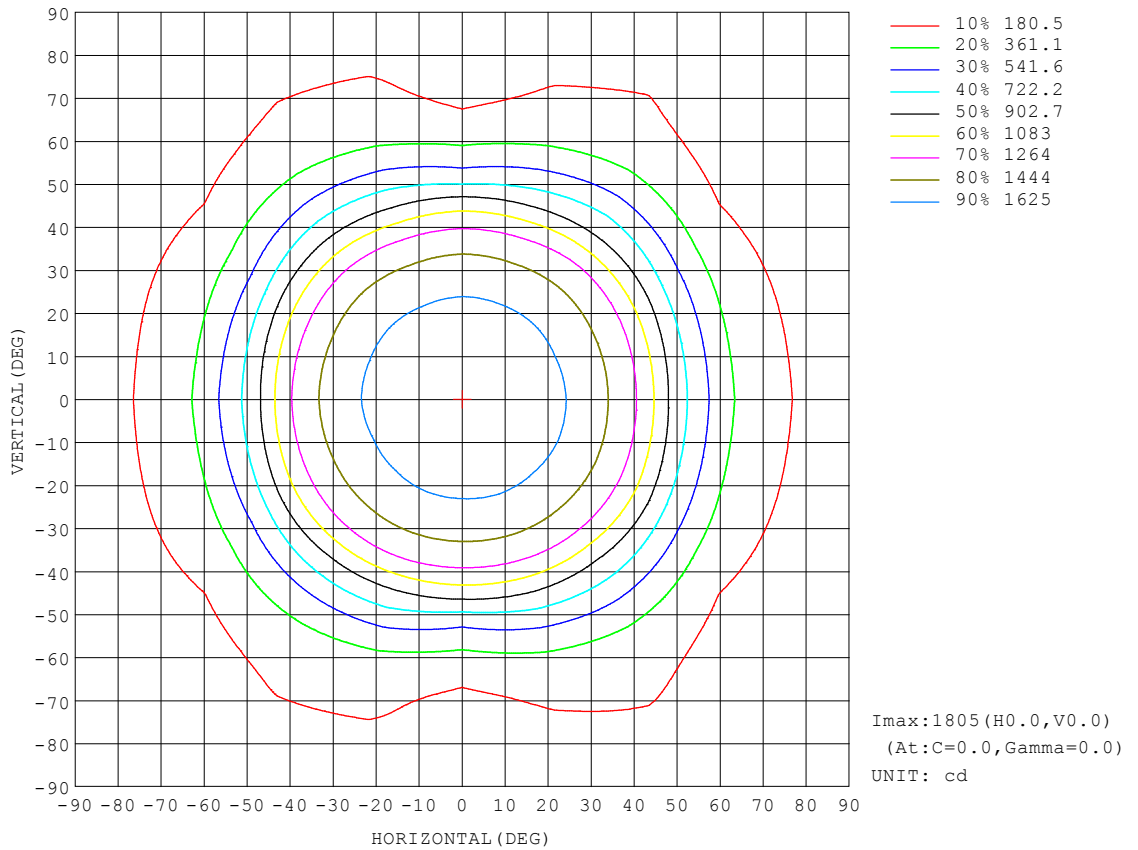
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	63	53	47	63	53	46	61	52	46	40
0.80	73	63	56	72	63	56	71	62	56	50
1.00	81	72	65	80	71	65	78	72	64	58
1.25	88	79	73	87	78	72	84	77	71	65
1.50	92	84	78	91	83	77	88	81	76	69
2.00	98	91	85	97	90	85	93	87	83	76
2.50	102	95	90	99	93	89	96	91	87	79
3.00	104	98	94	102	97	92	98	94	90	82
4.00	108	103	99	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:  
 Test Date:2023-05-15

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.650m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:220.45V I:0.1952A P:42.051W PF:0.9778 Freq:50.00Hz Lamp Flux:4136.09x1 lm		
NAME: FSP39660-48W 4000K	TYPE:595*595	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN ELECTRICAL AND LIGHTING CO., LTD	SUR.:0.56*0.56	Shielding Angle:



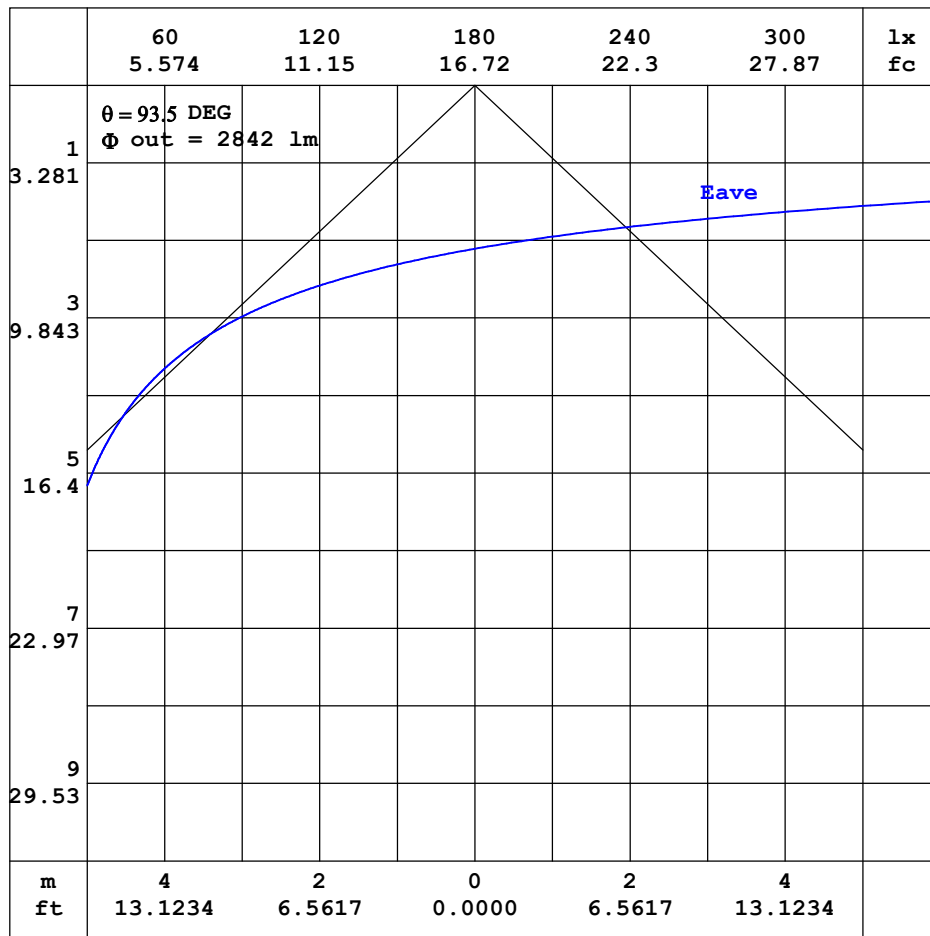
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.650m [K=1.0000]  
 Remarks:



AAI CURVES

Test:U:220.45V I:0.1952A P:42.051W PF:0.9778 Freq:50.00Hz Lamp Flux:4136.09x1 lm		
NAME: FSP39660-48W 4000K	TYPE:595*595	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN ELECTRICAL AND LIGHTING CO., LTD	SUR.:0.56*0.56	Shielding Angle:



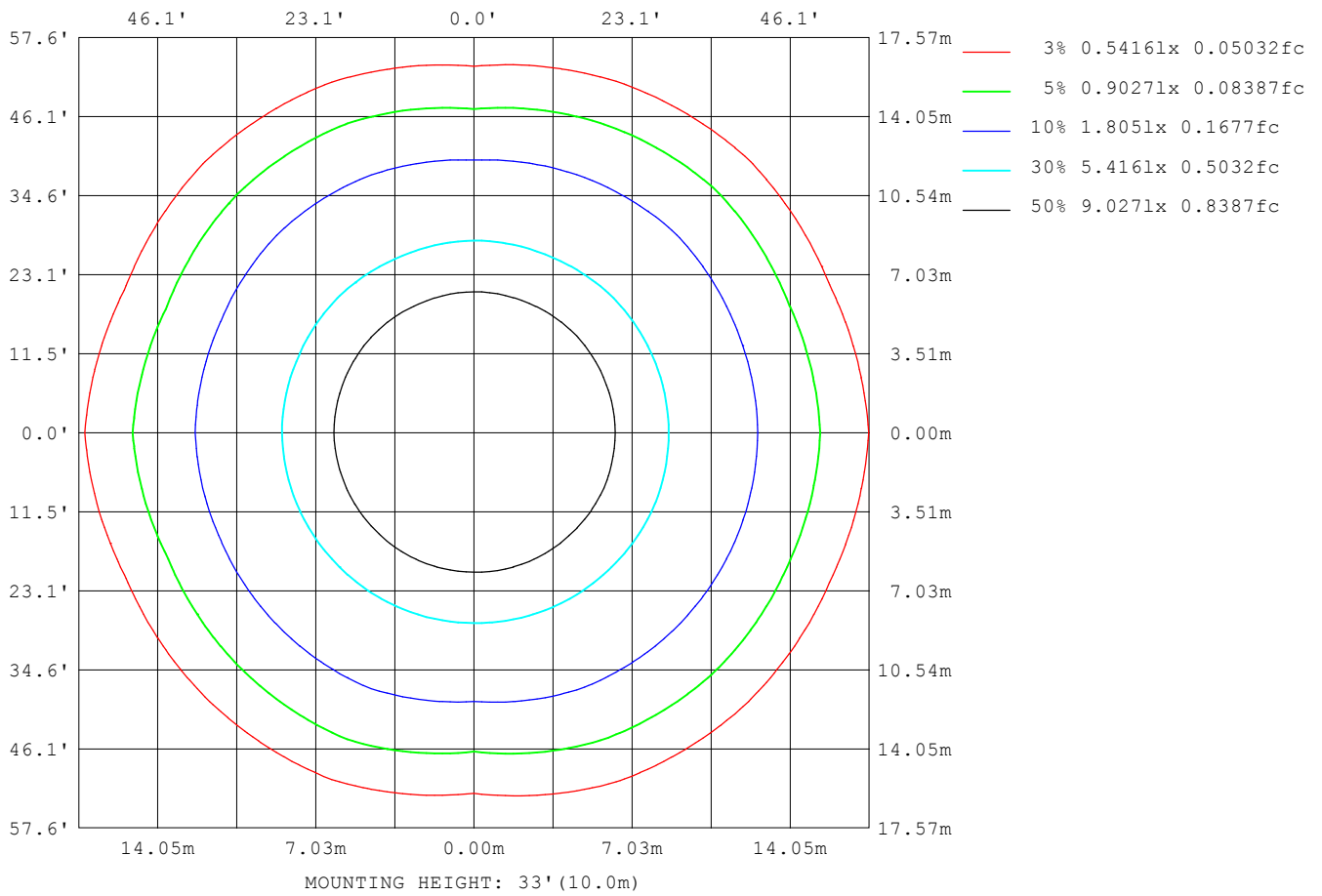
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-15

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.650m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:220.45V I:0.1952A P:42.051W PF:0.9778 Freq:50.00Hz Lamp Flux:4136.09x1 lm		
NAME: FSP39660-48W 4000K	TYPE:595*595	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN ELECTRICAL AND LIGHTING CO., LTD	SUR.:0.56*0.56	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.650m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

Test:U:220.45V I:0.1952A P:42.051W PF:0.9778 Freq:50.00Hz Lamp Flux:4136.09x1 lm		
NAME: FSP39660-48W 4000K	TYPE:595*595	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN ELECTRICAL AND LIGHTING CO., LTD	SUR.:0.56*0.56	Shielding Angle:

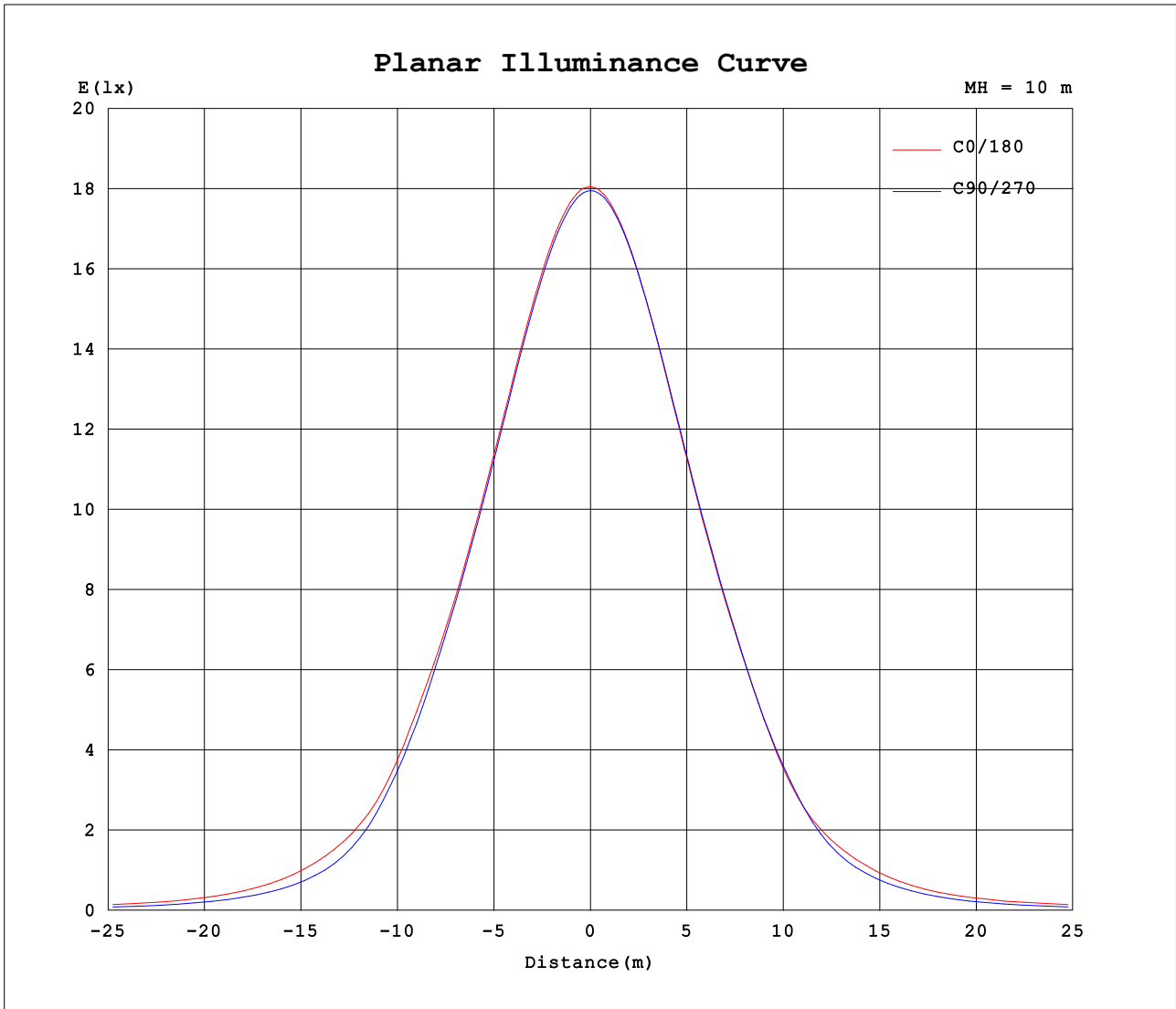
AvgL	cd/m2
L_0~180 (65) av	2435
L_0~180 (75) av	2472
L_0~180 (85) av	2429
L_90~270 (65) av	1617
L_90~270 (75) av	1626
L_90~270 (85) av	2062
L_45 (65) av	2158
L_45 (75) av	2281
L_45 (85) av	2240

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.650m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-05-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:8.650m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.45V I:0.1952A P:42.051W PF:0.9778 Freq:50.00Hz Lamp Flux:4136.09x1 lm		
NAME: FSP39660-48W 4000K	TYPE:595*595	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FOSHAN ELECTRICAL AND LIGHTING CO., LTD	SUR.:0.56*0.56	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	1805	1802	1799	1796	1795	1794	1794	1793	1805	1802	1799	1796	1795	1794	1794	1793			
5	1798	1795	1791	1789	1786	1785	1783	1782	1796	1791	1791	1788	1789	1787	1788	1786			
10	1774	1772	1767	1765	1761	1760	1756	1756	1770	1766	1766	1764	1766	1765	1766	1763			
15	1735	1733	1727	1725	1720	1719	1715	1714	1729	1724	1727	1725	1728	1726	1728	1725			
20	1681	1680	1673	1672	1666	1664	1658	1659	1672	1669	1672	1671	1676	1673	1676	1673			
25	1613	1614	1604	1603	1596	1594	1588	1589	1601	1598	1603	1601	1609	1606	1609	1606			
30	1528	1529	1517	1516	1509	1506	1499	1501	1514	1510	1517	1514	1523	1521	1525	1522			
35	1421	1421	1408	1403	1397	1393	1387	1390	1403	1399	1406	1400	1414	1408	1419	1417			
40	1283	1282	1255	1242	1228	1227	1223	1234	1250	1240	1246	1232	1251	1248	1274	1280			
45	1063	1068	1012	1007	986	972	972	1004	1003	1012	1009	992	1021	1011	1029	1057			
50	814	821	788	763	687	750	742	746	767	759	776	763	723	767	807	813			
55	629	598	592	550	463	546	539	534	597	541	569	559	492	561	617	596			
60	456	415	409	380	312	372	379	379	430	381	399	384	331	387	422	412			
65	327	264	296	270	210	270	271	254	319	258	281	284	218	276	297	266			
70	262	168	231	209	145	220	210	169	261	172	215	229	151	212	228	169			
75	202	115	194	172	134	185	179	125	199	126	180	189	130	175	188	114			
80	143	107	134	137	119	139	128	116	132	116	131	144	124	141	136	108			
85	68.9	71.1	62.1	73.8	52.8	75.5	53.7	66.0	63.9	65.0	61.7	77.0	59.9	77.1	67.4	67.6			
90	8.57	10.5	9.46	9.48	5.06	5.17	3.97	4.85	3.93	4.44	6.56	6.76	6.03	6.15	8.31	6.42			
95	4.25	4.28	4.31	4.19	4.24	4.24	4.33	4.45	2.52	2.50	2.39	2.28	2.24	2.24	2.32	2.36			
100	5.31	5.34	5.38	5.24	5.33	5.31	5.42	5.55	3.31	3.29	3.12	3.00	2.96	2.92	3.03	3.10			
105	6.55	6.57	6.61	6.46	6.59	6.55	6.67	6.82	4.29	4.27	4.03	3.91	3.87	3.81	3.92	4.03			
110	7.90	7.93	7.95	7.82	7.98	7.93	8.03	8.20	5.40	5.39	5.09	5.00	4.94	4.87	4.95	5.11			
115	9.28	9.29	9.33	9.22	9.37	9.32	9.42	9.56	6.56	6.54	6.24	6.15	6.10	6.04	6.12	6.26			
120	10.6	10.6	10.7	10.6	10.7	10.7	10.8	10.8	7.68	7.65	7.41	7.30	7.27	7.20	7.27	7.38			
125	11.8	11.8	11.9	11.8	12.0	11.9	12.0	12.1	8.81	8.74	8.55	8.42	8.41	8.32	8.42	8.48			
130	13.0	13.0	13.0	13.0	13.1	13.1	13.1	13.2	9.90	9.83	9.60	9.50	9.50	9.43	9.50	9.58			
135	14.0	14.0	14.0	14.0	14.1	14.1	14.1	14.1	10.9	10.8	10.6	10.5	10.5	10.4	10.5	10.6			
140	14.9	14.9	14.9	14.9	14.9	15.0	15.0	15.0	11.9	11.7	11.6	11.5	11.4	11.4	11.5	11.6			
145	15.8	15.8	15.8	15.8	15.8	15.9	15.9	15.9	12.9	12.7	12.6	12.5	12.4	12.3	12.5	12.5			
150	16.7	16.7	16.7	16.7	16.7	16.8	16.8	16.8	13.9	13.7	13.6	13.5	13.4	13.3	13.5	13.6			
155	17.7	17.8	17.7	17.7	17.7	17.8	17.8	17.8	15.2	14.9	14.8	14.7	14.6	14.5	14.6	14.7			
160	18.8	18.8	18.7	18.7	18.8	18.8	18.7	18.9	16.5	16.3	16.1	16.1	15.9	15.8	15.9	16.1			
165	19.7	19.6	19.5	19.6	19.7	19.6	19.5	19.7	17.8	17.6	17.4	17.4	17.4	17.2	17.2	17.3			
170	20.2	20.2	20.1	20.2	20.2	20.1	20.1	20.3	18.9	18.8	18.6	18.5	18.6	18.5	18.5	18.5			
175	20.5	20.4	20.4	20.3	20.5	20.3	20.4	20.4	19.9	19.7	19.7	19.5	19.7	19.5	19.6	19.5			
180	20.5	20.4	20.4	20.2	20.4	20.2	20.4	20.2	20.5	20.3	20.4	20.2	20.4	20.2	20.3	20.2			

C Range: 0 - 360DEG  
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