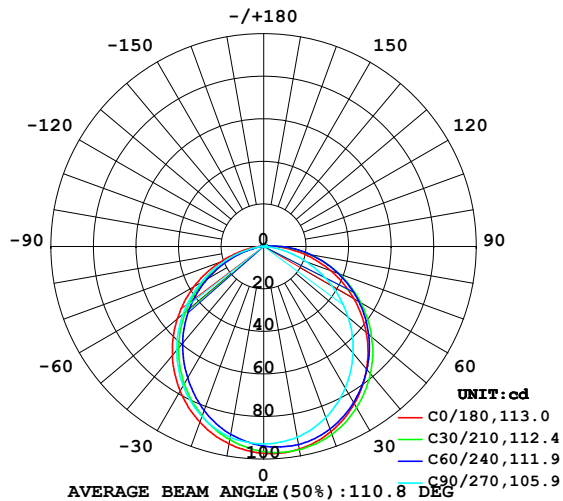


LUMINAIRE PHOTOMETRIC TEST REPORT

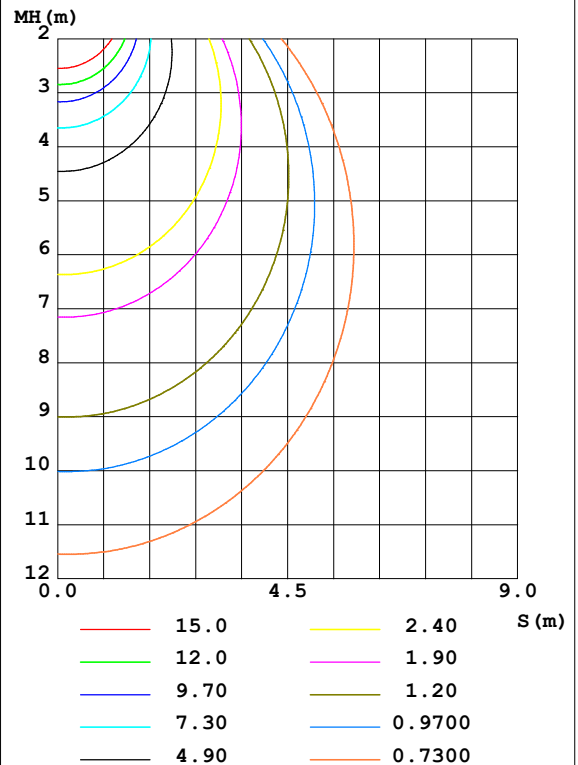
Test:U:48.00V I:0.2350A P:11.28W PF:1.000 Freq:50.00Hz Lamp Flux:277.768x1 lm		
NAME: SF15-48V-5050-60-4000-80	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21*11.5MM	SERIAL No.:2021122214
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 24.62 lm/W			
MODEL	5050	I _{max} (cd)	97.46	S/MH (C0/180)	1.21
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	1.22
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	277.77	η UP, DN (C0-180)	1.1, 48.1
NOMINAL FLUX (lm)	277.768	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 49.8
LAMPS INSIDE	1	η up (%)	2.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	48	η down (%)	97.8	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LPC
 Test Date: 2021-12-22

γ Range: 0 - 120DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 9.200m [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	96.72	95.75	91.10	87.09	94.22	90.97	91.01	94.87	0- 10	8.917	8.917	3.21,3.21
20	92.62	92.66	85.49	78.26	87.90	83.38	85.02	93.17	10- 20	25.47	34.39	12.4,12.4
30	85.34	86.06	76.78	67.18	78.56	73.14	75.75	87.97	20- 30	38.38	72.77	26.2,26.2
40	75.31	76.79	65.34	53.99	66.84	60.84	63.67	80.31	30- 40	46.04	118.8	42.8,42.8
50	62.93	65.39	51.93	39.53	53.06	46.78	49.56	70.50	40- 50	47.64	166.4	59.9,59.9
60	48.88	52.15	37.03	24.27	37.86	31.44	34.16	58.21	50- 60	43.01	209.5	75.4,75.4
70	33.64	37.54	21.45	10.22	22.02	15.91	18.71	44.25	60- 70	33.03	242.5	87.3,87.3
80	18.15	22.28	7.230	2.302	8.192	3.928	5.041	29.16	70- 80	20.16	262.6	94.6,94.6
90	5.703	8.113	0.8896	1.653	1.551	1.171	0.4825	14.11	80- 90	9.101	271.7	97.8,97.8
100	1.449	1.691	1.041	1.639	1.151	1.146	0.5978	3.379	90-100	3.232	275.0	99,99
110	1.322	1.435	1.186	1.631	1.176	1.181	0.7941	1.056	100-110	1.449	276.4	99.5,99.5
120	1.412	1.473	1.277	1.714	1.181	1.277	0.8544	0.9524	110-120	1.277	277.7	100,100
130	0	0	0	0	0	0	0	0	120-130	0.0612	277.8	100,100
140	0	0	0	0	0	0	0	0	130-140	0	277.8	100,100
150	0	0	0	0	0	0	0	0	140-150	0	277.8	100,100
160	0	0	0	0	0	0	0	0	150-160	0	277.8	100,100
170	0	0	0	0	0	0	0	0	160-170	0	277.8	100,100
180	0	0	0	0	0	0	0	0	170-180	0	277.8	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 142.82 lm

%lum = 51.4%

%lamp = 51.4%

Conical surface Flux(120deg): 209.46 lm

%lum = 75.4%

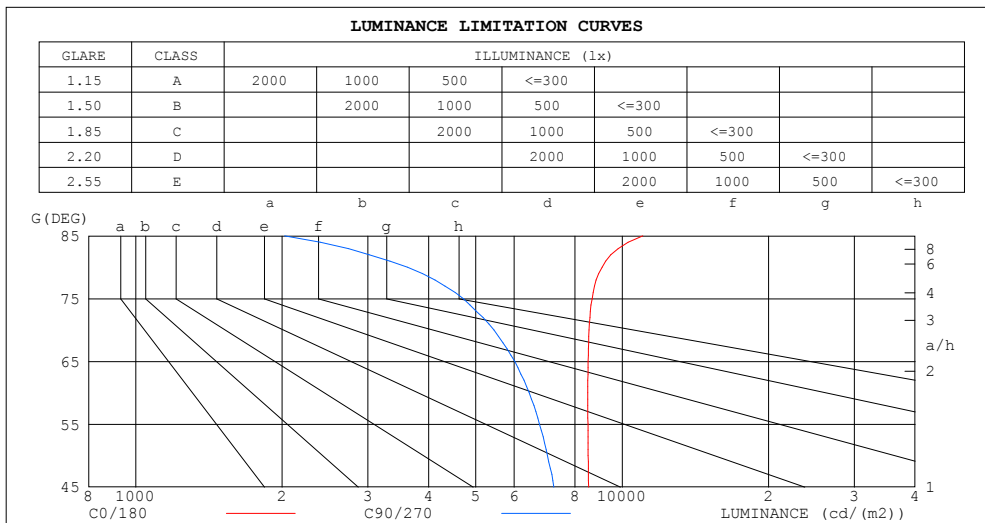
%lamp = 75.4%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LPC
 Test Date:2021-12-22

γ Range: 0 - 120DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.200m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:48.00V I:0.2350A P:11.28W PF:1.000 Freq:50.00Hz Lamp Flux:277.768x1 lm		
NAME: SF15-48V-5050-60-4000-80	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21*11.5MM	SERIAL No.:2021122214
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:



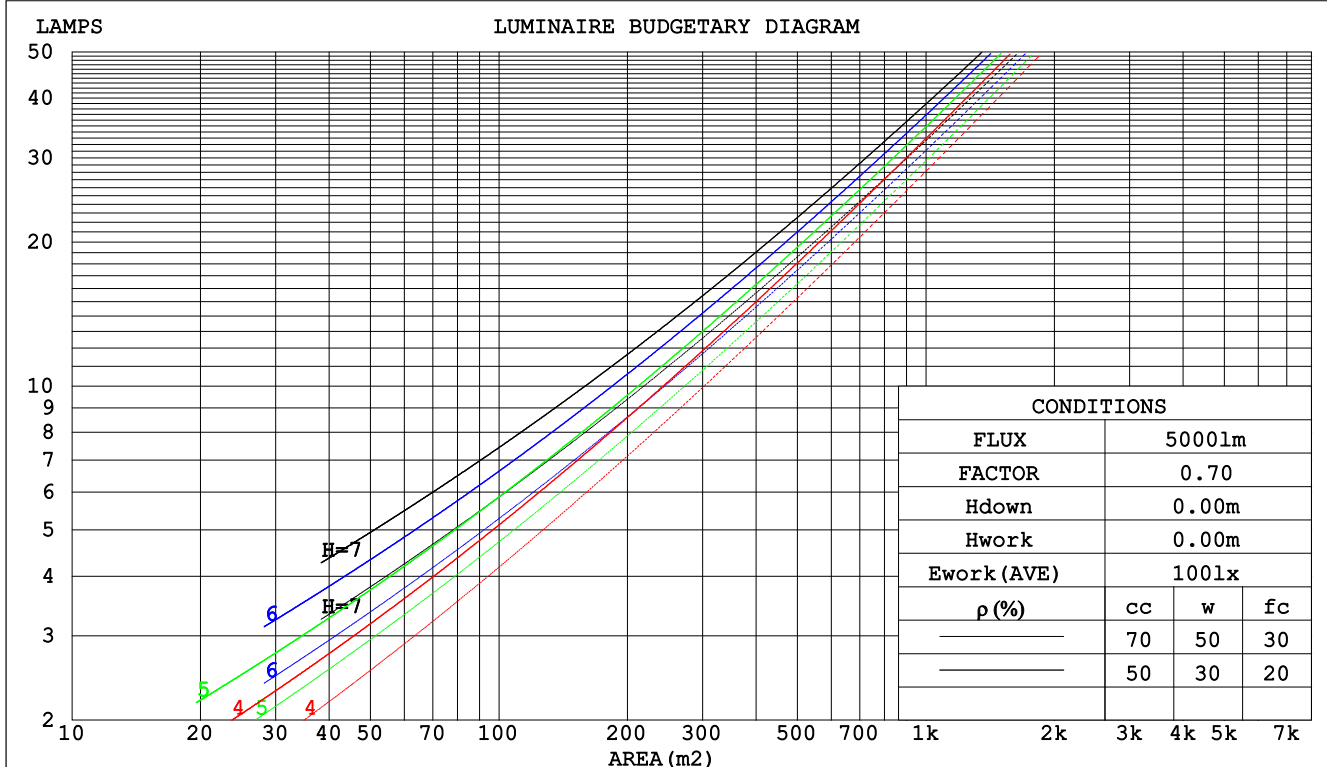
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LPC
Test Date:2021-12-22

γ Range: 0 - 120DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:48.00V I:0.2350A P:11.28W PF:1.000 Freq:50.00Hz Lamp Flux:277.768x1 lm		
NAME: SF15-48V-5050-60-4000-80	TYPE:硅胶	WEIGHT:
SPEC.:	DIM.: 21*11.5MM	SERIAL No.:2021122214
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	1.00	1.00	1.00	.98
1.0	1.03	.98	.94	1.00	.96	.92	.95	.92	.89	.91	.88	.86	.87	.85	.83	.81
2.0	.89	.82	.76	.87	.81	.75	.83	.78	.73	.79	.75	.71	.76	.72	.69	.67
3.0	.78	.70	.63	.76	.69	.62	.73	.66	.61	.70	.64	.60	.67	.62	.58	.56
4.0	.69	.60	.53	.68	.59	.53	.65	.58	.52	.62	.56	.51	.60	.54	.50	.48
5.0	.62	.53	.46	.61	.52	.46	.58	.51	.45	.56	.49	.44	.54	.48	.43	.41
6.0	.56	.47	.40	.55	.46	.40	.52	.45	.39	.51	.44	.39	.49	.43	.38	.36
7.0	.50	.42	.35	.49	.41	.35	.48	.40	.35	.46	.39	.34	.45	.38	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.30	.28
9.0	.42	.34	.28	.41	.34	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LPC
 Test Date:2021-12-22

γ Range: 0 - 120DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.200m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:48.00V I:0.2350A P:11.28W PF:1.000 Freq:50.00Hz Lamp Flux:277.768x1 lm		
NAME: SF15-48V-5050-60-4000-80	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21*11.5MM	SERIAL No.:2021122214
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.325	.185	.059	.317	.181	.057	.303	.174	.055	.289	.167	.054	.277	.160	.052		
2.0	.299	.164	.050	.292	.161	.050	.279	.155	.048	.267	.150	.047	.256	.145	.046		
3.0	.274	.146	.044	.268	.144	.043	.257	.139	.042	.246	.135	.041	.236	.131	.040		
4.0	.252	.131	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.218	.118	.036		
5.0	.232	.118	.034	.227	.117	.034	.218	.114	.033	.210	.111	.033	.202	.108	.032		
6.0	.215	.108	.031	.210	.106	.031	.202	.104	.030	.195	.101	.030	.188	.099	.029		
7.0	.200	.099	.028	.196	.098	.028	.188	.095	.027	.182	.093	.027	.175	.091	.027		
8.0	.186	.091	.026	.183	.090	.025	.176	.088	.025	.170	.086	.025	.164	.084	.025		
9.0	.174	.084	.024	.171	.083	.023	.165	.082	.023	.160	.080	.023	.154	.078	.023		
10.0	.164	.079	.022	.161	.078	.022	.156	.076	.021	.151	.075	.021	.146	.073	.021		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.207	.207	.207	.177	.177	.177	.121	.121	.121	.069	.069	.069	.022	.022	.022	
1.0	.198	.173	.150	.169	.148	.129	.116	.102	.089	.067	.059	.052	.021	.019	.017	
2.0	.190	.149	.114	.163	.128	.098	.112	.089	.069	.064	.051	.040	.021	.017	.013	
3.0	.182	.131	.091	.156	.113	.078	.107	.079	.055	.062	.046	.032	.020	.015	.011	
4.0	.174	.118	.075	.150	.102	.065	.103	.071	.046	.060	.042	.027	.019	.014	.009	
5.0	.167	.108	.064	.143	.093	.056	.099	.065	.039	.057	.038	.023	.018	.012	.008	
6.0	.160	.099	.056	.137	.086	.049	.095	.060	.035	.055	.035	.021	.018	.012	.007	
7.0	.153	.092	.050	.131	.080	.044	.091	.056	.031	.053	.033	.018	.017	.011	.006	
8.0	.146	.087	.046	.126	.075	.040	.087	.053	.028	.051	.031	.017	.016	.010	.006	
9.0	.140	.082	.042	.121	.071	.037	.084	.050	.026	.049	.029	.016	.016	.010	.005	
10.0	.134	.077	.040	.116	.067	.035	.080	.047	.025	.047	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LPC
Test Date:2021-12-22

γ Range: 0 - 120DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:48.00V I:0.2350A P:11.28W PF:1.000 Freq:50.00Hz Lamp Flux:277.768x1 lm										
NAME: SF15-48V-5050-60-4000-80					TYPE:硅胶			WEIGHT:		
SPEC.:					DIM.: 21*11.5MM			SERIAL No.:2021122214		
MFR.: OLYMPIA					SUR.:1*0.0115			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	25.4	26.9	25.7	27.2	27.4	24.7	26.2	25.0	26.4	26.7
3H	27.2	28.6	27.5	28.9	29.2	26.1	27.5	26.5	27.8	28.1
4H	28.0	29.4	28.4	29.6	30.0	26.7	28.0	27.0	28.3	28.6
6H	28.7	30.0	29.1	30.3	30.6	27.0	28.2	27.4	28.6	28.9
8H	29.0	30.2	29.4	30.6	30.9	27.1	28.3	27.4	28.6	28.9
12H	29.3	30.5	29.7	30.8	31.2	27.1	28.2	27.5	28.6	28.9
4H 2H	26.2	27.5	26.5	27.8	28.1	25.7	27.0	26.0	27.3	27.6
3H	28.2	29.4	28.6	29.7	30.1	27.5	28.6	27.9	29.0	29.3
4H	29.2	30.3	29.6	30.6	31.0	28.3	29.3	28.7	29.7	30.1
6H	30.1	31.0	30.5	31.4	31.8	28.8	29.7	29.2	30.1	30.5
8H	30.5	31.4	30.9	31.8	32.2	28.9	29.8	29.4	30.2	30.7
12H	30.8	31.6	31.3	32.1	32.5	29.0	29.8	29.5	30.3	30.7
8H 4H	29.7	30.6	30.1	31.0	31.4	28.9	29.8	29.3	30.2	30.6
6H	30.8	31.5	31.3	32.0	32.5	29.8	30.6	30.3	31.0	31.5
8H	31.4	32.0	31.8	32.5	33.0	30.2	30.8	30.7	31.3	31.8
12H	31.9	32.4	32.4	32.9	33.5	30.4	31.0	30.9	31.5	32.0
12H 4H	29.7	30.5	30.2	31.0	31.4	29.0	29.8	29.5	30.2	30.7
6H	31.0	31.6	31.5	32.1	32.6	30.1	30.7	30.5	31.2	31.7
8H	31.6	32.2	32.1	32.7	33.2	30.6	31.1	31.1	31.6	32.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.3 / - 0.4				
2.0H	+ 0.2 / - 0.4					+ 0.3 / - 0.6				

CIE Pub.117, 277.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -4.5)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LPC
Test Date:2021-12-22

γ Range: 0 - 120DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:48.00V I:0.2350A P:11.28W PF:1.000 Freq:50.00Hz Lamp Flux:277.768x1 lm		
NAME: SF15-48V-5050-60-4000-80	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21*11.5MM	SERIAL No.:2021122214
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

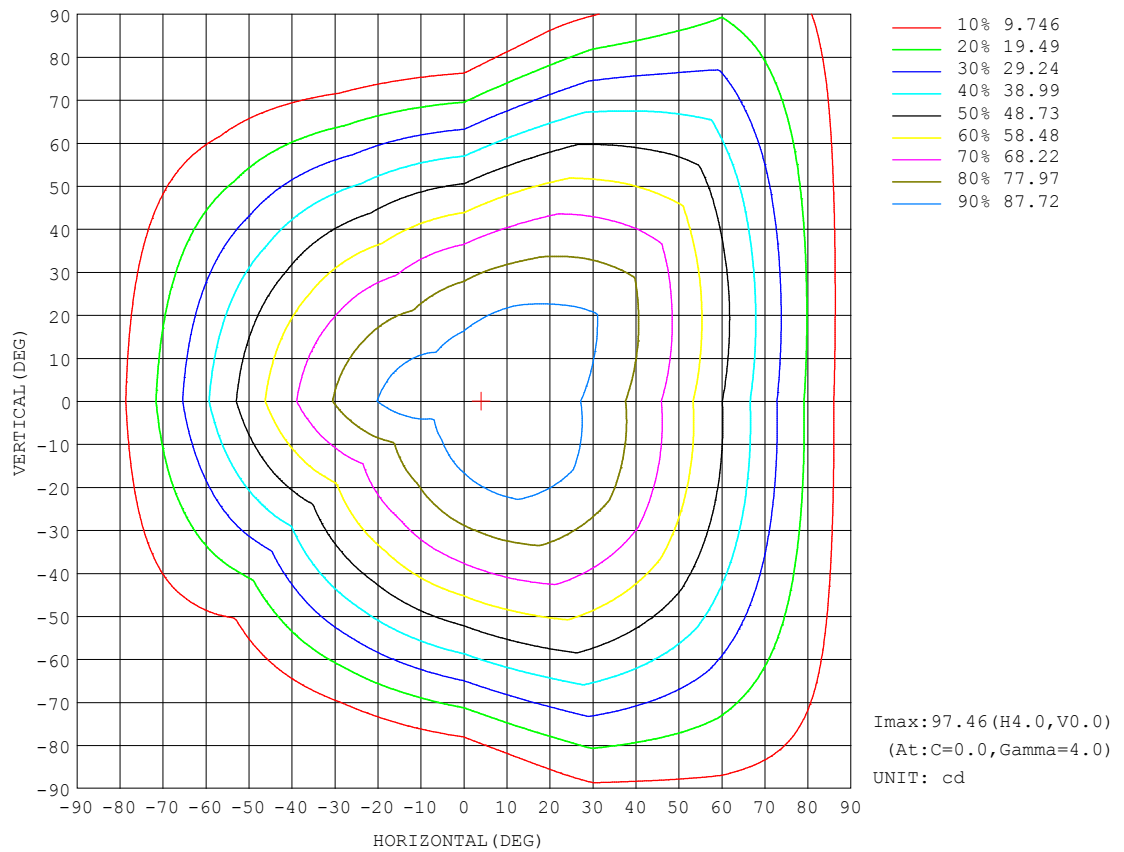
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	56	44	37	54	44	37	31
0.80	66	54	47	65	54	47	63	53	46	39
1.00	75	63	56	73	63	55	71	64	55	48
1.25	82	71	63	80	70	63	77	68	62	55
1.50	87	76	69	85	75	68	82	73	67	59
2.00	93	84	78	91	83	77	88	81	75	67
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	93	88	98	92	86	94	89	84	75
4.00	105	99	94	102	97	92	98	93	89	80
5.00	107	102	98	105	100	96	100	96	93	83
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LPC
Test Date:2021-12-22

γ Range: 0 - 120DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:48.00V I:0.2350A P:11.28W PF:1.000 Freq:50.00Hz Lamp Flux:277.768x1 lm		
NAME: SF15-48V-5050-60-4000-80	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21*11.5MM	SERIAL No.:2021122214
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

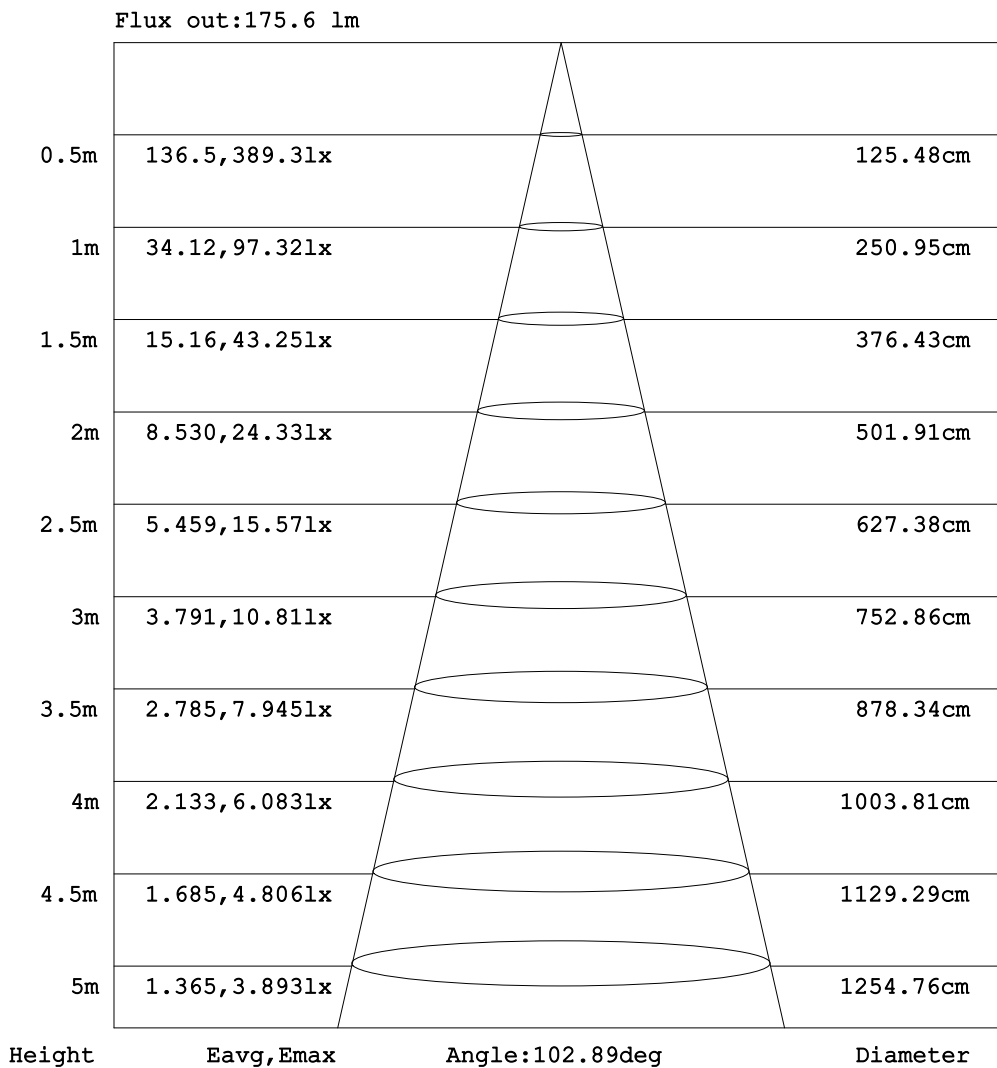


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LPC
Test Date: 2021-12-22

γ Range: 0 - 120DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 9.200m [K=1.0000]
Remarks:

AAI Figure

Test:U:48.00V I:0.2350A P:11.28W PF:1.000 Freq:50.00Hz Lamp Flux:277.768x1 lm		
NAME: SF15-48V-5050-60-4000-80	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21*11.5MM	SERIAL No.:2021122214
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:



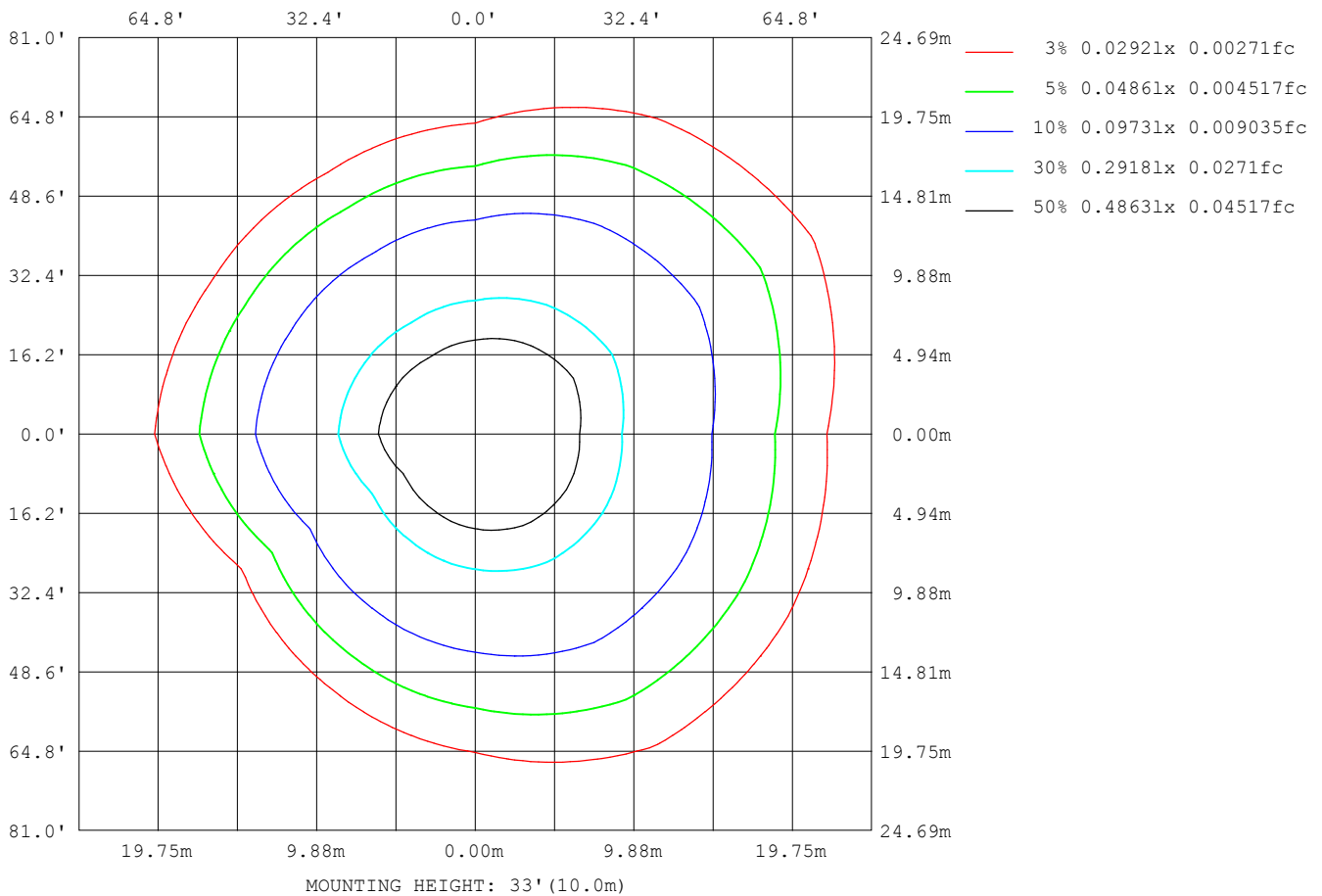
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LPC
Test Date:2021-12-22

γ Range: 0 - 120DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:48.00V I:0.2350A P:11.28W PF:1.000 Freq:50.00Hz Lamp Flux:277.768x1 lm		
NAME: SF15-48V-5050-60-4000-80	TYPE: 硅胶	WEIGHT:
SPEC.:	DIM.: 21*11.5MM	SERIAL No.:2021122214
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LPC
Test Date:2021-12-22

γ Range: 0 - 120DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:9.200m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:48.00V I:0.2350A P:11.28W PF:1.000 Freq:50.00Hz Lamp Flux:277.768x1 lm		
NAME: SF15-48V-5050-60-4000-80	TYPE:硅胶	WEIGHT:
SPEC.:	DIM.: 21*11.5MM	SERIAL No.:2021122214
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

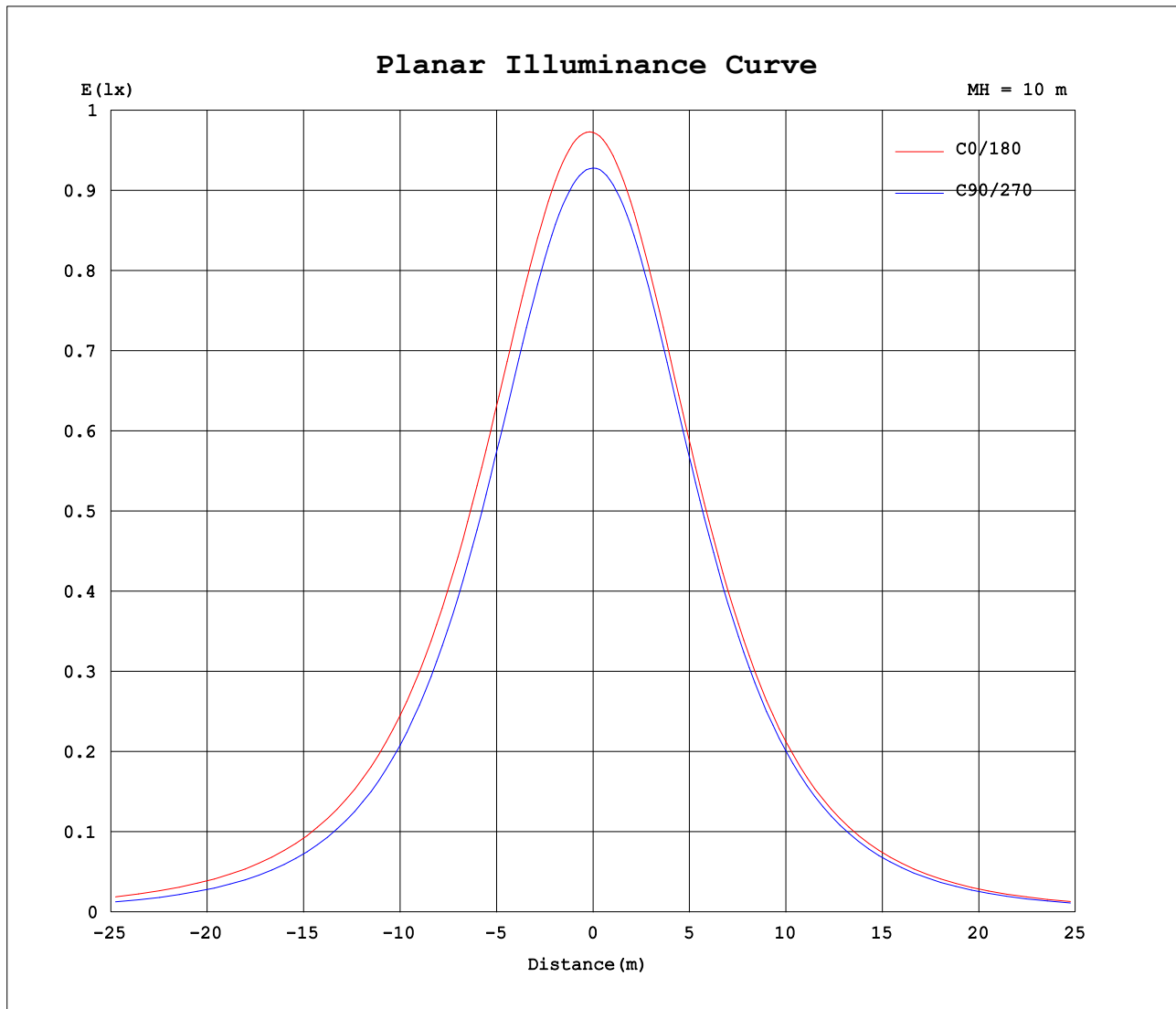
AvgL	cd/m2
L_0~180 (65) av	7332
L_0~180 (75) av	6772
L_0~180 (85) av	7415
L_90~270 (65) av	5723
L_90~270 (75) av	4283
L_90~270 (85) av	1435
L_45 (65) av	7096
L_45 (75) av	6952
L_45 (85) av	10530

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LPC
 Test Date:2021-12-22

γ Range: 0 - 120DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:9.200m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LPC
Test Date: 2021-12-22

γ Range: 0 - 120DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 9.200m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:48.00V I:0.2350A P:11.28W PF:1.000 Freq:50.00Hz Lamp Flux:277.768x1 lm		
NAME: SF15-48V-5050-60-4000-80	TYPE:硅胶	WEIGHT:
SPEC.:	DIM.: 21*11.5MM	SERIAL No.:2021122214
MFR.: OLYMPIA	SUR.:1*0.0115	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	97.3	96.4	93.8	92.8	92.6	92.8	97.3	96.4	93.8	92.8	92.6	92.8						
5	97.5	97.2	94.6	92.4	90.7	89.9	96.2	94.8	92.2	92.4	93.7	94.9						
10	96.7	97.0	94.5	91.1	87.9	86.2	94.2	92.2	89.7	91.0	93.7	96.0						
15	95.1	95.9	93.4	88.8	84.3	81.8	91.5	88.9	86.3	88.5	92.8	96.4						
20	92.6	94.0	91.3	85.5	79.9	76.7	87.9	84.8	82.0	85.0	90.8	95.5						
25	89.3	91.1	88.4	81.5	74.9	71.0	83.6	80.1	77.0	80.8	87.9	93.9						
30	85.3	87.5	84.6	76.8	69.4	65.0	78.6	74.8	71.5	75.8	84.2	91.8						
35	80.6	83.1	80.3	71.4	63.4	58.2	73.0	68.7	65.7	70.0	80.0	88.8						
40	75.3	78.1	75.5	65.3	56.9	51.0	66.8	62.3	59.4	63.7	75.6	85.0						
45	69.4	72.5	70.2	58.8	50.2	43.7	60.2	55.3	52.7	56.9	70.9	80.5						
50	62.9	66.3	64.4	51.9	43.0	36.0	53.1	47.9	45.6	49.6	65.5	75.5						
55	56.1	59.7	58.2	44.6	35.6	28.1	45.6	40.2	38.2	41.9	59.5	69.7						
60	48.9	52.7	51.6	37.0	28.0	20.5	37.9	32.2	30.6	34.2	53.0	63.4						
65	41.4	45.4	44.6	29.2	20.3	13.2	29.9	24.3	22.9	26.4	46.1	56.7						
70	33.6	37.8	37.3	21.5	13.2	7.28	22.0	16.5	15.3	18.7	38.9	49.6						
75	25.8	30.0	29.9	14.0	6.87	3.40	14.5	9.58	8.40	11.5	31.4	42.2						
80	18.2	22.1	22.4	7.23	2.81	1.79	8.19	4.50	3.36	5.04	23.8	34.5						
85	11.0	14.6	15.1	2.03	1.67	1.68	3.82	1.80	1.21	0.85	16.3	26.7						
90	5.70	7.89	8.34	0.89	1.64	1.66	1.55	1.24	1.11	0.48	9.28	18.9						
95	2.70	3.70	3.36	0.95	1.64	1.66	1.16	1.21	1.11	0.51	3.76	11.7						
100	1.45	1.74	1.64	1.04	1.64	1.64	1.15	1.19	1.11	0.60	1.35	5.41						
105	1.29	1.42	1.31	1.19	1.50	1.73	1.16	1.18	0.99	0.79	0.81	2.43						
110	1.32	1.46	1.41	1.19	1.53	1.73	1.18	1.20	1.17	0.79	0.93	1.18						
115	1.35	1.50	1.51	1.22	1.65	1.75	1.18	1.25	1.27	0.79	0.99	1.01						
120	1.41	1.50	1.44	1.28	1.68	1.75	1.18	1.27	1.28	0.85	0.88	1.02						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

C Range: 0 - 360DEG
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