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SOTEN

LumCAT: G1067
Luminaire: 1-0811-S 55°
Report No:
Test No:
LampCAT: LUMILEDS-5050-3090*9
Lamp flux(lm): 3600.0
Number of Lamps: 1
Length(mm): 105
Phm Type: C

Voltage(V): 230.8000
Current(A): 0.1310
Power (W): 28.8400
PF: 0.9500
Ballast type: LC 30/500/54 FLXC SR SNC2
Width(mm): 105
Height(mm): 10

Photometric Results

Lumens(lm): 2784.92
Efficiency(%): 77.36%
Lumens(lm)/Power(W): 96.56
Central intensity(cd): 2864.742
Maximum intensity(cd): 2864.742
Angle of maximum intensity: C=270.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=62.0
[C90/270]Total=62.0
Field angle(10%Imax): [C0/180]Total=87.1
[C90/270]Total=87.1
Maximum s/h(1/2): C0_180=0.98 C90_270=0.98
Maximum s/h(1/4): C0_180=0.93 C90_270=1.40
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 77.36%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.206%



Equipment: GMS-1800
Temperature(°C): 25.0
Date: 2022/8/29
Humidity(%): 65.0%
Operator: New
Distance(m): 7.18

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2864.742	.000	.000	.000%	.000%
5.0	2832.634	68.111	68.111	1.892%	1.892%
10.0	2736.824	199.237	267.348	5.534%	7.426%
15.0	2564.688	314.482	581.830	8.736%	16.162%
20.0	2310.347	401.771	983.601	11.160%	27.322%
25.0	2020.137	454.188	1437.789	12.616%	39.939%
30.0	1540.369	450.585	1888.374	12.516%	52.455%
35.0	1003.446	374.595	2262.968	10.405%	62.860%
40.0	498.476	250.584	2513.552	6.961%	69.821%
45.0	201.720	129.647	2643.199	3.601%	73.422%
50.0	103.488	61.672	2704.871	1.713%	75.135%
55.0	60.918	35.747	2740.619	.993%	76.128%
60.0	35.046	22.182	2762.801	.616%	76.744%
65.0	17.008	12.654	2775.455	.352%	77.096%
70.0	6.597	5.977	2781.432	.166%	77.262%
75.0	1.907	2.223	2783.654	.062%	77.324%
80.0	.670	.690	2784.344	.019%	77.343%
85.0	.464	.308	2784.652	.009%	77.351%
90.0	.515	.268	2784.920	.007%	77.359%

Zonal flux distribution table

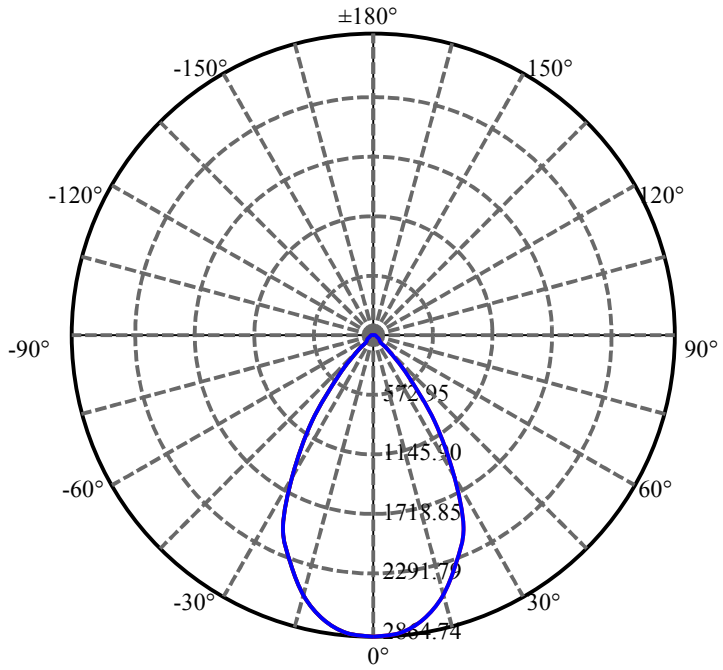
ZONAL LUMEN SUMMARY

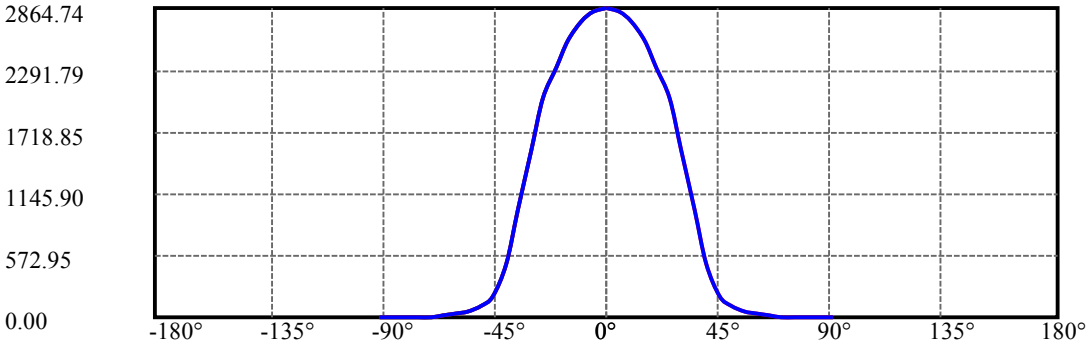
Zone	Lumens	%Lamp	%Fixt
0-30	1888.37	52.45%	67.81%
0-40	2513.55	69.82%	90.26%
0-60	2762.80	76.74%	99.21%
0-90	2784.65	77.35%	99.99%
0-120	2784.65	77.35%	99.99%
0-180	2784.92	77.36%	100.00%
60-90	44.03	1.22%	1.58%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-34.53	2227.94	61.89%	80.00%

ZONAL LUMEN SUMMARY

0-10	267.35
10-20	716.25
20-30	904.77
30-40	625.18
40-50	191.32
50-60	57.93
60-70	18.63
70-80	2.91
80-90	0.31
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

Light Distribution Curve [Unit:cd]





C270(Max):

C0/C180:

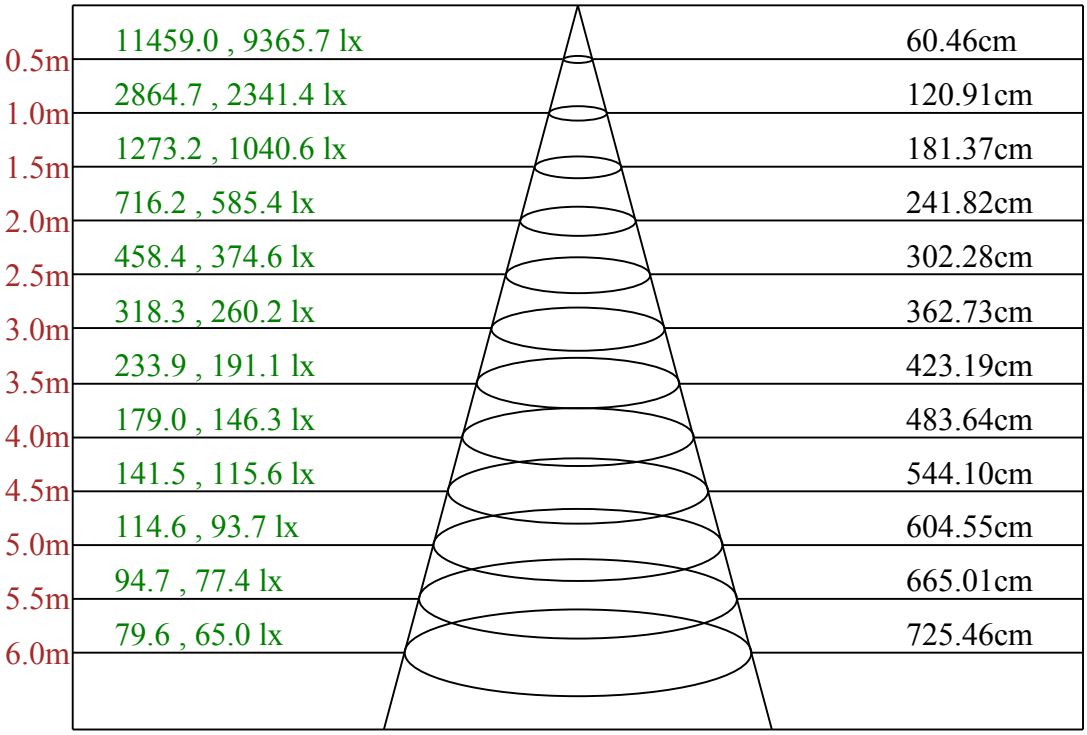
C90/C270:

Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/29
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

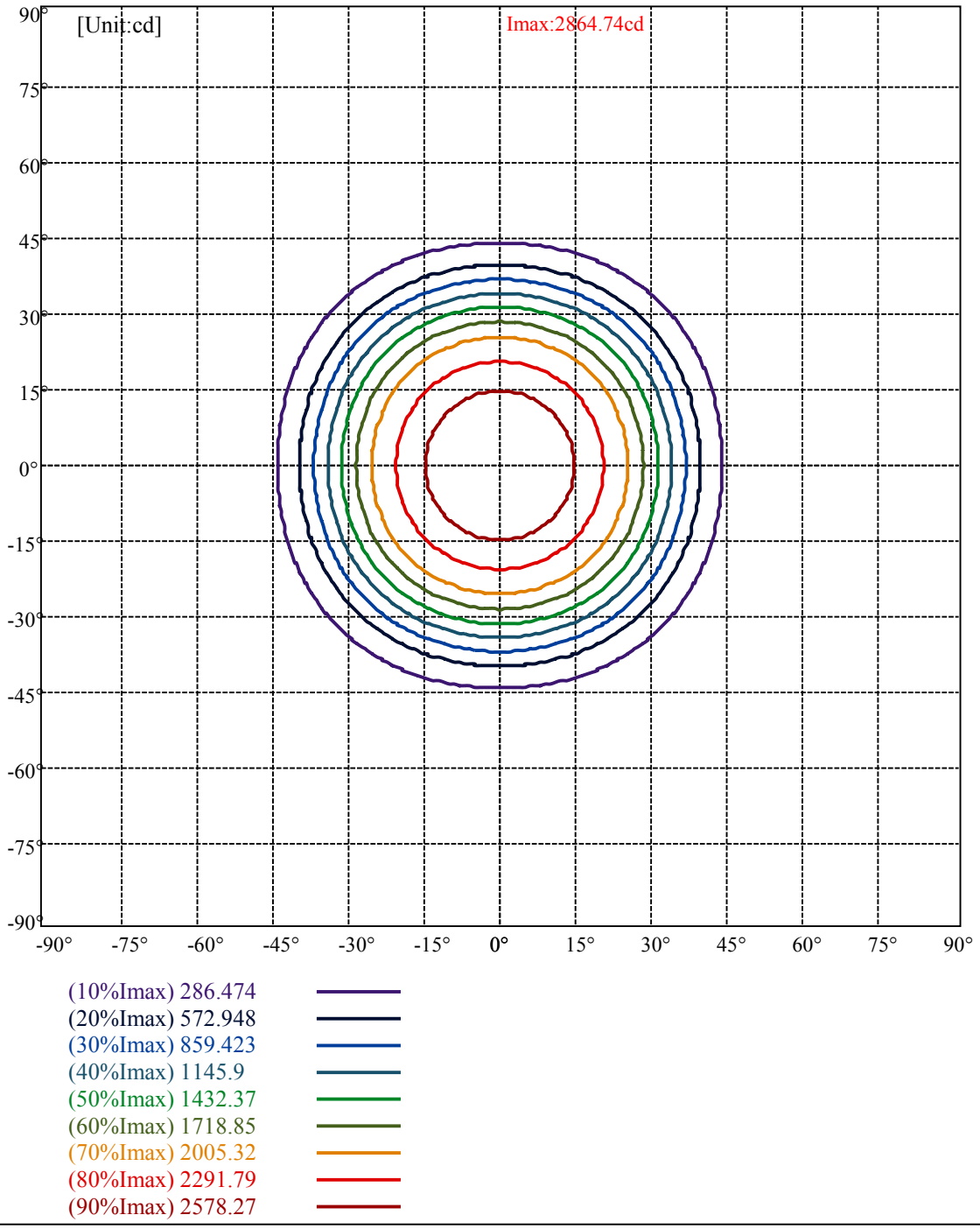
Lux distance Curve



Max , Ave

Beam angle of C270plane62.31

ISO-Intensity(V-H)

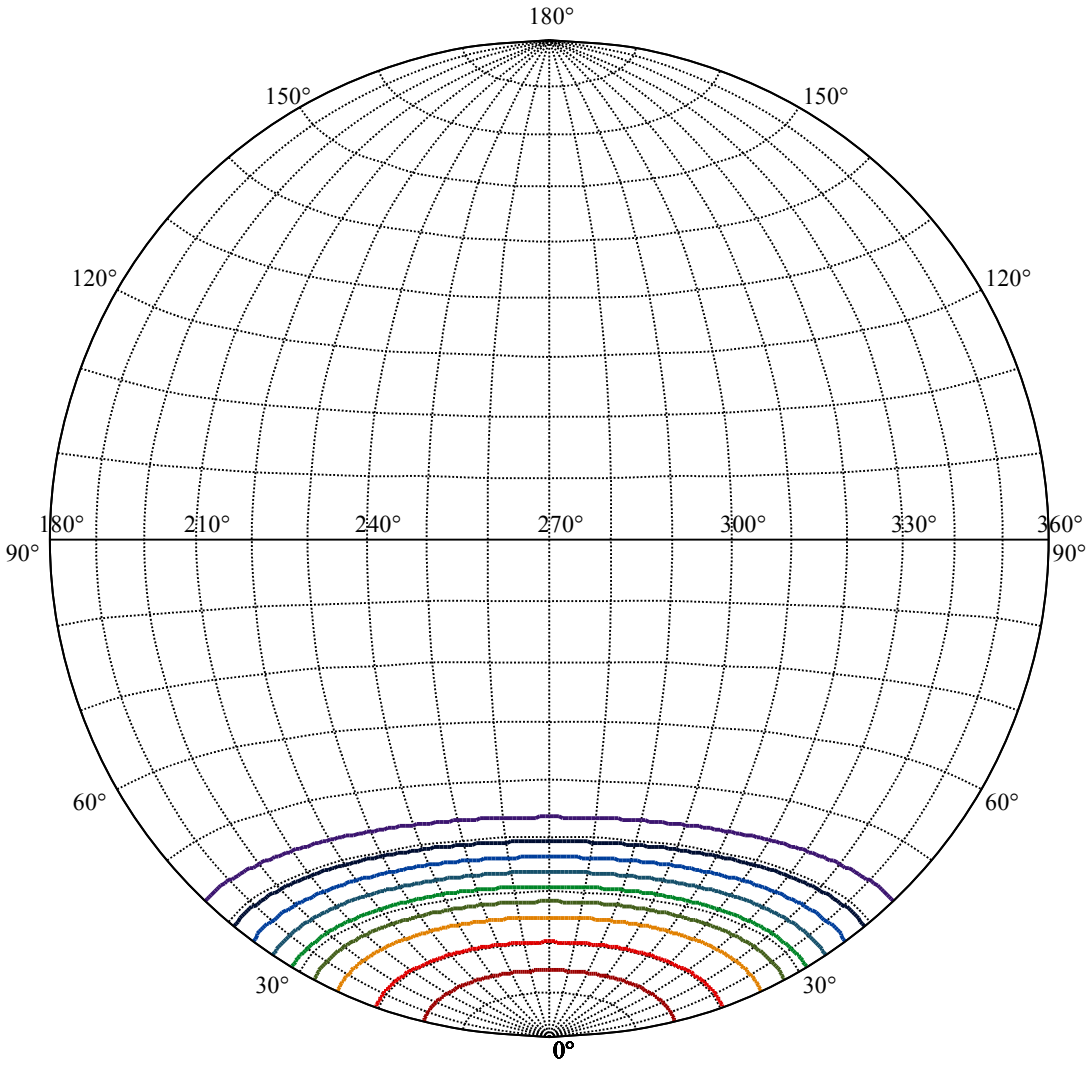


Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/29
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:2864.74

(10%Imax) 286.474
(20%Imax) 572.948
(30%Imax) 859.423
(40%Imax) 1145.9
(50%Imax) 1432.37
(60%Imax) 1718.85
(70%Imax) 2005.32
(80%Imax) 2291.79
(90%Imax) 2578.27

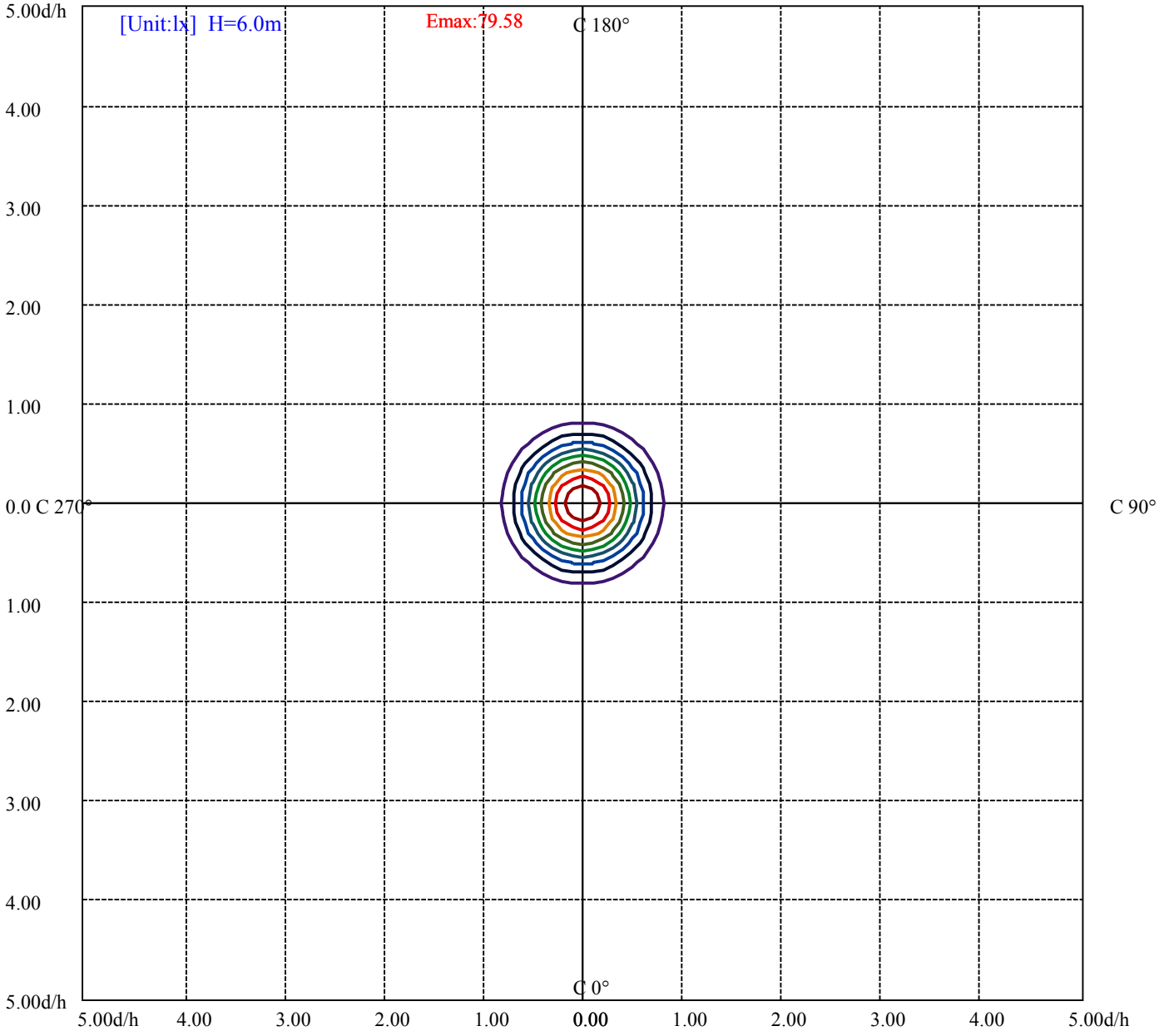
Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/29
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

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ISO illuminance diagram



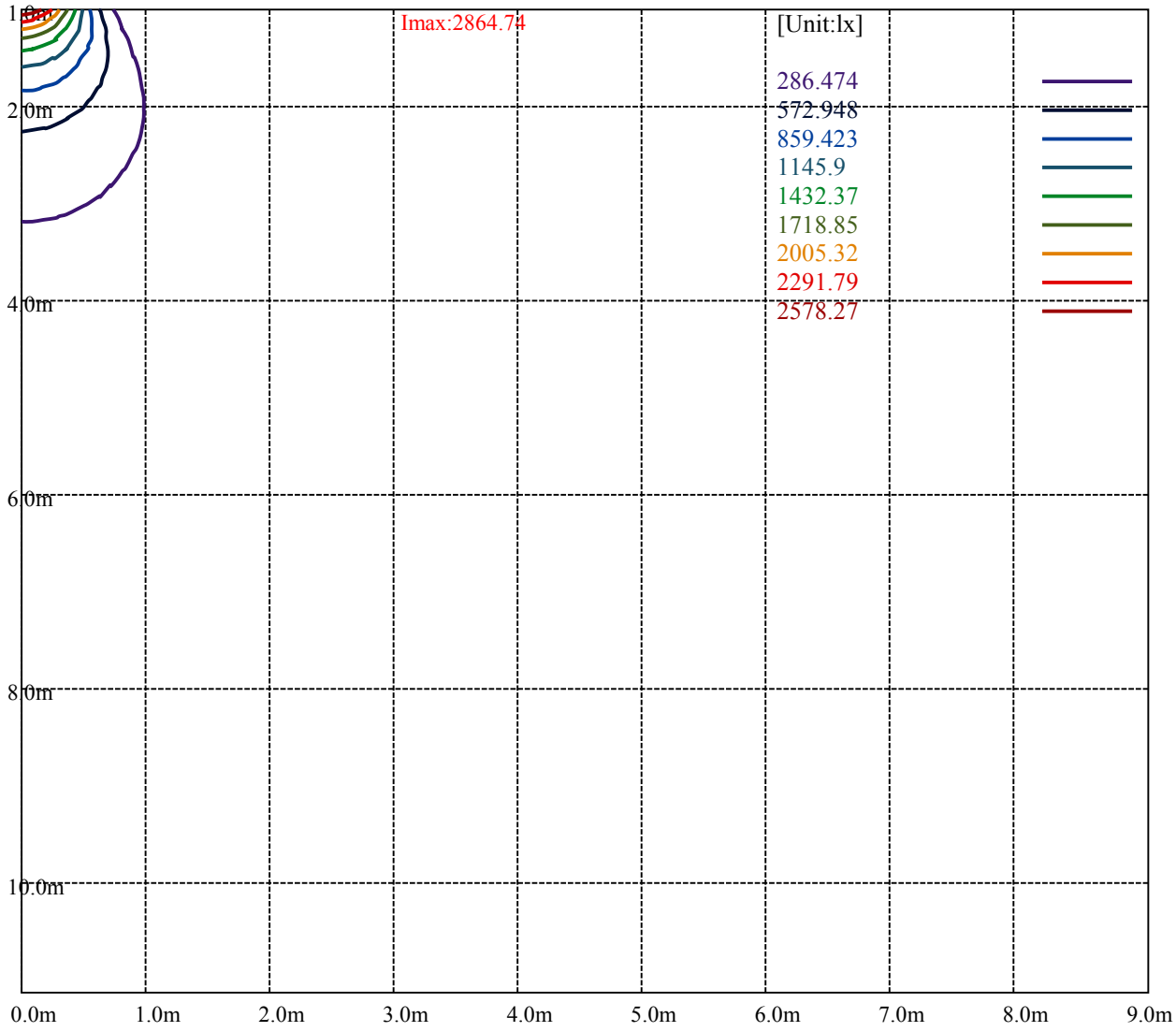
(10%Emax) 7.957611
(20%Emax) 15.91522
(30%Emax) 23.87283
(40%Emax) 31.83056
(50%Emax) 39.78806
(60%Emax) 47.74556
(70%Emax) 55.70333
(80%Emax) 63.66084
(90%Emax) 71.61861

Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/29
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

Space ISO Lux diagram



Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/29
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

SOTEN G1067

Luminance Limitting Curve(no luminous side)

Luminance Table

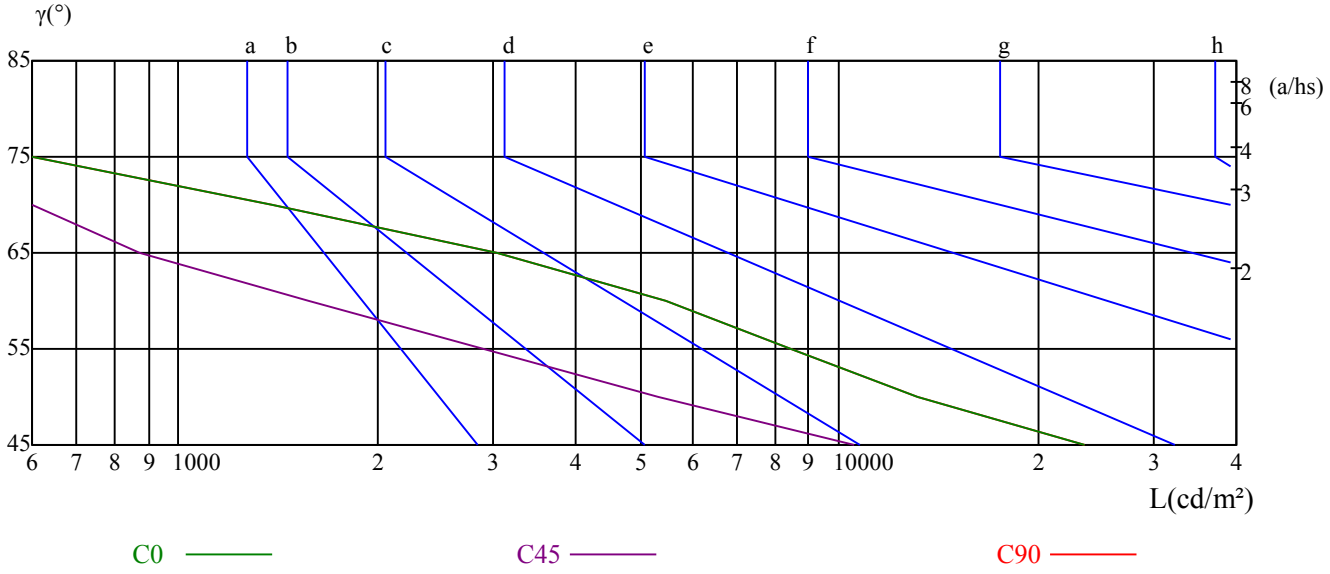
γ	45	50	55	60	65	70	75	80	85
C0	23625	13115	8480	5457	3031	1387	493	227	231
C45	10528	5333	2891	1577	875	449	228	122	148
C90	23625	13115	8480	5457	3031	1387	493	227	231

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
3650	3650	1750	668	668	578	483	483	375

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limitting Curve



Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/29
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

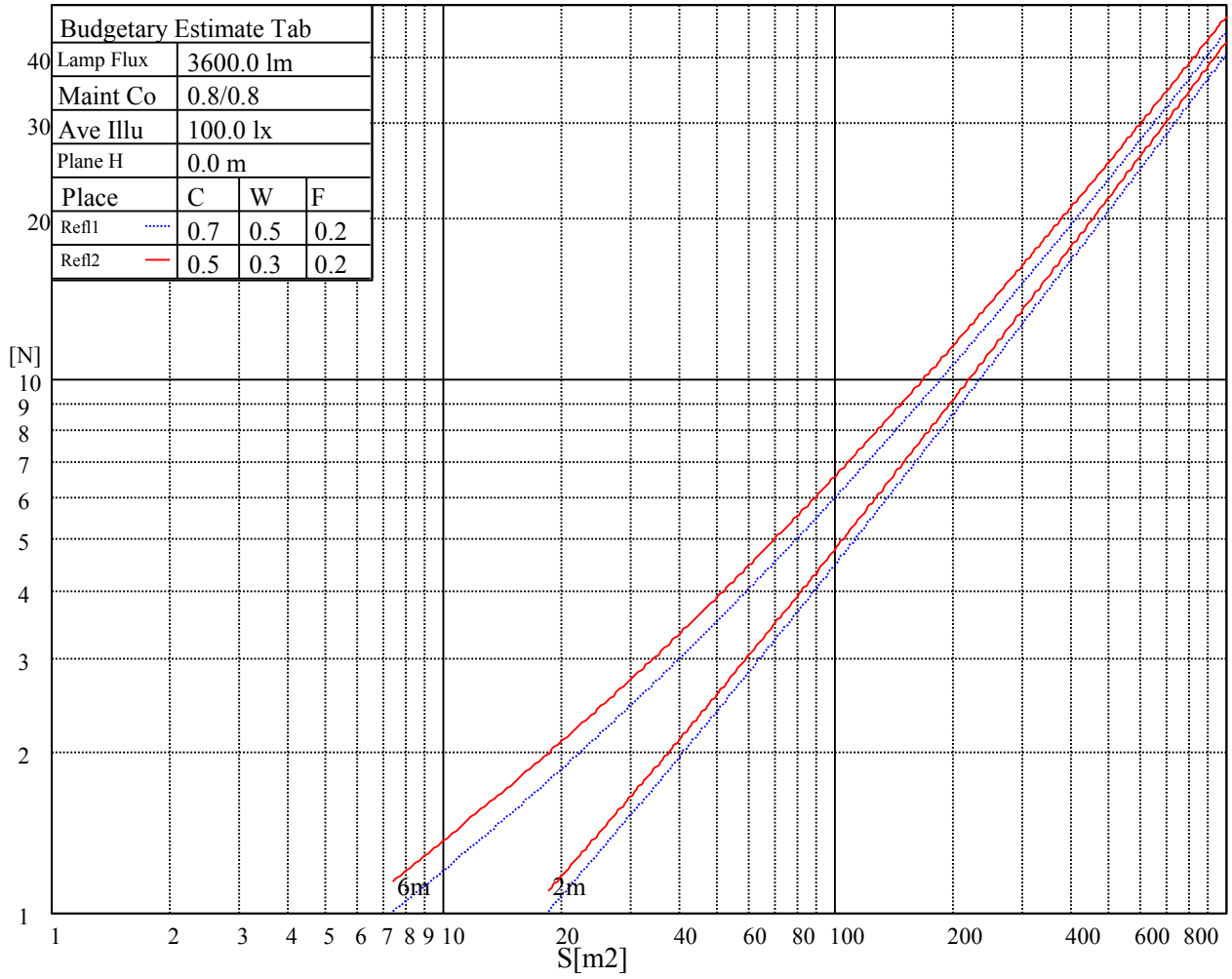
Illuminatin assessment according UGR

Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	15.1	16.0	15.4	16.2	16.5	15.1	16.0	15.4	16.2	16.5
	3H	15.0	15.8	15.3	16.0	16.3	15.0	15.8	15.3	16.0	16.3
	4H	14.8	15.5	15.2	15.8	16.1	14.8	15.5	15.2	15.8	16.1
	6H	14.8	15.5	15.2	15.8	16.1	14.8	15.5	15.2	15.8	16.1
	8H	14.8	15.5	15.2	15.8	16.1	14.8	15.5	15.2	15.8	16.1
	12H	14.6	15.1	15.0	15.5	15.9	14.6	15.1	15.0	15.5	15.9
4H	2H	14.8	15.5	15.2	15.8	16.1	14.8	15.5	15.2	15.8	16.1
	3H	14.7	15.2	15.1	15.5	15.9	14.7	15.2	15.1	15.5	15.9
	4H	14.7	15.2	15.1	15.5	15.9	14.7	15.2	15.1	15.5	15.9
	6H	14.7	15.2	15.1	15.5	15.9	14.7	15.2	15.1	15.5	15.9
	8H	14.5	14.7	15.0	15.2	15.7	14.5	14.7	15.0	15.2	15.7
	12H	14.5	14.7	15.0	15.2	15.7	14.5	14.7	15.0	15.2	15.7
8H	4H	14.5	14.7	15.0	15.2	15.7	14.5	14.7	15.0	15.2	15.7
	6H	14.5	14.7	15.0	15.2	15.7	14.5	14.7	15.0	15.2	15.7
	8H	14.5	14.7	15.0	15.2	15.7	14.5	14.7	15.0	15.2	15.7
	12H	14.5	14.7	15.0	15.2	15.7	14.5	14.7	15.0	15.2	15.7
12H	4H	14.5	14.7	15.0	15.2	15.7	14.5	14.7	15.0	15.2	15.7
	6H	14.5	14.7	15.0	15.2	15.7	14.5	14.7	15.0	15.2	15.7
	8H	14.5	14.7	15.0	15.2	15.7	14.5	14.7	15.0	15.2	15.7

Variation with the observer position at spacings:

S = 1.0H	4.3/-7.5	4.3/-7.5
S = 1.5H	7.0/-10.5	7.0/-10.5
S = 2.0H	9.1/-13.9	9.1/-13.9
Standard tables:	BK0	BK0
Uncorrected UGR	1.3	1.3

Budgetary Estimate Table



Equipment: GMS-1800
Temperature(°C): 25.0

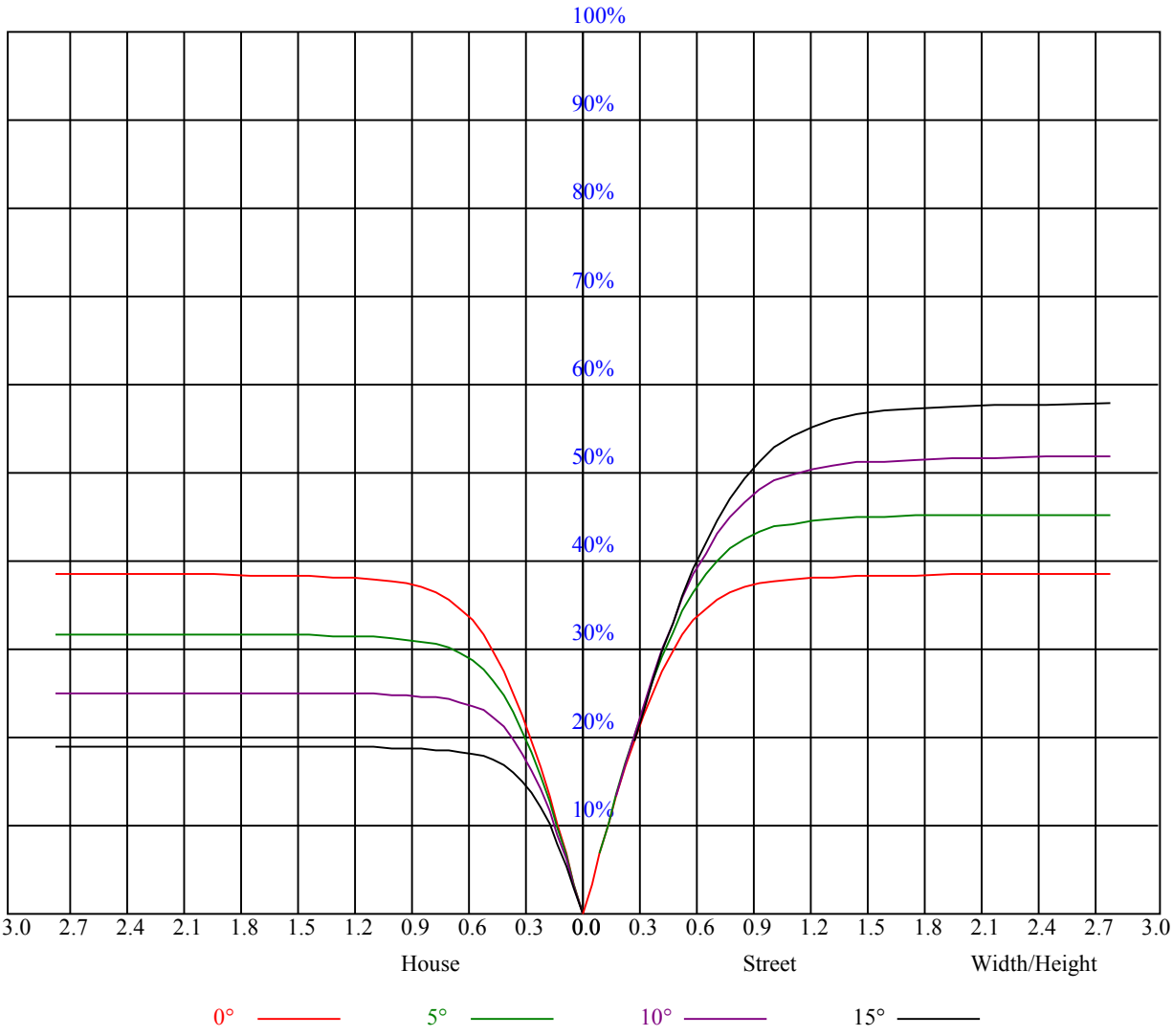
Date: 2022/8/29
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

Utilization factor table for indoor luminaire

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	0.92	0.92	0.92	0.90	0.90	0.90	0.86	0.86	0.86	0.82	0.82	0.82	0.79	0.79	0.79	0.77
1	0.85	0.84	0.82	0.84	0.82	0.80	0.81	0.79	0.78	0.78	0.77	0.76	0.75	0.74	0.73	0.72
2	0.79	0.76	0.73	0.78	0.75	0.73	0.75	0.73	0.71	0.73	0.71	0.69	0.71	0.69	0.68	0.67
3	0.74	0.70	0.67	0.73	0.69	0.66	0.71	0.67	0.65	0.69	0.66	0.64	0.67	0.65	0.63	0.62
4	0.69	0.64	0.61	0.68	0.64	0.60	0.66	0.63	0.60	0.64	0.61	0.59	0.63	0.60	0.58	0.57
5	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.61	0.57	0.55	0.59	0.57	0.54	0.53
6	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.51	0.57	0.54	0.51	0.56	0.53	0.50	0.49
7	0.56	0.51	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.54	0.50	0.47	0.53	0.50	0.47	0.46
8	0.53	0.48	0.45	0.52	0.48	0.45	0.51	0.47	0.44	0.51	0.47	0.44	0.50	0.47	0.44	0.43
9	0.50	0.45	0.42	0.49	0.45	0.42	0.49	0.44	0.42	0.48	0.44	0.41	0.47	0.44	0.41	0.40
10	0.47	0.42	0.39	0.47	0.42	0.39	0.46	0.42	0.39	0.45	0.42	0.39	0.45	0.41	0.39	0.38

Coefficient Utilization Curve



Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/29
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2864.74	2832.63	2736.82	2564.69	2310.35	2020.14	1540.37	1003.45	498.48
30.0	2864.74	2832.63	2736.82	2564.69	2310.35	2020.14	1540.37	1003.45	498.48
60.0	2864.74	2832.63	2736.82	2564.69	2310.35	2020.14	1540.37	1003.45	498.48
90.0	2864.74	2832.63	2736.82	2564.69	2310.35	2020.14	1540.37	1003.45	498.48
120.0	2864.74	2832.63	2736.82	2564.69	2310.35	2020.14	1540.37	1003.45	498.48
150.0	2864.74	2832.63	2736.82	2564.69	2310.35	2020.14	1540.37	1003.45	498.48
180.0	2864.74	2832.63	2736.82	2564.69	2310.35	2020.14	1540.37	1003.45	498.48
210.0	2864.74	2832.63	2736.82	2564.69	2310.35	2020.14	1540.37	1003.45	498.48
240.0	2864.74	2832.63	2736.82	2564.69	2310.35	2020.14	1540.37	1003.45	498.48
270.0	2864.74	2832.63	2736.82	2564.69	2310.35	2020.14	1540.37	1003.45	498.48
300.0	2864.74	2832.63	2736.82	2564.69	2310.35	2020.14	1540.37	1003.45	498.48
330.0	2864.74	2832.63	2736.82	2564.69	2310.35	2020.14	1540.37	1003.45	498.48
360.0	2864.74	2832.63	2736.82	2564.69	2310.35	2020.14	1540.37	1003.45	498.48

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	201.72	103.49	60.92	35.05	17.01	6.60	1.91	0.67	0.46
30.0	201.72	103.49	60.92	35.05	17.01	6.60	1.91	0.67	0.46
60.0	201.72	103.49	60.92	35.05	17.01	6.60	1.91	0.67	0.46
90.0	201.72	103.49	60.92	35.05	17.01	6.60	1.91	0.67	0.46
120.0	201.72	103.49	60.92	35.05	17.01	6.60	1.91	0.67	0.46
150.0	201.72	103.49	60.92	35.05	17.01	6.60	1.91	0.67	0.46
180.0	201.72	103.49	60.92	35.05	17.01	6.60	1.91	0.67	0.46
210.0	201.72	103.49	60.92	35.05	17.01	6.60	1.91	0.67	0.46
240.0	201.72	103.49	60.92	35.05	17.01	6.60	1.91	0.67	0.46
270.0	201.72	103.49	60.92	35.05	17.01	6.60	1.91	0.67	0.46
300.0	201.72	103.49	60.92	35.05	17.01	6.60	1.91	0.67	0.46
330.0	201.72	103.49	60.92	35.05	17.01	6.60	1.91	0.67	0.46
360.0	201.72	103.49	60.92	35.05	17.01	6.60	1.91	0.67	0.46

C/γ(°)	90.0
0.0	0.52
30.0	0.52
60.0	0.52
90.0	0.52
120.0	0.52
150.0	0.52
180.0	0.52
210.0	0.52
240.0	0.52
270.0	0.52
300.0	0.52
330.0	0.52
360.0	0.52