SOTEN LIGHTING LTD.
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Address:Jin OU Road,JiangMen Gity,GuangDong,China

SOTEN

LumCAT: G1067
Luminaire: 1-0812-S 75°
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): 30.2800
PF: 0.9980
Ballast type: LC 30/500/54 FLXC SR SNC2
Width(mm): 105
Height(mm): 10

Photometric Results

Lumens(lm): 2877.66
Efficiency(%): 80.56%
Lumens(lm)/Power(W): 95.04
Central intensity(cd): 2037.402
Maximum intensity(cd): 2050.338
Angle of maximum intensity: C=270.0 γ=10.0
Beam Angle(50%Imax): [C0/180]Total=76.2
[C90/270]Total=76.2
Field angle(10%Imax): [C0/180]Total=98.7
[C90/270]Total=98.7
Maximum s/h(1/2): C0_180=1.22 C90_270=1.22
Maximum s/h(1/4): C0_180=1.12 C90_270=1.74
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 80.56%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.913%



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

SOTEN G1067

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2037.402	.000	.000	.000%	.000%
5.0	2042.607	48.775	48.775	1.365%	1.365%
10.0	2050.338	146.418	195.193	4.099%	5.465%
15.0	2037.660	242.497	437.690	6.789%	12.253%
20.0	1985.297	331.548	769.238	9.282%	21.535%
25.0	1875.521	404.929	1174.167	11.336%	32.871%
30.0	1700.343	452.529	1626.695	12.669%	45.540%
35.0	1294.893	441.070	2067.765	12.348%	57.888%
40.0	858.108	359.212	2426.977	10.056%	67.944%
45.0	354.479	224.520	2651.497	6.286%	74.230%
50.0	182.084	108.420	2759.918	3.035%	77.265%
55.0	81.121	57.229	2817.147	1.602%	78.868%
60.0	45.302	29.222	2846.369	.818%	79.686%
65.0	24.120	16.877	2863.246	.472%	80.158%
70.0	10.668	8.809	2872.054	.247%	80.405%
75.0	3.505	3.705	2875.759	.104%	80.508%
80.0	.979	1.200	2876.959	.034%	80.542%
85.0	.515	.406	2877.365	.011%	80.553%
90.0	.567	.296	2877.661	.008%	80.562%

Zonal flux distribution table

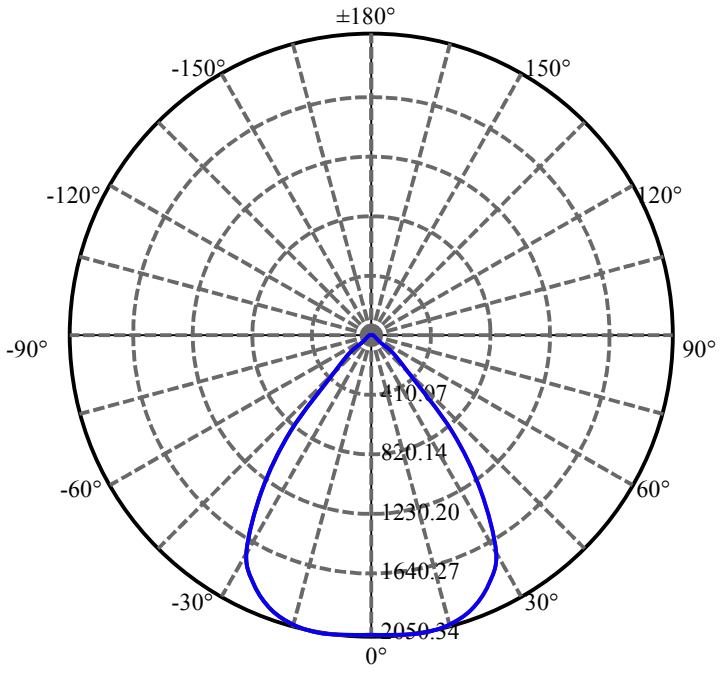
ZONAL LUMEN SUMMARY

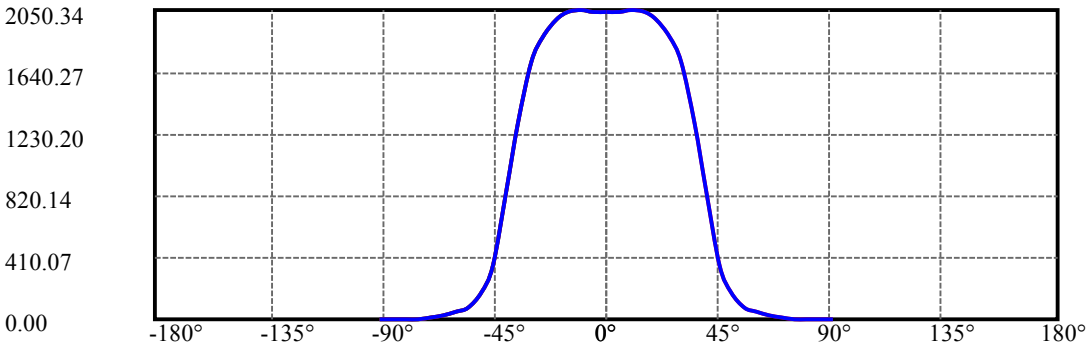
Zone	Lumens	%Lamp	%Fixt
0-30	1626.70	45.19%	56.53%
0-40	2426.98	67.42%	84.34%
0-60	2846.37	79.07%	98.91%
0-90	2877.37	79.93%	99.99%
0-120	2877.37	79.93%	99.99%
0-180	2877.66	79.94%	100.00%
60-90	60.22	1.67%	2.09%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-38.26	2302.13	63.95%	80.00%

ZONAL LUMEN SUMMARY

0-10	195.19
10-20	574.05
20-30	857.46
30-40	800.28
40-50	332.94
50-60	86.45
60-70	25.69
70-80	4.90
80-90	0.41
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:

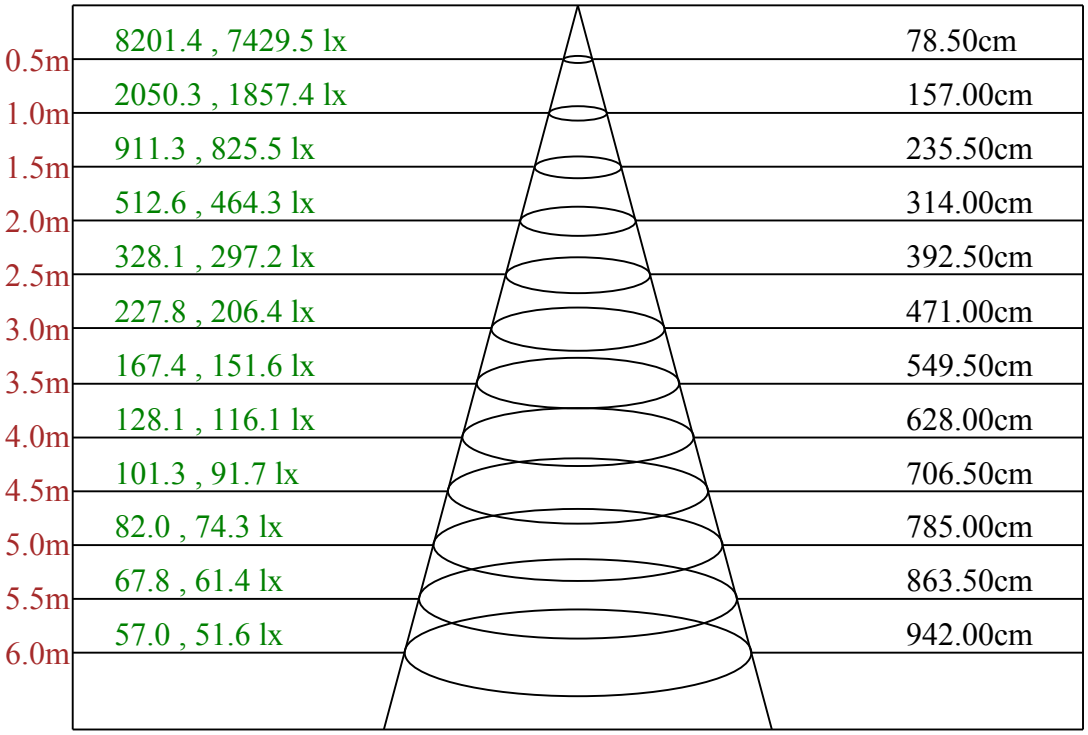
C90/C270:

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

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

Operator: New
Distance(m): 7.18

Lux distance Curve



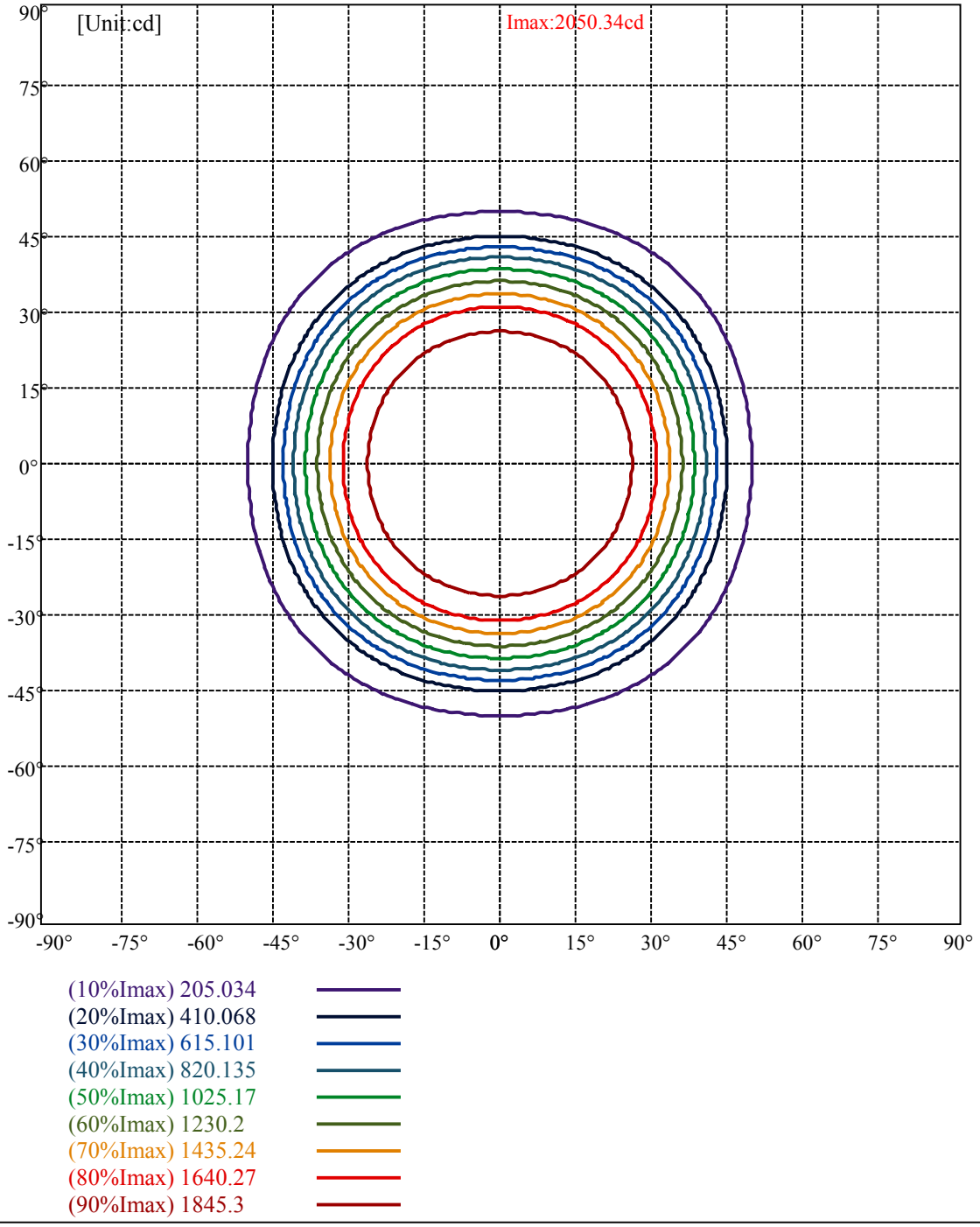
Max , Ave

Beam angle of C270plane76.26

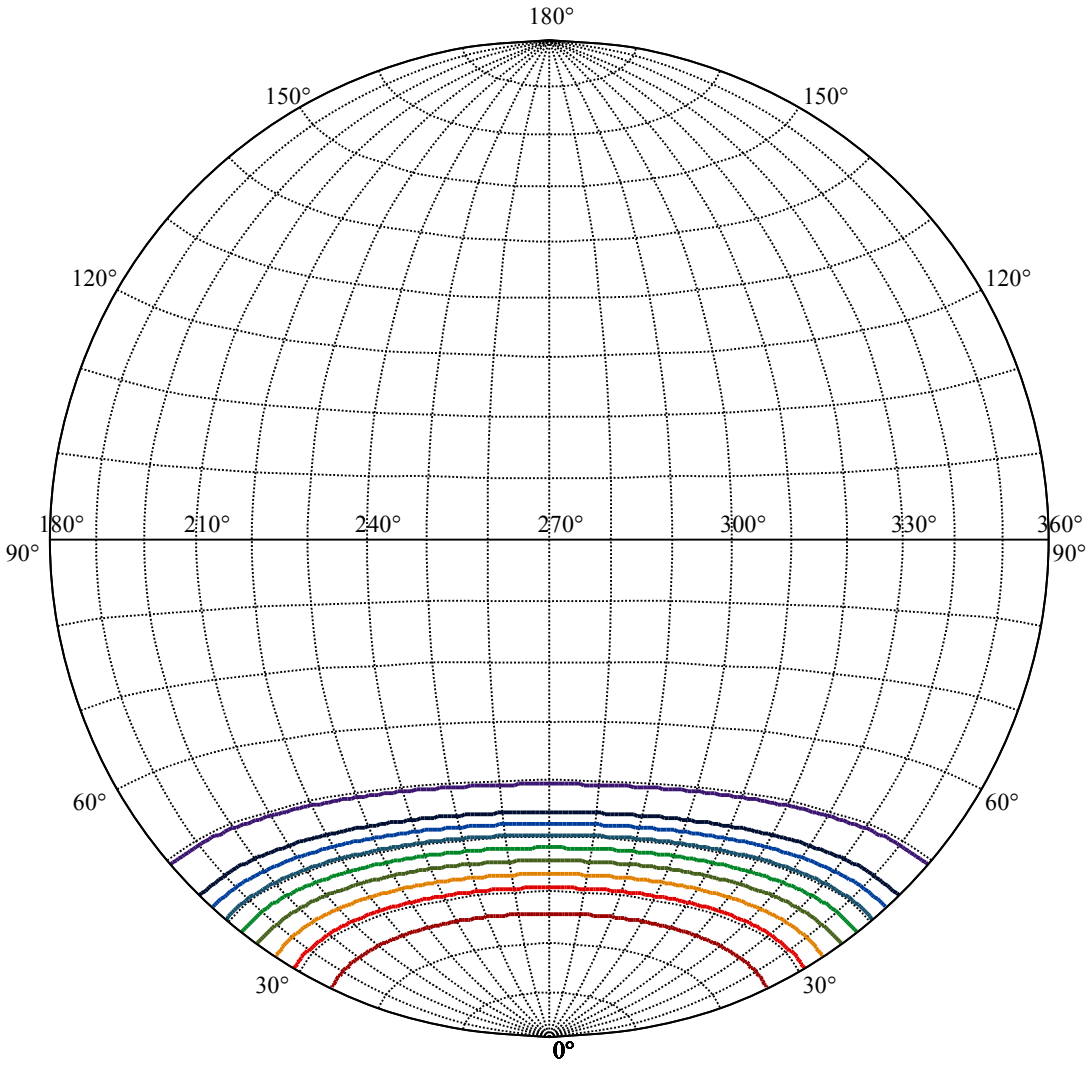
Equipment: GMS-1800
Temperature(°C): 25.0

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

Operator: New
Distance(m): 7.18


[Unit:cd]
Imax:2050.34cd
90°
75°
60°
45°
30°
15°
0°
-15°
-30°
-45°
-60°
-75°
-90°
-90° -75° -60° -45° -30° -15° 0° 15° 30° 45° 60° 75° 90°
(10%Imax) 205.034
(20%Imax) 410.068
(30%Imax) 615.101
(40%Imax) 820.135
(50%Imax) 1025.17
(60%Imax) 1230.2
(70%Imax) 1435.24
(80%Imax) 1640.27
(90%Imax) 1845.3

ISO candela diagram on circular web



House [Unit:cd] Road

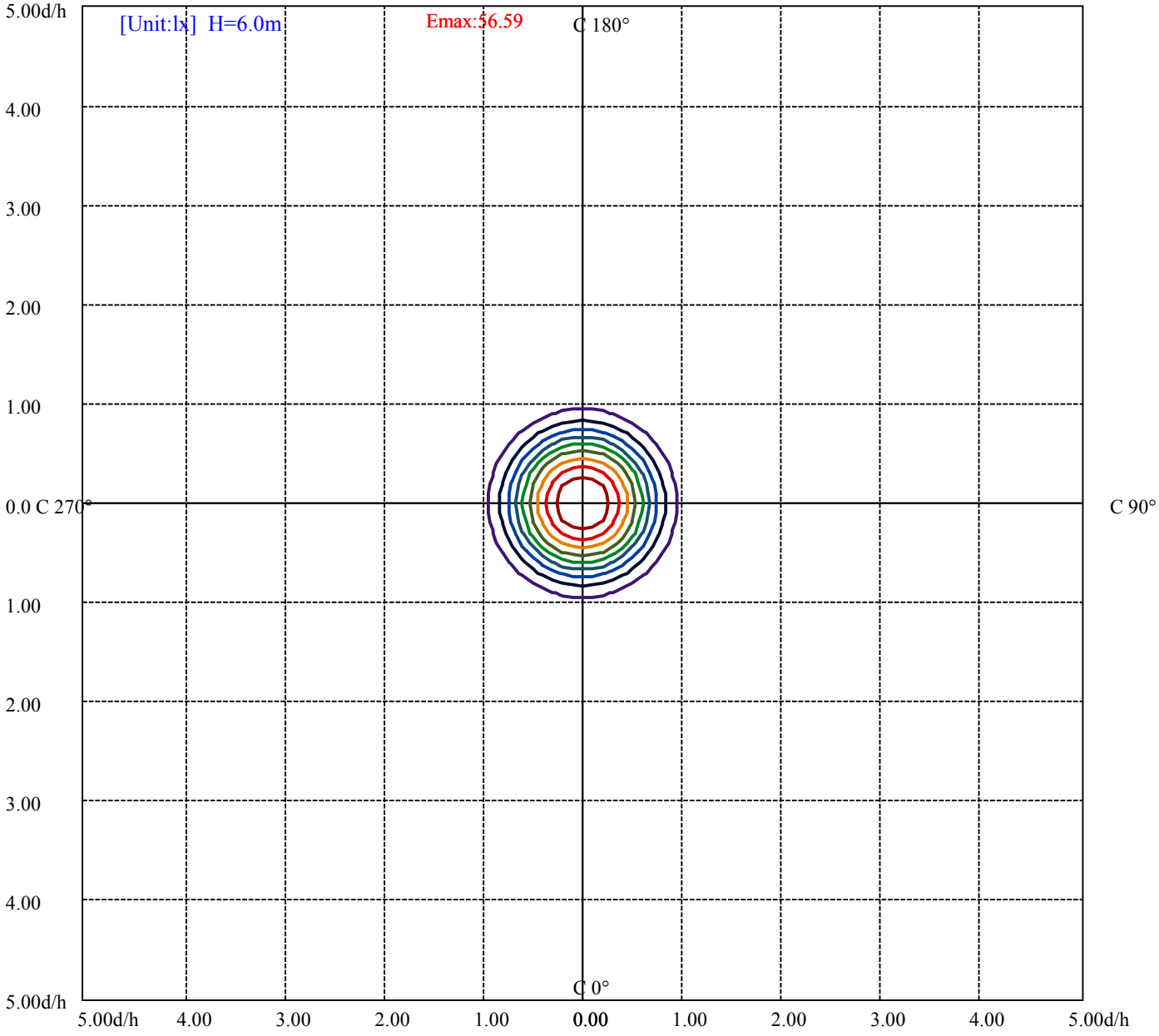
Imax:2050.34

(10%Imax) 205.034
(20%Imax) 410.068
(30%Imax) 615.101
(40%Imax) 820.135
(50%Imax) 1025.17
(60%Imax) 1230.2
(70%Imax) 1435.24
(80%Imax) 1640.27
(90%Imax) 1845.3

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

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ISO illuminance diagram



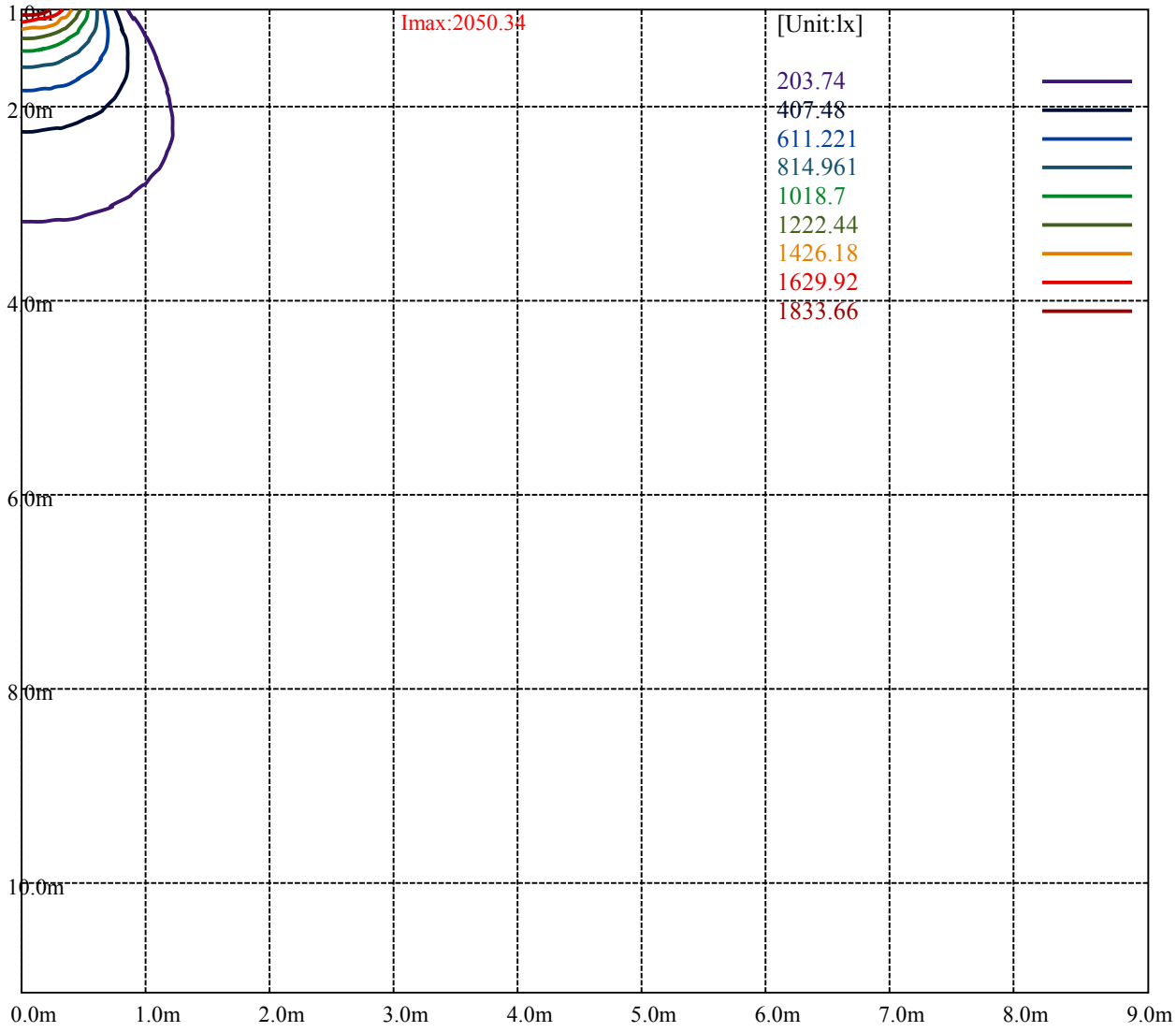
(10%Emax) 5.659445
(20%Emax) 11.31889
(30%Emax) 16.97836
(40%Emax) 22.63781
(50%Emax) 28.29722
(60%Emax) 33.95667
(70%Emax) 39.61611
(80%Emax) 45.27556
(90%Emax) 50.935

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

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Luminance Limitting Curve(no luminous side)

Luminance Table

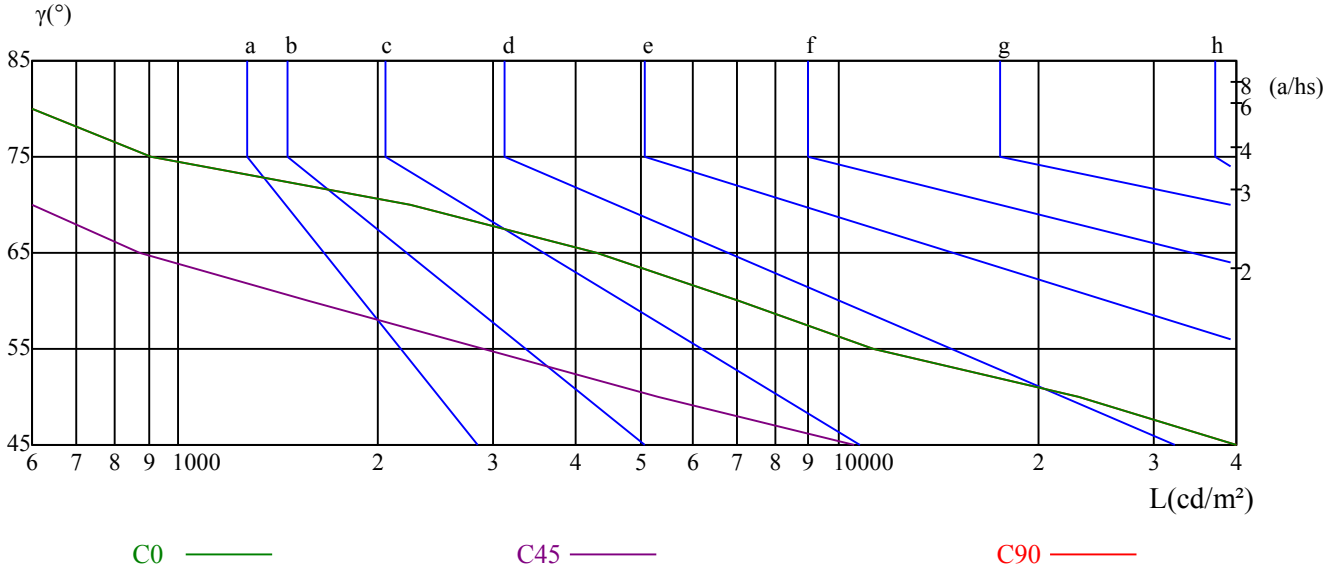
γ	45	50	55	60	65	70	75	80	85
C0	41516	23075	11292	7054	4299	2242	906	332	257
C45	10528	5333	2891	1577	875	449	228	122	148
C90	41516	23075	11292	7054	4299	2242	906	332	257

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
5177	5177	1750	1228	1228	578	536	536	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

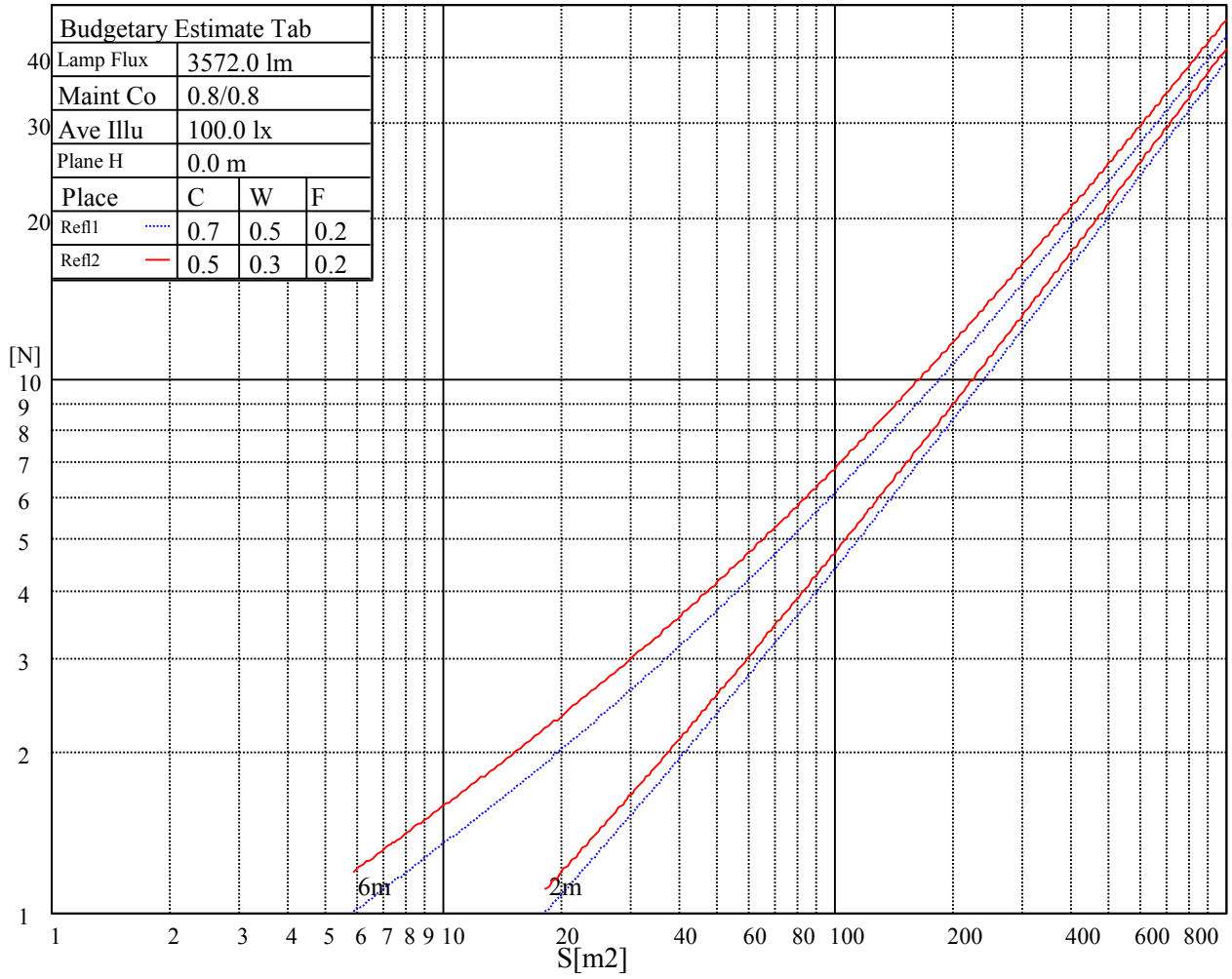
Date: 2022/8/29
Humidity(%): 65.0%

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	17.2	18.2	17.5	18.4	18.6	17.2	18.2	17.5	18.4	18.6
	3H	17.1	17.9	17.4	18.2	18.4	17.1	17.9	17.4	18.2	18.4
	4H	16.9	17.6	17.3	17.9	18.2	16.9	17.6	17.3	17.9	18.2
	6H	16.9	17.6	17.3	17.9	18.2	16.9	17.6	17.3	17.9	18.2
	8H	16.9	17.6	17.3	17.9	18.2	16.9	17.6	17.3	17.9	18.2
	12H	16.7	17.2	17.1	17.6	18.0	16.7	17.2	17.1	17.6	18.0
4H	2H	16.9	17.6	17.3	17.9	18.2	16.9	17.6	17.3	17.9	18.2
	3H	16.8	17.3	17.2	17.7	18.1	16.8	17.3	17.2	17.7	18.1
	4H	16.8	17.3	17.2	17.7	18.1	16.8	17.3	17.2	17.7	18.1
	6H	16.8	17.3	17.2	17.7	18.1	16.8	17.3	17.2	17.7	18.1
	8H	16.6	16.9	17.1	17.3	17.8	16.6	16.9	17.1	17.3	17.8
	12H	16.6	16.9	17.1	17.3	17.8	16.6	16.9	17.1	17.3	17.8
8H	4H	16.6	16.9	17.1	17.3	17.8	16.6	16.9	17.1	17.3	17.8
	6H	16.6	16.9	17.1	17.3	17.8	16.6	16.9	17.1	17.3	17.8
	8H	16.6	16.9	17.1	17.3	17.8	16.6	16.9	17.1	17.3	17.8
	12H	16.6	16.9	17.1	17.3	17.8	16.6	16.9	17.1	17.3	17.8
12H	4H	16.6	16.9	17.1	17.3	17.8	16.6	16.9	17.1	17.3	17.8
	6H	16.6	16.9	17.1	17.3	17.8	16.6	16.9	17.1	17.3	17.8
	8H	16.6	16.9	17.1	17.3	17.8	16.6	16.9	17.1	17.3	17.8

Variation with the observer position at spacings:		
S = 1.0H	3.2/-7.6	3.2/-7.6
S = 1.5H	5.8/-10.7	5.8/-10.7
S = 2.0H	7.9/-13.3	7.9/-13.3
Standard tables:	BK0	BK0
Uncorrected UGR	3.5	3.5

Budgetary Estimate Table



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

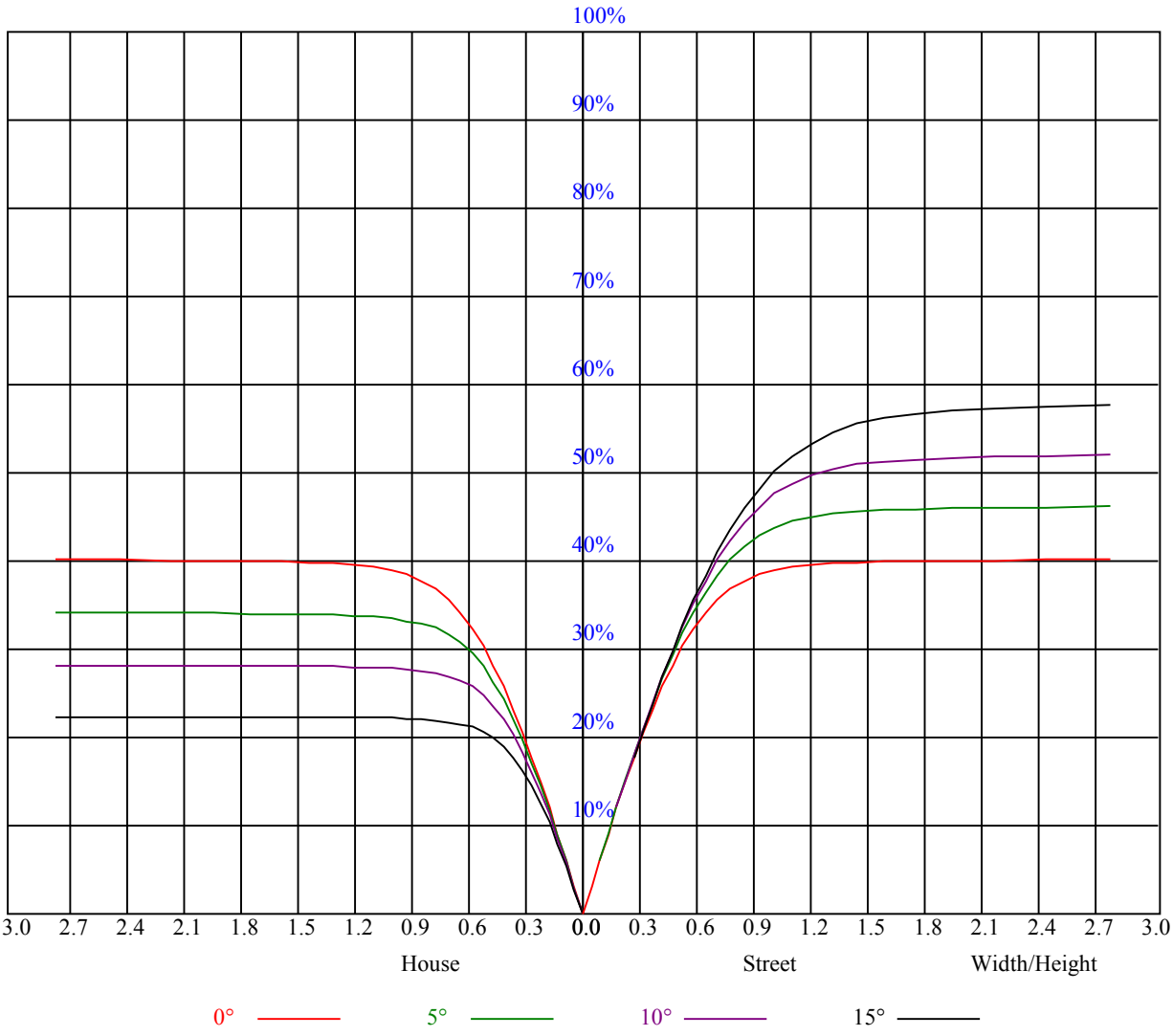
Date: 2022/8/29
Humidity(%): 65.0%

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	0.96	0.96	0.96	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.82	0.82	0.82	0.81
1	0.88	0.86	0.84	0.87	0.85	0.83	0.83	0.82	0.80	0.80	0.79	0.78	0.78	0.77	0.76	0.74
2	0.81	0.78	0.75	0.80	0.77	0.74	0.77	0.75	0.72	0.75	0.73	0.71	0.73	0.71	0.69	0.68
3	0.75	0.71	0.67	0.74	0.70	0.66	0.72	0.68	0.65	0.70	0.67	0.64	0.68	0.65	0.63	0.62
4	0.69	0.64	0.60	0.68	0.64	0.60	0.66	0.62	0.59	0.65	0.61	0.59	0.63	0.60	0.58	0.57
5	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.53	0.52
6	0.59	0.54	0.50	0.59	0.54	0.50	0.57	0.53	0.50	0.56	0.52	0.49	0.55	0.52	0.49	0.48
7	0.55	0.50	0.46	0.55	0.49	0.46	0.53	0.49	0.46	0.52	0.48	0.45	0.51	0.48	0.45	0.44
8	0.51	0.46	0.42	0.51	0.46	0.42	0.50	0.45	0.42	0.49	0.45	0.42	0.48	0.44	0.42	0.40
9	0.48	0.43	0.39	0.47	0.42	0.39	0.47	0.42	0.39	0.46	0.42	0.39	0.45	0.41	0.39	0.37
10	0.45	0.40	0.36	0.44	0.39	0.36	0.44	0.39	0.36	0.43	0.39	0.36	0.42	0.39	0.36	0.35

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	2037.40	2042.61	2050.34	2037.66	1985.30	1875.52	1700.34	1294.89	858.11
30.0	2037.40	2042.61	2050.34	2037.66	1985.30	1875.52	1700.34	1294.89	858.11
60.0	2037.40	2042.61	2050.34	2037.66	1985.30	1875.52	1700.34	1294.89	858.11
90.0	2037.40	2042.61	2050.34	2037.66	1985.30	1875.52	1700.34	1294.89	858.11
120.0	2037.40	2042.61	2050.34	2037.66	1985.30	1875.52	1700.34	1294.89	858.11
150.0	2037.40	2042.61	2050.34	2037.66	1985.30	1875.52	1700.34	1294.89	858.11
180.0	2037.40	2042.61	2050.34	2037.66	1985.30	1875.52	1700.34	1294.89	858.11
210.0	2037.40	2042.61	2050.34	2037.66	1985.30	1875.52	1700.34	1294.89	858.11
240.0	2037.40	2042.61	2050.34	2037.66	1985.30	1875.52	1700.34	1294.89	858.11
270.0	2037.40	2042.61	2050.34	2037.66	1985.30	1875.52	1700.34	1294.89	858.11
300.0	2037.40	2042.61	2050.34	2037.66	1985.30	1875.52	1700.34	1294.89	858.11
330.0	2037.40	2042.61	2050.34	2037.66	1985.30	1875.52	1700.34	1294.89	858.11
360.0	2037.40	2042.61	2050.34	2037.66	1985.30	1875.52	1700.34	1294.89	858.11

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	354.48	182.08	81.12	45.30	24.12	10.67	3.50	0.98	0.52
30.0	354.48	182.08	81.12	45.30	24.12	10.67	3.50	0.98	0.52
60.0	354.48	182.08	81.12	45.30	24.12	10.67	3.50	0.98	0.52
90.0	354.48	182.08	81.12	45.30	24.12	10.67	3.50	0.98	0.52
120.0	354.48	182.08	81.12	45.30	24.12	10.67	3.50	0.98	0.52
150.0	354.48	182.08	81.12	45.30	24.12	10.67	3.50	0.98	0.52
180.0	354.48	182.08	81.12	45.30	24.12	10.67	3.50	0.98	0.52
210.0	354.48	182.08	81.12	45.30	24.12	10.67	3.50	0.98	0.52
240.0	354.48	182.08	81.12	45.30	24.12	10.67	3.50	0.98	0.52
270.0	354.48	182.08	81.12	45.30	24.12	10.67	3.50	0.98	0.52
300.0	354.48	182.08	81.12	45.30	24.12	10.67	3.50	0.98	0.52
330.0	354.48	182.08	81.12	45.30	24.12	10.67	3.50	0.98	0.52
360.0	354.48	182.08	81.12	45.30	24.12	10.67	3.50	0.98	0.52

C/γ(°)	90.0
0.0	0.57
30.0	0.57
60.0	0.57
90.0	0.57
120.0	0.57
150.0	0.57
180.0	0.57
210.0	0.57
240.0	0.57
270.0	0.57
300.0	0.57
330.0	0.57
360.0	0.57