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## Nata

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Client:

LumCAT: 2-1122-A4

Luminaire: 99.02.73.172+92.76.365.00

Report No:

Voltage(V): 34.0200

Test No: GC20190823010

Current(A): 0.4480

LampCAT: TRIDONIC SLE 15MM G7

Power (W): 15.2400

Lamp flux(lm): 2050.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 70

Width(mm): 70

Phm Type: C

Height(mm): 0

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## Photometric Results

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Lumens(lm): 1754.68, Efficiency(%): 85.59% , Luminous Efficacy(lm/W): 115.14

Central intensity(cd): 3761.297, Maximum intensity(cd): 3761.297

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.4

[C90/270]Total=35.4

Field angle(10%Imax): [C0/180]Total=72.2

[C90/270]Total=72.2

Maximum s/h(1/2): C0\_180=0.59 C90\_270=0.59

Maximum s/h(1/4): C0\_180=0.59 C90\_270=0.59

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.59%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.529%

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Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2019/8/24  
Humidity(%): 65.0%

Operator: NT07  
Distance(m): 7.50

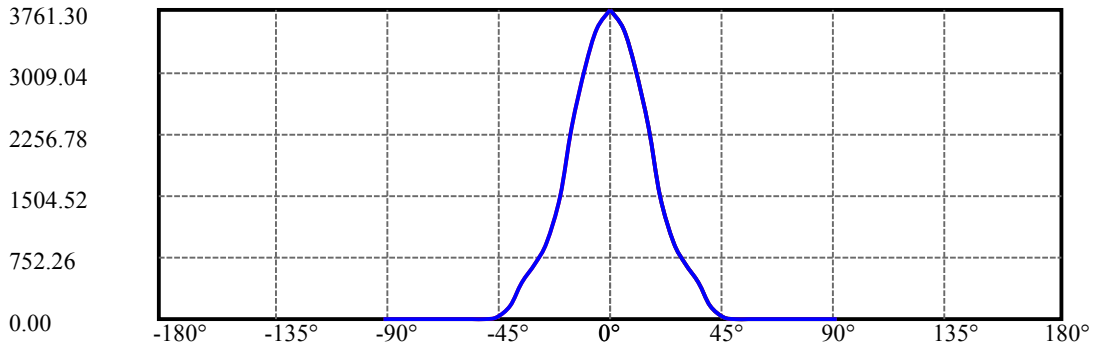
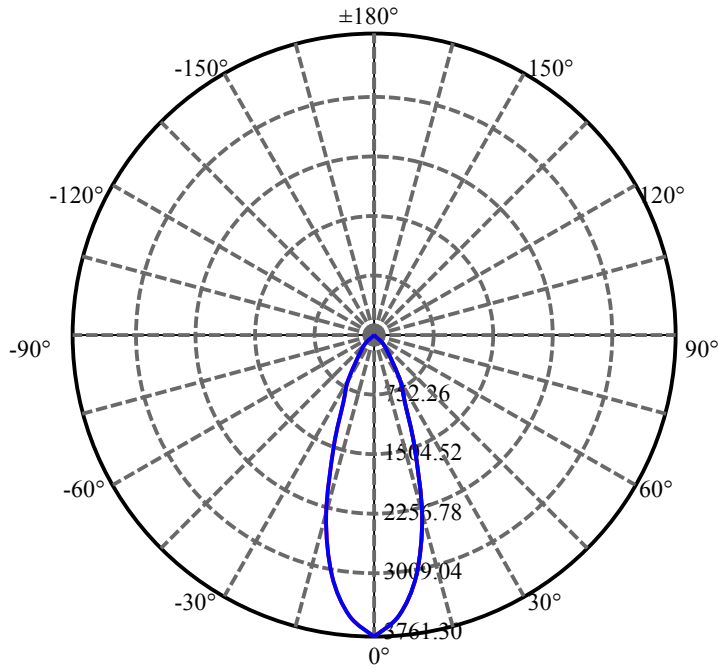
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3761.297	0.000	0	.000%	.000%
5.0	3519.352	87.038	87.038	4.246%	4.960%
10.0	3051.422	235.057	322.095	11.466%	18.356%
15.0	2339.578	319.790	641.886	15.600%	36.581%
20.0	1488.804	315.512	957.398	15.391%	54.563%
25.0	927.148	253.389	1210.787	12.360%	69.003%
30.0	679.366	203.306	1414.093	9.917%	80.590%
35.0	432.612	163.747	1577.839	7.988%	89.922%
40.0	169.095	100.390	1678.229	4.897%	95.643%
45.0	20.573	35.119	1713.348	1.713%	97.644%
50.0	11.306	6.442	1719.79	.314%	98.012%
55.0	9.998	4.632	1724.422	.226%	98.276%
60.0	9.246	4.448	1728.87	.217%	98.529%
65.0	8.705	4.364	1733.234	.213%	98.778%
70.0	8.381	4.326	1737.56	.211%	99.024%
75.0	8.107	4.310	1741.87	.210%	99.270%
80.0	7.931	4.291	1746.162	.209%	99.514%
85.0	7.812	4.278	1750.439	.209%	99.758%
90.0	7.678	4.241	1754.681	.207%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1414.09	68.98%	80.59%
0-40	1678.23	81.86%	95.64%
0-60	1728.87	84.34%	98.53%
0-90	1750.44	85.39%	99.76%
0-120	1750.44	85.39%	99.76%
0-180	1754.68	85.59%	100.00%
60-90	26.02	1.27%	1.48%
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%
0-29.75	1403.75	68.48%	80.00%

ZONAL LUMEN SUMMARY

0-10	322.10
10-20	635.30
20-30	456.69
30-40	264.14
40-50	41.56
50-60	9.08
60-70	8.69
70-80	8.60
80-90	4.28
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



C0(Max): —————

C0/C180: —————

C90/C270: —————

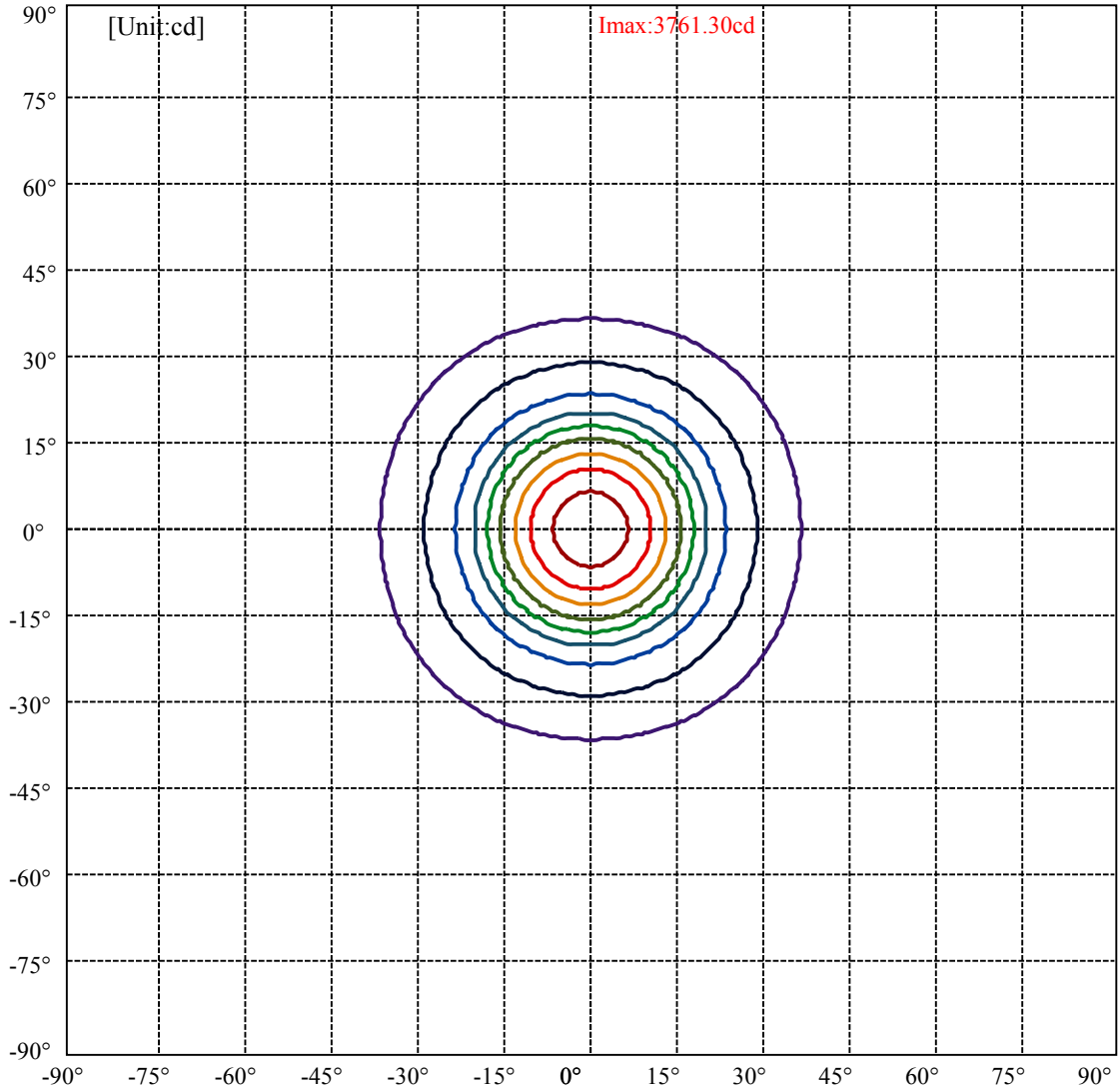
Field angle(10%Imax):C0/180Left:36.1 Right:36.1

:C90/270Left:36.1 Right:36.1

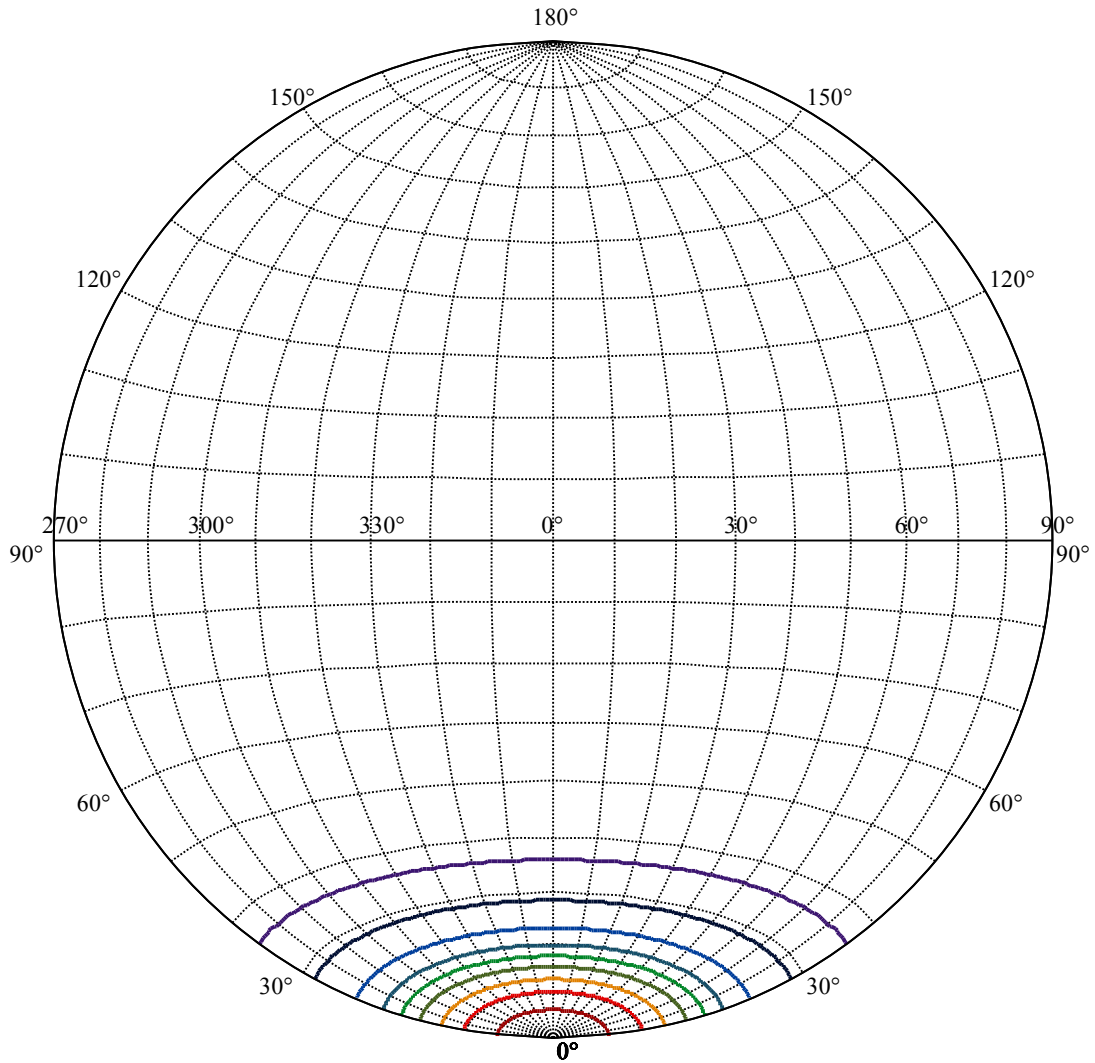
Beam Angle(50%Imax):C0/180Left:17.7 Right:17.7

:C90/270Left:17.7 Right:17.7





(10%Imax) 376.13	—
(20%Imax) 752.259	—
(30%Imax) 1128.39	—
(40%Imax) 1504.52	—
(50%Imax) 1880.65	—
(60%Imax) 2256.78	—
(70%Imax) 2632.91	—
(80%Imax) 3009.04	—
(90%Imax) 3385.17	—



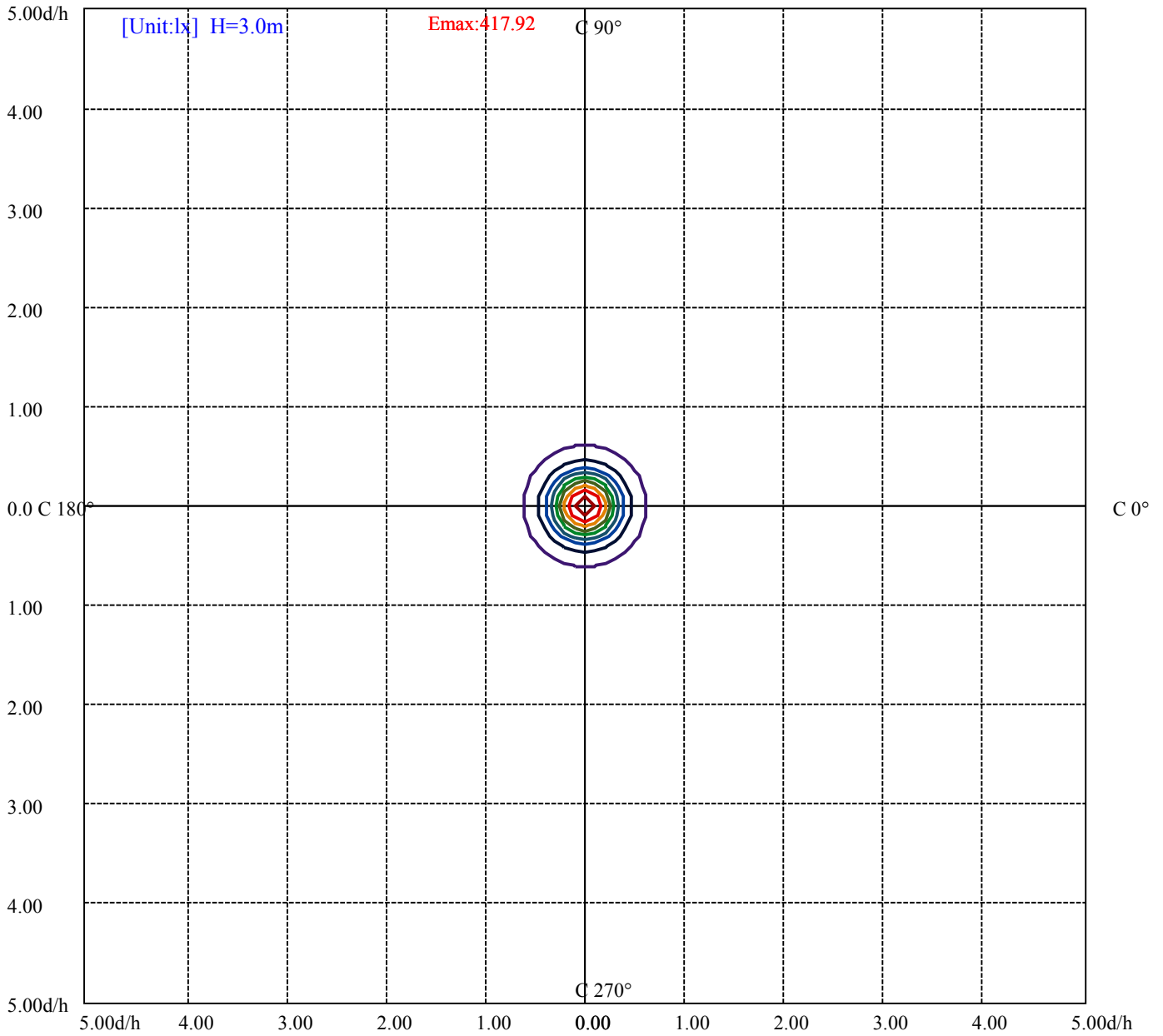
House

[Unit:cd]

Road

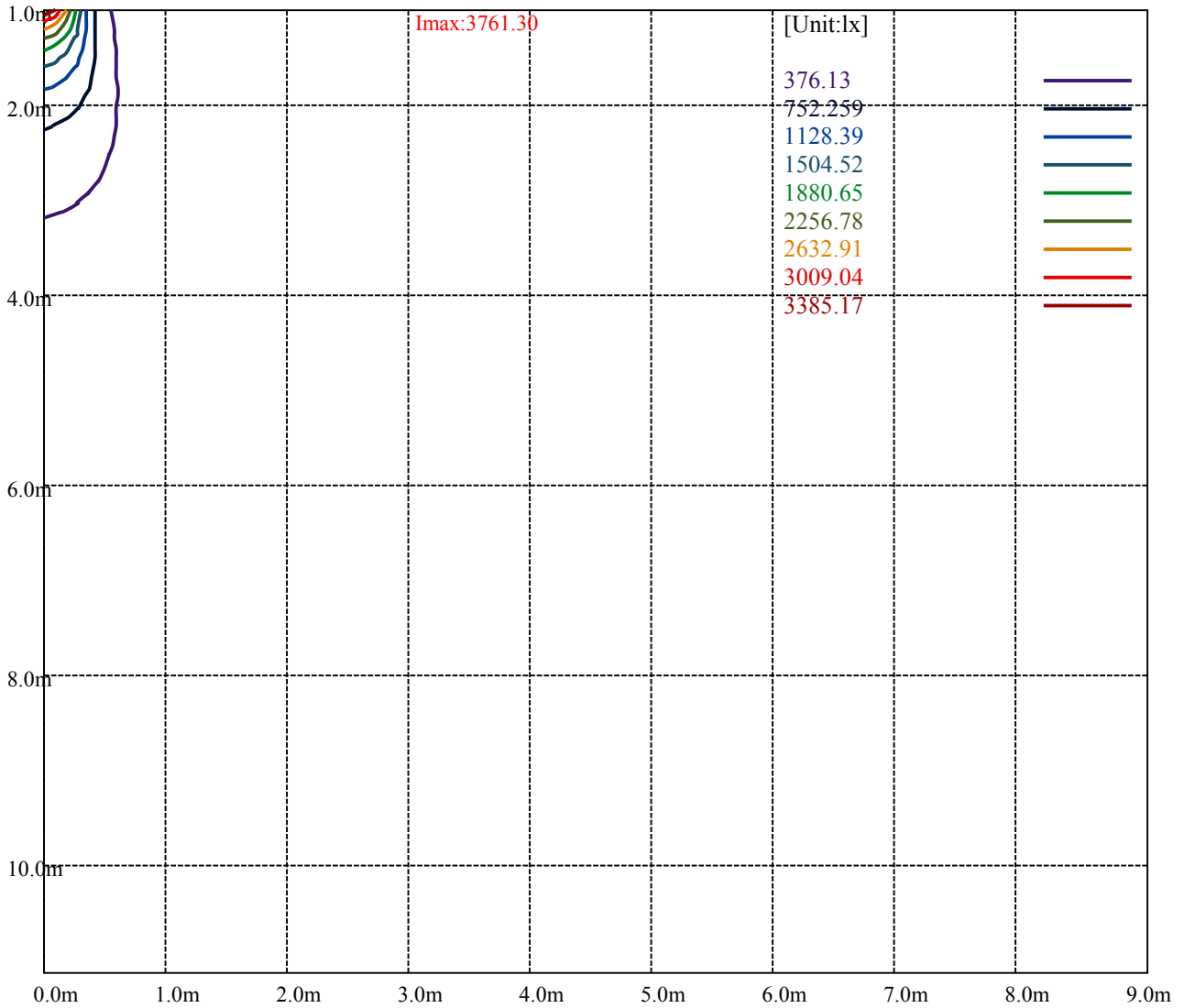
**Imax:3761.30**

(10%Imax)	376.13	—
(20%Imax)	752.259	—
(30%Imax)	1128.39	—
(40%Imax)	1504.52	—
(50%Imax)	1880.65	—
(60%Imax)	2256.78	—
(70%Imax)	2632.91	—
(80%Imax)	3009.04	—
(90%Imax)	3385.17	—



- (10%Emax) 41.79211
- (20%Emax) 83.58422
- (30%Emax) 125.3767
- (40%Emax) 167.1689
- (50%Emax) 208.96
- (60%Emax) 250.7522
- (70%Emax) 292.5444
- (80%Emax) 334.3367
- (90%Emax) 376.1289





Luminance Table

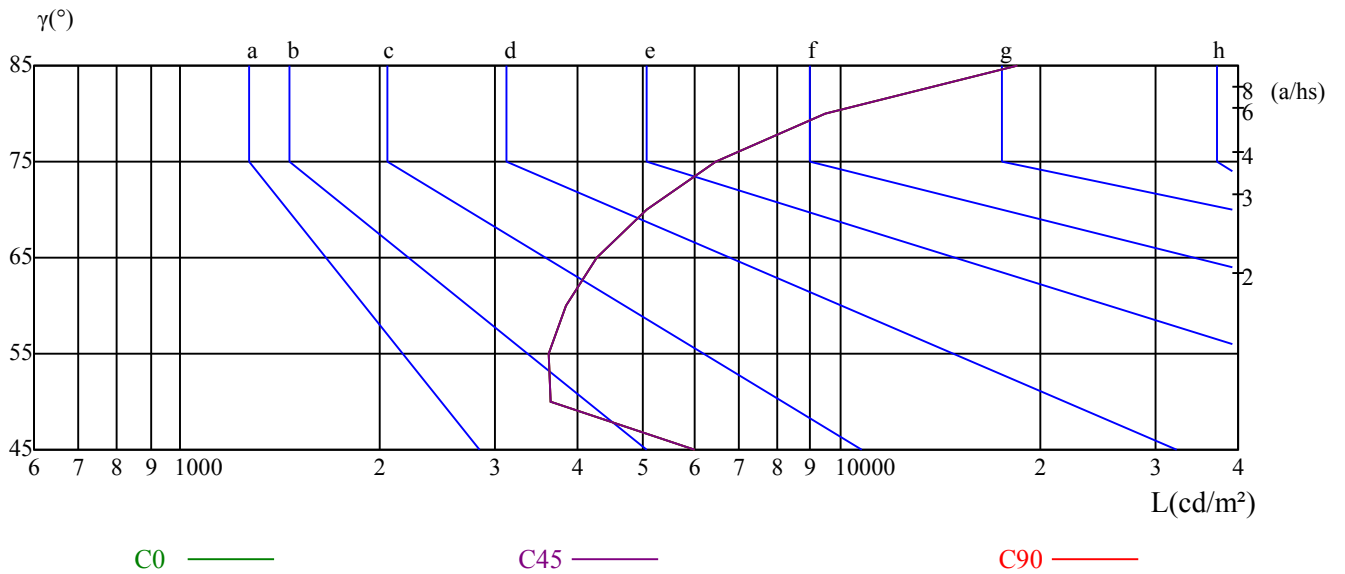
$\gamma$	45	50	55	60	65	70	75	80	85
C0	6024	3642	3609	3828	4264	5073	6485	9456	18556
C45	6024	3642	3609	3828	4264	5073	6485	9456	18556
C90	6024	3642	3609	3828	4264	5073	6485	9456	18556

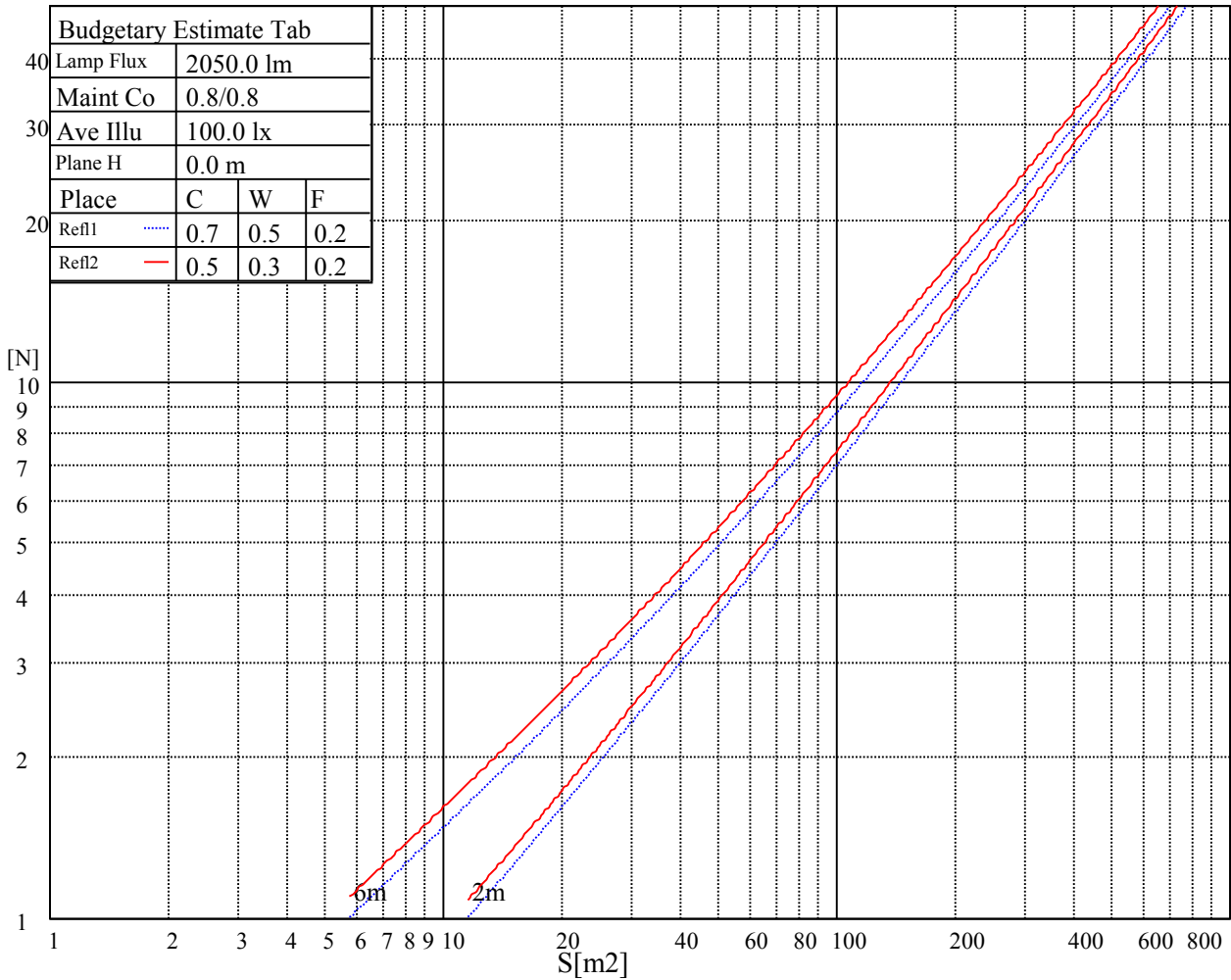
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4264	4264	4264	6485	6485	6485	18556	18556	18556

Glare Table

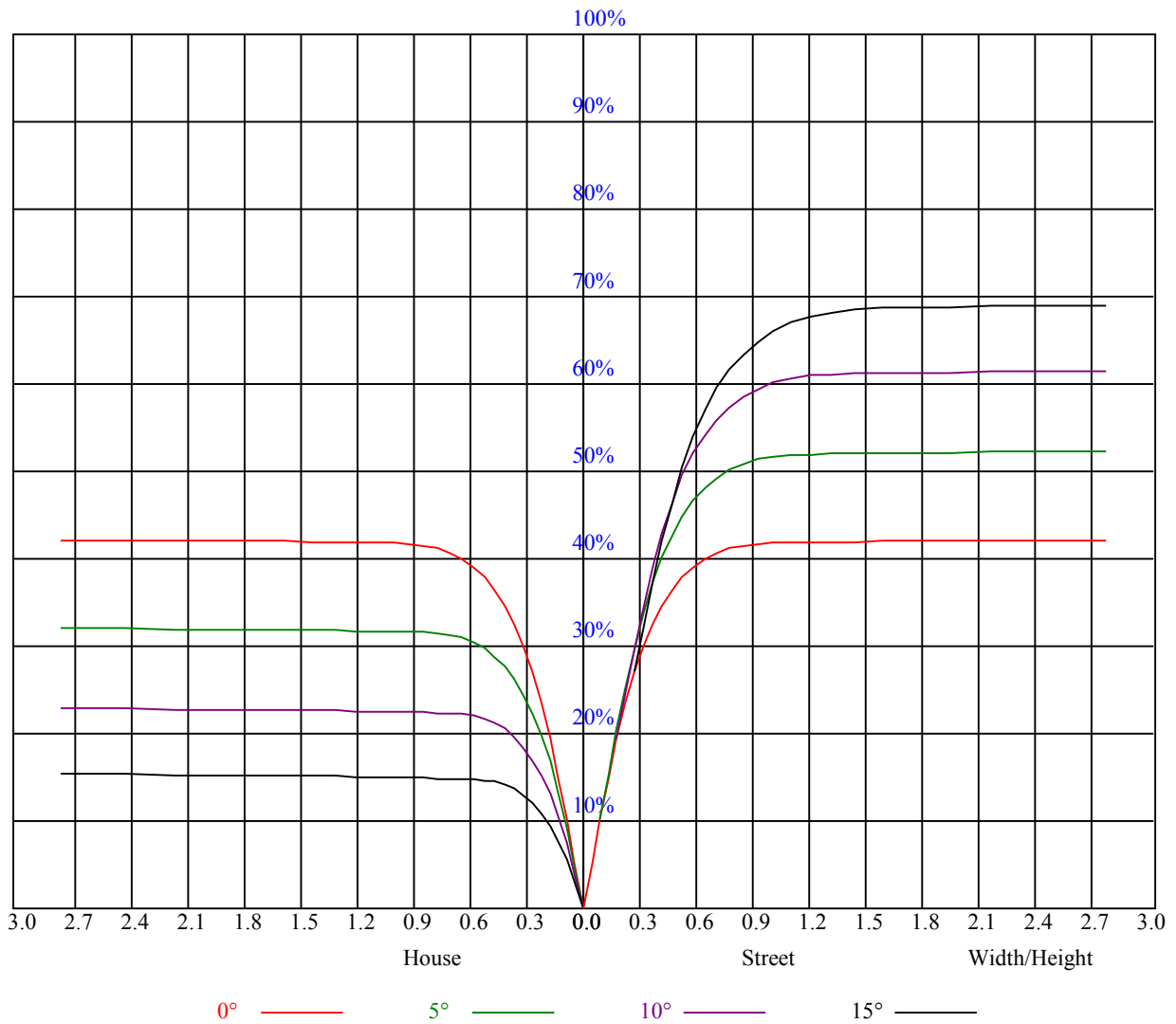
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

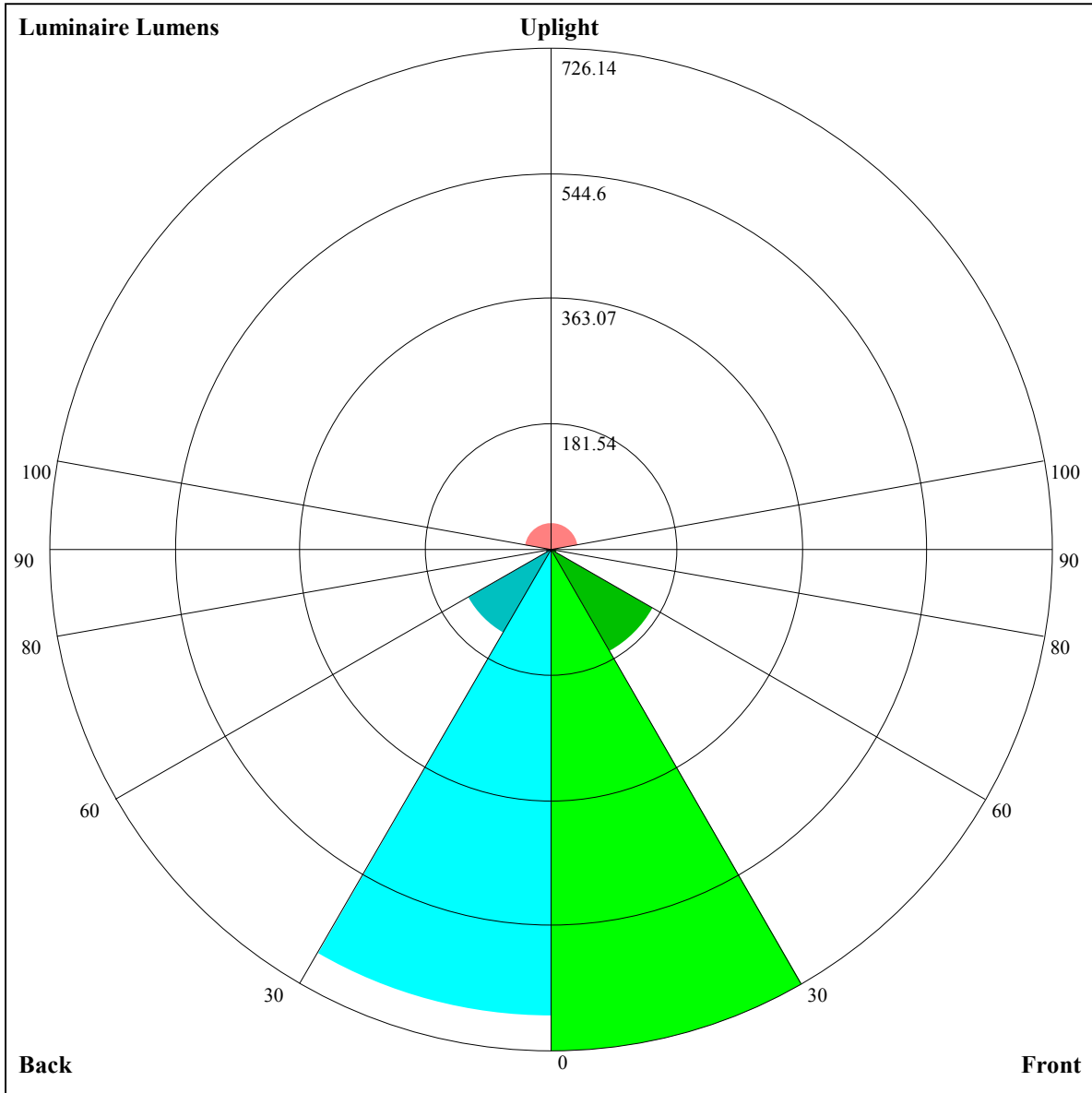
Luminance Limiting Curve





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	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.02	1.02	1.02	1.00	1.00	1.00	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.86
1	0.95	0.93	0.91	0.93	0.92	0.90	0.90	0.88	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
2	0.89	0.86	0.83	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.79	0.80	0.79	0.77	0.76
3	0.84	0.80	0.77	0.83	0.79	0.77	0.81	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.72
4	0.80	0.75	0.72	0.79	0.75	0.72	0.77	0.73	0.71	0.75	0.72	0.70	0.74	0.71	0.69	0.68
5	0.75	0.71	0.68	0.75	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.70	0.68	0.66	0.64
6	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.67	0.65	0.62	0.61
7	0.68	0.64	0.60	0.68	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.58
8	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.55
9	0.62	0.58	0.55	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.51





Luminaire Lumens:

FL=726.14,FM=171.76,FH=8.67,FVH=4.25

BL=675.14,BM=139.86,BH=8.61,BVH=4.26

UL=8.38,UH=39.87

BUG Rating:B2-U2-G0

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	3754.13	3638.81	3238.31	2529.56	1717.88	1007.44	722.25	535.50	300.38
45.0	3740.06	3643.31	3220.88	2557.13	1725.19	1009.13	727.88	519.75	297.56
90.0	3769.31	3498.19	3002.63	2235.94	1423.13	887.74	656.66	400.89	124.99
135.0	3781.69	3485.25	3022.31	2318.06	1511.44	935.44	674.44	415.13	135.39
180.0	3754.13	3413.25	2860.31	2151.00	1286.44	856.69	637.76	354.54	79.09
225.0	3740.06	3408.75	2880.00	2142.56	1101.43	848.87	639.96	334.97	70.42
270.0	3769.31	3525.19	3124.13	2415.94	1603.69	957.38	696.38	459.00	202.33
315.0	3781.69	3542.06	3062.81	2366.44	1541.25	914.51	679.61	441.11	142.59
360.0	3754.13	3638.81	3238.31	2529.56	1717.88	1007.44	722.25	535.50	300.38

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	26.61	12.09	10.29	9.45	8.83	8.49	8.16	7.99	7.82
45.0	25.37	11.76	10.29	9.51	8.89	8.49	8.21	8.04	7.82
90.0	18.73	11.03	9.90	9.23	8.66	8.38	8.10	7.88	7.76
135.0	20.31	11.36	10.13	9.34	8.72	8.38	8.10	7.93	7.82
180.0	16.37	11.03	9.90	9.17	8.72	8.38	8.10	7.93	7.88
225.0	14.85	10.91	9.79	9.06	8.55	8.27	8.04	7.88	7.88
270.0	19.97	11.19	9.84	9.17	8.66	8.33	8.10	7.93	7.76
315.0	22.39	11.08	9.84	9.06	8.61	8.33	8.04	7.88	7.76
360.0	26.61	12.09	10.29	9.45	8.83	8.49	8.16	7.99	7.82

C/γ(°)	90.0
0.0	7.71
45.0	7.65
90.0	7.65
135.0	7.71
180.0	7.71
225.0	7.65
270.0	7.65
315.0	7.71
360.0	7.71