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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Client:

LumCAT: 1679-S

Luminaire: 92.70.043.00

Report No: nt0100

Test No: GC2019122004

LampCAT: LUMINUS CXM-6-AC40

Lamp flux(lm): 823.0

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 34.8900

Current(A): 0.1970

Power (W): 6.8700

PF: 1.0000

Ballast type: DC

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 742.18, Efficiency(%): 90.18% , Luminous Efficacy(lm/W): 108.03

Central intensity(cd): 776.531, Maximum intensity(cd): 776.531

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=61.4

[C90/270]Total=61.4

Field angle(10%Imax): [C0/180]Total=88.2

[C90/270]Total=88.2

Maximum s/h(1/2): C0_180=0.91 C90_270=0.91

Maximum s/h(1/4): C0_180=0.93 C90_270=0.93

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.18%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.264%

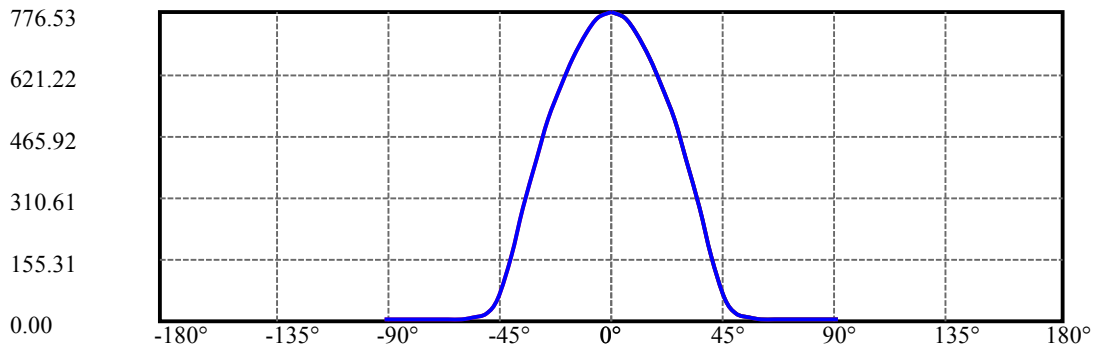
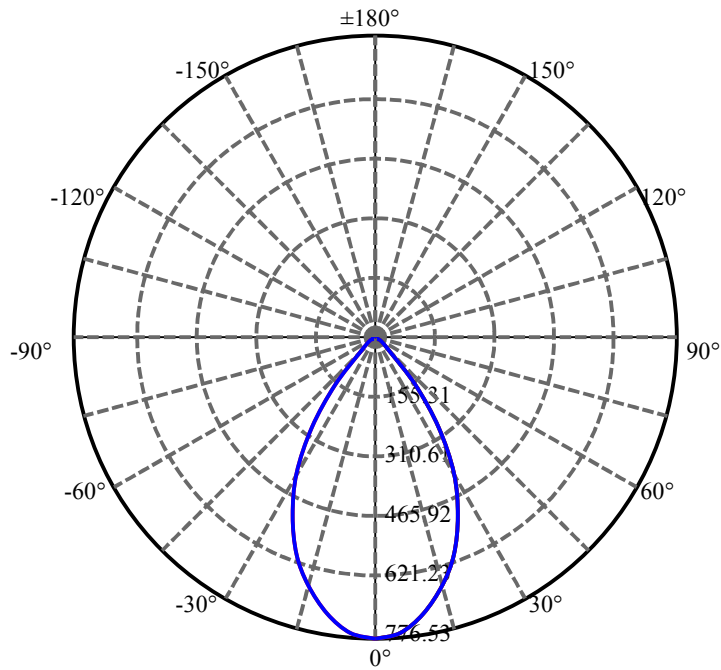
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	776.531	0.000	0	.000%	.000%
5.0	764.402	18.421	18.421	2.238%	2.482%
10.0	723.052	53.211	71.632	6.465%	9.652%
15.0	661.022	82.102	153.735	9.976%	20.714%
20.0	593.803	103.415	257.15	12.566%	34.648%
25.0	506.250	115.375	372.525	14.019%	50.194%
30.0	406.308	115.485	488.01	14.032%	65.754%
35.0	282.973	101.501	589.511	12.333%	79.430%
40.0	162.281	74.287	663.799	9.026%	89.440%
45.0	58.493	40.878	704.677	4.967%	94.948%
50.0	18.998	15.658	720.335	1.903%	97.057%
55.0	7.952	5.860	726.195	.712%	97.847%
60.0	5.435	3.094	729.29	.376%	98.264%
65.0	4.683	2.460	731.749	.299%	98.595%
70.0	4.352	2.288	734.037	.278%	98.903%
75.0	4.064	2.200	736.237	.267%	99.200%
80.0	3.832	2.113	738.35	.257%	99.485%
85.0	3.523	1.998	740.348	.243%	99.754%
90.0	3.150	1.827	742.175	.222%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	488.01	59.30%	65.75%
0-40	663.80	80.66%	89.44%
0-60	729.29	88.61%	98.26%
0-90	740.35	89.96%	99.75%
0-120	740.35	89.96%	99.75%
0-180	742.18	90.18%	100.00%
60-90	14.15	1.72%	1.91%
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%
0-35.28	593.74	72.14%	80.00%

ZONAL LUMEN SUMMARY

0-10	71.63
10-20	185.52
20-30	230.86
30-40	175.79
40-50	56.54
50-60	8.95
60-70	4.75
70-80	4.31
80-90	2.00
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: —————

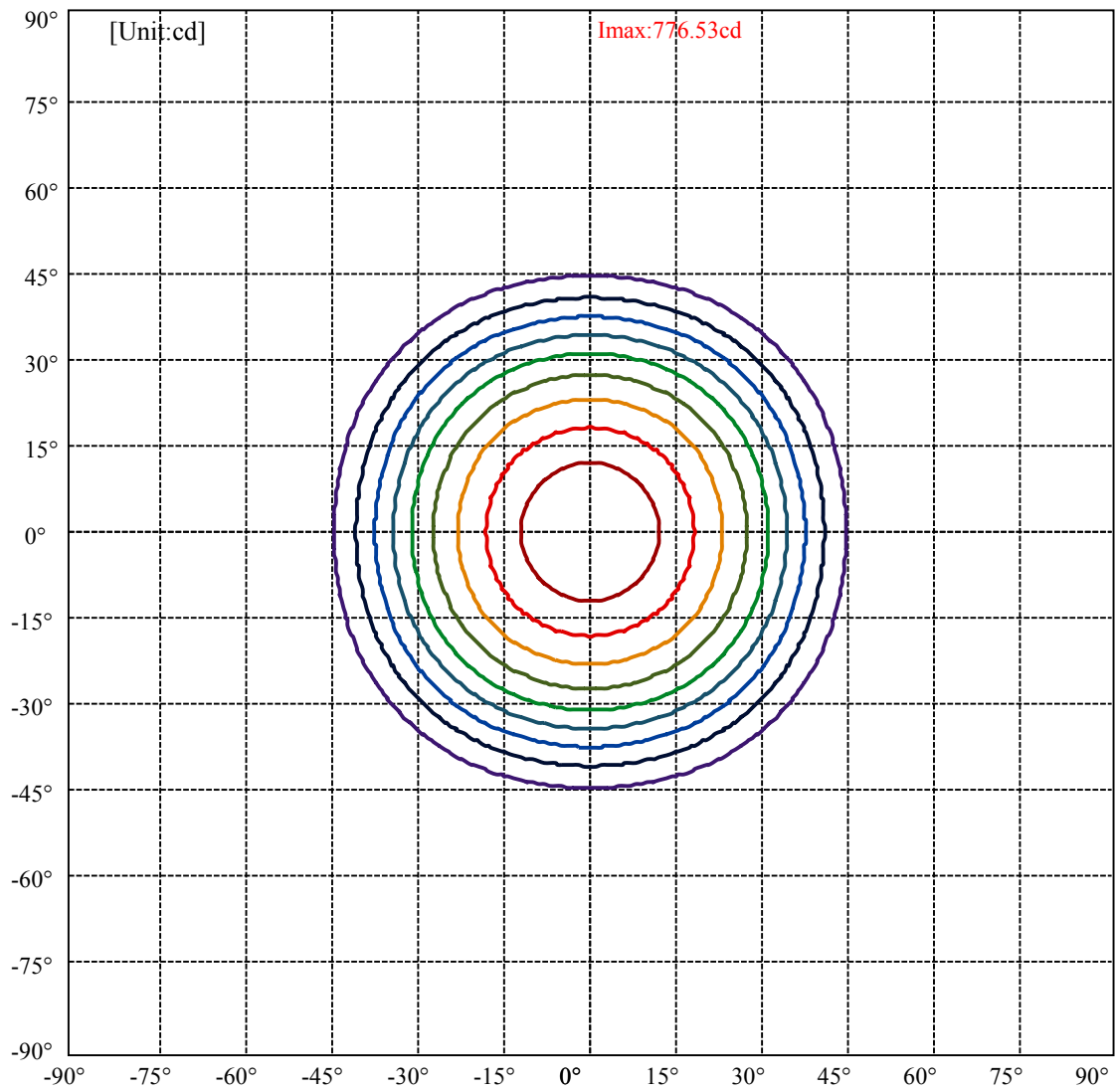
C90/C270: —————

Field angle(10%Imax):C0/180Left:44.1 Right:44.1

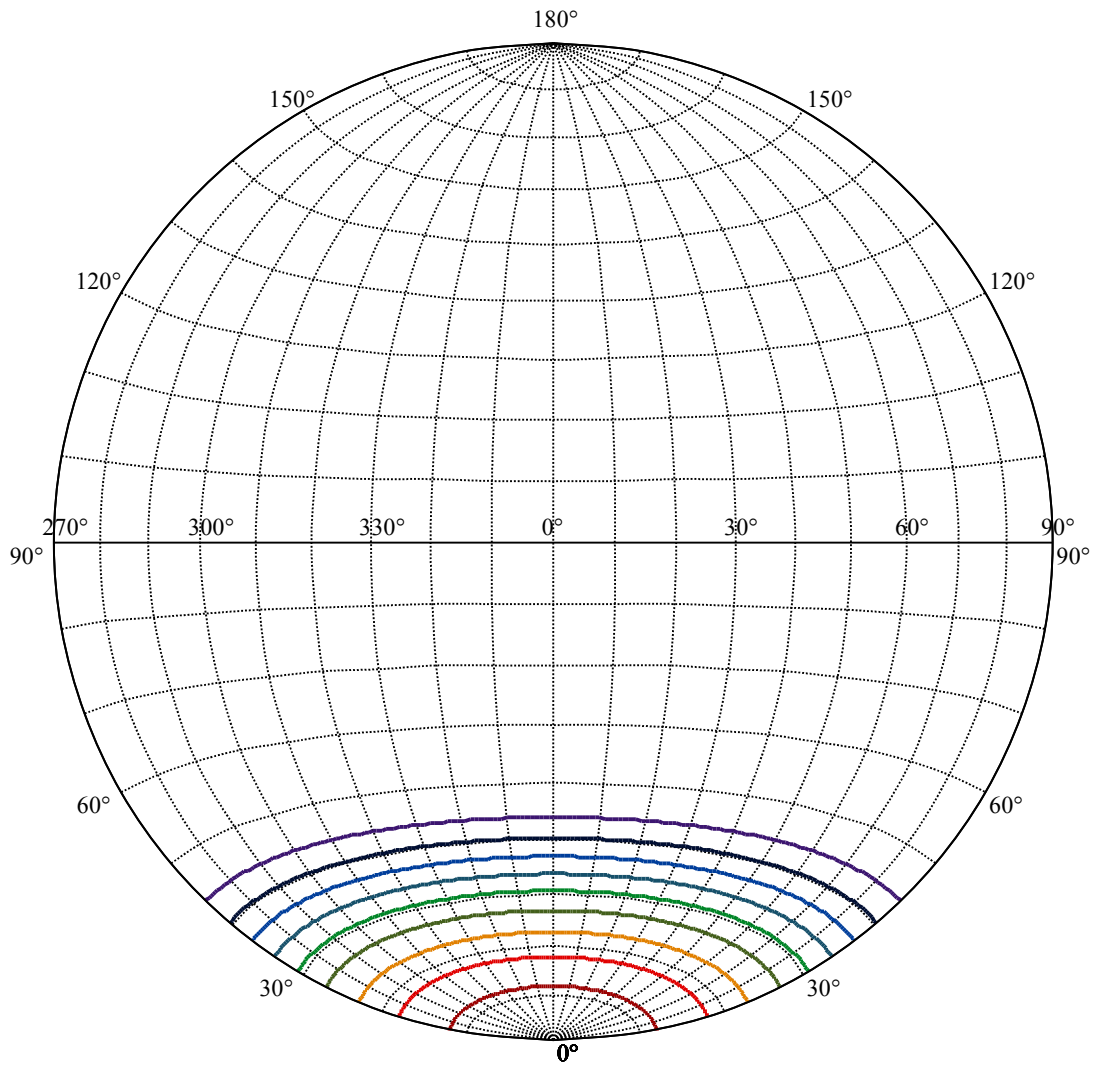
:C90/270Left:44.1 Right:44.1

Beam Angle(50%Imax):C0/180Left:30.7 Right:30.7

:C90/270Left:30.7 Right:30.7



(10%Imax) 77.6531	—
(20%Imax) 155.306	—
(30%Imax) 232.959	—
(40%Imax) 310.612	—
(50%Imax) 388.266	—
(60%Imax) 465.919	—
(70%Imax) 543.572	—
(80%Imax) 621.225	—
(90%Imax) 698.878	—



House

[Unit:cd]

Road

Imax:776.53

(10%Imax) 77.6531

(20%Imax) 155.306

(30%Imax) 232.959

(40%Imax) 310.612

(50%Imax) 388.266

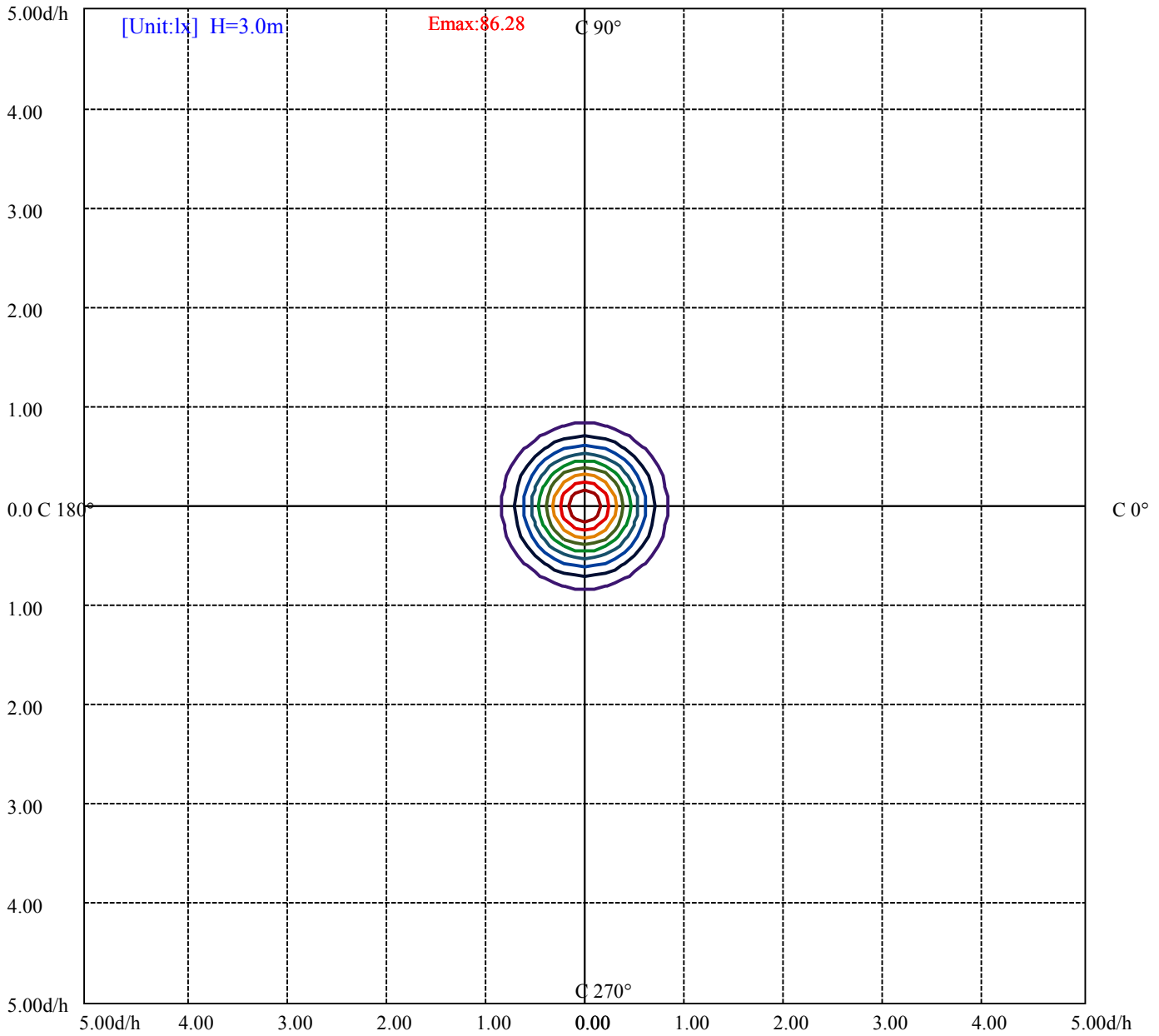
(60%Imax) 465.919

(70%Imax) 543.572

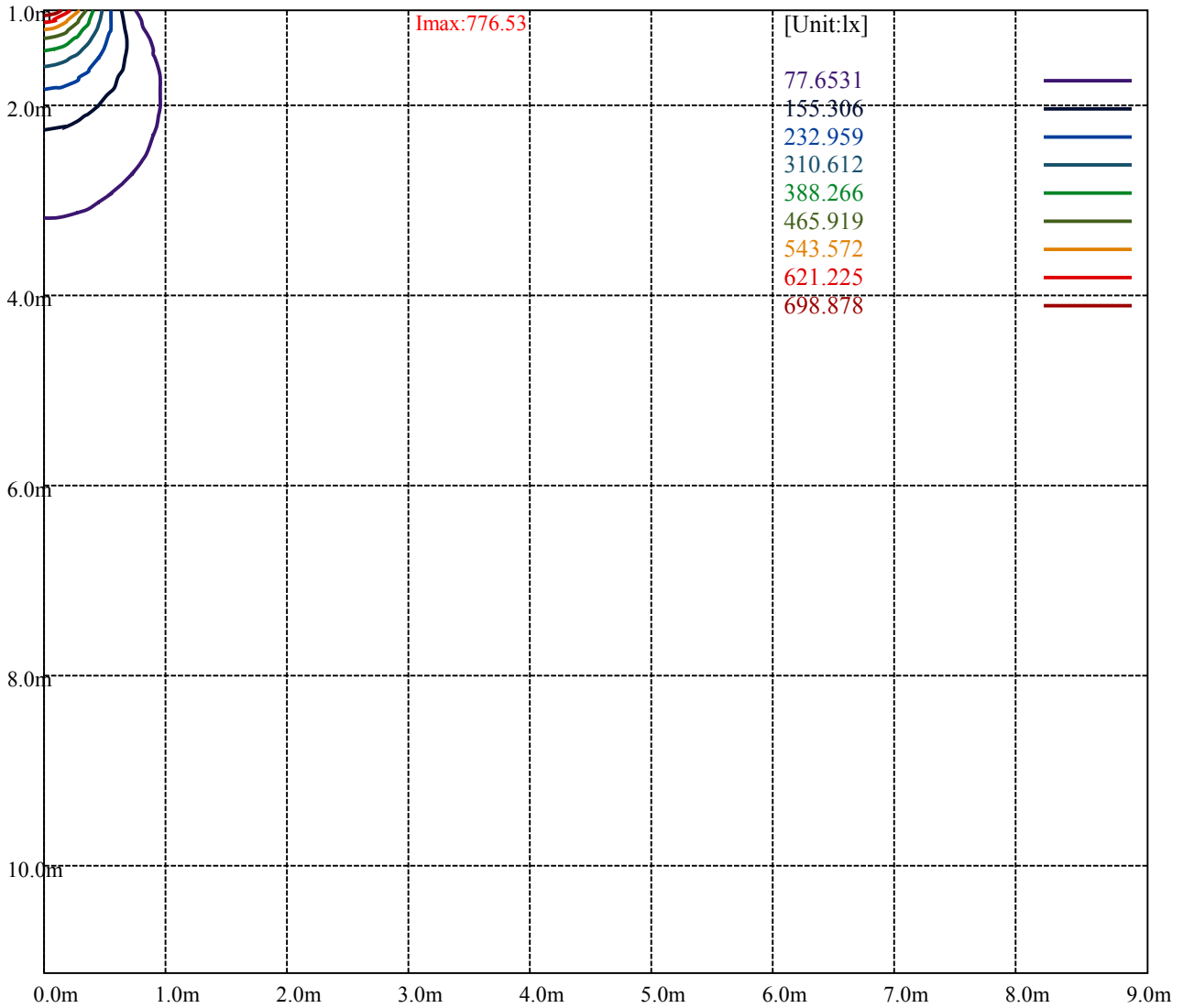
(80%Imax) 621.225

(90%Imax) 698.878





- (10%Emax) 8.628122
- (20%Emax) 17.25622
- (30%Emax) 25.88433
- (40%Emax) 34.51244
- (50%Emax) 43.14056
- (60%Emax) 51.76878
- (70%Emax) 60.39689
- (80%Emax) 69.02499
- (90%Emax) 77.65311



Luminance Table

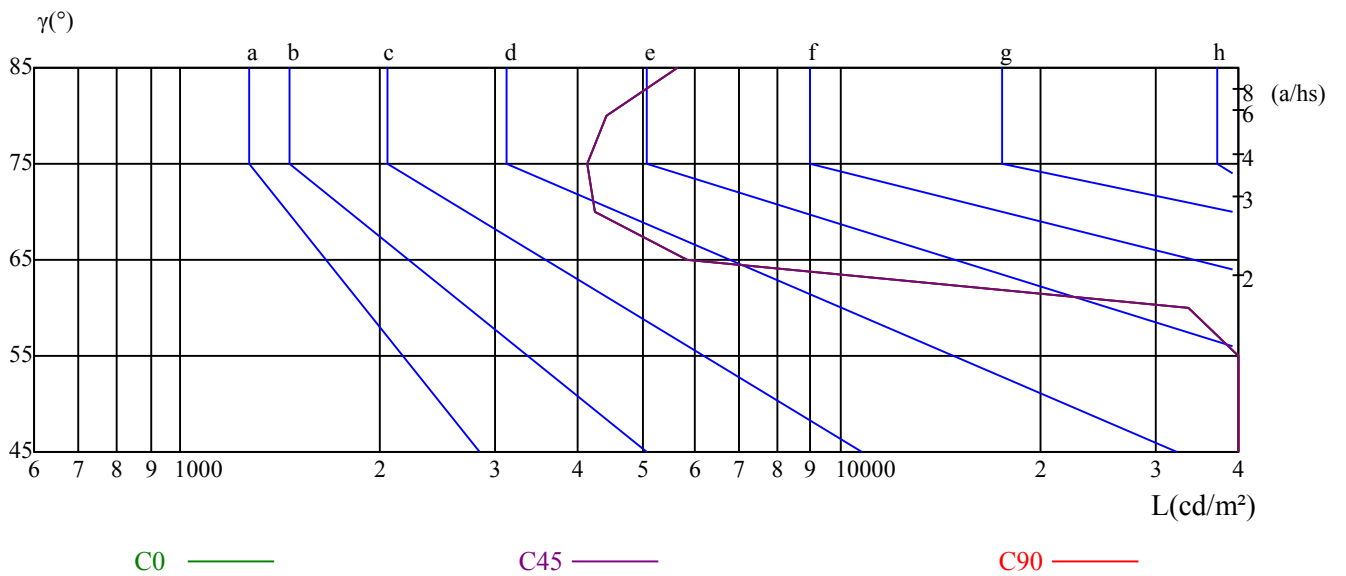
γ	45	50	55	60	65	70	75	80	85
C0	46650	52836	53885	33658	5848	4245	4131	4405	5640
C45	46650	52836	53885	33658	5848	4245	4131	4405	5640
C90	46650	52836	53885	33658	5848	4245	4131	4405	5640

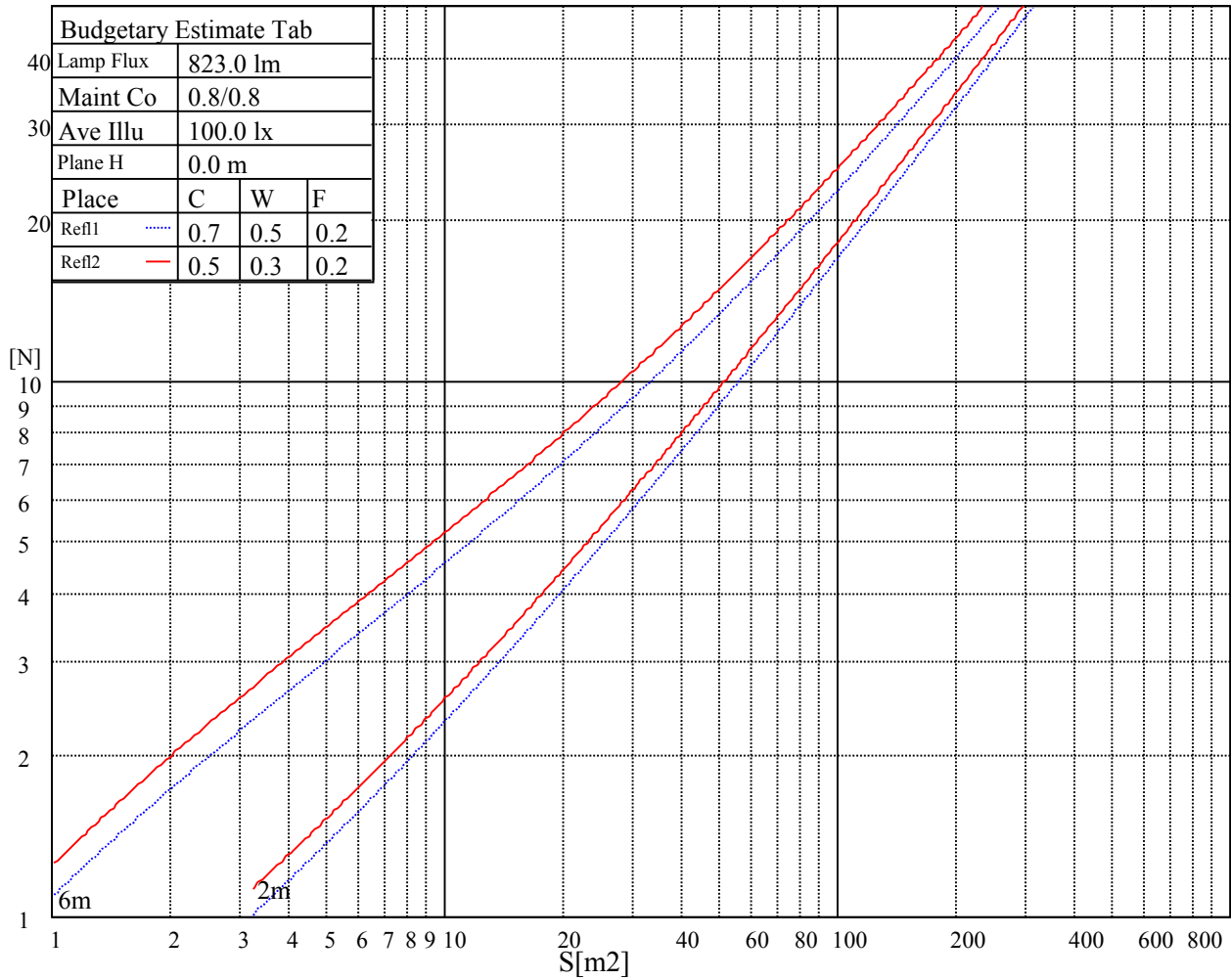
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5848	5848	5848	4131	4131	4131	5640	5640	5640

Glare Table

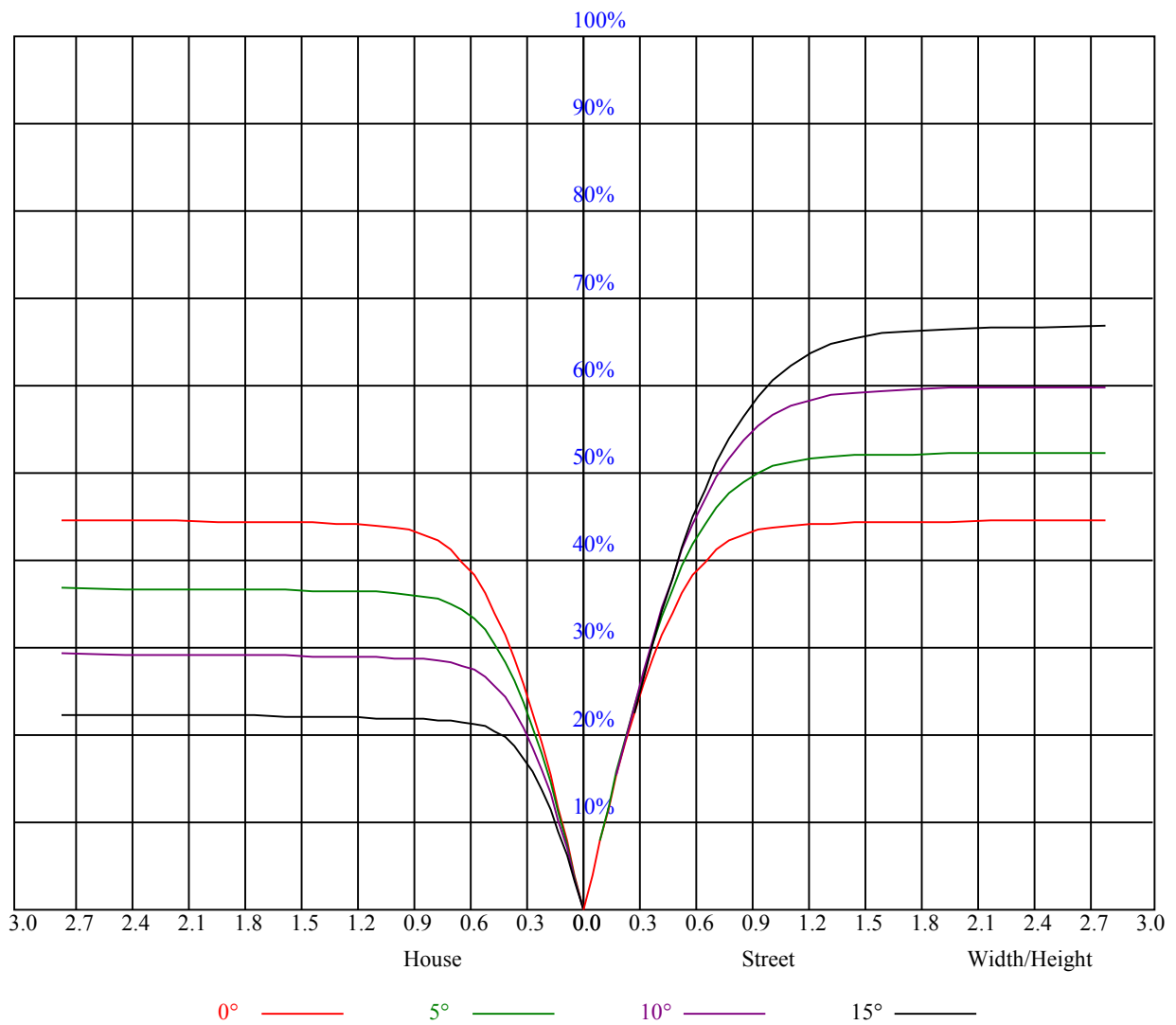
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

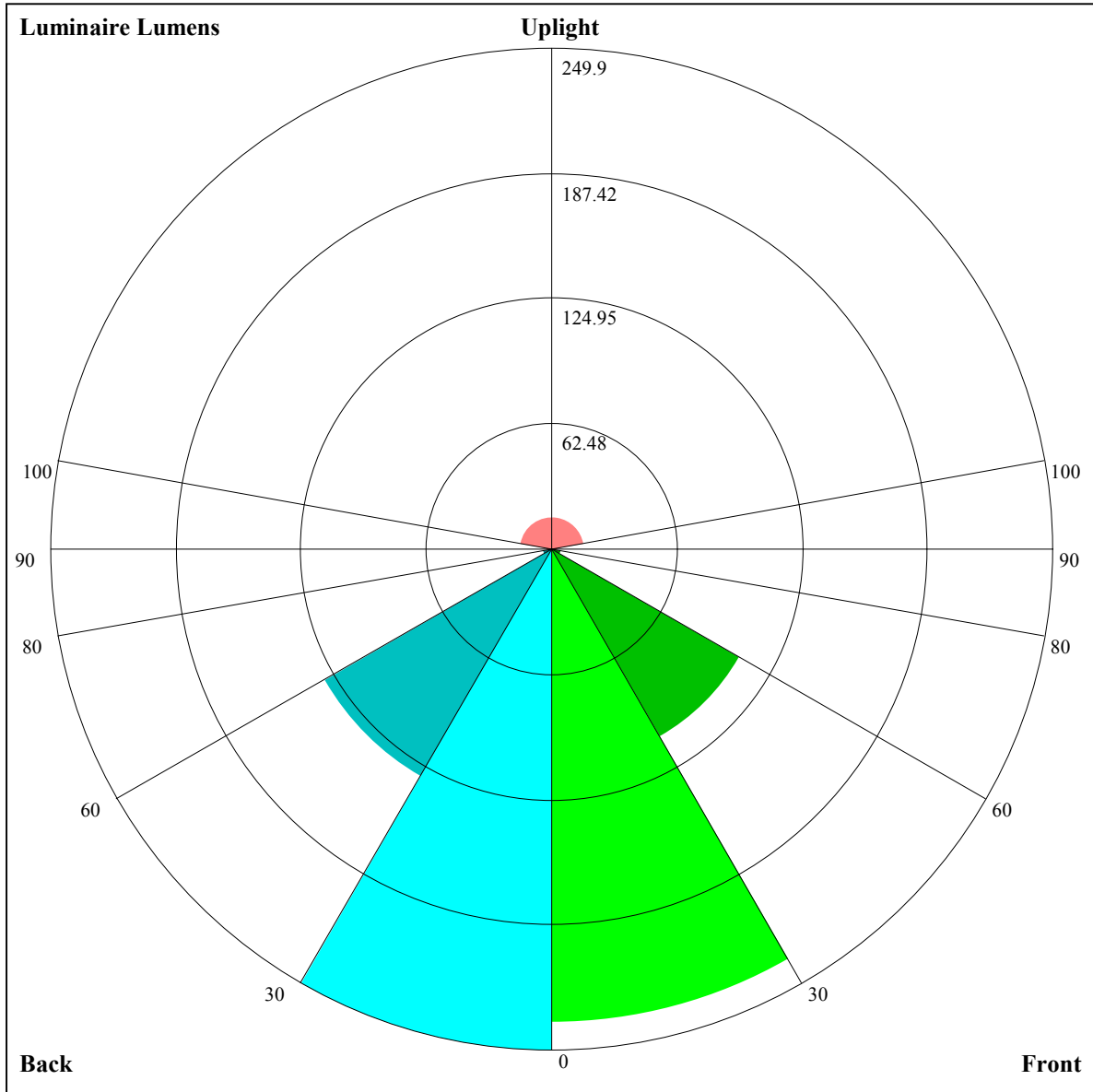
Luminance Limiting Curve





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	1.07	1.07	1.07	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	0.99	0.97	0.95	0.97	0.95	0.93	0.94	0.92	0.90	0.90	0.89	0.88	0.87	0.86	0.85	0.83
2	0.92	0.88	0.85	0.90	0.87	0.84	0.87	0.85	0.82	0.85	0.82	0.80	0.82	0.80	0.79	0.77
3	0.85	0.81	0.77	0.84	0.80	0.76	0.82	0.78	0.75	0.80	0.76	0.74	0.77	0.75	0.73	0.71
4	0.79	0.74	0.70	0.78	0.74	0.70	0.76	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.67	0.66
5	0.74	0.69	0.65	0.73	0.68	0.64	0.72	0.67	0.64	0.70	0.66	0.63	0.69	0.65	0.63	0.61
6	0.69	0.64	0.60	0.69	0.63	0.59	0.67	0.63	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.57
7	0.65	0.59	0.55	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.54	0.53
8	0.61	0.55	0.52	0.60	0.55	0.51	0.59	0.55	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.49
9	0.57	0.52	0.48	0.57	0.52	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.54	0.50	0.48	0.46
10	0.54	0.49	0.45	0.54	0.49	0.45	0.53	0.48	0.45	0.52	0.48	0.45	0.52	0.48	0.45	0.43





Luminaire Lumens:

FL=236.02,FM=107.77,FH=4.46,FVH=1.89

BL=249.9,BM=131.18,BH=4.61,BVH=1.93

UL=3.44,UH=16.36

BUG Rating:B1-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	775.24	751.95	696.43	631.97	570.66	483.19	382.22	263.53	129.15
45.0	780.30	758.48	700.48	629.10	554.51	464.96	358.99	230.40	125.33
90.0	775.46	756.00	705.71	646.76	572.46	472.73	365.85	233.83	124.14
135.0	775.13	773.27	746.10	684.00	621.90	533.70	446.01	322.88	203.96
180.0	775.24	772.88	750.54	690.58	625.61	543.32	442.35	326.81	198.68
225.0	780.30	778.33	750.66	693.11	621.45	532.07	436.33	311.74	189.84
270.0	775.46	773.04	735.92	679.16	608.91	528.08	434.98	315.56	193.61
315.0	775.13	751.28	698.57	633.49	574.93	491.96	383.74	259.03	133.54
360.0	775.24	751.95	696.43	631.97	570.66	483.19	382.22	263.53	129.15
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	36.28	13.33	6.41	4.89	4.44	4.22	3.94	3.77	3.43
45.0	37.69	13.67	6.69	5.23	4.61	4.28	3.99	3.71	3.43
90.0	41.57	15.41	7.65	5.51	4.78	4.39	4.05	3.83	3.43
135.0	79.37	23.34	8.94	5.79	4.89	4.56	4.22	3.99	3.60
180.0	81.56	25.59	9.00	5.63	4.73	4.33	4.05	3.83	3.54
225.0	79.82	24.64	9.22	5.79	4.84	4.44	4.11	3.88	3.60
270.0	73.91	22.73	9.28	5.68	4.67	4.33	4.05	3.83	3.60
315.0	37.74	13.28	6.41	4.95	4.50	4.28	4.11	3.83	3.54
360.0	36.28	13.33	6.41	4.89	4.44	4.22	3.94	3.77	3.43
C/γ(°)	90.0								
0.0	3.04								
45.0	3.09								
90.0	3.09								
135.0	3.21								
180.0	3.21								
225.0	3.26								
270.0	3.26								
315.0	3.04								
360.0	3.04								