
Client:

LumCAT: LM01D03040AE

Luminaire:

Report No: nt0100

Voltage(V): 34.9000

Test No: GC2019122013

Current(A): 0.1970

LampCAT: LUMINUS CXM-6-AC40

Power (W): 6.8700

Lamp flux(lm): 861.0

PF: 1.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 773.67, Efficiency(%): 89.86% , Luminous Efficacy(lm/W): 112.62

Central intensity(cd): 1179.703, Maximum intensity(cd): 1179.703

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=41.8

[C90/270]Total=41.8

Field angle(10%Imax): [C0/180]Total=78.0

[C90/270]Total=78.0

Maximum s/h(1/2): C0_180=0.67 C90_270=0.67

Maximum s/h(1/4): C0_180=0.68 C90_270=0.68

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 89.86%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 94.360%

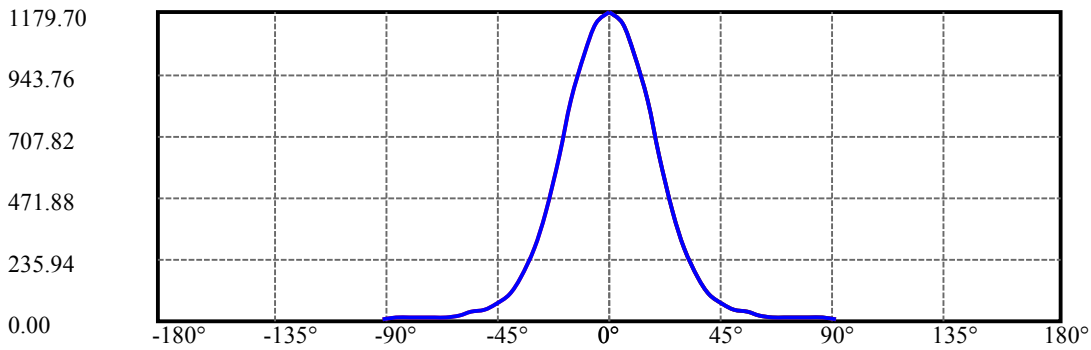
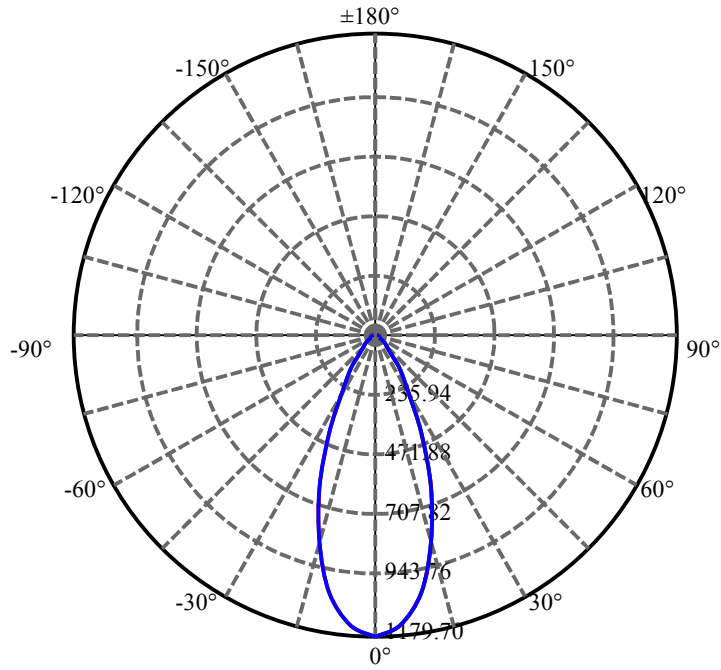
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1179.703	0.000	0	.000%	.000%
5.0	1135.927	27.683	27.683	3.215%	3.578%
10.0	1021.591	77.181	104.864	8.964%	13.554%
15.0	843.356	110.627	215.491	12.849%	27.853%
20.0	629.086	121.350	336.841	14.094%	43.538%
25.0	420.279	110.059	446.9	12.783%	57.763%
30.0	275.105	88.001	534.902	10.221%	69.138%
35.0	167.449	65.169	600.071	7.569%	77.561%
40.0	106.228	45.661	645.732	5.303%	83.463%
45.0	66.220	31.930	677.662	3.709%	87.590%
50.0	44.227	22.317	699.979	2.592%	90.475%
55.0	33.476	16.895	716.874	1.962%	92.659%
60.0	23.491	13.168	730.042	1.529%	94.361%
65.0	16.798	9.794	739.837	1.138%	95.626%
70.0	14.358	7.889	747.725	.916%	96.646%
75.0	12.691	7.070	754.796	.821%	97.560%
80.0	13.451	6.995	761.791	.812%	98.464%
85.0	12.136	6.953	768.743	.807%	99.363%
90.0	5.871	4.930	773.674	.573%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	534.90	62.13%	69.14%
0-40	645.73	75.00%	83.46%
0-60	730.04	84.79%	94.36%
0-90	768.74	89.28%	99.36%
0-120	768.74	89.28%	99.36%
0-180	773.67	89.86%	100.00%
60-90	51.87	6.02%	6.70%
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%
0-37.07	618.94	71.89%	80.00%

ZONAL LUMEN SUMMARY

0-10	104.86
10-20	231.98
20-30	198.06
30-40	110.83
40-50	54.25
50-60	30.06
60-70	17.68
70-80	14.07
80-90	6.95
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



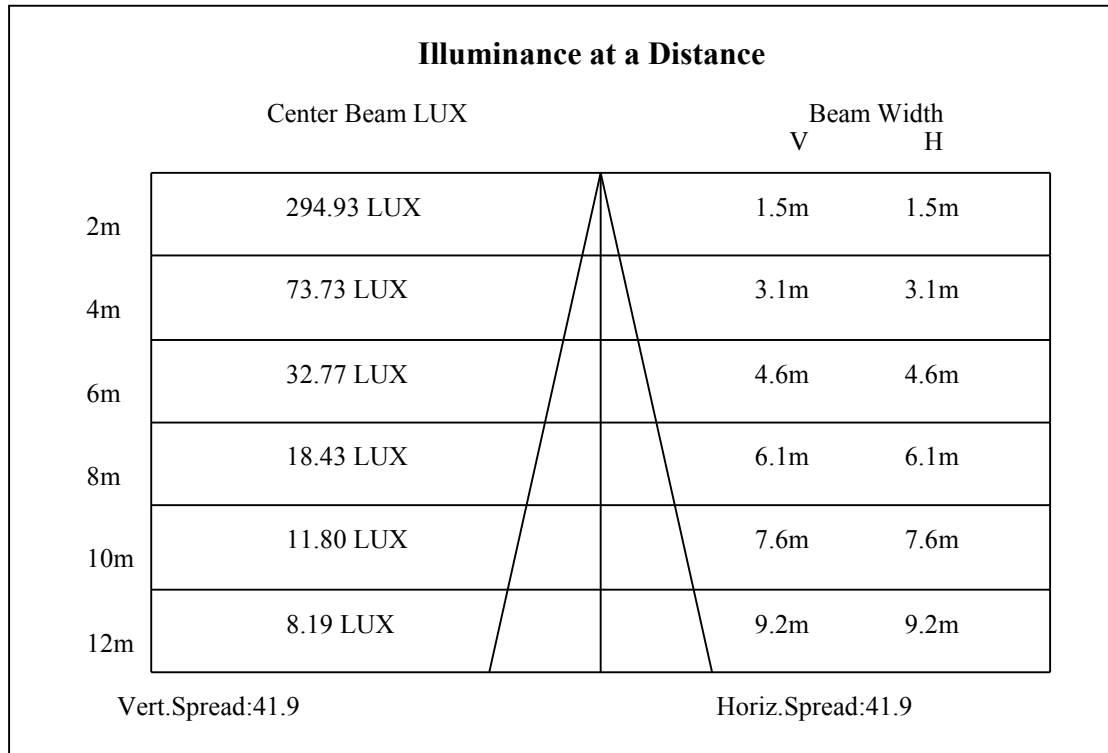
C0(Max): —————

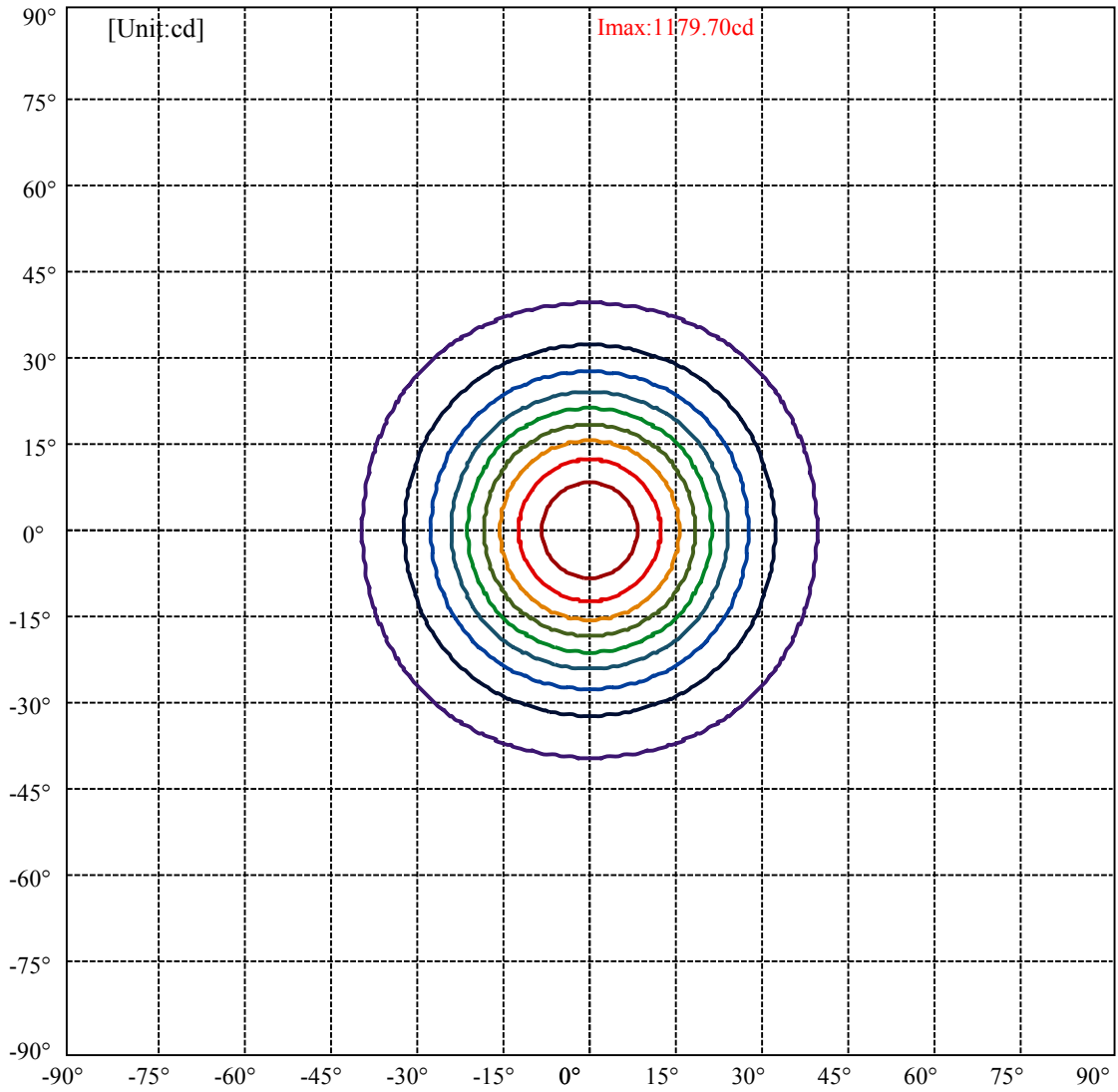
C0/C180: —————

C90/C270: —————

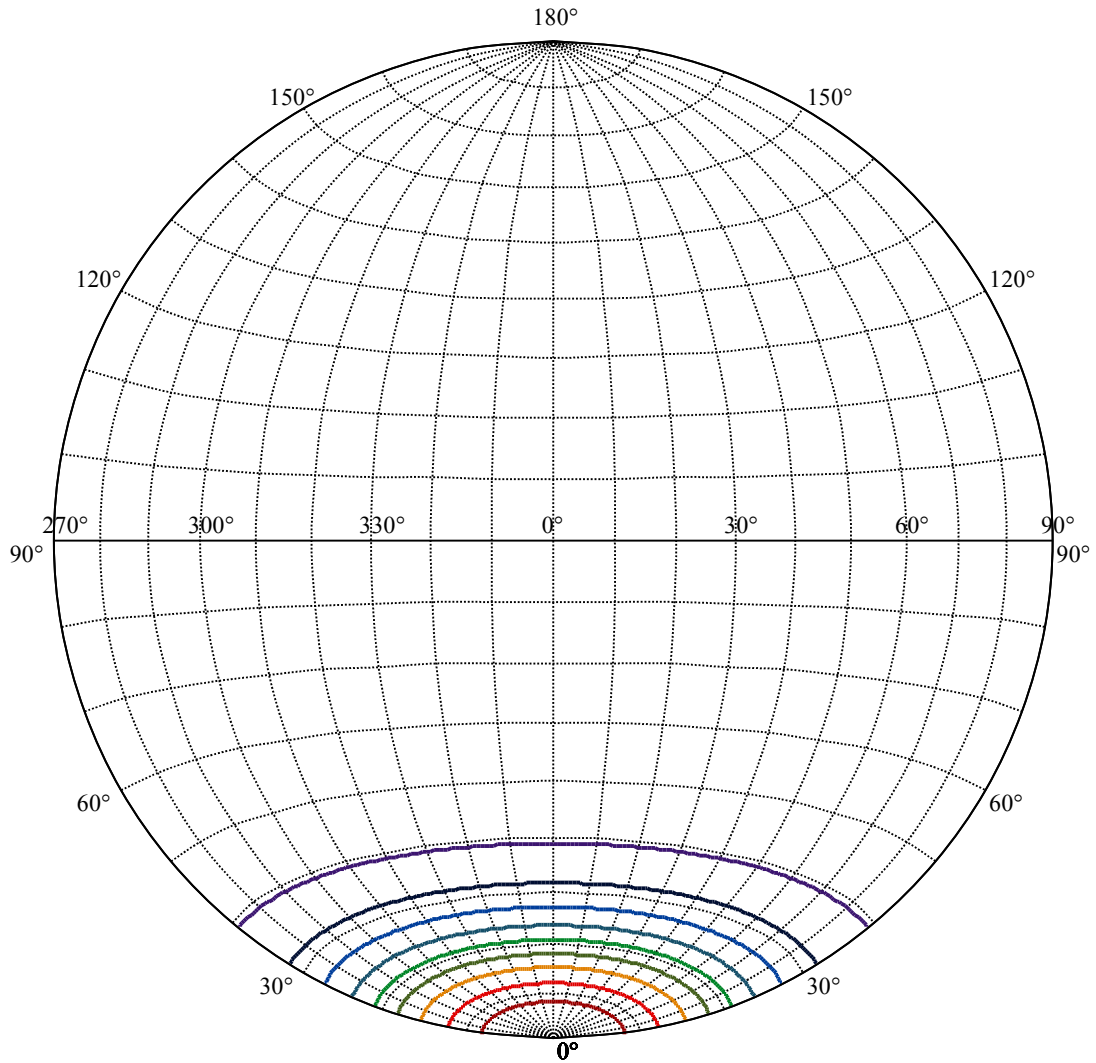
Field angle(10%Imax):C0/180Left:39.0 Right:39.0
:C90/270Left:39.0 Right:39.0

Beam Angle(50%Imax):C0/180Left:20.9 Right:20.9
:C90/270Left:20.9 Right:20.9





(10%Imax) 117.97	—
(20%Imax) 235.941	—
(30%Imax) 353.911	—
(40%Imax) 471.881	—
(50%Imax) 589.852	—
(60%Imax) 707.822	—
(70%Imax) 825.792	—
(80%Imax) 943.762	—
(90%Imax) 1061.73	—



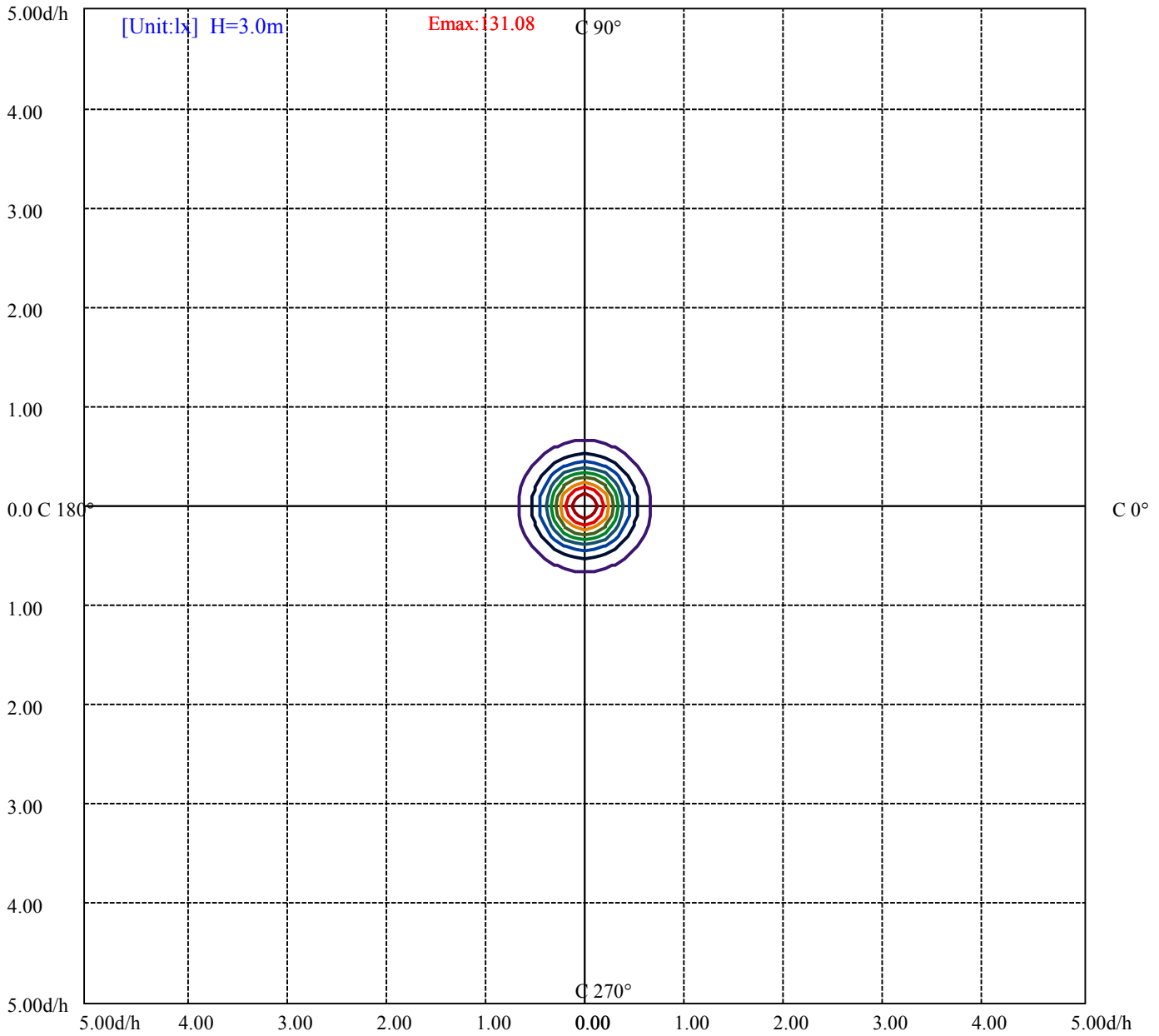
House

[Unit:cd]

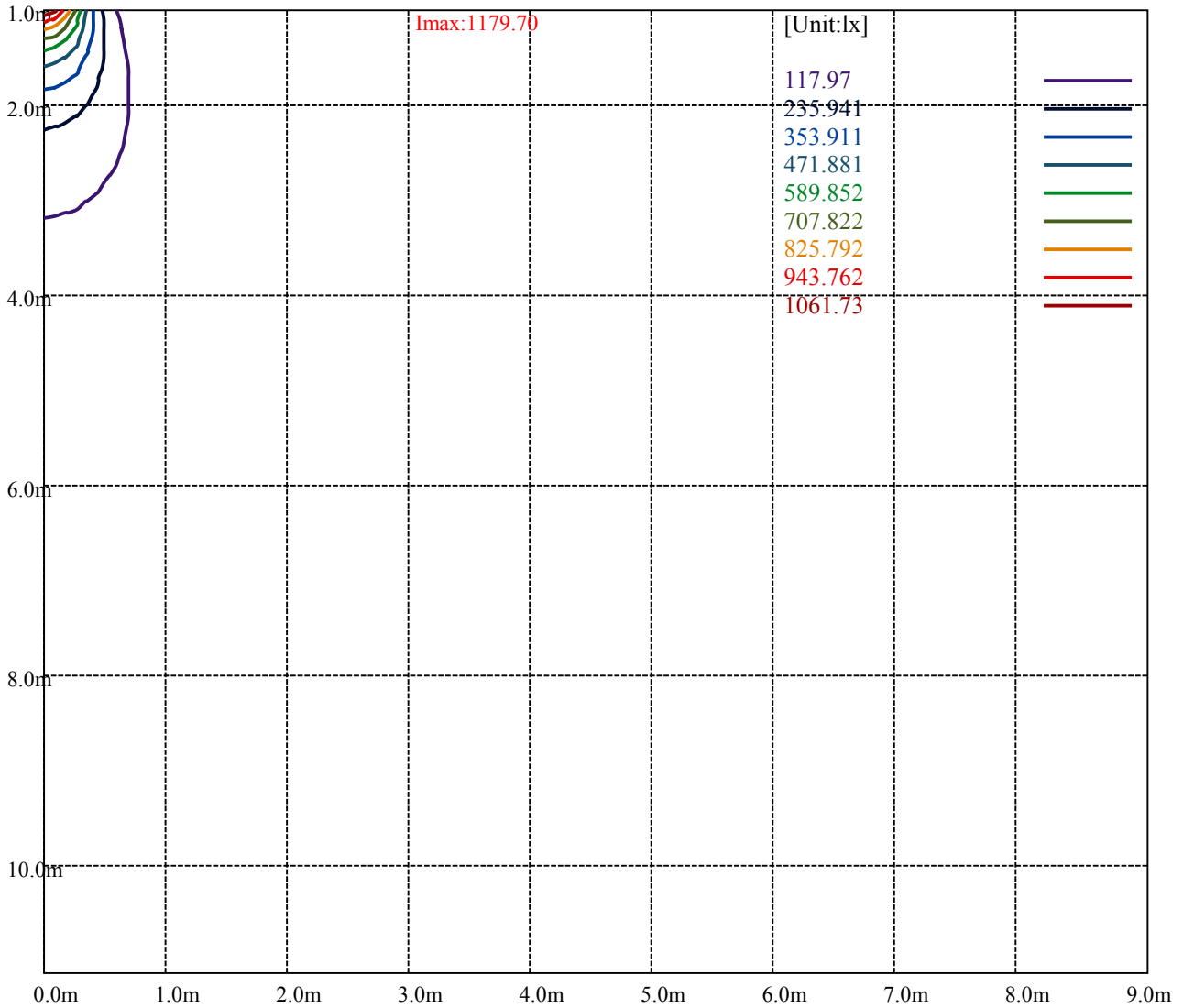
Road

Imax:1179.70

(10%Imax) 117.97	—
(20%Imax) 235.941	—
(30%Imax) 353.911	—
(40%Imax) 471.881	—
(50%Imax) 589.852	—
(60%Imax) 707.822	—
(70%Imax) 825.792	—
(80%Imax) 943.762	—
(90%Imax) 1061.73	—



- (10%Emax) 13.10778
- (20%Emax) 26.21556
- (30%Emax) 39.32333
- (40%Emax) 52.43122
- (50%Emax) 65.539
- (60%Emax) 78.64677
- (70%Emax) 91.75455
- (80%Emax) 104.8623
- (90%Emax) 117.97



Luminance Table

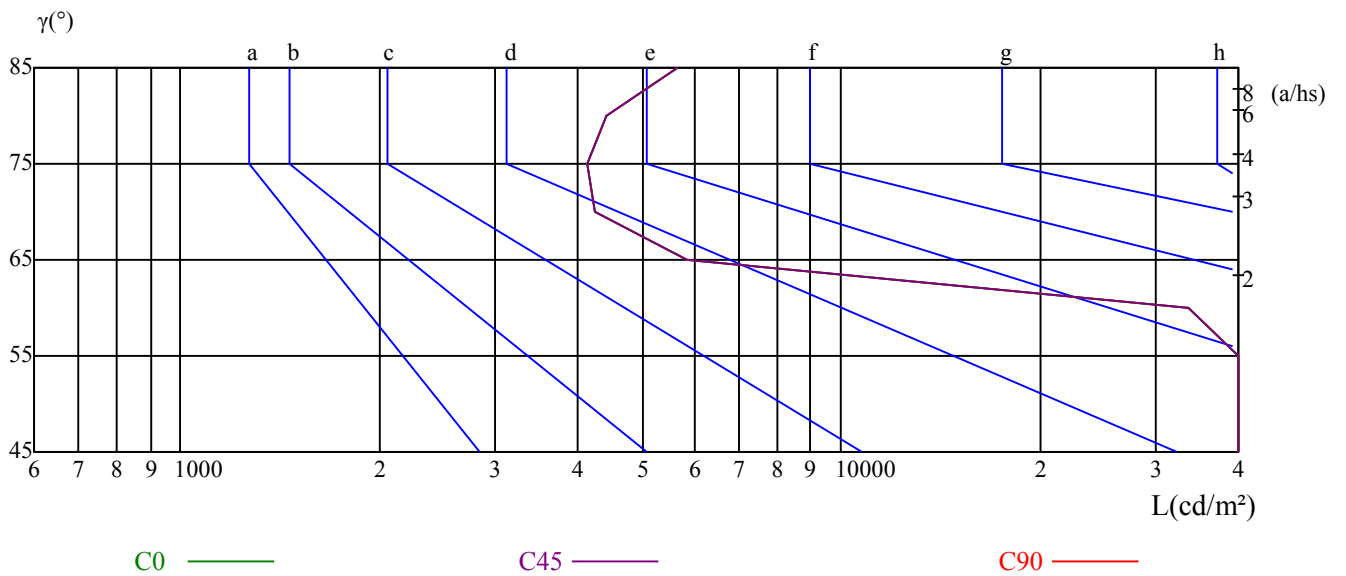
γ	45	50	55	60	65	70	75	80	85
C0	46650	52836	53885	33658	5848	4245	4131	4405	5640
C45	46650	52836	53885	33658	5848	4245	4131	4405	5640
C90	46650	52836	53885	33658	5848	4245	4131	4405	5640

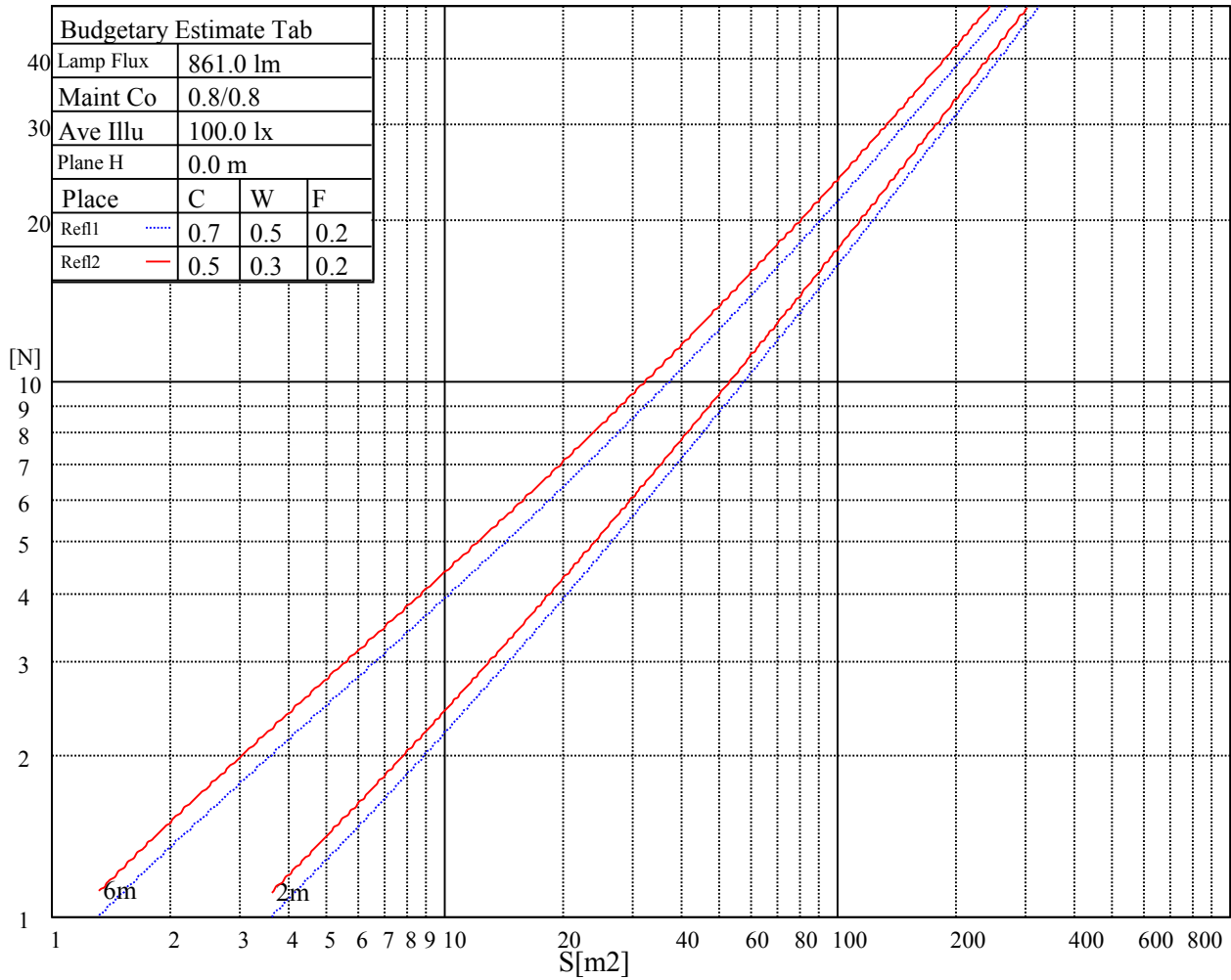
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5848	5848	5848	4131	4131	4131	5640	5640	5640

Glare Table

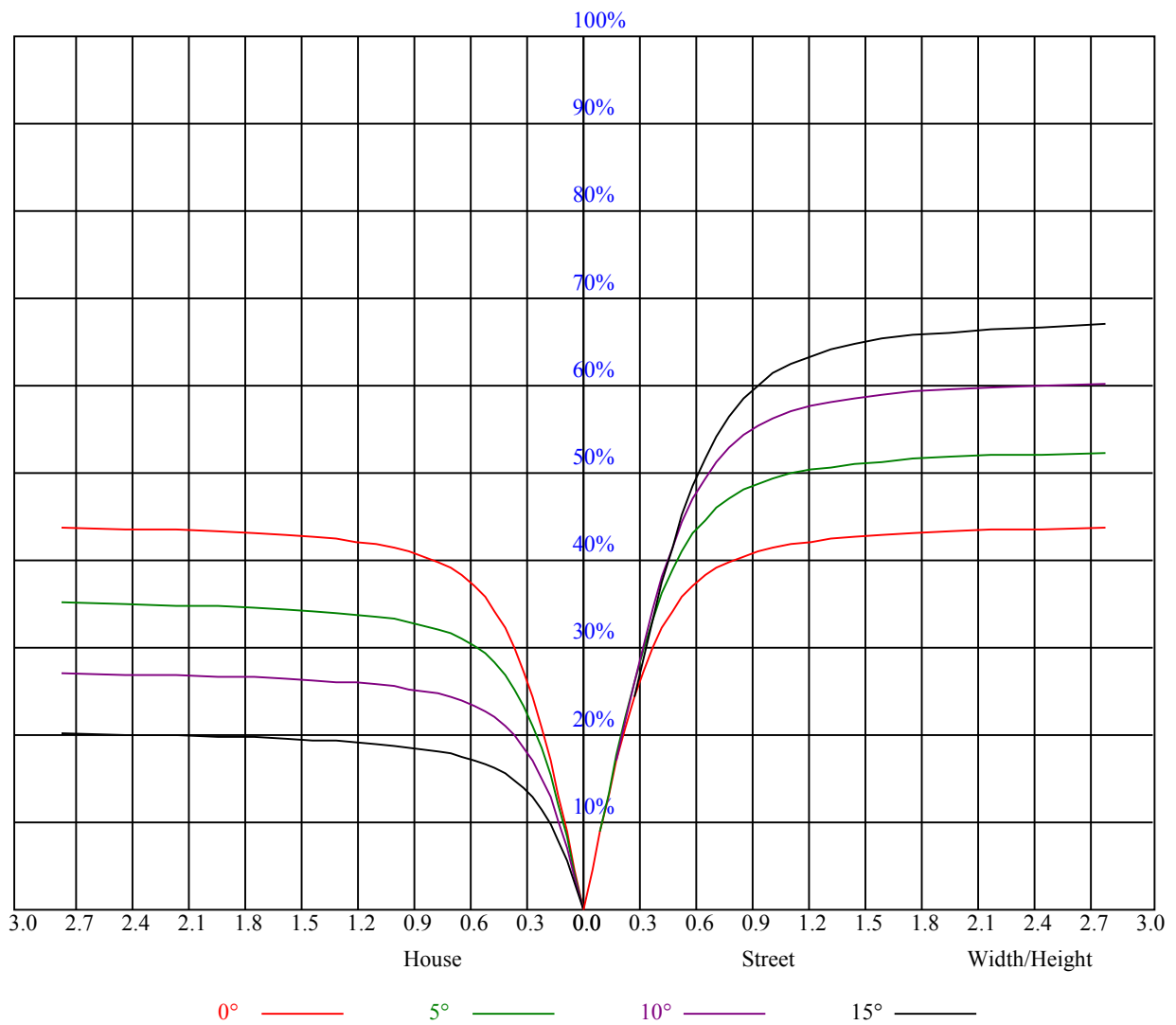
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

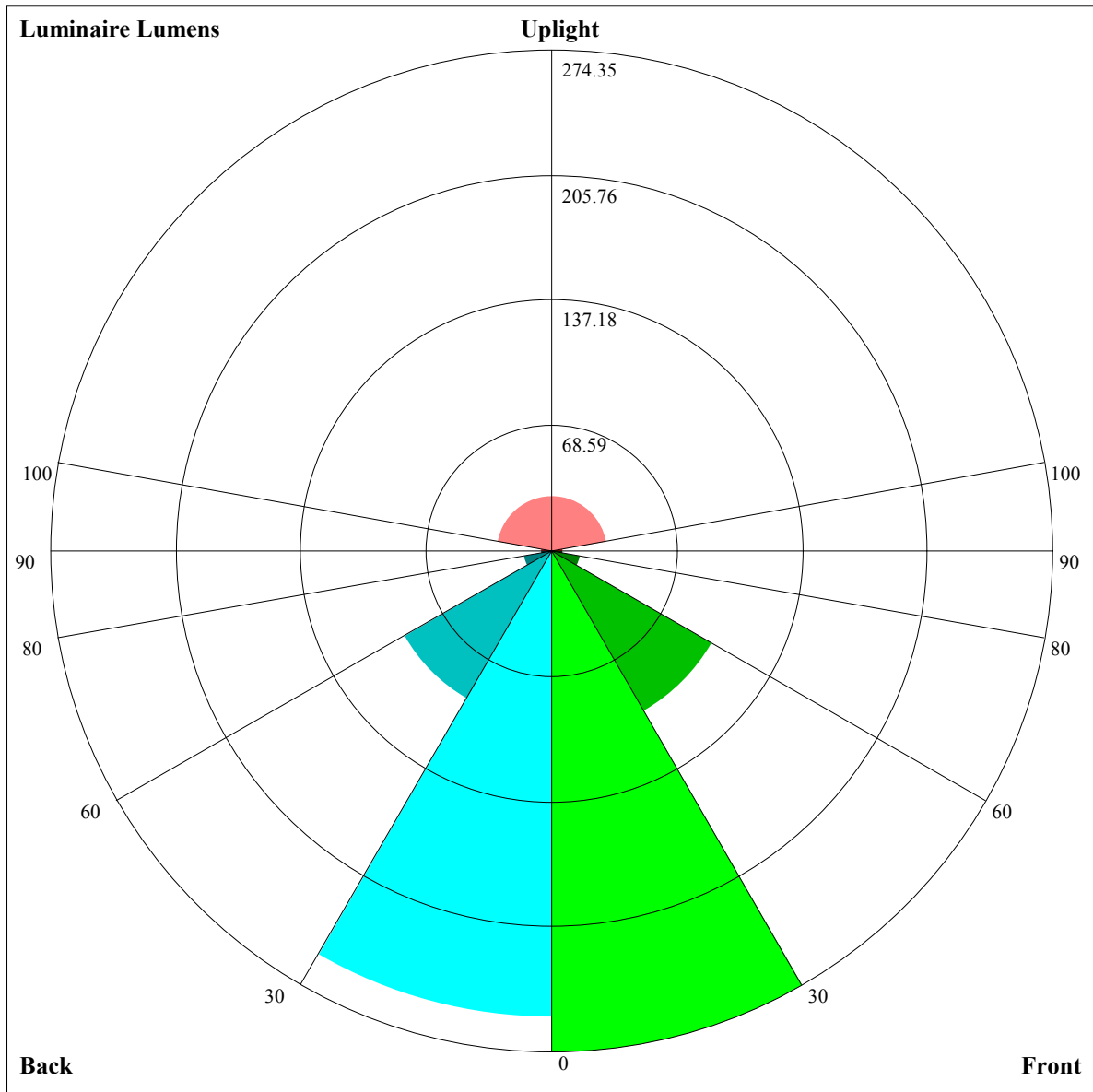
Luminance Limiting Curve





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	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	0.98	0.96	0.93	0.96	0.94	0.92	0.93	0.91	0.89	0.89	0.88	0.86	0.86	0.85	0.84	0.82
2	0.91	0.87	0.83	0.89	0.85	0.82	0.86	0.83	0.80	0.83	0.81	0.79	0.81	0.79	0.77	0.76
3	0.84	0.79	0.76	0.83	0.78	0.75	0.81	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.71	0.70
4	0.79	0.73	0.69	0.78	0.73	0.69	0.76	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.66	0.65
5	0.74	0.68	0.64	0.73	0.68	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.68	0.65	0.62	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	0.60	0.56	0.65	0.59	0.56	0.64	0.59	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.54
8	0.62	0.56	0.53	0.61	0.56	0.52	0.60	0.56	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.50
9	0.59	0.53	0.50	0.58	0.53	0.50	0.57	0.53	0.49	0.56	0.52	0.49	0.56	0.52	0.49	0.48
10	0.56	0.50	0.47	0.55	0.50	0.47	0.55	0.50	0.47	0.54	0.50	0.47	0.53	0.49	0.47	0.45





Luminaire Lumens:

FL=274.35,FM=100.9,FH=16.39,FVH=6.64

BL=255.43,BM=93.42,BH=15.75,BVH=5.94

UL=6.41,UH=30.48

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	1181.25	1171.69	1090.13	940.50	715.50	493.31	316.13	189.34	117.73
45.0	1178.44	1163.25	1074.38	901.69	698.06	471.38	302.06	187.48	120.32
90.0	1179.00	1122.30	986.06	800.78	605.98	405.96	258.58	160.99	100.24
135.0	1180.13	1136.25	1001.81	829.13	606.94	405.56	284.06	168.08	107.33
180.0	1181.25	1112.85	994.16	797.85	571.73	364.61	243.51	154.63	100.86
225.0	1178.44	1121.63	987.08	794.76	572.57	363.71	233.33	145.63	93.77
270.0	1179.00	1141.88	1017.00	839.81	645.19	431.44	291.38	171.90	108.39
315.0	1180.13	1117.58	1022.12	842.34	616.73	426.26	271.80	161.55	101.19
360.0	1181.25	1171.69	1090.13	940.50	715.50	493.31	316.13	189.34	117.73
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	73.18	48.32	33.53	25.14	18.90	15.24	13.50	12.38	11.76
45.0	75.88	49.50	33.41	23.68	16.99	14.34	12.15	11.19	11.08
90.0	61.03	40.61	31.89	20.53	15.53	14.57	14.51	18.34	13.44
135.0	67.05	43.03	31.05	22.16	16.14	14.46	11.76	11.08	10.18
180.0	65.42	43.14	29.76	21.94	16.48	14.34	12.49	11.76	11.31
225.0	57.99	40.22	28.63	21.60	16.20	13.67	11.48	10.86	8.49
270.0	67.78	47.81	43.43	27.56	17.55	14.29	13.33	18.90	17.83
315.0	61.43	41.18	36.11	25.31	16.59	13.95	12.32	13.11	12.99
360.0	73.18	48.32	33.53	25.14	18.90	15.24	13.50	12.38	11.76
C/ γ (°)	90.0								
0.0	8.72								
45.0	7.48								
90.0	8.89								
135.0	4.16								
180.0	3.54								
225.0	3.60								
270.0	4.44								
315.0	6.13								
360.0	8.72								