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Client:

LumCAT: LM01D03050AE

Luminaire:

Report No: nt0100

Voltage(V): 34.9600

Test No: GC2019122014

Current(A): 0.1970

LampCAT: LUMINUS CXM-6-AC40

Power (W): 6.8800

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

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Photometric Results

Lumens(lm): 707.86, Efficiency(%): 82.21% , Luminous Efficacy(lm/W): 102.89

Central intensity(cd): 694.512, Maximum intensity(cd): 694.512

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

Beam Angle(50%Imax): [C0/180]Total=51.2

[C90/270]Total=51.2

Field angle(10%Imax): [C0/180]Total=102.8

[C90/270]Total=102.8

Maximum s/h(1/2): C0\_180=0.79 C90\_270=0.79

Maximum s/h(1/4): C0\_180=0.82 C90\_270=0.82

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 82.21%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 90.257%

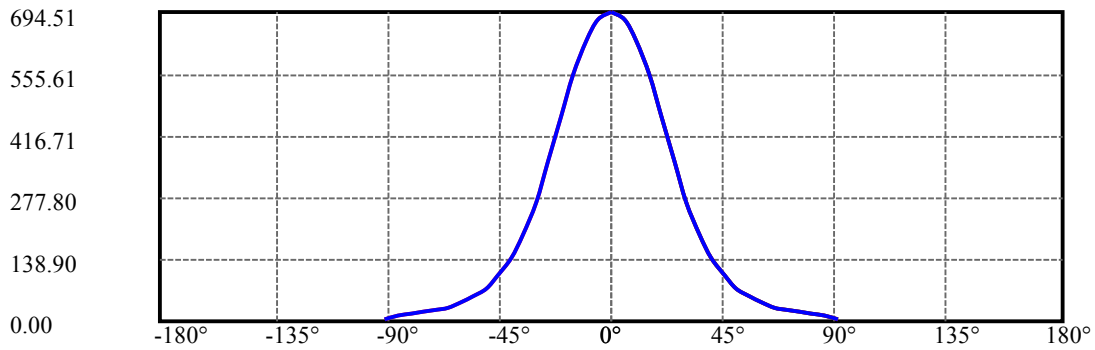
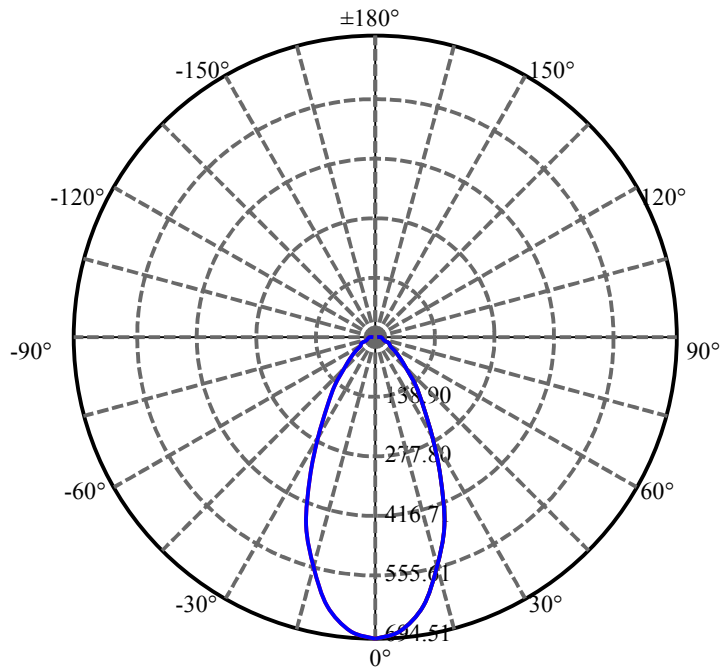
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	694.512	0.000	0	.000%	.000%
5.0	678.642	16.416	16.416	1.907%	2.319%
10.0	628.671	46.767	63.182	5.432%	8.926%
15.0	550.898	69.971	133.154	8.127%	18.811%
20.0	462.621	83.528	216.682	9.701%	30.611%
25.0	358.685	86.140	302.822	10.005%	42.780%
30.0	268.390	79.357	382.179	9.217%	53.990%
35.0	195.701	68.341	450.519	7.937%	63.645%
40.0	143.430	56.581	507.101	6.572%	71.638%
45.0	101.890	45.423	552.524	5.276%	78.055%
50.0	75.115	35.766	588.29	4.154%	83.108%
55.0	54.935	28.277	616.567	3.284%	87.102%
60.0	41.667	22.329	638.897	2.593%	90.257%
65.0	31.950	17.896	656.793	2.079%	92.785%
70.0	25.418	14.526	671.319	1.687%	94.837%
75.0	20.398	11.975	683.295	1.391%	96.529%
80.0	18.091	10.299	693.593	1.196%	97.984%
85.0	14.140	8.758	702.351	1.017%	99.221%
90.0	5.998	5.514	707.865	.640%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	382.18	44.39%	53.99%
0-40	507.10	58.90%	71.64%
0-60	638.90	74.20%	90.26%
0-90	702.35	81.57%	99.22%
0-120	702.35	81.57%	99.22%
0-180	707.86	82.21%	100.00%
60-90	85.78	9.96%	12.12%
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%
0-46.92	566.29	65.77%	80.00%

## ZONAL LUMEN SUMMARY

0-10	63.18
10-20	153.50
20-30	165.50
30-40	124.92
40-50	81.19
50-60	50.61
60-70	32.42
70-80	22.27
80-90	8.76
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: —————

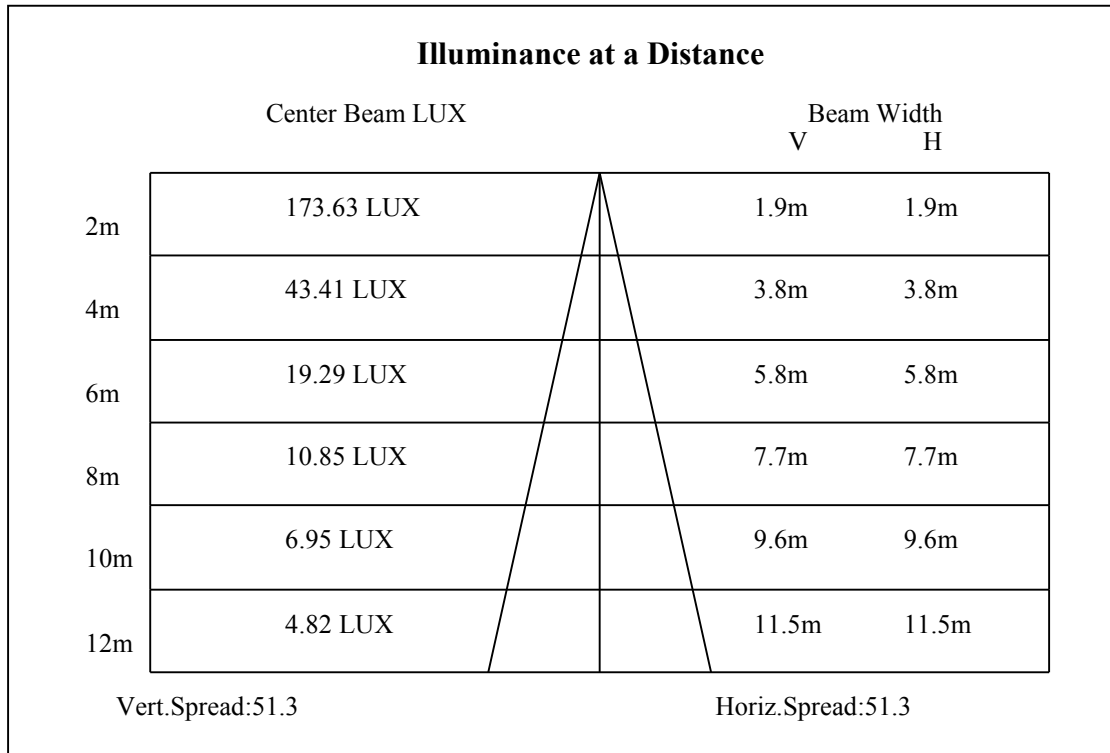
C90/C270: —————

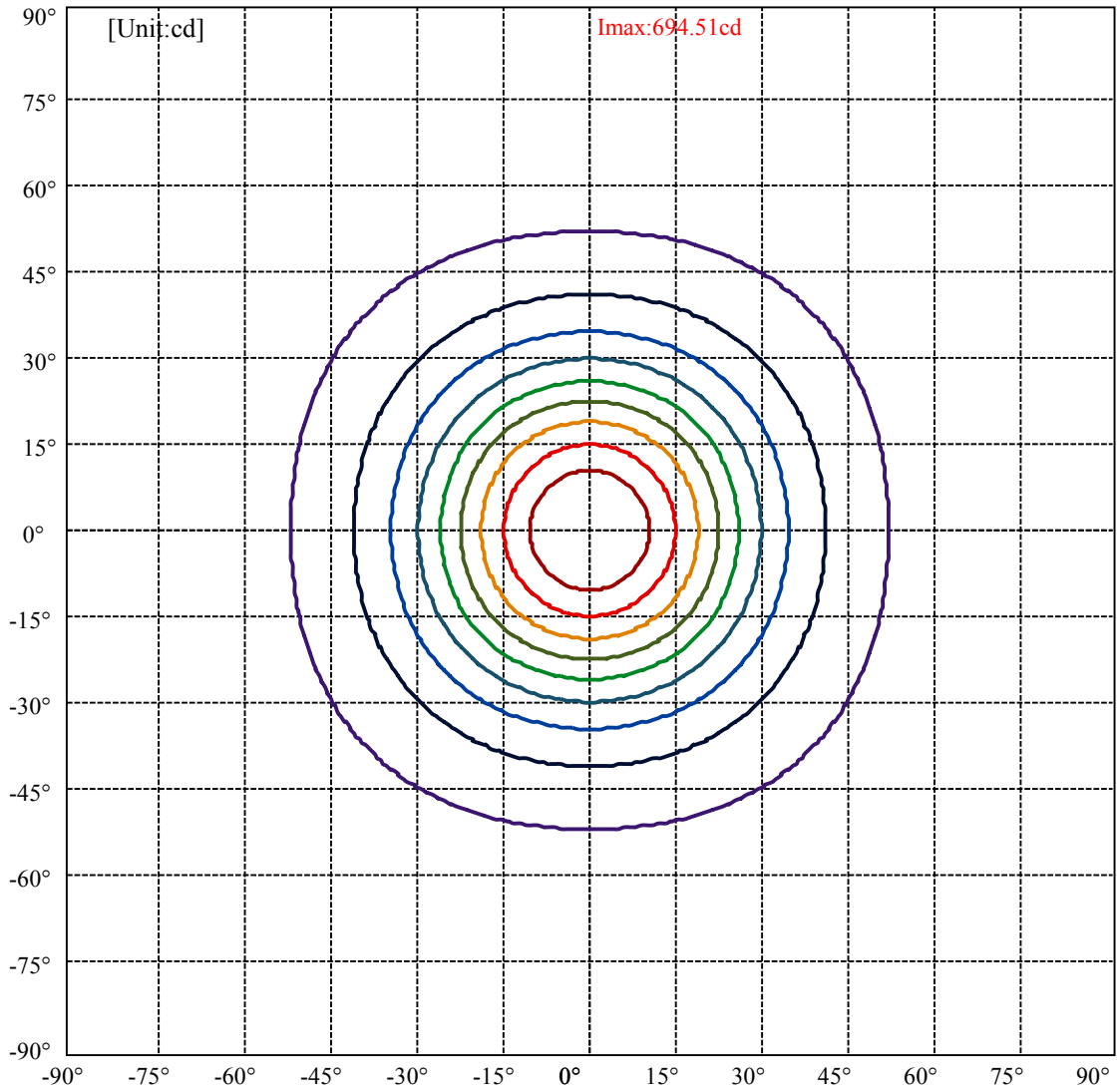
Field angle(10%Imax):C0/180Left:51.4 Right:51.4

:C90/270Left:51.4 Right:51.4

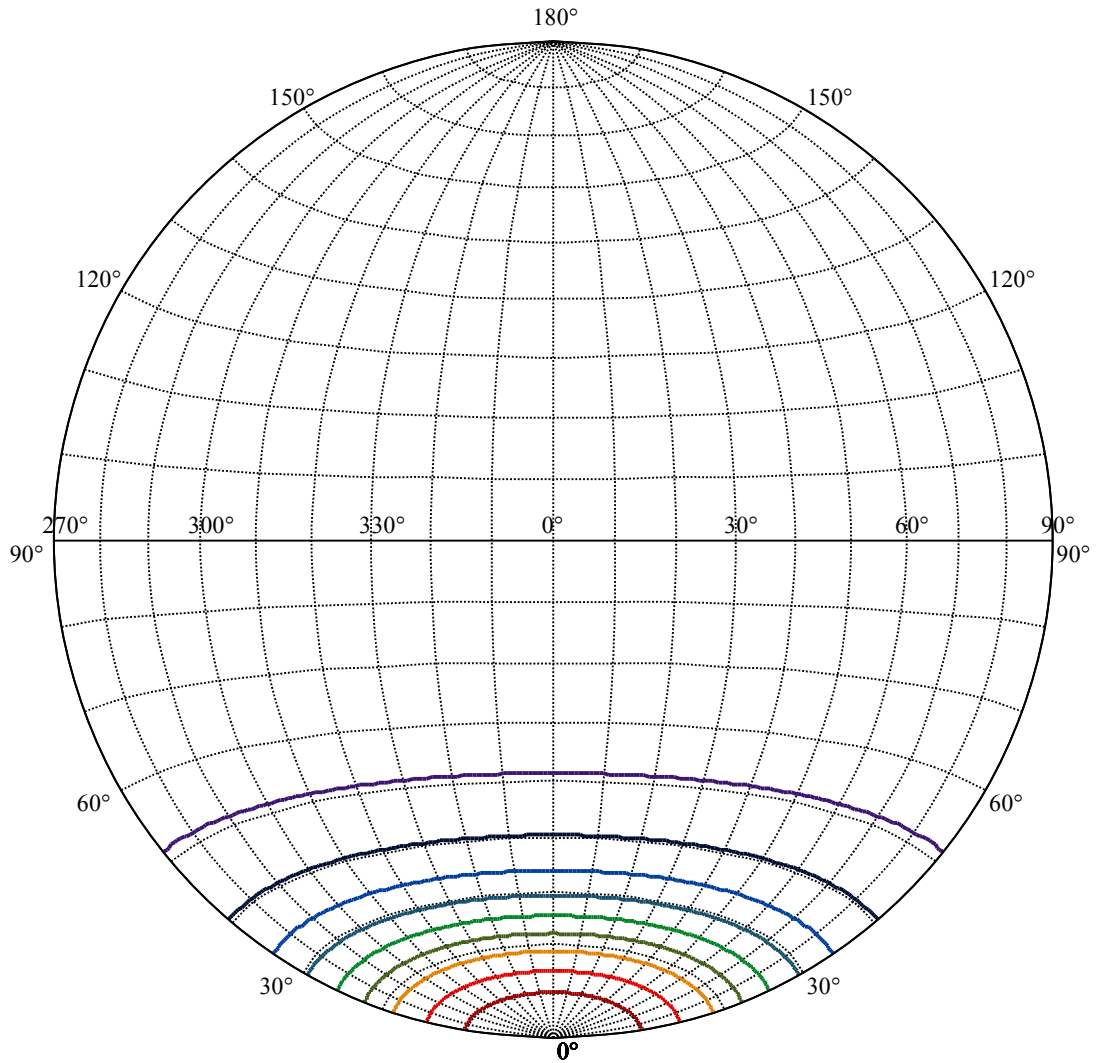
Beam Angle(50%Imax):C0/180Left:25.6 Right:25.6

:C90/270Left:25.6 Right:25.6





(10%Imax) 69.4512	—
(20%Imax) 138.902	—
(30%Imax) 208.354	—
(40%Imax) 277.805	—
(50%Imax) 347.256	—
(60%Imax) 416.707	—
(70%Imax) 486.158	—
(80%Imax) 555.609	—
(90%Imax) 625.06	—



House

[Unit:cd]

Road

Imax:694.51

(10%Imax) 69.4512

(20%Imax) 138.902

(30%Imax) 208.354

(40%Imax) 277.805

(50%Imax) 347.256

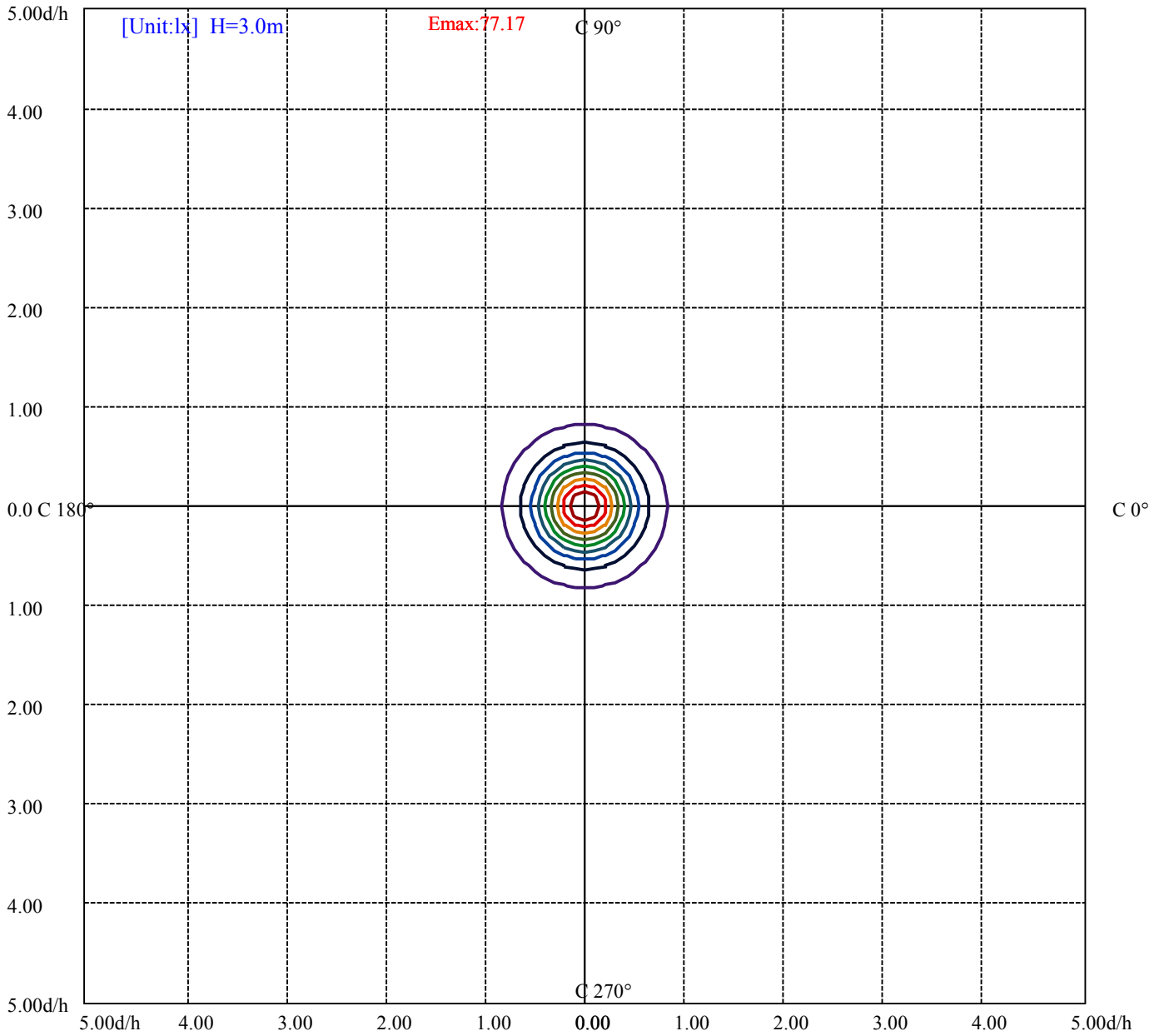
(60%Imax) 416.707

(70%Imax) 486.158

(80%Imax) 555.609

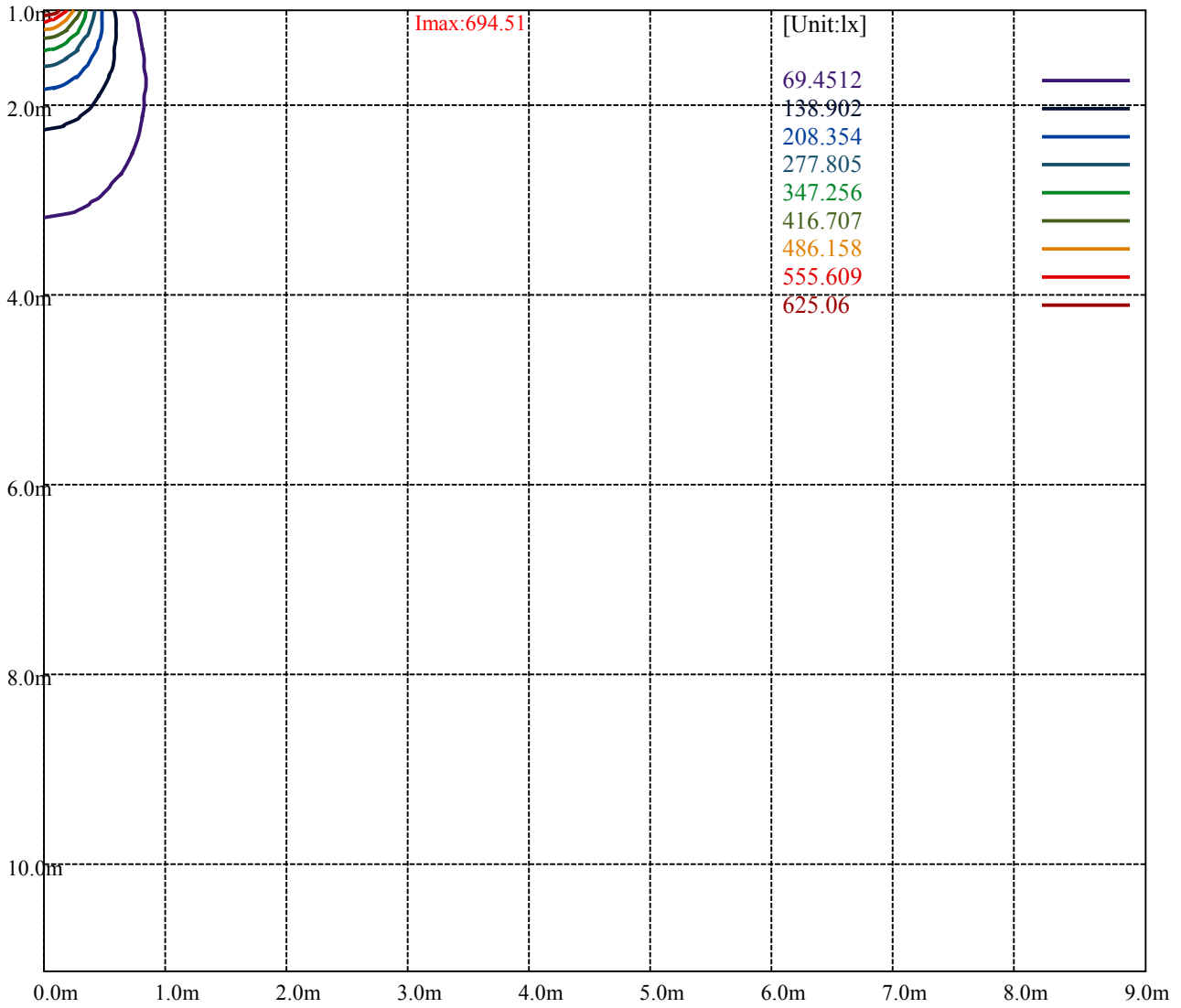
(90%Imax) 625.06





(10%Emax) 7.716789	—
(20%Emax) 15.43355	—
(30%Emax) 23.15033	—
(40%Emax) 30.86711	—
(50%Emax) 38.584	—
(60%Emax) 46.30078	—
(70%Emax) 54.01756	—
(80%Emax) 61.73433	—
(90%Emax) 69.45111	—





Luminance Table

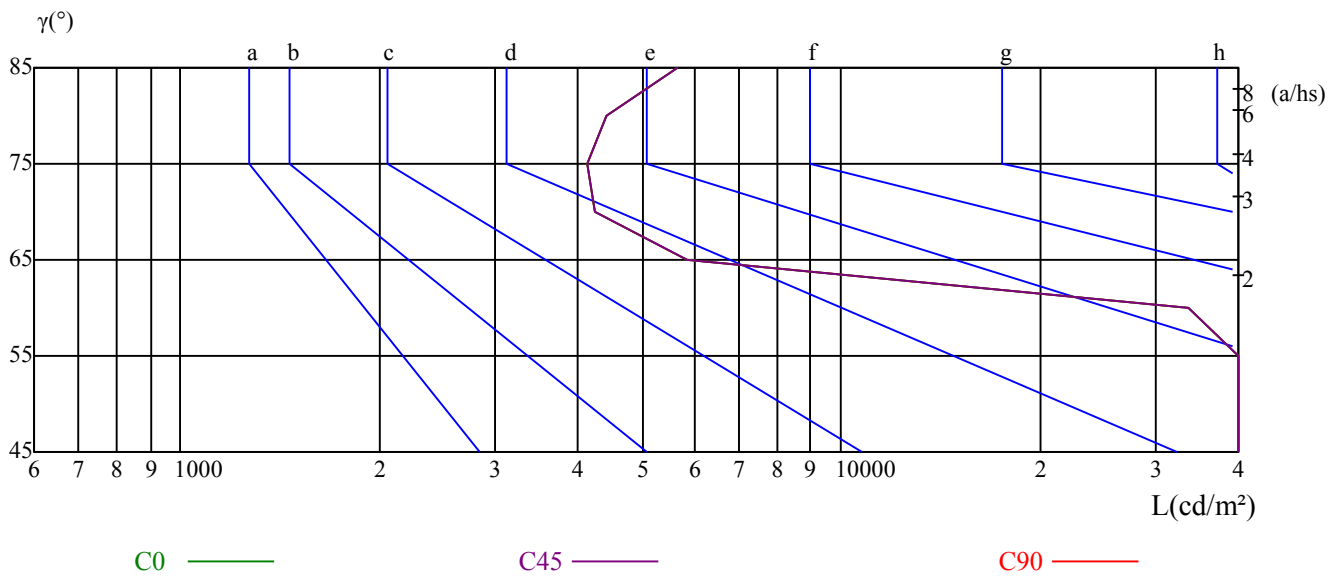
$\gamma$	45	50	55	60	65	70	75	80	85
C0	46650	52836	53885	33658	5848	4245	4131	4405	5640
C45	46650	52836	53885	33658	5848	4245	4131	4405	5640
C90	46650	52836	53885	33658	5848	4245	4131	4405	5640

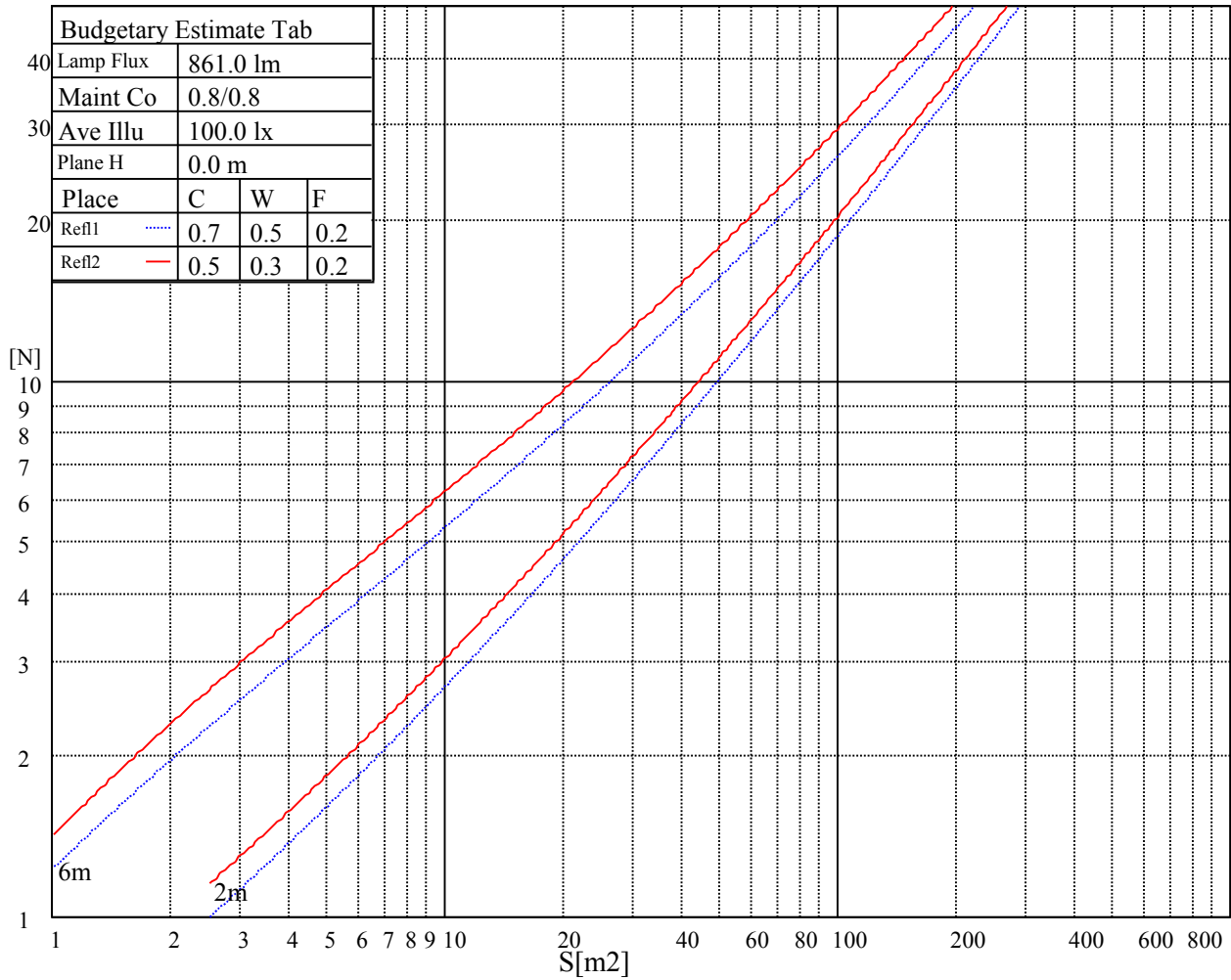
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5848	5848	5848	4131	4131	4131	5640	5640	5640

Glare Table

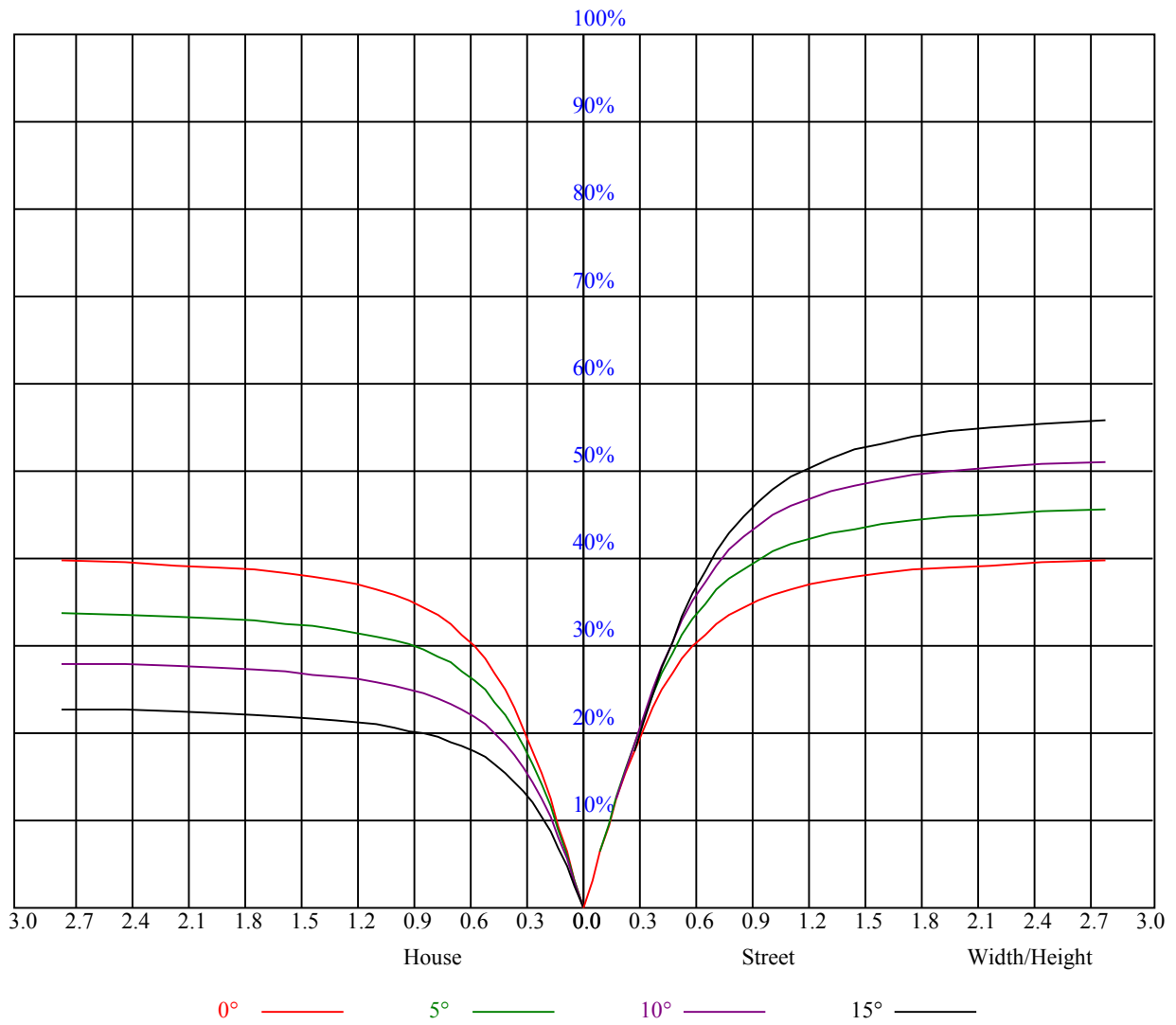
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

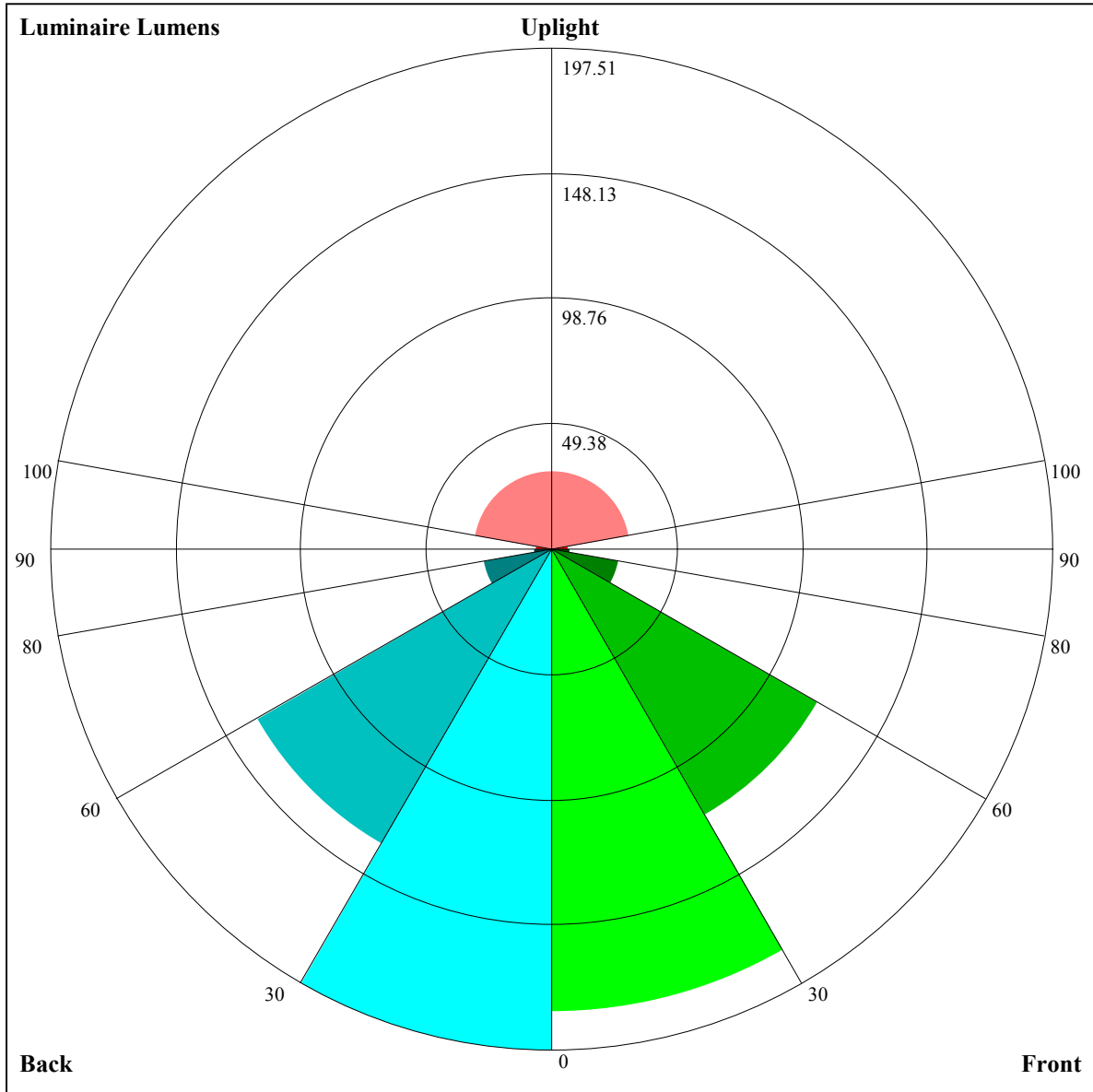
Luminance Limiting Curve





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	0.98	0.98	0.98	0.96	0.96	0.96	0.91	0.91	0.91	0.87	0.87	0.87	0.84	0.84	0.84	0.82
1	0.88	0.86	0.83	0.86	0.84	0.82	0.83	0.81	0.79	0.80	0.78	0.77	0.77	0.76	0.75	0.73
2	0.80	0.76	0.72	0.79	0.75	0.71	0.76	0.73	0.70	0.73	0.71	0.68	0.71	0.69	0.67	0.65
3	0.73	0.68	0.64	0.72	0.67	0.63	0.70	0.66	0.62	0.68	0.64	0.61	0.66	0.63	0.60	0.59
4	0.67	0.62	0.57	0.66	0.61	0.57	0.64	0.60	0.56	0.63	0.59	0.55	0.61	0.58	0.55	0.53
5	0.62	0.56	0.52	0.61	0.56	0.52	0.60	0.55	0.51	0.58	0.54	0.51	0.57	0.53	0.50	0.49
6	0.58	0.52	0.47	0.57	0.51	0.47	0.56	0.51	0.47	0.54	0.50	0.47	0.53	0.49	0.46	0.45
7	0.54	0.48	0.44	0.53	0.47	0.44	0.52	0.47	0.43	0.51	0.46	0.43	0.50	0.46	0.43	0.41
8	0.50	0.44	0.40	0.50	0.44	0.40	0.49	0.44	0.40	0.48	0.43	0.40	0.47	0.43	0.40	0.38
9	0.47	0.41	0.38	0.47	0.41	0.38	0.46	0.41	0.37	0.45	0.40	0.37	0.44	0.40	0.37	0.36
10	0.44	0.39	0.35	0.44	0.39	0.35	0.43	0.38	0.35	0.42	0.38	0.35	0.42	0.38	0.35	0.34





Luminaire Lumens:

FL=182.27,FM=120.79,FH=26.97,FVH=7.14

BL=197.51,BM=134.19,BH=27.51,BVH=7.17

UL=6.54,UH=31.14

BUG Rating:B1-U2-G0

## Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	694.69	664.88	604.74	521.21	424.13	323.89	239.57	177.86	131.46
45.0	695.31	673.76	618.24	534.71	445.33	342.39	253.80	182.81	137.14
90.0	694.01	675.00	622.29	541.86	454.95	350.04	253.91	188.04	136.35
135.0	694.35	691.48	651.32	581.57	499.28	397.18	303.69	222.98	162.45
180.0	694.69	691.37	653.12	586.29	502.03	395.89	299.87	214.93	158.63
225.0	695.31	689.01	652.16	584.44	496.18	386.44	294.58	210.26	152.94
270.0	694.01	680.57	631.46	551.70	465.02	360.28	269.27	197.78	143.33
315.0	693.73	663.08	596.03	505.41	414.06	313.37	232.43	170.94	125.16
360.0	694.69	664.88	604.74	521.21	424.13	323.89	239.57	177.86	131.46
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	91.91	68.18	51.02	39.77	30.49	24.08	19.46	16.99	12.83
45.0	99.06	72.34	54.23	40.50	30.32	23.18	18.06	16.03	12.94
90.0	97.71	72.17	52.54	40.33	31.39	24.64	18.84	16.09	13.22
135.0	114.98	85.28	60.75	46.13	35.94	28.29	21.32	16.93	14.01
180.0	111.99	79.65	56.98	42.19	33.41	27.62	21.60	17.49	14.34
225.0	106.48	79.76	56.08	41.12	31.16	23.74	17.94	14.63	13.28
270.0	102.04	73.91	56.53	43.76	33.19	25.76	18.96	18.51	16.82
315.0	90.96	69.64	51.36	39.54	29.70	26.04	27.00	28.07	15.69
360.0	91.91	68.18	51.02	39.77	30.49	24.08	19.46	16.99	12.83
C/ $\gamma$ (°)	90.0								
0.0	3.26								
45.0	3.38								
90.0	4.22								
135.0	7.65								
180.0	7.93								
225.0	8.89								
270.0	7.31								
315.0	5.34								
360.0	3.26								