



NATA LIGHTING CO.,LTD.  
www.nata.cn  
Email:info@nata.com  
Tel:+86-750-3770000 Fax:+86-750-3771111  
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

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## Nata

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Client:

LumCAT: 3-1941-M

Luminaire:

Report No:

Voltage(V): 32.8300

Test No: GC2019081203

Current(A): 0.2970

LampCAT: TRIDONIC SLE G7 17MM

Power (W): 9.7500

Lamp flux(lm): 1190.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 78

Width(mm): 78

Phm Type: C

Height(mm): 0

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## Photometric Results

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Lumens(lm): 1031.09, Efficiency(%): 86.65% , Luminous Efficacy(lm/W): 105.75

Central intensity(cd): 1421.438, Maximum intensity(cd): 1421.438

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

Beam Angle(50%Imax): [C0/180]Total=54.2

[C90/270]Total=54.2

Field angle(10%Imax): [C0/180]Total=73.8

[C90/270]Total=73.8

Maximum s/h(1/2): C0\_180=0.86 C90\_270=0.86

Maximum s/h(1/4): C0\_180=0.81 C90\_270=0.81

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 86.65%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.084%

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Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2019/8/12  
Humidity(%): 65.0%

Operator: NT07  
Distance(m): 7.50

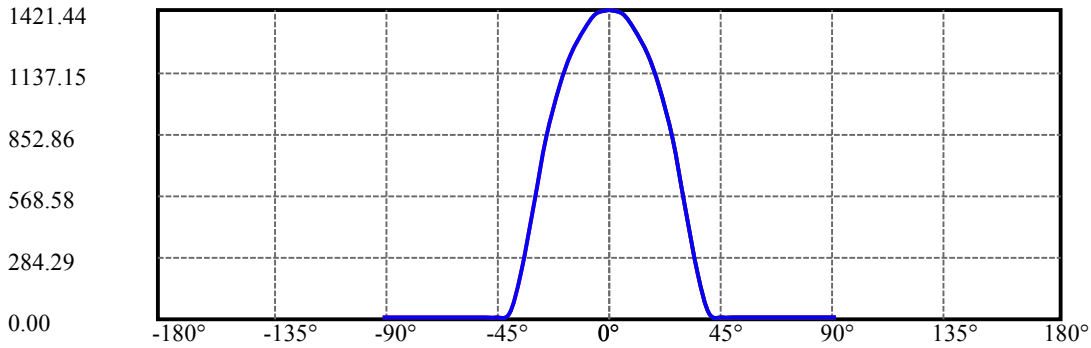
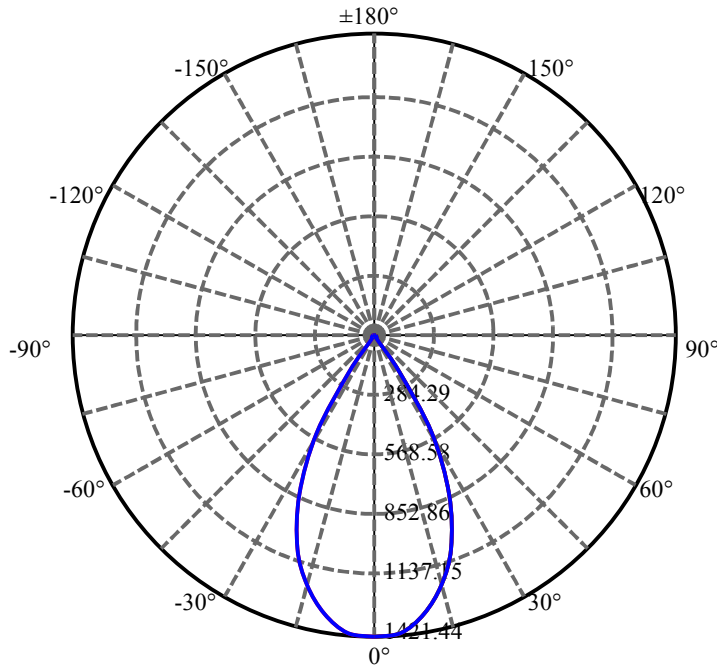
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1421.438	0.000	0	.000%	.000%
5.0	1404.773	33.787	33.787	2.839%	3.277%
10.0	1332.633	97.926	131.712	8.229%	12.774%
15.0	1215.176	151.134	282.846	12.700%	27.432%
20.0	1070.234	188.350	471.196	15.828%	45.699%
25.0	833.477	199.664	670.86	16.778%	65.063%
30.0	535.493	173.244	844.105	14.558%	81.865%
35.0	212.372	110.128	954.233	9.254%	92.546%
40.0	30.059	40.448	994.681	3.399%	96.469%
45.0	10.336	7.479	1002.16	.629%	97.194%
50.0	7.130	3.529	1005.689	.297%	97.536%
55.0	6.209	2.900	1008.59	.244%	97.818%
60.0	5.688	2.750	1011.339	.231%	98.084%
65.0	5.787	2.790	1014.129	.234%	98.355%
70.0	8.325	3.573	1017.702	.300%	98.702%
75.0	7.861	4.231	1021.933	.356%	99.112%
80.0	5.316	3.526	1025.459	.296%	99.454%
85.0	5.414	2.916	1028.374	.245%	99.737%
90.0	4.507	2.716	1031.091	.228%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	844.10	70.93%	81.87%
0-40	994.68	83.59%	96.47%
0-60	1011.34	84.99%	98.08%
0-90	1028.37	86.42%	99.74%
0-120	1028.37	86.42%	99.74%
0-180	1031.09	86.65%	100.00%
60-90	19.78	1.66%	1.92%
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%
0-29.44	824.87	69.32%	80.00%

ZONAL LUMEN SUMMARY

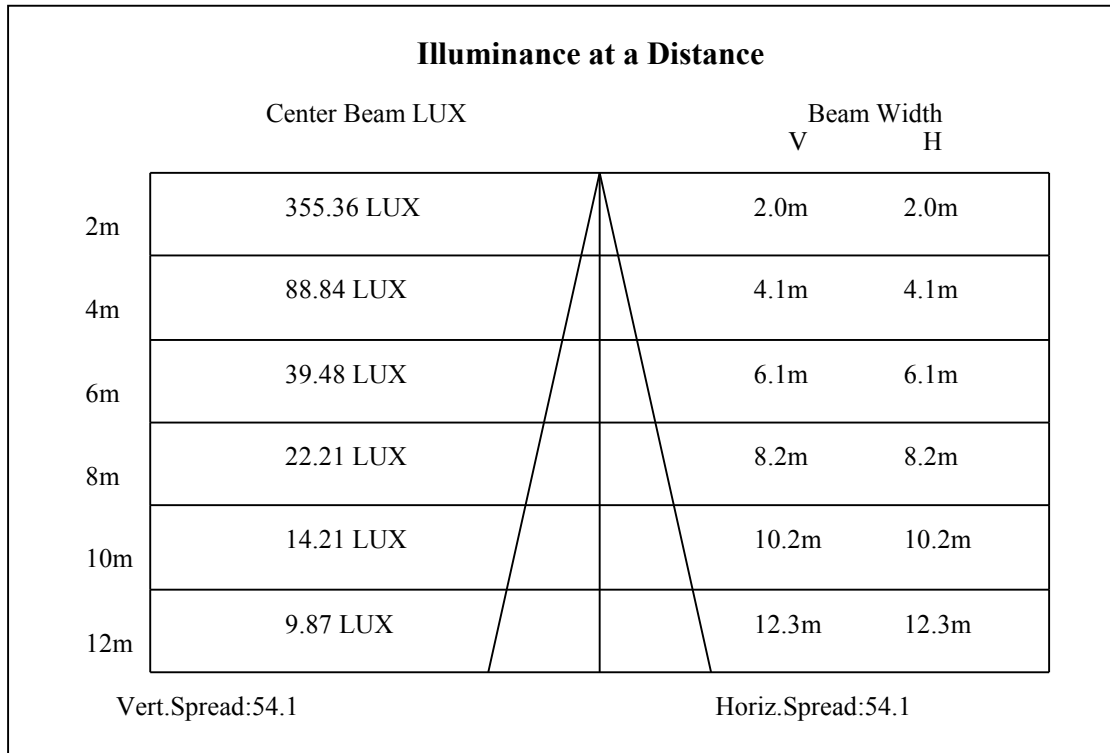
0-10	131.71
10-20	339.48
20-30	372.91
30-40	150.58
40-50	11.01
50-60	5.65
60-70	6.36
70-80	7.76
80-90	2.92
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

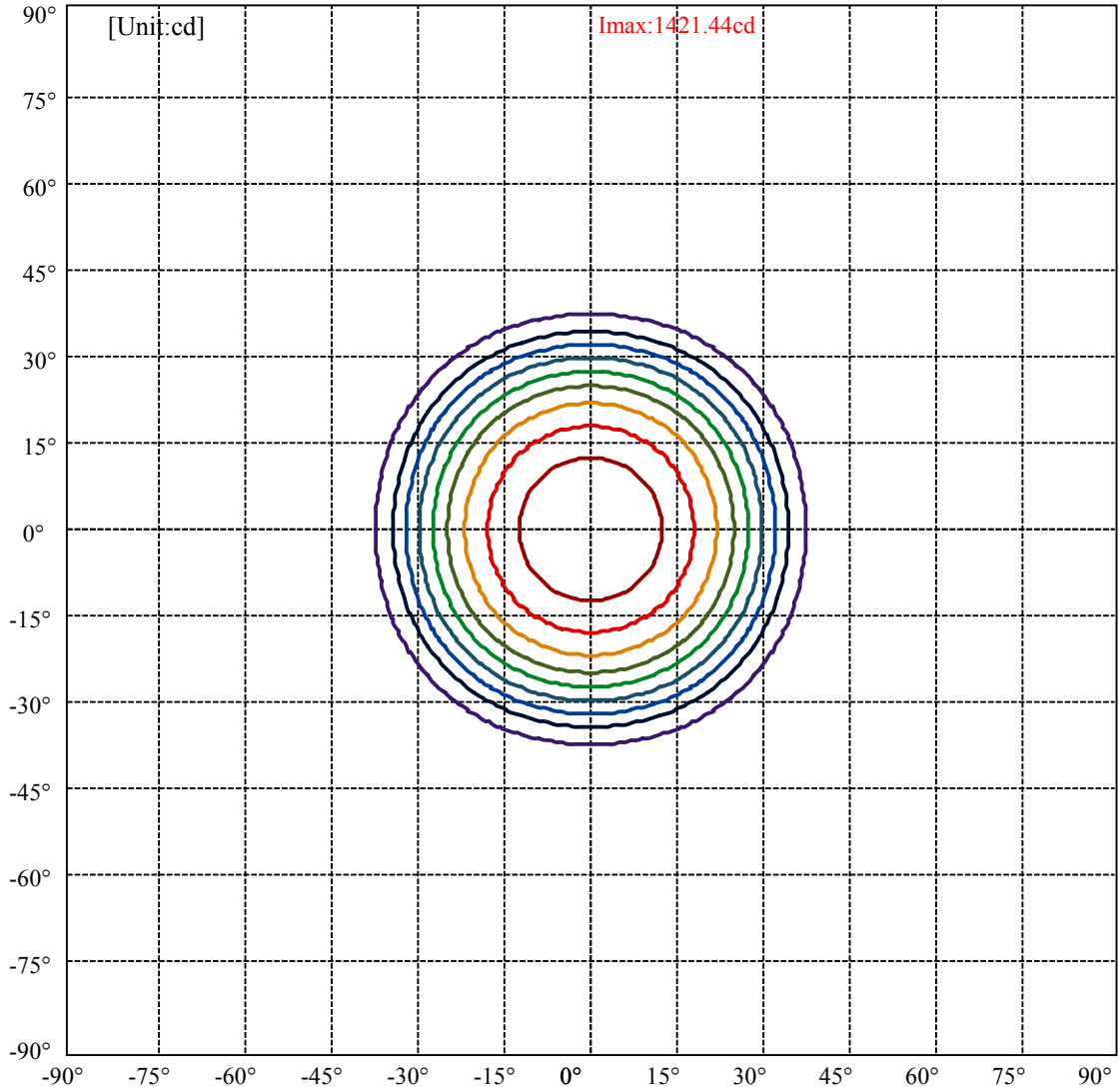


C0(Max): ———  
C0/C180: ———  
C90/C270: ———

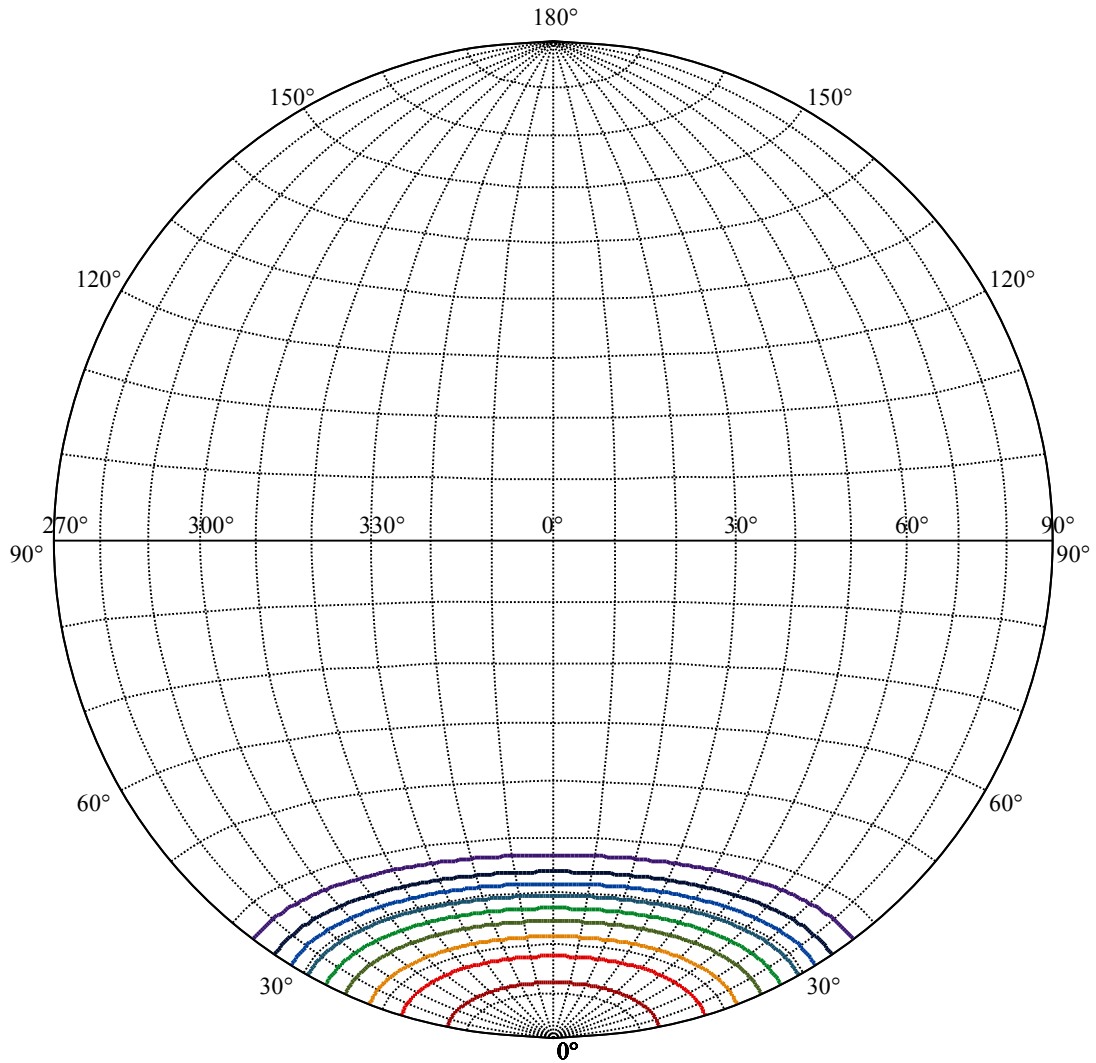
Field angle(10%Imax):C0/180Left:36.9 Right:36.9  
:C90/270Left:36.9 Right:36.9

Beam Angle(50%Imax):C0/180Left:27.1 Right:27.1  
:C90/270Left:27.1 Right:27.1





(10%Imax) 142.144	—
(20%Imax) 284.288	—
(30%Imax) 426.431	—
(40%Imax) 568.575	—
(50%Imax) 710.719	—
(60%Imax) 852.862	—
(70%Imax) 995.006	—
(80%Imax) 1137.15	—
(90%Imax) 1279.29	—



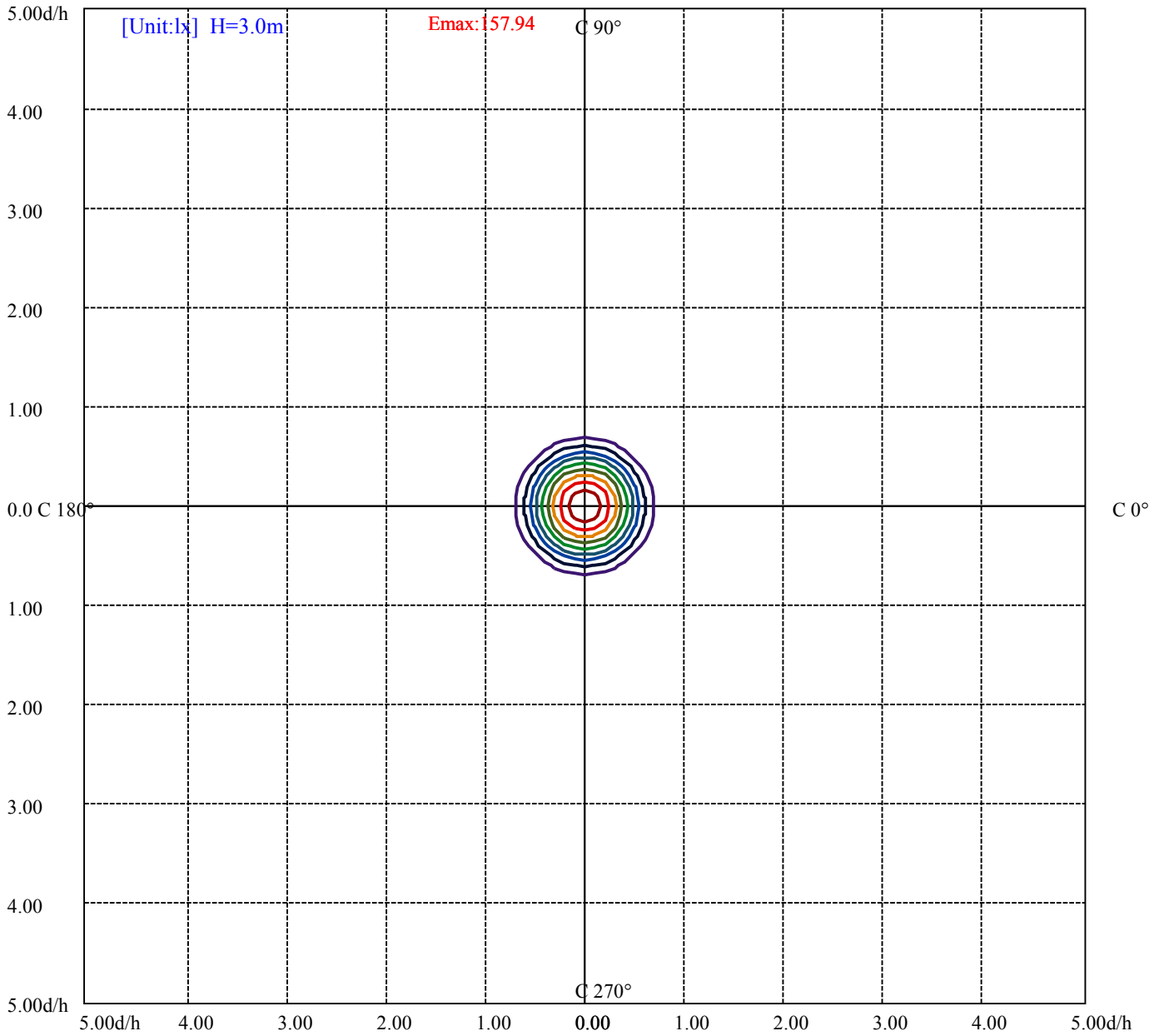
House

[Unit:cd]

Road

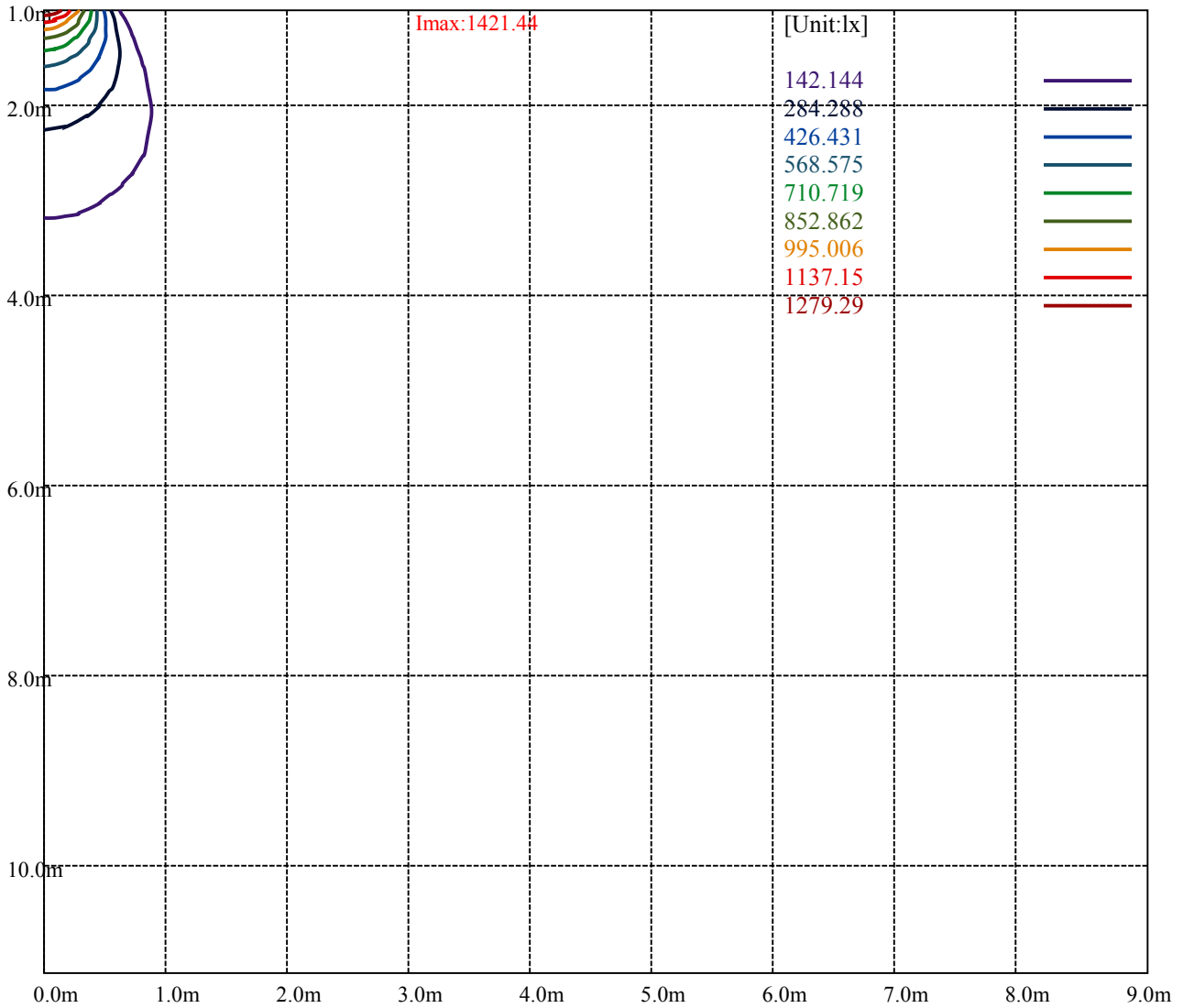
**I<sub>max</sub>:1421.44**

(10%I <sub>max</sub> ) 142.144	—
(20%I <sub>max</sub> ) 284.288	—
(30%I <sub>max</sub> ) 426.431	—
(40%I <sub>max</sub> ) 568.575	—
(50%I <sub>max</sub> ) 710.719	—
(60%I <sub>max</sub> ) 852.862	—
(70%I <sub>max</sub> ) 995.006	—
(80%I <sub>max</sub> ) 1137.15	—
(90%I <sub>max</sub> ) 1279.29	—



- (10%Emax) 15.79378
- (20%Emax) 31.58744
- (30%Emax) 47.38122
- (40%Emax) 63.175
- (50%Emax) 78.96878
- (60%Emax) 94.76244
- (70%Emax) 110.5562
- (80%Emax) 126.35
- (90%Emax) 142.1433





Luminance Table

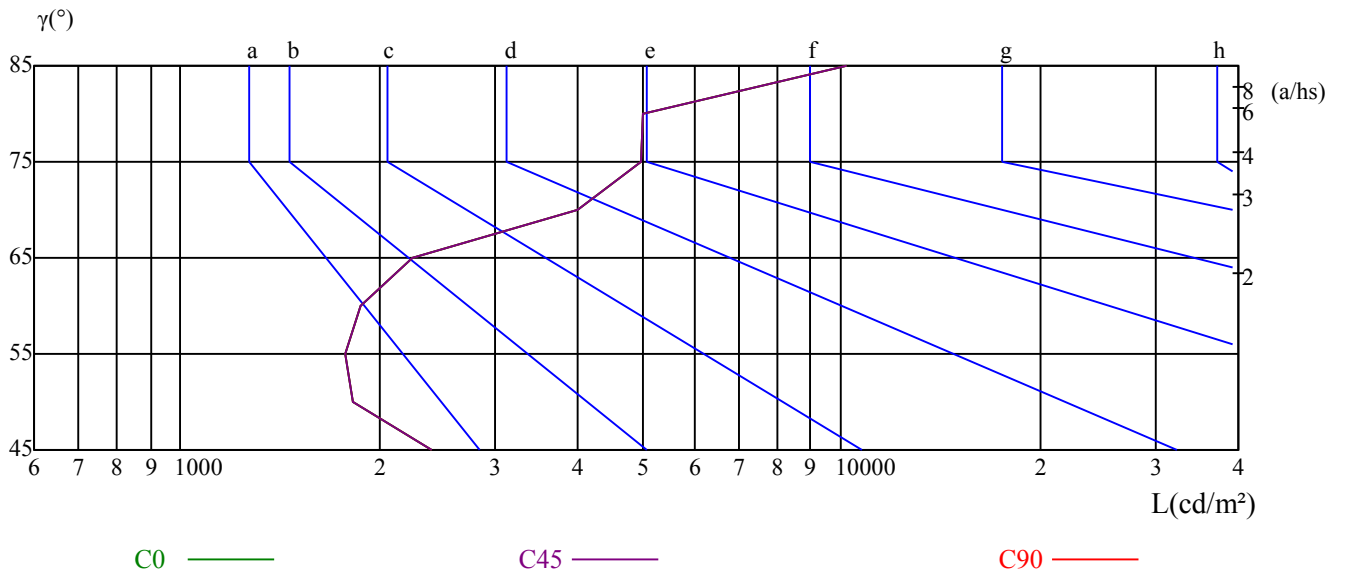
$\gamma$	45	50	55	60	65	70	75	80	85
C0	2403	1823	1779	1870	2251	4001	4992	5031	10210
C45	2403	1823	1779	1870	2251	4001	4992	5031	10210
C90	2403	1823	1779	1870	2251	4001	4992	5031	10210

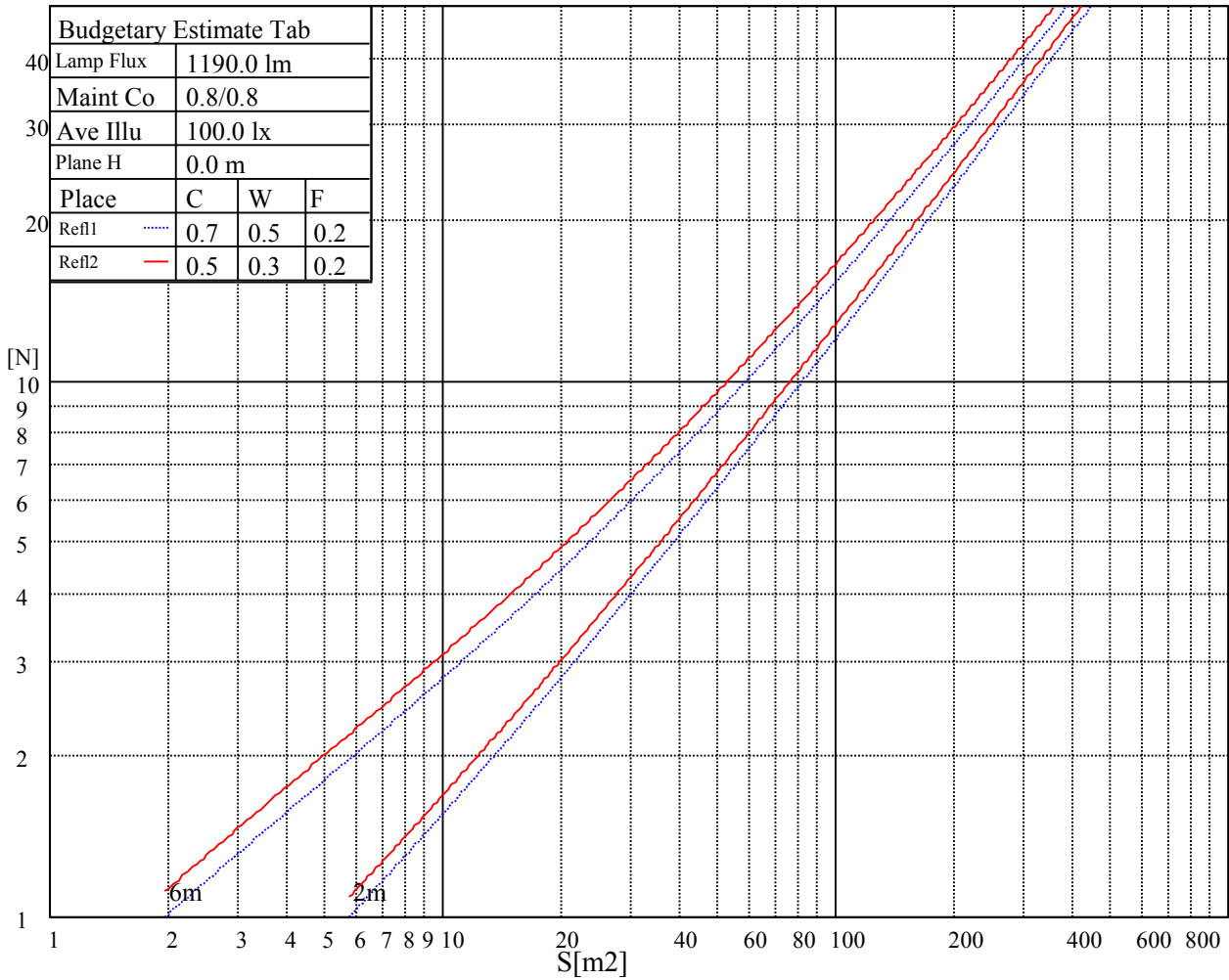
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2251	2251	2251	4992	4992	4992	10210	10210	10210

Glare Table

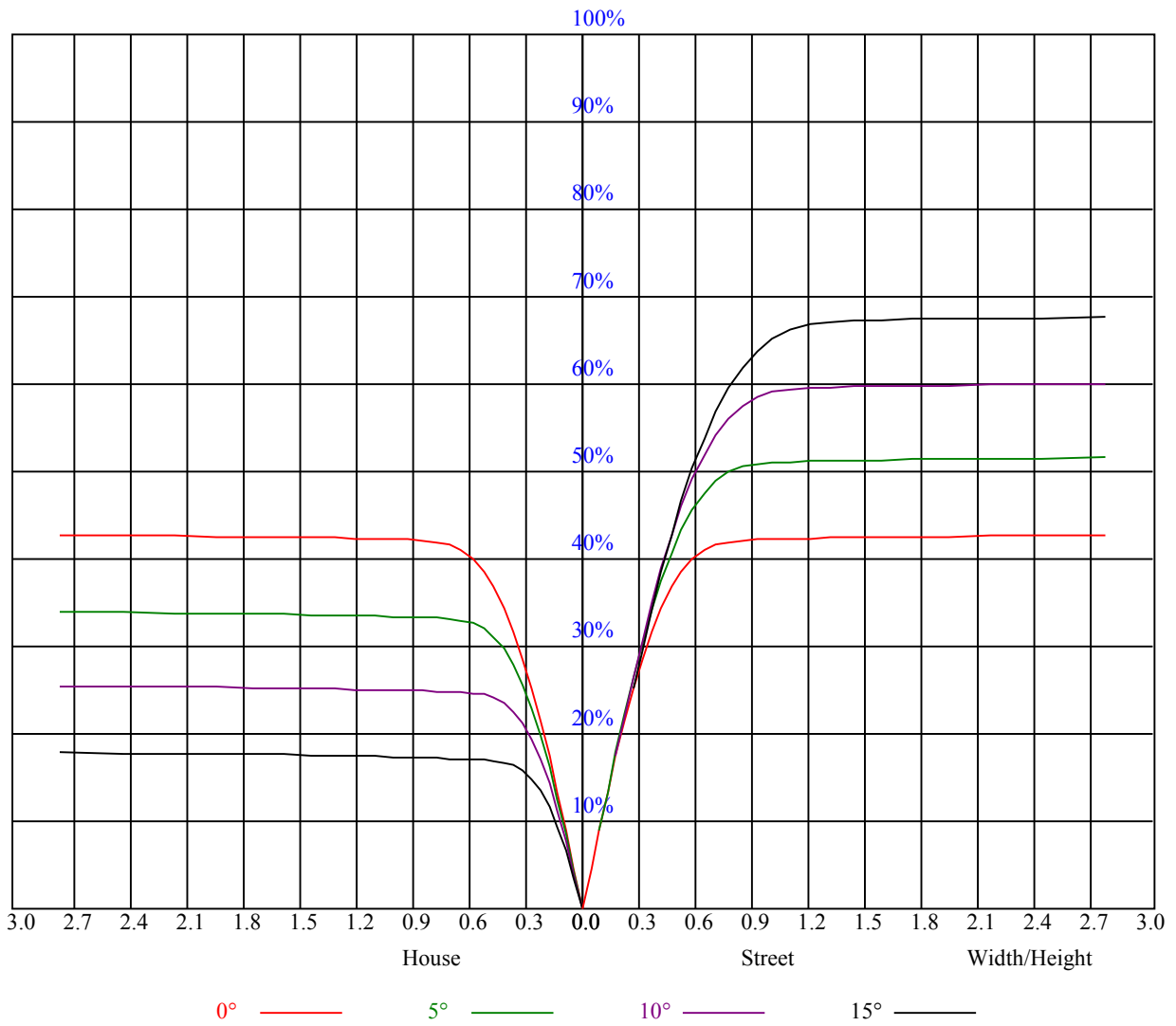
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

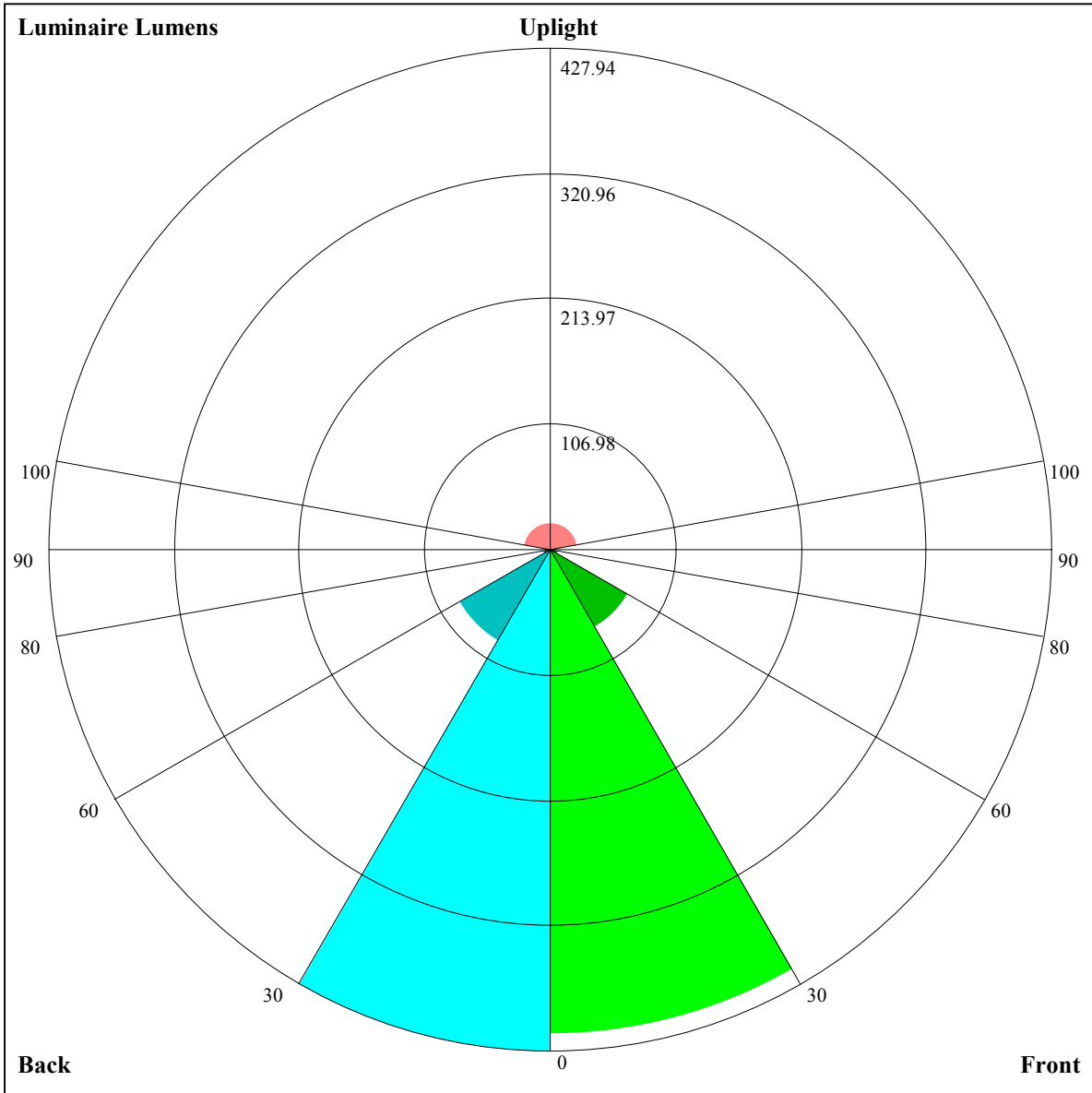
Luminance Limiting Curve





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	1.03	1.03	1.03	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.87
1	0.96	0.94	0.92	0.94	0.92	0.91	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.84	0.83	0.81
2	0.90	0.86	0.84	0.88	0.85	0.83	0.86	0.83	0.81	0.83	0.81	0.79	0.81	0.79	0.77	0.76
3	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.71
4	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.68	0.67
5	0.75	0.70	0.67	0.74	0.70	0.66	0.73	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.63
6	0.71	0.66	0.62	0.70	0.66	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.63	0.61	0.60
7	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.57
8	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.60	0.57	0.55	0.54
9	0.60	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.51
10	0.58	0.53	0.50	0.57	0.53	0.50	0.56	0.52	0.49	0.56	0.52	0.49	0.55	0.52	0.49	0.48





Luminaire Lumens:

FL=413.17,FM=75.64,FH=6.33,FVH=2.83

BL=427.94,BM=89.6,BH=7.04,BVH=2.73

UL=4.92,UH=23.4

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	1419.19	1411.31	1332.56	1216.13	1045.13	785.25	500.06	148.11	18.17
45.0	1422.00	1418.63	1351.69	1242.56	1095.19	849.38	561.38	286.88	25.59
90.0	1423.13	1416.38	1339.88	1233.56	1076.46	843.41	565.20	217.86	30.04
135.0	1421.44	1413.56	1357.88	1260.56	1134.00	925.88	662.06	339.19	66.94
180.0	1419.19	1396.13	1329.75	1225.69	1091.70	874.91	590.06	221.68	37.91
225.0	1422.00	1388.81	1319.63	1209.38	1054.35	825.75	514.41	172.07	23.34
270.0	1423.13	1396.69	1325.81	1218.94	1067.63	834.75	508.50	214.59	23.06
315.0	1421.44	1396.69	1303.88	1114.59	997.43	728.49	382.28	98.61	15.41
360.0	1419.19	1411.31	1332.56	1216.13	1045.13	785.25	500.06	148.11	18.17
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	8.78	6.64	6.08	5.46	7.43	14.01	12.94	5.40	5.23
45.0	10.41	6.98	6.08	5.68	5.34	5.96	5.85	5.12	5.01
90.0	10.41	7.09	6.02	5.51	5.18	4.95	4.84	4.84	4.78
135.0	14.23	8.21	6.64	6.08	5.68	5.46	5.23	5.18	5.12
180.0	11.76	7.82	6.81	6.08	6.86	17.94	16.71	6.53	5.40
225.0	10.13	7.31	6.41	5.79	5.46	8.27	7.43	5.12	5.01
270.0	9.45	6.75	5.96	5.57	5.23	5.06	4.95	4.95	5.12
315.0	7.54	6.24	5.68	5.34	5.12	4.95	4.95	5.40	7.65
360.0	8.78	6.64	6.08	5.46	7.43	14.01	12.94	5.40	5.23
C/ $\gamma$ (°)	90.0								
0.0	4.44								
45.0	4.50								
90.0	4.50								
135.0	4.56								
180.0	4.50								
225.0	4.50								
270.0	4.50								
315.0	4.56								
360.0	4.44								