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Nata

Client:

LumCAT: 3-2326-M

Luminaire: 92.70.131.00

Report No: GC2019091909

Test No: NATA07

LampCAT: TRIDONIC SLE G7 13MM

Lamp flux(lm): 1835.0

Number of Lamps: 1

Length(mm): 78

Phm Type: C

Voltage(V): 220.4000

Current(A): 0.0700

Power (W): 14.3800

PF: 0.9200

Ballast type: AC

Width(mm): 78

Height(mm): 0

Photometric Results

Lumens(lm): 1628.16, Efficiency(%): 88.73% , Luminous Efficacy(lm/W): 113.22

Central intensity(cd): 3963.936, Maximum intensity(cd): 3963.936

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=33.2

[C90/270]Total=33.2

Field angle(10%Imax): [C0/180]Total=68.2

[C90/270]Total=68.2

Maximum s/h(1/2): C0_180=0.55 C90_270=0.55

Maximum s/h(1/4): C0_180=0.54 C90_270=0.54

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 88.73%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.659%

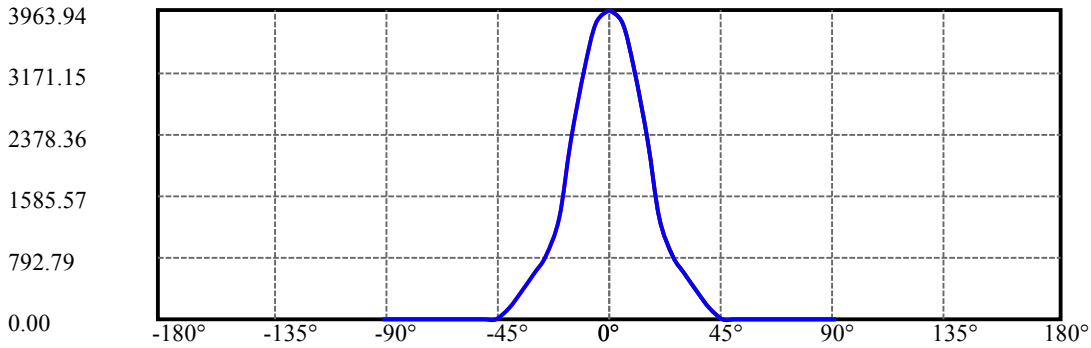
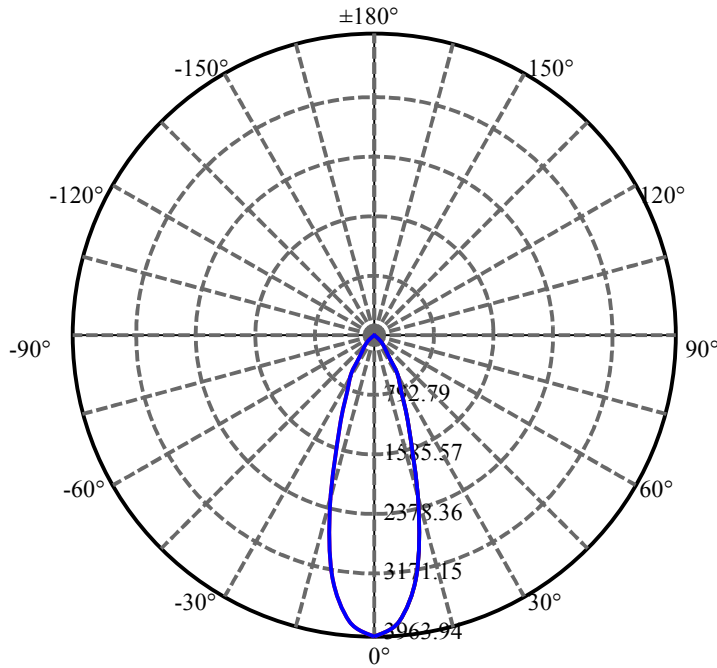
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3963.936	0.000	0	.000%	.000%
5.0	3780.643	92.584	92.584	5.045%	5.686%
10.0	3206.865	249.965	342.549	13.622%	21.039%
15.0	2291.734	326.173	668.723	17.775%	41.072%
20.0	1298.395	295.877	964.599	16.124%	59.245%
25.0	815.748	221.734	1186.334	12.084%	72.864%
30.0	594.282	178.440	1364.774	9.724%	83.823%
35.0	354.945	139.780	1504.555	7.617%	92.408%
40.0	146.078	83.592	1588.146	4.555%	97.542%
45.0	7.662	28.466	1616.613	1.551%	99.291%
50.0	4.942	2.547	1619.16	.139%	99.447%
55.0	3.770	1.894	1621.054	.103%	99.564%
60.0	2.947	1.553	1622.606	.085%	99.659%
65.0	2.361	1.290	1623.897	.070%	99.738%
70.0	1.897	1.078	1624.975	.059%	99.804%
75.0	1.607	0.916	1625.89	.050%	99.861%
80.0	1.415	0.809	1626.699	.044%	99.910%
85.0	1.293	0.736	1627.435	.040%	99.956%
90.0	1.351	0.724	1628.159	.039%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1364.77	74.37%	83.82%
0-40	1588.15	86.55%	97.54%
0-60	1622.61	88.43%	99.66%
0-90	1627.44	88.69%	99.96%
0-120	1627.44	88.69%	99.96%
0-180	1628.16	88.73%	100.00%
60-90	6.38	0.35%	0.39%
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%
0-28.26	1302.53	70.98%	80.00%

ZONAL LUMEN SUMMARY

0-10	342.55
10-20	622.05
20-30	400.17
30-40	223.37
40-50	31.01
50-60	3.45
60-70	2.37
70-80	1.72
80-90	0.74
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: —————

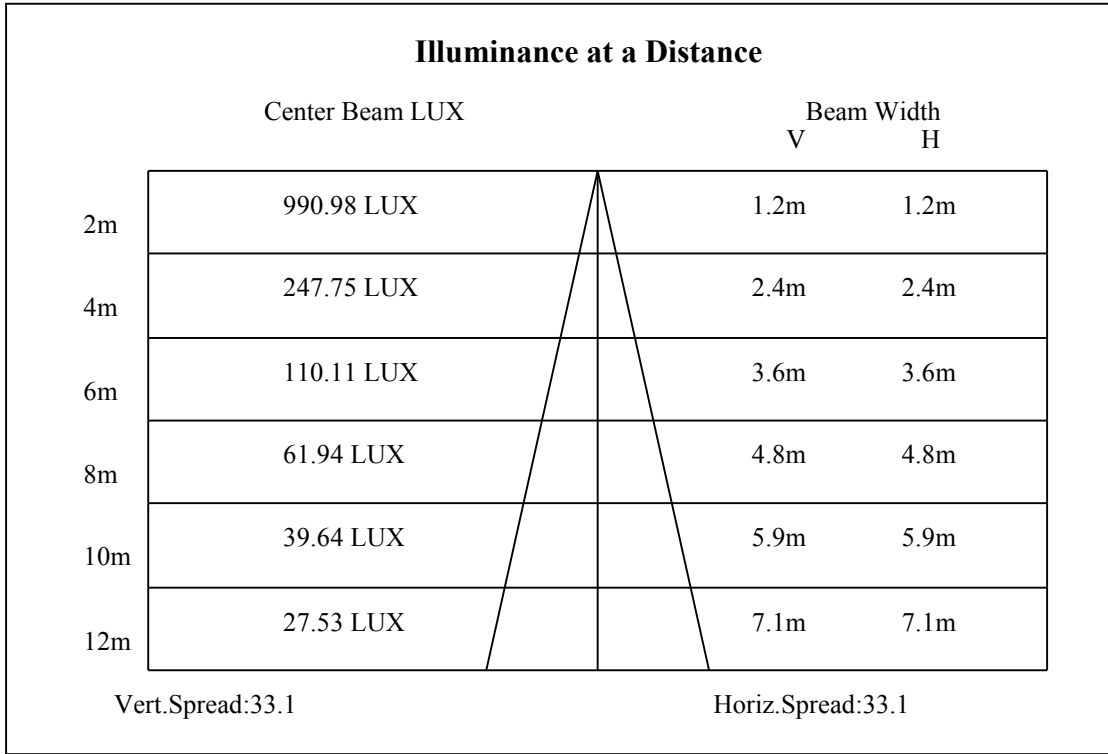
C90/C270: —————

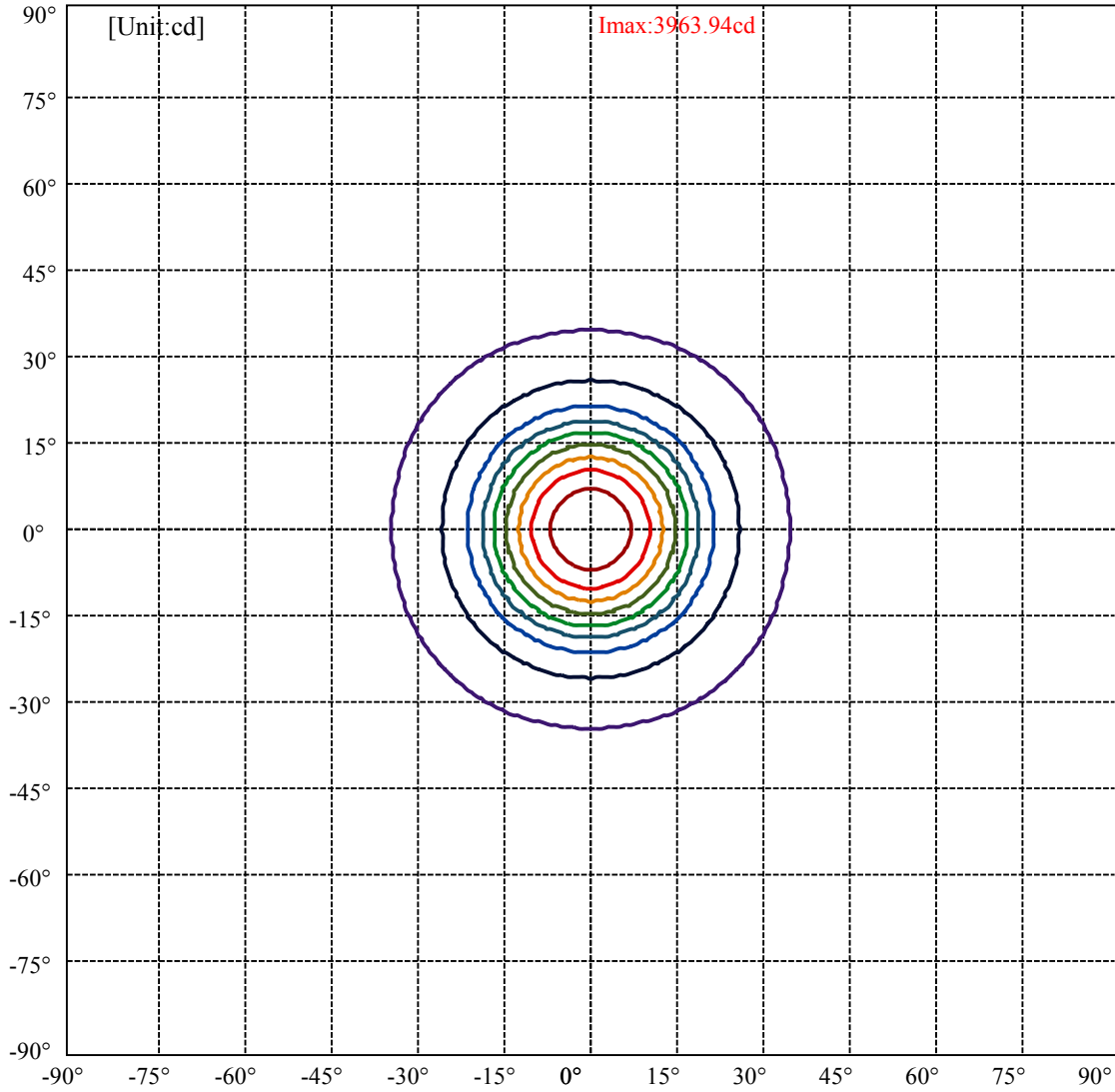
Field angle(10%Imax):C0/180Left:34.1 Right:34.1

:C90/270Left:34.1 Right:34.1

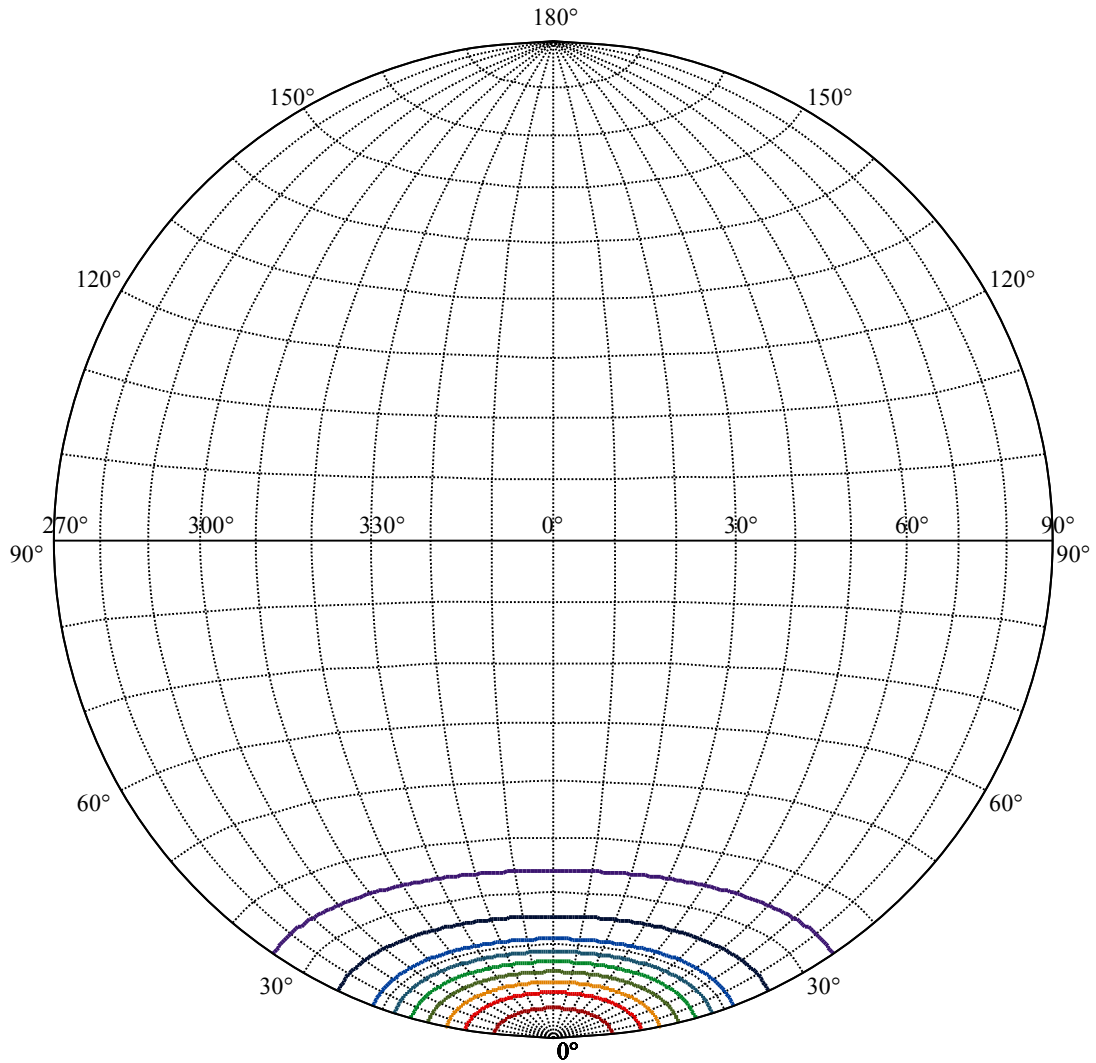
Beam Angle(50%Imax):C0/180Left:16.6 Right:16.6

:C90/270Left:16.6 Right:16.6





(10%Imax) 396.394	—
(20%Imax) 792.787	—
(30%Imax) 1189.18	—
(40%Imax) 1585.57	—
(50%Imax) 1981.97	—
(60%Imax) 2378.36	—
(70%Imax) 2774.75	—
(80%Imax) 3171.15	—
(90%Imax) 3567.54	—



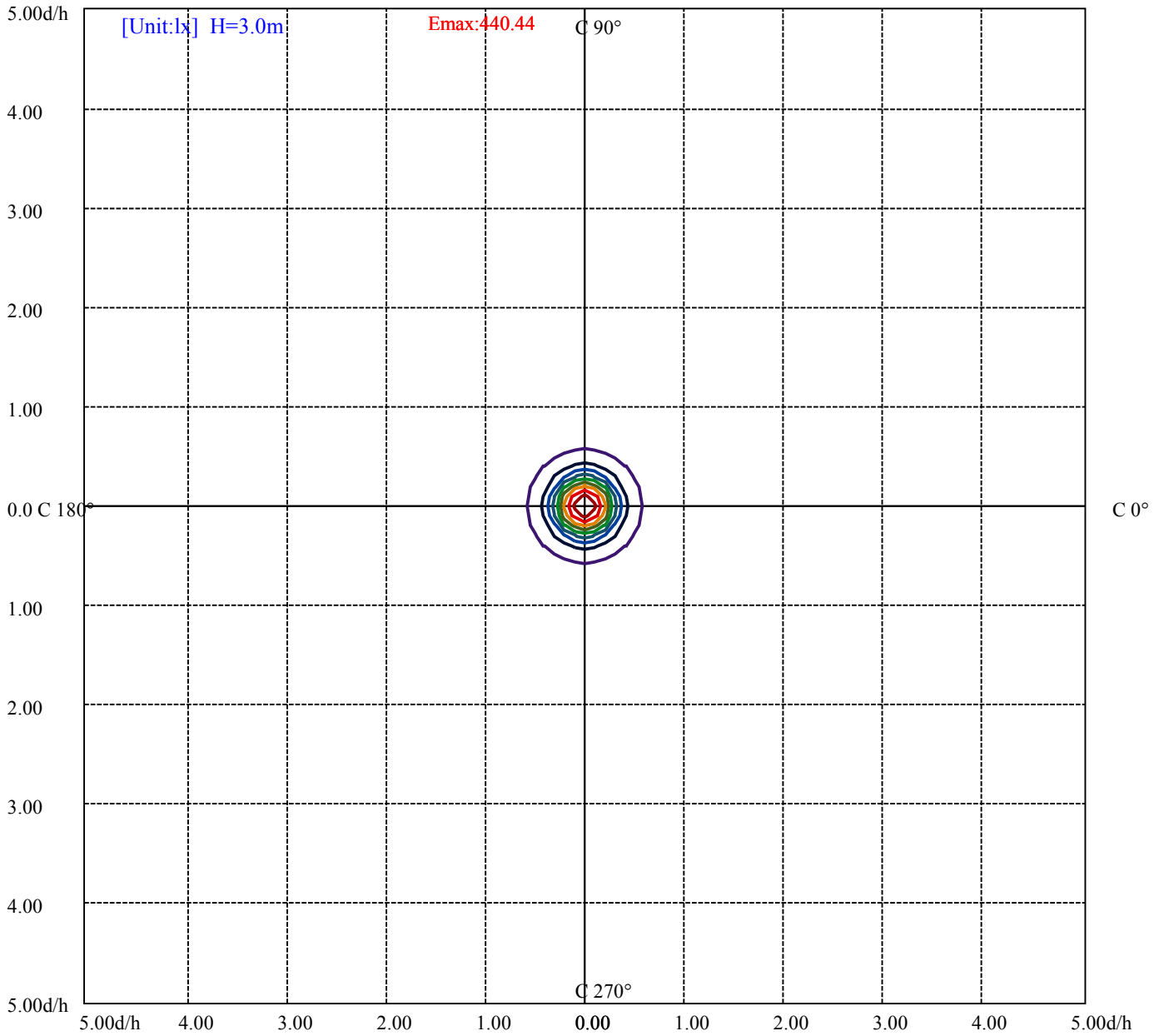
House

[Unit:cd]

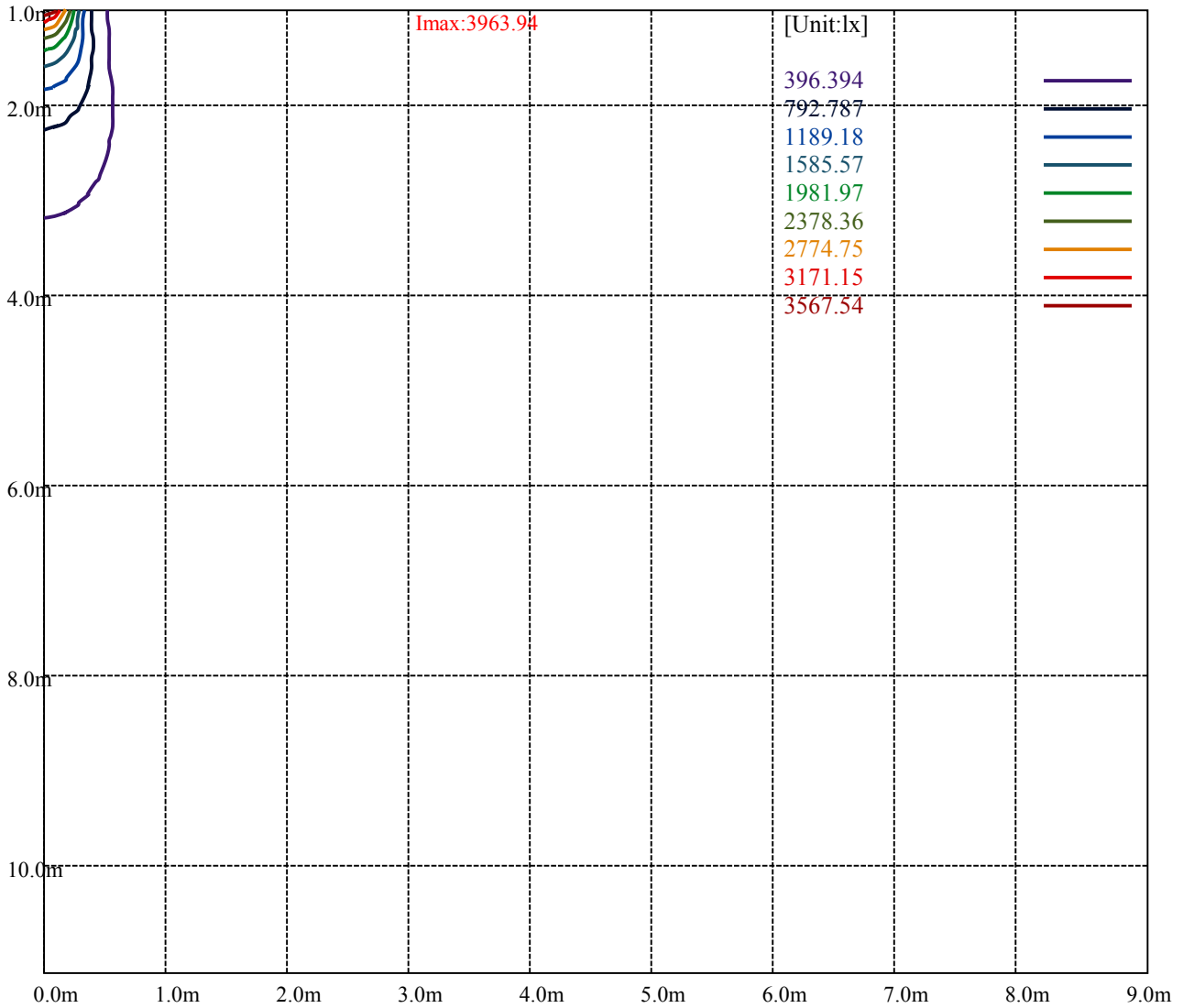
Road

Imax:3963.94

(10%Imax) 396.394	—
(20%Imax) 792.787	—
(30%Imax) 1189.18	—
(40%Imax) 1585.57	—
(50%Imax) 1981.97	—
(60%Imax) 2378.36	—
(70%Imax) 2774.75	—
(80%Imax) 3171.15	—
(90%Imax) 3567.54	—



- (10%Emax) 44.04367
- (20%Emax) 88.08733
- (30%Emax) 132.1311
- (40%Emax) 176.1744
- (50%Emax) 220.2178
- (60%Emax) 264.2622
- (70%Emax) 308.3055
- (80%Emax) 352.3489
- (90%Emax) 396.3933



Luminance Table

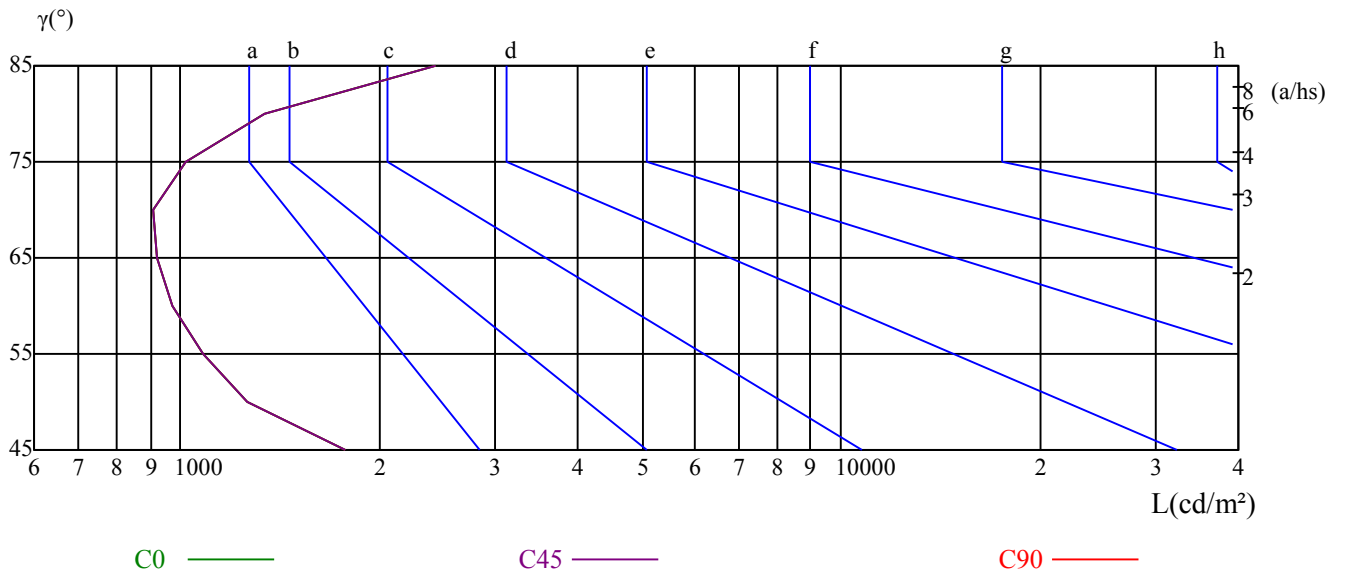
γ	45	50	55	60	65	70	75	80	85
C0	1781	1264	1080	969	918	912	1020	1340	2439
C45	1781	1264	1080	969	918	912	1020	1340	2439
C90	1781	1264	1080	969	918	912	1020	1340	2439

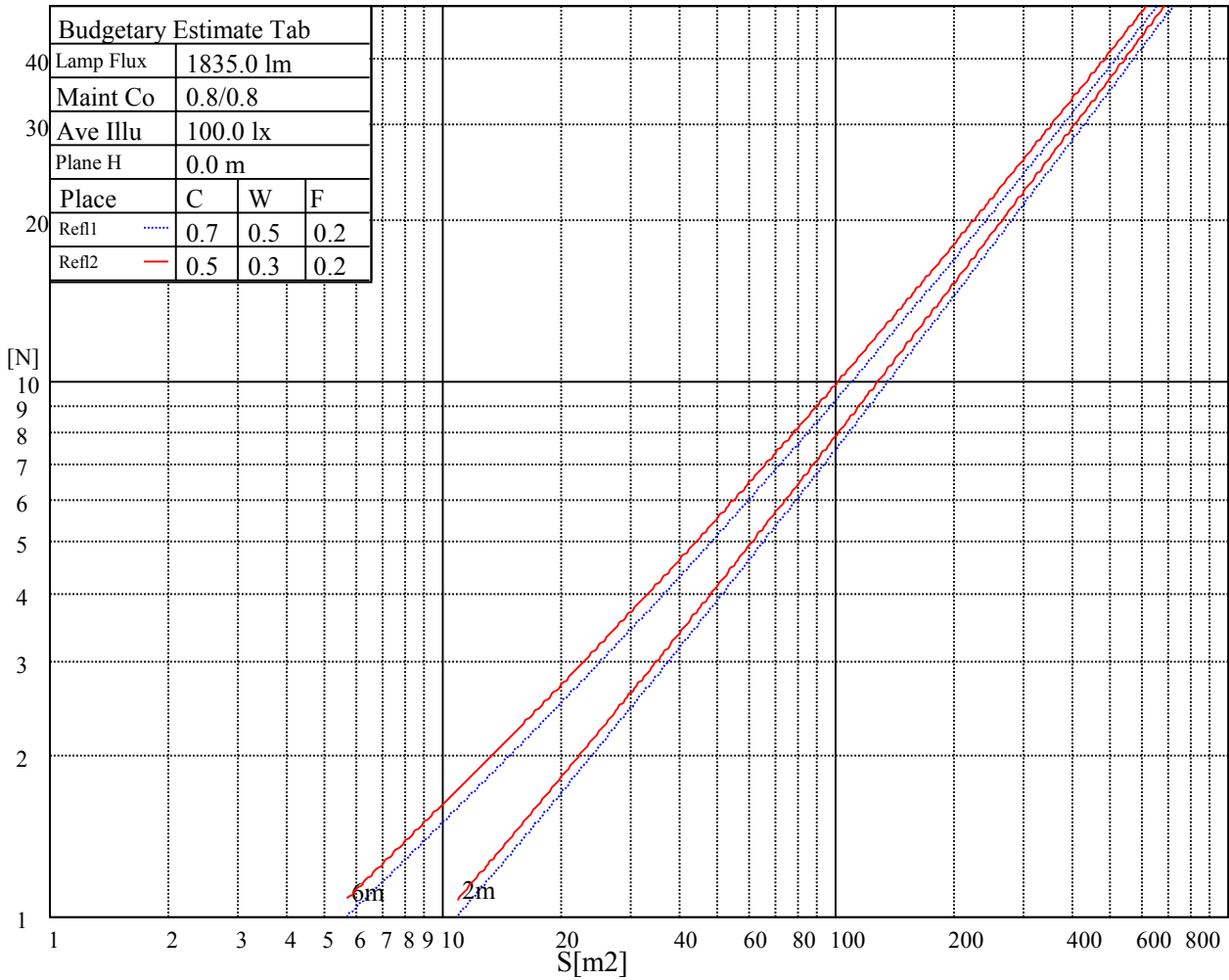
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
918	918	918	1020	1020	1020	2439	2439	2439

Glare Table

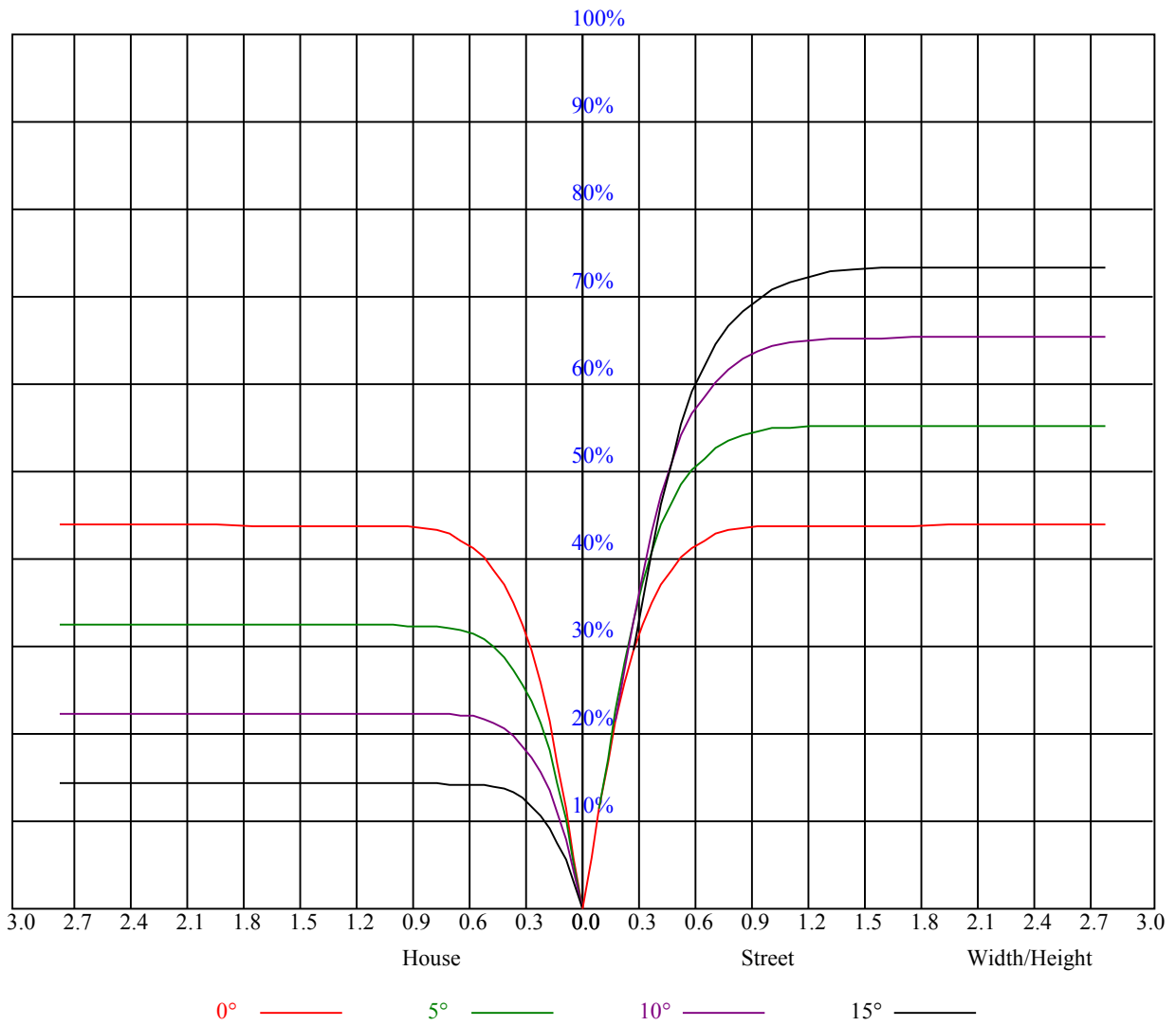
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

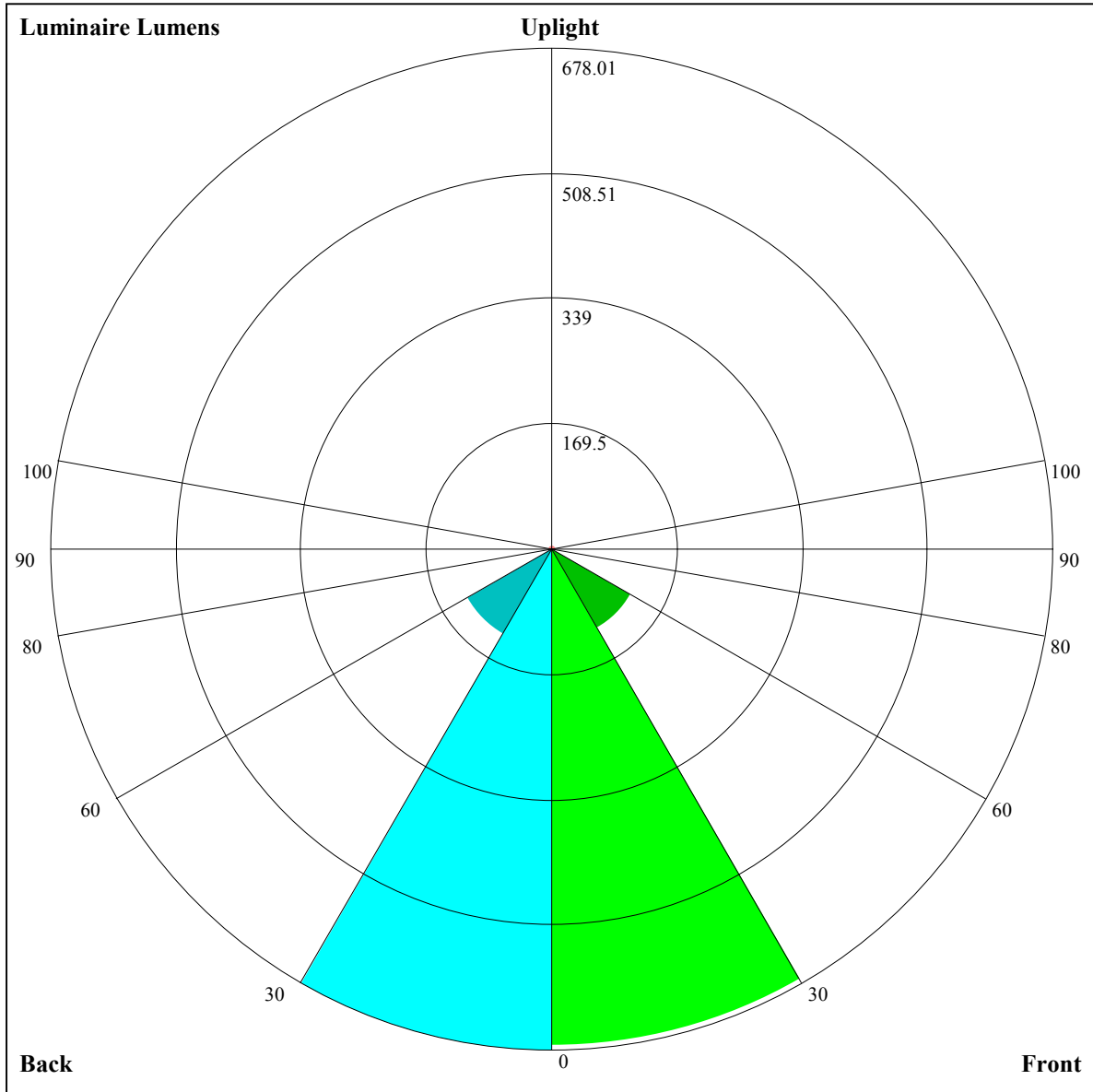
Luminance Limiting Curve





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	1.06	1.06	1.06	1.03	1.03	1.03	0.99	0.99	0.99	0.94	0.94	0.94	0.91	0.91	0.91	0.89
1	0.99	0.97	0.96	0.97	0.96	0.94	0.94	0.92	0.91	0.90	0.89	0.88	0.87	0.87	0.86	0.84
2	0.93	0.90	0.88	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.80
3	0.88	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	0.78	0.81	0.79	0.77	0.76
4	0.84	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.78	0.75	0.73	0.72
5	0.80	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.69
6	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
7	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.63
8	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.57
10	0.64	0.59	0.57	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.55





Luminaire Lumens:

FL=672.7,FM=122.6,FH=2.04,FVH=0.73

BL=678.01,BM=134.1,BH=2.03,BVH=0.72

UL=1.47,UH=7.02

BUG Rating:B2-U1-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	3975.42	3735.05	3145.27	2110.93	895.58	737.67	581.81	277.21	16.19
45.0	3940.15	3881.69	3459.88	2469.63	1575.44	879.85	599.58	424.17	269.19
90.0	3974.49	3709.53	2992.60	1984.72	836.75	685.38	556.10	230.30	10.86
135.0	3965.68	3870.09	3317.42	2400.03	1479.39	826.49	602.36	426.96	271.97
180.0	3975.42	3824.61	3300.25	2509.54	1600.03	886.81	623.24	416.75	261.76
225.0	3940.15	3624.61	2999.09	2039.94	886.68	732.06	575.96	257.54	12.71
270.0	3974.49	3861.73	3394.92	2598.17	1739.71	989.83	632.99	482.18	306.31
315.0	3965.68	3737.84	3045.50	2220.91	1373.59	787.88	582.22	324.45	19.63
360.0	3975.42	3735.05	3145.27	2110.93	895.58	737.67	581.81	277.21	16.19

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	6.54	5.06	3.85	3.06	2.37	1.90	1.62	1.44	1.35
45.0	8.40	4.92	3.81	3.02	2.41	1.95	1.67	1.44	1.35
90.0	5.61	4.27	3.25	2.60	2.09	1.76	1.53	1.35	1.30
135.0	7.89	5.34	4.04	3.11	2.46	2.00	1.62	1.44	1.35
180.0	9.00	5.52	4.18	3.20	2.55	1.95	1.67	1.44	1.25
225.0	5.99	4.50	3.39	2.69	2.18	1.72	1.48	1.39	1.21
270.0	11.18	5.06	3.90	3.02	2.46	2.00	1.67	1.44	1.25
315.0	6.68	4.87	3.76	2.88	2.37	1.90	1.58	1.39	1.30
360.0	6.54	5.06	3.85	3.06	2.37	1.90	1.62	1.44	1.35

C/γ(°)	90.0
0.0	1.62
45.0	1.30
90.0	1.25
135.0	1.53
180.0	1.35
225.0	1.25
270.0	1.30
315.0	1.21
360.0	1.62