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## Nata

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Client:

LumCAT: 3-1547-A3

Luminaire: 99.02.73.172+92.76.365.00

Report No:

Voltage(V): 34.0200

Test No: GC20190823010

Current(A): 0.4480

LampCAT: TRIDONIC SLE 15MM G7

Power (W): 15.2400

Lamp flux(lm): 2050.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 84

Width(mm): 84

Phm Type: C

Height(mm): 0

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## Photometric Results

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Lumens(lm): 1751.88, Efficiency(%): 85.46% , Luminous Efficacy(lm/W): 114.95

Central intensity(cd): 3137.906, Maximum intensity(cd): 3143.179

Angle of maximum intensity: C=0.0  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=42.2

[C90/270]Total=42.2

Field angle(10%Imax): [C0/180]Total=71.6

[C90/270]Total=71.6

Maximum s/h(1/2): C0\_180=0.69 C90\_270=0.69

Maximum s/h(1/4): C0\_180=0.66 C90\_270=0.66

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.46%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.529%

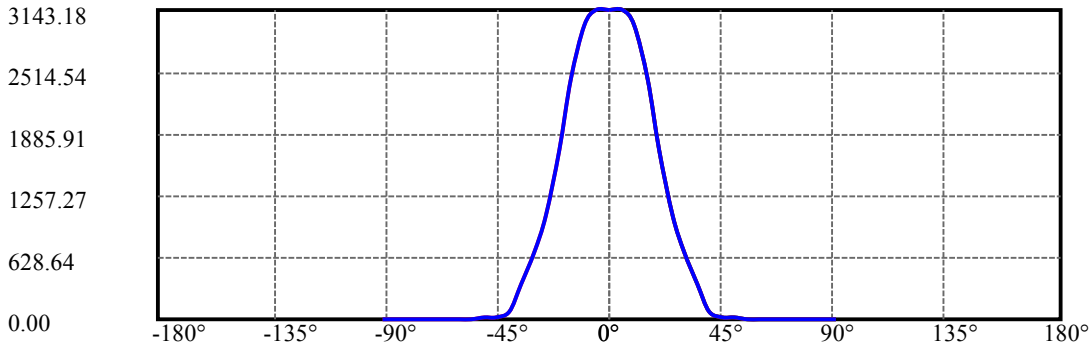
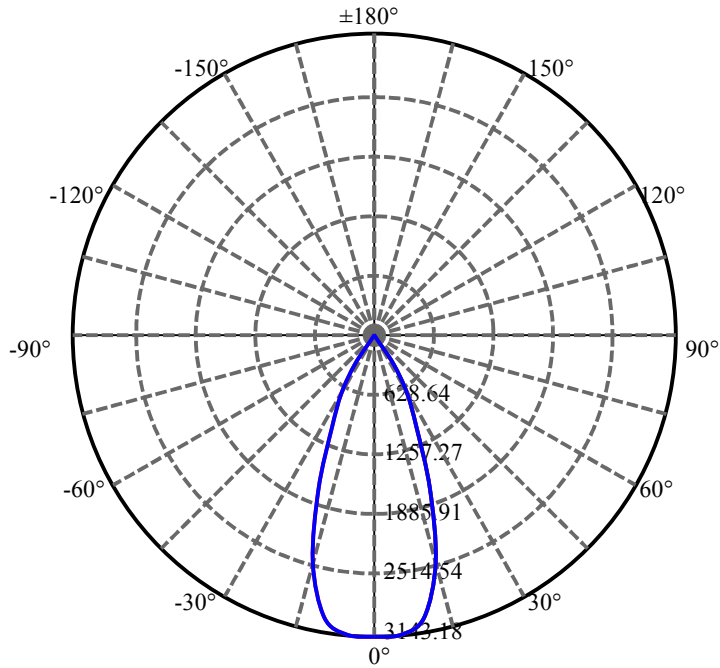
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3137.906	0.000	0	.000%	.000%
5.0	3143.180	75.089	75.089	3.663%	4.286%
10.0	2987.648	219.319	294.408	10.698%	16.805%
15.0	2445.539	322.293	616.701	15.722%	35.202%
20.0	1714.219	342.822	959.523	16.723%	54.771%
25.0	1050.138	289.930	1249.453	14.143%	71.321%
30.0	689.611	220.167	1469.62	10.740%	83.888%
35.0	360.759	154.674	1624.294	7.545%	92.717%
40.0	76.627	72.975	1697.269	3.560%	96.883%
45.0	11.236	16.268	1713.537	.794%	97.811%
50.0	9.851	4.261	1717.798	.208%	98.055%
55.0	9.225	4.148	1721.946	.202%	98.291%
60.0	8.817	4.170	1726.116	.203%	98.530%
65.0	8.508	4.212	1730.328	.205%	98.770%
70.0	8.297	4.255	1734.583	.208%	99.013%
75.0	8.149	4.299	1738.882	.210%	99.258%
80.0	8.037	4.331	1743.213	.211%	99.505%
85.0	7.952	4.345	1747.557	.212%	99.753%
90.0	7.826	4.320	1751.877	.211%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1469.62	71.69%	83.89%
0-40	1697.27	82.79%	96.88%
0-60	1726.12	84.20%	98.53%
0-90	1747.56	85.25%	99.75%
0-120	1747.56	85.25%	99.75%
0-180	1751.88	85.46%	100.00%
60-90	25.61	1.25%	1.46%
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%
0-28.45	1401.50	68.37%	80.00%

ZONAL LUMEN SUMMARY

0-10	294.41
10-20	665.12
20-30	510.10
30-40	227.65
40-50	20.53
50-60	8.32
60-70	8.47
70-80	8.63
80-90	4.34
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



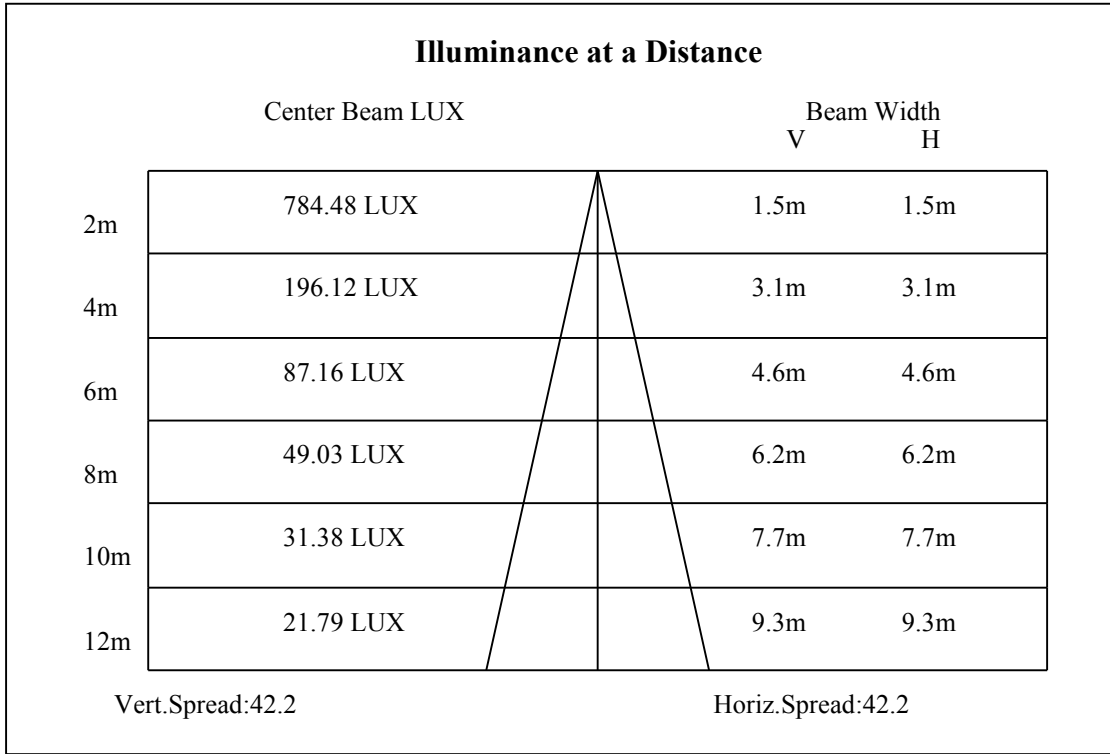
C0(Max): —————

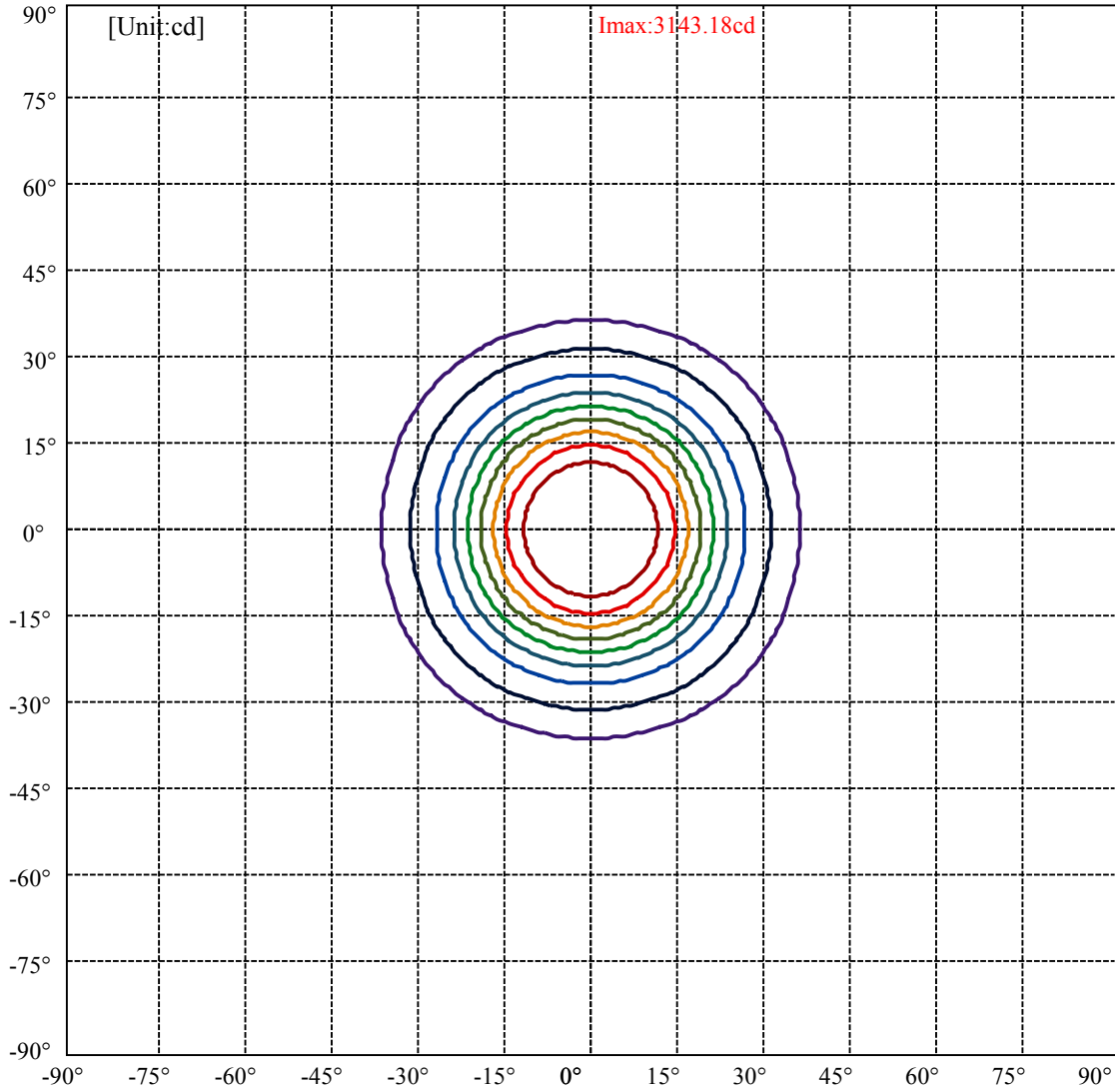
C0/C180: —————

C90/C270: —————

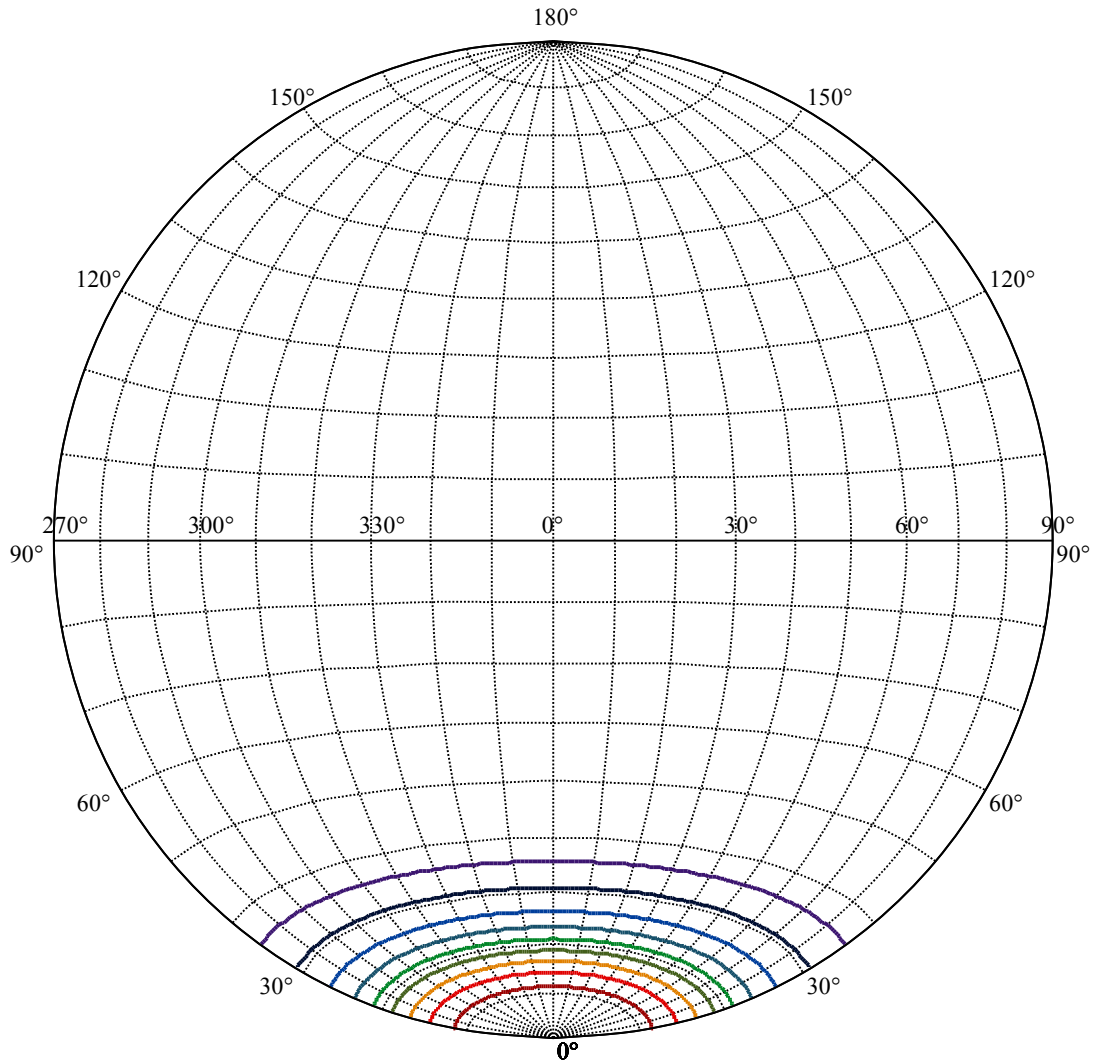
Field angle(10%Imax):C0/180Left:35.8 Right:35.8  
:C90/270Left:35.8 Right:35.8

Beam Angle(50%Imax):C0/180Left:21.1 Right:21.1  
:C90/270Left:21.1 Right:21.1





(10%Imax) 314.318	—
(20%Imax) 628.636	—
(30%Imax) 942.954	—
(40%Imax) 1257.27	—
(50%Imax) 1571.59	—
(60%Imax) 1885.91	—
(70%Imax) 2200.23	—
(80%Imax) 2514.54	—
(90%Imax) 2828.86	—



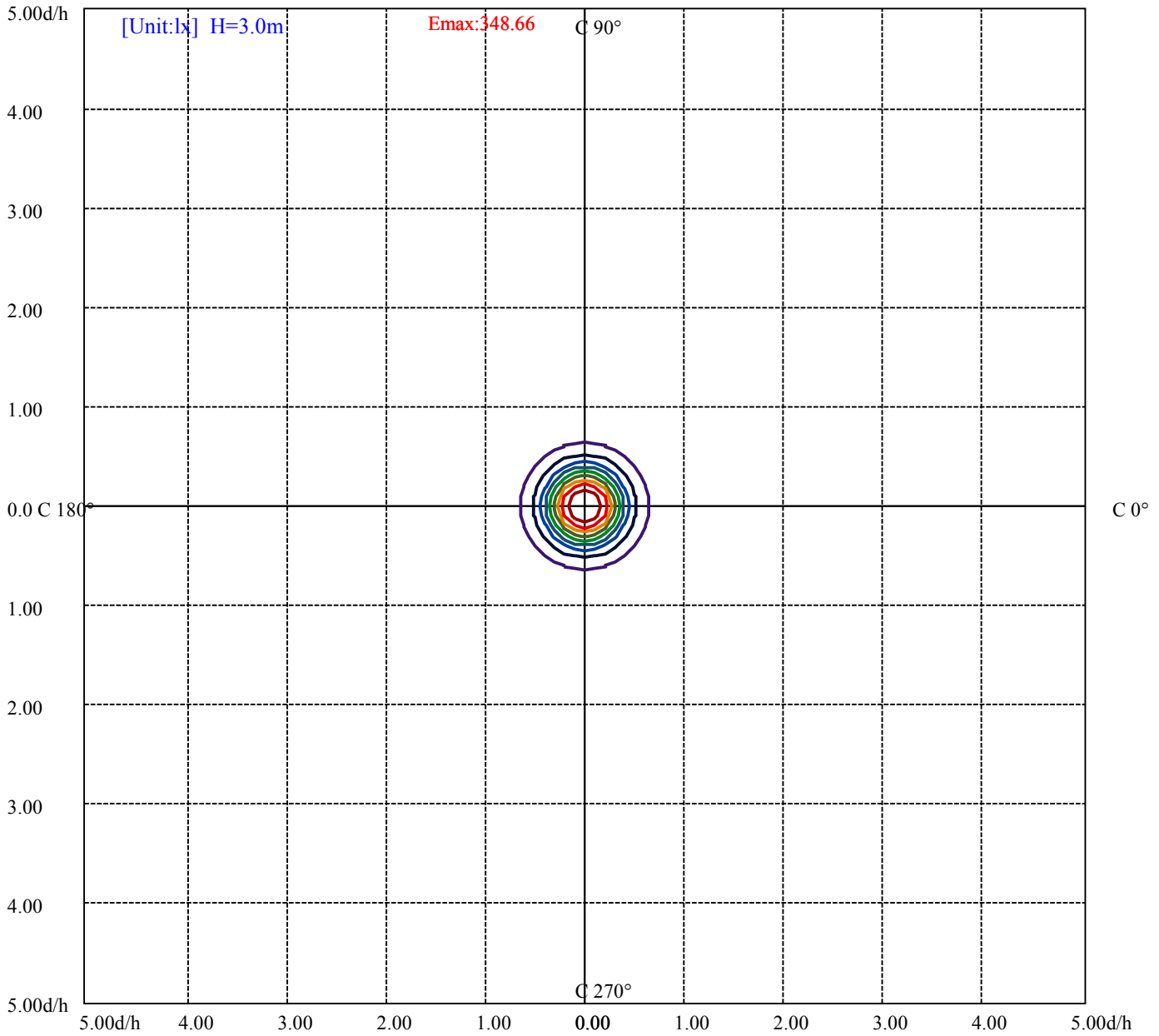
House

[Unit:cd]

Road

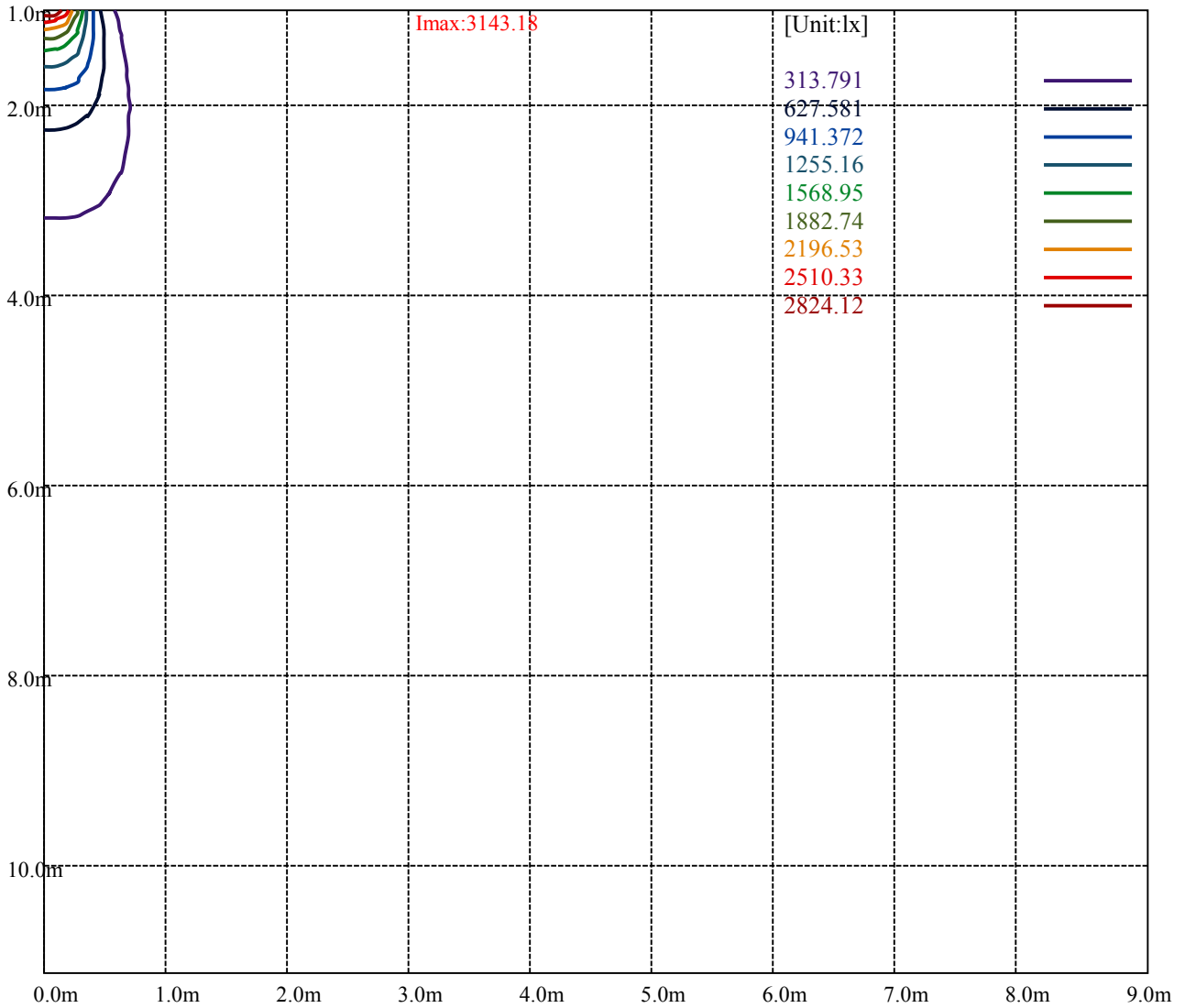
**Imax:3143.18**

(10%Imax)	314.318	—
(20%Imax)	628.636	—
(30%Imax)	942.954	—
(40%Imax)	1257.27	—
(50%Imax)	1571.59	—
(60%Imax)	1885.91	—
(70%Imax)	2200.23	—
(80%Imax)	2514.54	—
(90%Imax)	2828.86	—



(10%Emax) 34.86567	—
(20%Emax) 69.73122	—
(30%Emax) 104.5969	—
(40%Emax) 139.4622	—
(50%Emax) 174.3278	—
(60%Emax) 209.1933	—
(70%Emax) 244.0589	—
(80%Emax) 278.9256	—
(90%Emax) 313.7911	—





Luminance Table

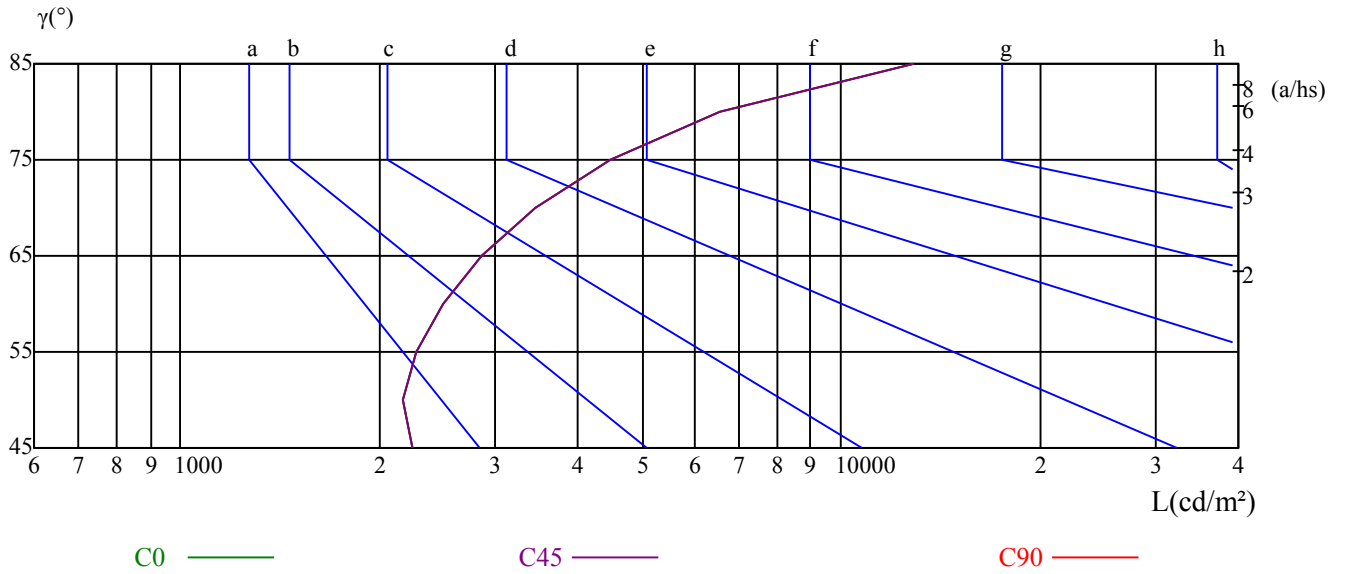
$\gamma$	45	50	55	60	65	70	75	80	85
C0	2252	2172	2279	2499	2853	3438	4462	6559	12931
C45	2252	2172	2279	2499	2853	3438	4462	6559	12931
C90	2252	2172	2279	2499	2853	3438	4462	6559	12931

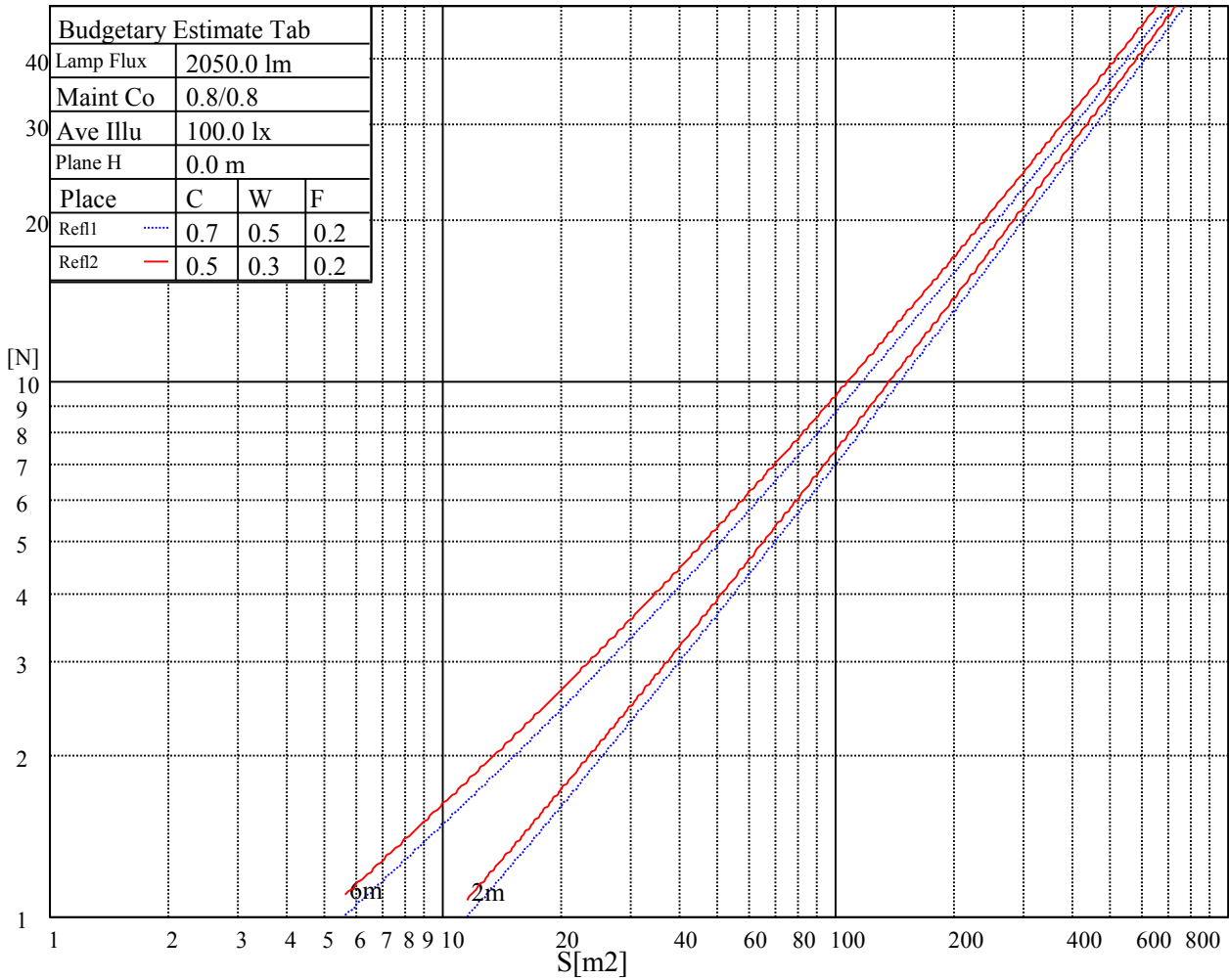
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2853	2853	2853	4462	4462	4462	12931	12931	12931

Glare Table

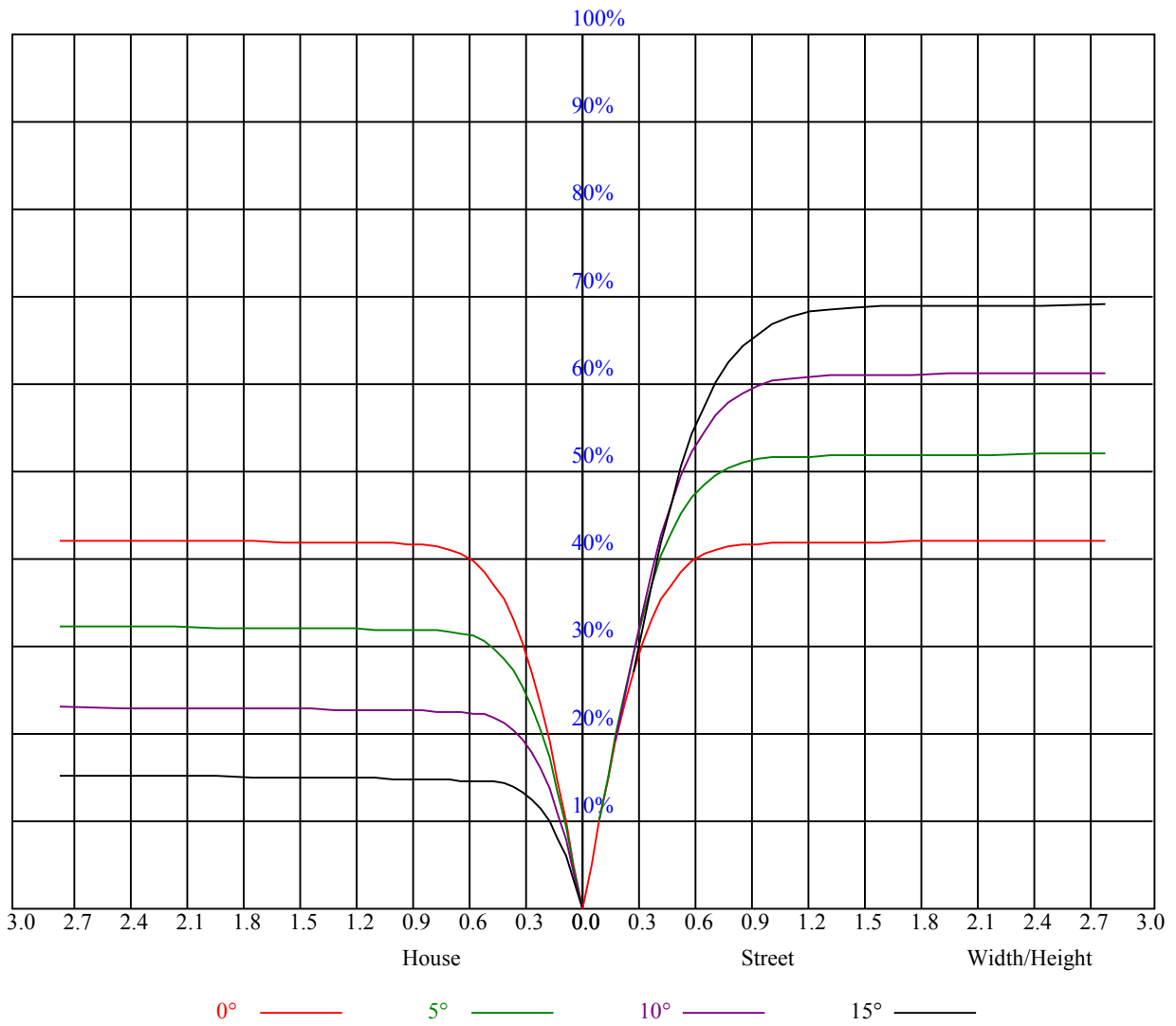
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

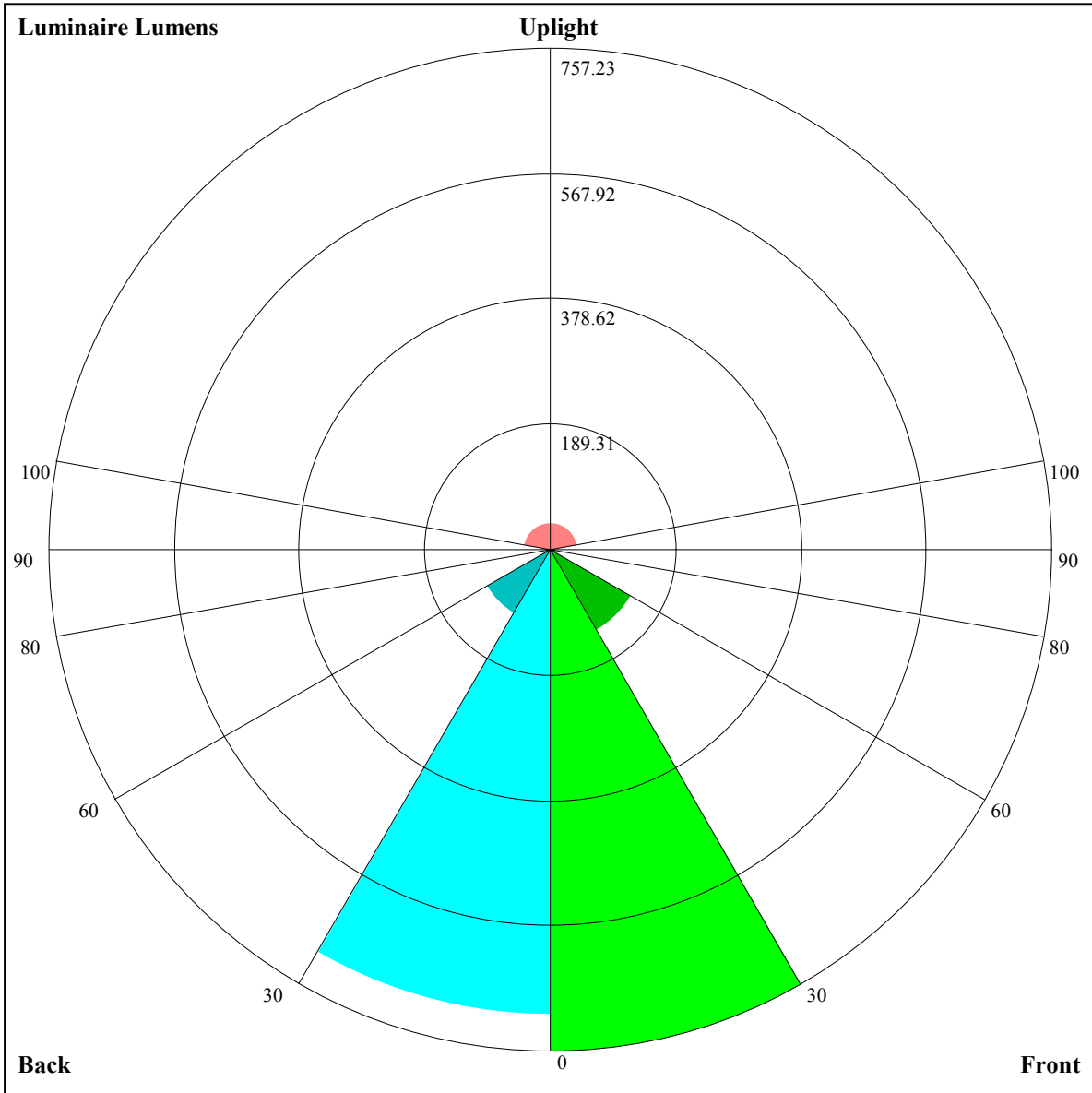
Luminance Limiting Curve





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	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.87	0.86	0.84	0.84	0.83	0.82	0.81
2	0.89	0.86	0.83	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.79	0.80	0.79	0.77	0.76
3	0.84	0.80	0.77	0.83	0.79	0.77	0.81	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.72
4	0.80	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.74	0.71	0.69	0.68
5	0.75	0.71	0.68	0.75	0.71	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
6	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61
7	0.68	0.64	0.61	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.58
8	0.65	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.56
9	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.60	0.56	0.54	0.53
10	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.51





Luminaire Lumens:

FL=757.23,FM=140.4,FH=8.56,FVH=4.34

BL=702.87,BM=111.58,BH=8.54,BVH=4.33

UL=8.54,UH=40.63

BUG Rating:B2-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	3135.38	3252.38	3175.88	2679.75	1880.44	1158.19	739.69	472.50	95.46
45.0	3122.44	3288.94	3344.63	2864.81	2024.44	1217.25	789.75	536.63	295.31
90.0	3152.25	3299.63	3231.00	2660.63	1805.06	1044.06	712.97	429.64	73.74
135.0	3141.56	3177.56	3083.63	2585.81	1857.38	1107.56	718.88	399.94	69.86
180.0	3135.38	3039.75	2762.44	2169.00	1525.50	945.23	635.18	271.52	19.01
225.0	3122.44	2918.81	2622.38	2014.88	1395.00	882.79	590.18	184.33	16.37
270.0	3152.25	3036.94	2784.94	2288.81	1600.31	1041.75	676.13	288.56	21.49
315.0	3141.56	3131.44	2896.31	2300.63	1625.63	1004.29	654.13	302.96	21.77
360.0	3135.38	3252.38	3175.88	2679.75	1880.44	1158.19	739.69	472.50	95.46

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	11.93	10.18	9.45	8.94	8.61	8.33	8.16	8.04	7.93
45.0	13.16	10.29	9.51	9.06	8.66	8.38	8.21	8.10	7.99
90.0	11.36	9.90	9.28	8.83	8.55	8.33	8.21	8.10	7.99
135.0	11.14	9.84	9.23	8.89	8.55	8.33	8.16	8.04	7.99
180.0	10.52	9.68	9.17	8.78	8.49	8.33	8.16	7.99	7.93
225.0	10.41	9.56	9.06	8.72	8.44	8.21	8.10	7.99	7.93
270.0	10.69	9.62	9.06	8.66	8.38	8.27	8.16	8.04	7.93
315.0	10.69	9.73	9.06	8.66	8.38	8.21	8.04	7.99	7.93
360.0	11.93	10.18	9.45	8.94	8.61	8.33	8.16	8.04	7.93

C/γ(°)	90.0
0.0	7.88
45.0	7.82
90.0	7.82
135.0	7.82
180.0	7.82
225.0	7.82
270.0	7.82
315.0	7.82
360.0	7.88