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Nata

Client:

LumCAT: CT01D03636AH

Luminaire:

Report No: GC2019091909

Voltage(V): 220.5000

Test No: NATA07

Current(A): 0.0420

LampCAT: TRIDONIC SLE G7 9MM

Power (W): 8.3500

Lamp flux(lm): 1030.0

PF: 0.8980

Number of Lamps: 1

Ballast type: AC

Length(mm): 36

Width(mm): 36

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 850.55, Efficiency(%): 82.58% , Luminous Efficacy(lm/W): 101.86

Central intensity(cd): 1304.676, Maximum intensity(cd): 1304.676

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=38.6

[C90/270]Total=38.6

Field angle(10%Imax): [C0/180]Total=77.4

[C90/270]Total=77.4

Maximum s/h(1/2): C0_180=0.62 C90_270=0.62

Maximum s/h(1/4): C0_180=0.64 C90_270=0.64

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 82.58%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 89.466%

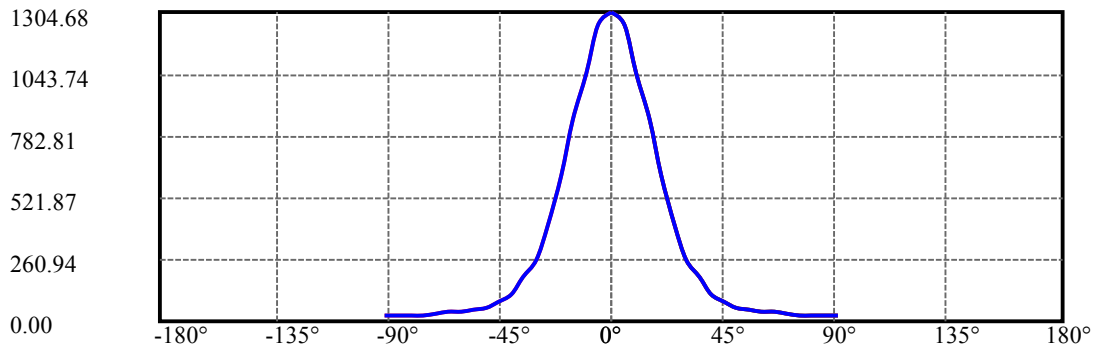
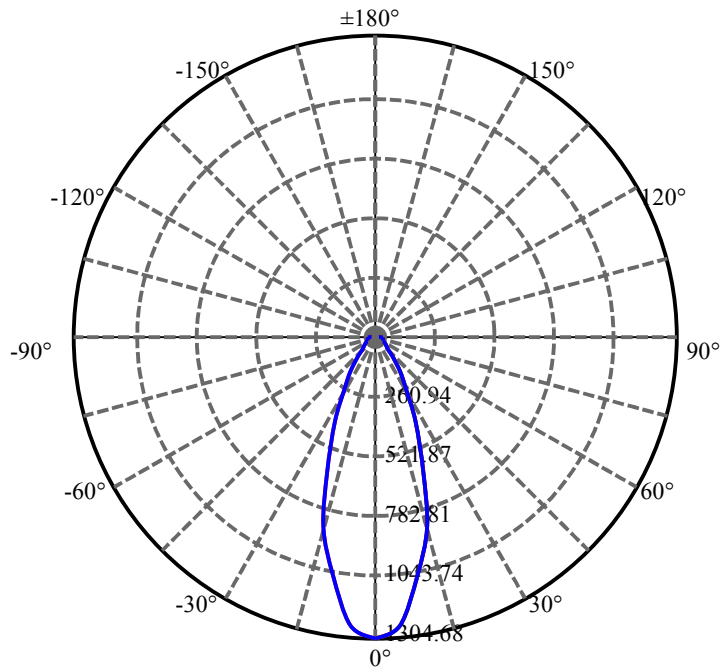
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1304.676	0.000	0	.000%	.000%
5.0	1248.528	30.523	30.523	2.963%	3.589%
10.0	1046.430	82.098	112.621	7.971%	13.241%
15.0	852.070	112.618	225.238	10.934%	26.482%
20.0	618.818	121.222	346.46	11.769%	40.734%
25.0	405.664	107.449	453.909	10.432%	53.367%
30.0	259.841	84.220	538.13	8.177%	63.268%
35.0	182.348	65.115	603.245	6.322%	70.924%
40.0	112.145	49.134	652.379	4.770%	76.701%
45.0	80.533	35.676	688.055	3.464%	80.895%
50.0	60.278	28.453	716.508	2.762%	84.241%
55.0	48.480	23.648	740.155	2.296%	87.021%
60.0	41.496	20.798	760.953	2.019%	89.466%
65.0	36.485	18.957	779.91	1.841%	91.695%
70.0	31.467	17.206	797.116	1.670%	93.718%
75.0	26.897	15.255	812.372	1.481%	95.511%
80.0	24.252	13.686	826.057	1.329%	97.120%
85.0	22.569	12.722	838.78	1.235%	98.616%
90.0	20.417	11.770	850.55	1.143%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	538.13	52.25%	63.27%
0-40	652.38	63.34%	76.70%
0-60	760.95	73.88%	89.47%
0-90	838.78	81.43%	98.62%
0-120	838.78	81.43%	98.62%
0-180	850.55	82.58%	100.00%
60-90	98.62	9.58%	11.60%
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%
0-43.93	680.44	66.06%	80.00%

ZONAL LUMEN SUMMARY

0-10	112.62
10-20	233.84
20-30	191.67
30-40	114.25
40-50	64.13
50-60	44.45
60-70	36.16
70-80	28.94
80-90	12.72
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: —————

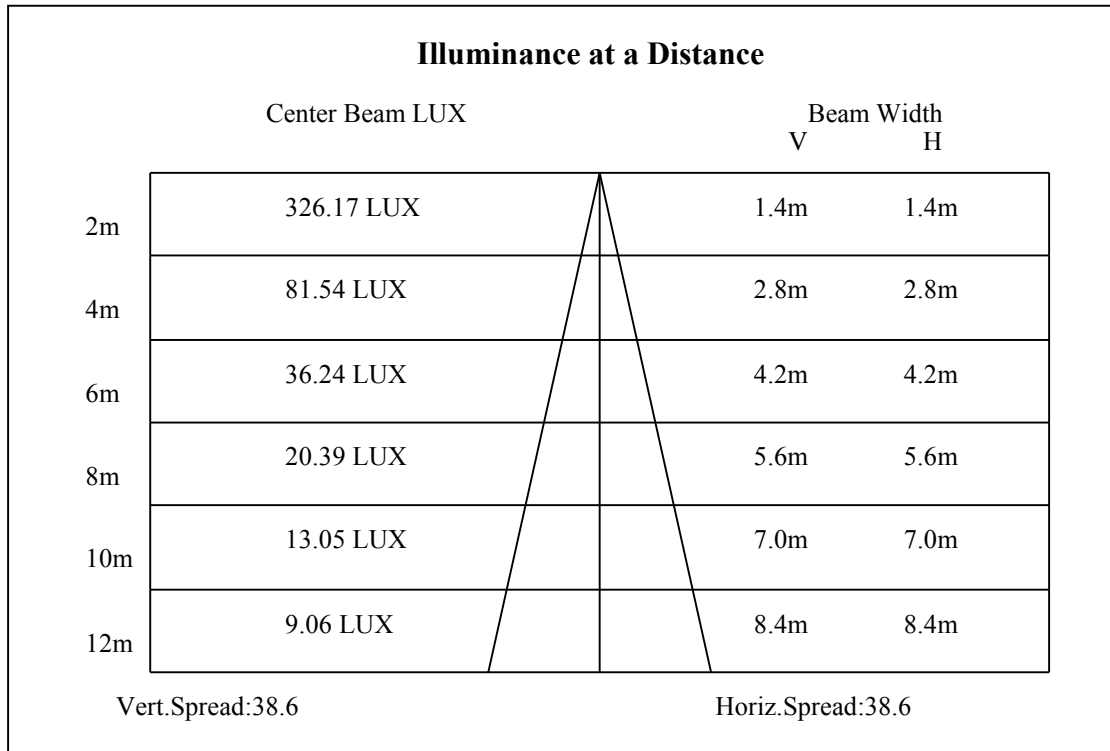
C90/C270: —————

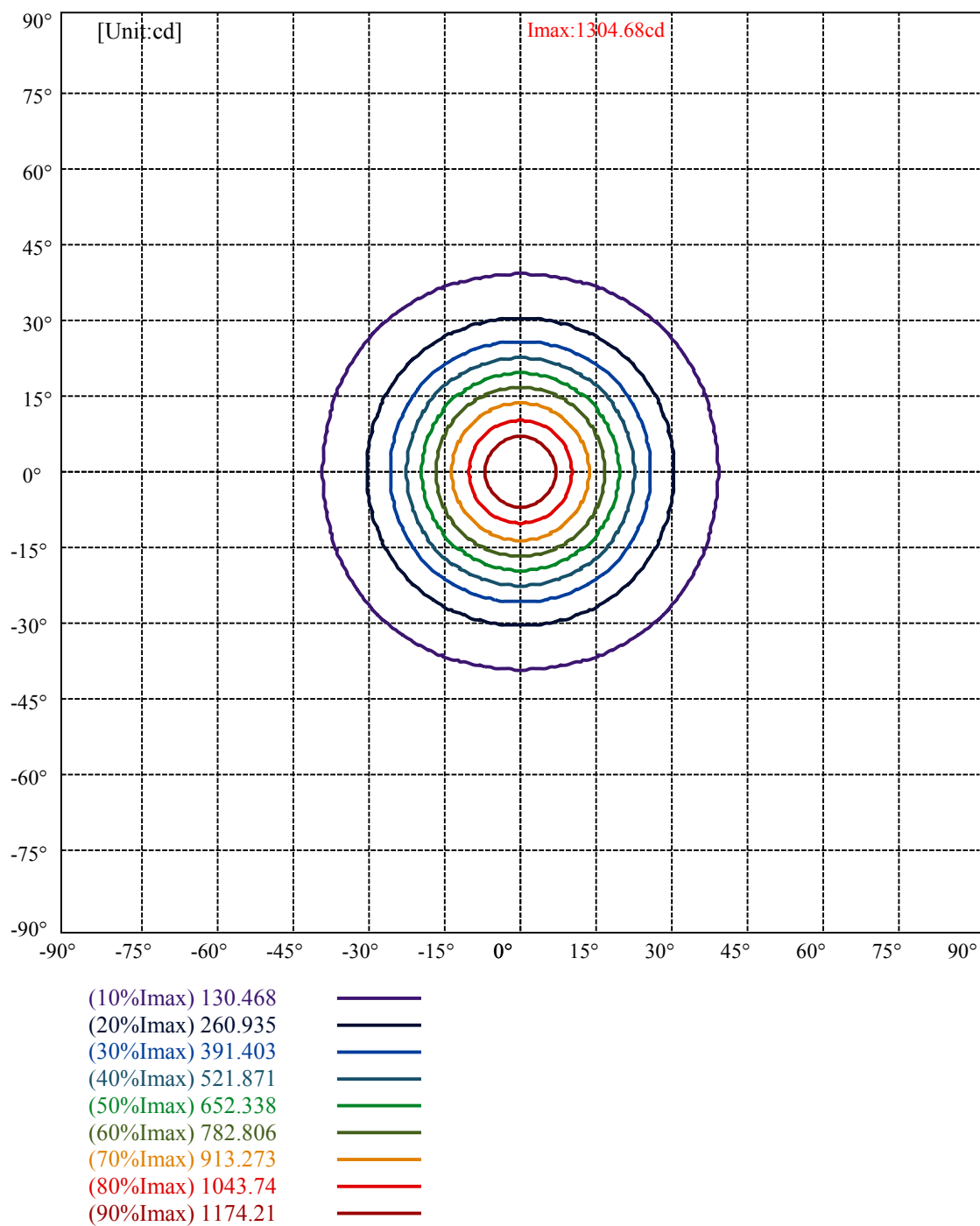
Field angle(10%Imax):C0/180Left:38.7 Right:38.7

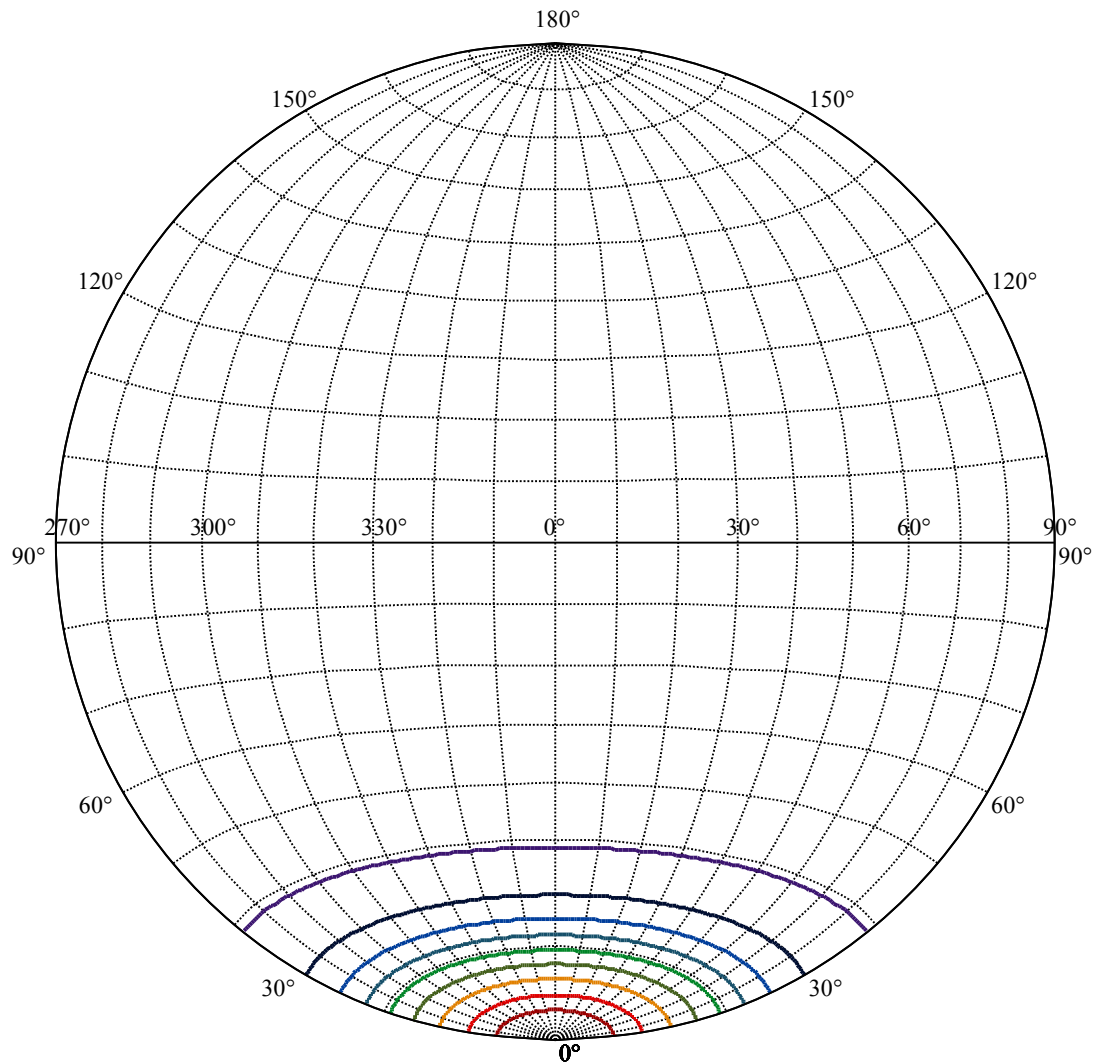
:C90/270Left:38.7 Right:38.7

Beam Angle(50%Imax):C0/180Left:19.3 Right:19.3

:C90/270Left:19.3 Right:19.3







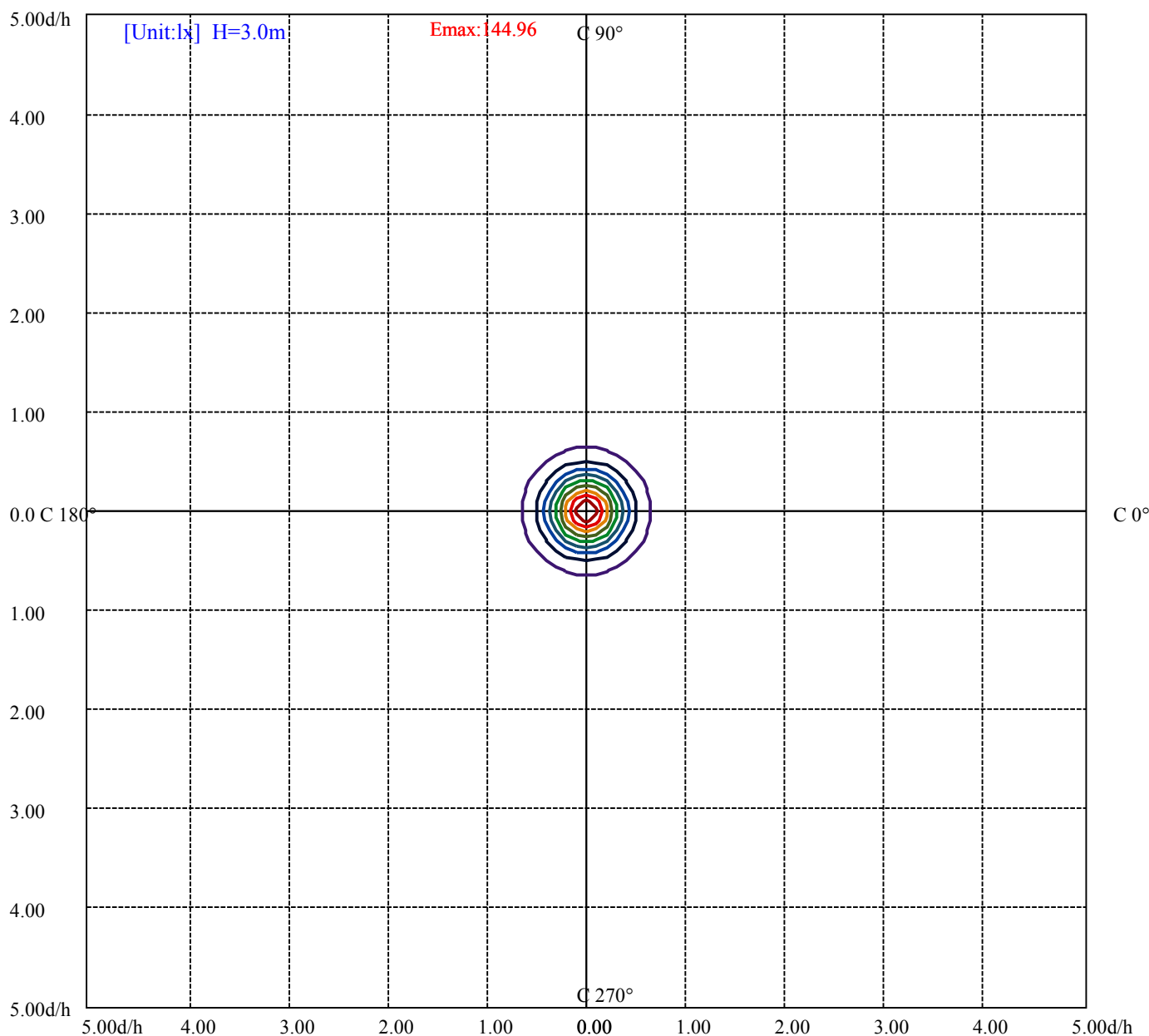
House

[Unit:cd]

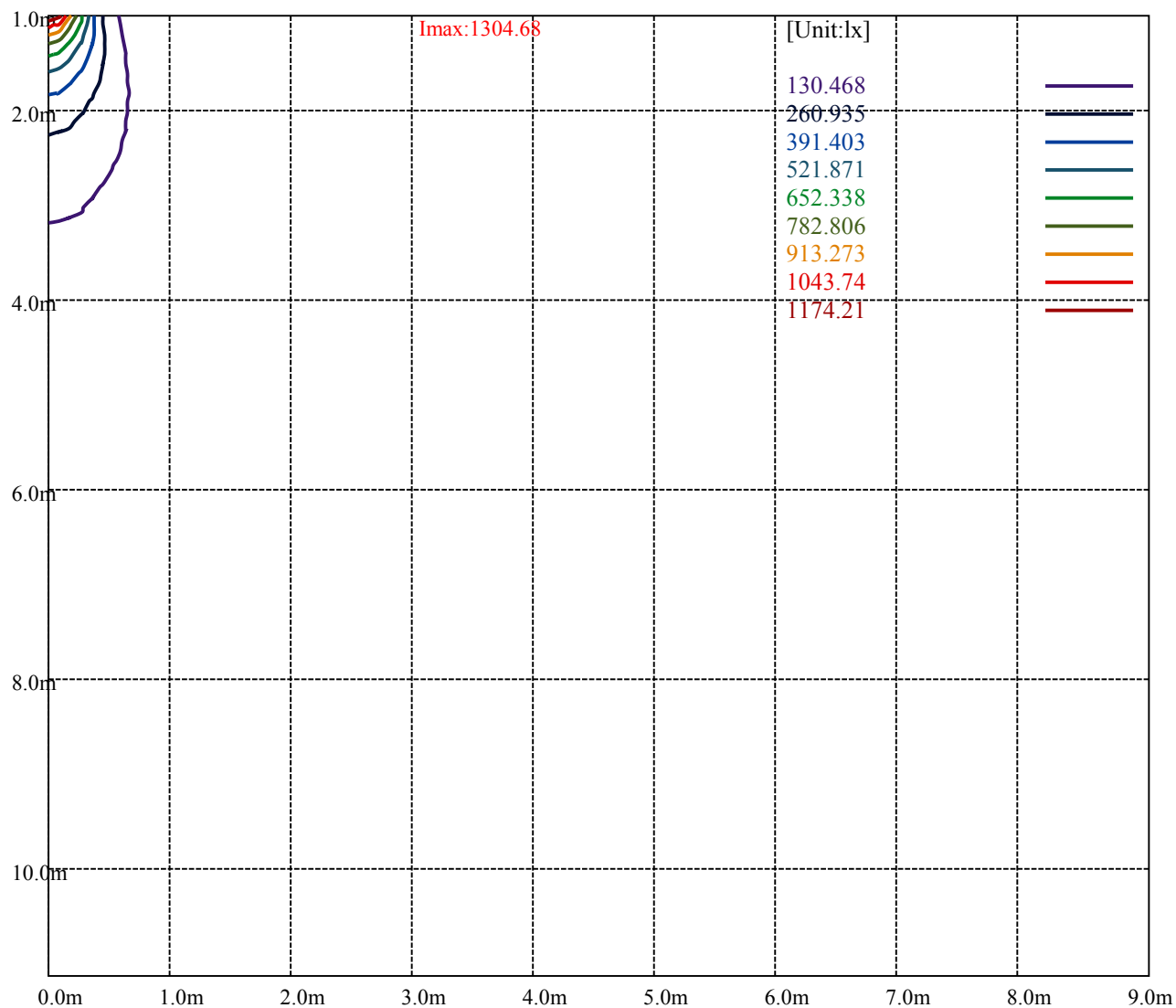
Road

Imax:1304.68

(10%Imax)	130.468	—
(20%Imax)	260.935	—
(30%Imax)	391.403	—
(40%Imax)	521.871	—
(50%Imax)	652.338	—
(60%Imax)	782.806	—
(70%Imax)	913.273	—
(80%Imax)	1043.74	—
(90%Imax)	1174.21	—



(10%Emax)	14.49633	—
(20%Emax)	28.99278	—
(30%Emax)	43.48911	—
(40%Emax)	57.98555	—
(50%Emax)	72.48189	—
(60%Emax)	86.97833	—
(70%Emax)	101.4747	—
(80%Emax)	115.9711	—
(90%Emax)	130.4678	—



Luminance Table

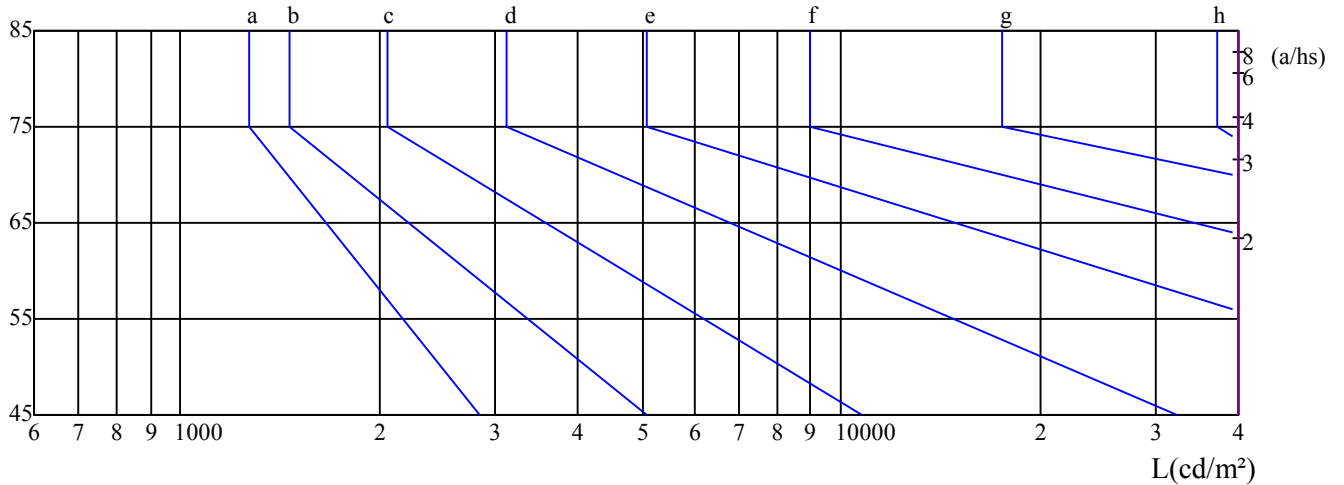
γ	45	50	55	60	65	70	75	80	85
C0	87879	72358	65218	64037	66613	70991	80185	107762	199811
C45	87879	72358	65218	64037	66613	70991	80185	107762	199811
C90	87879	72358	65218	64037	66613	70991	80185	107762	199811

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
66613	66613	66613	80185	80185	80185	199811	199811	199811

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

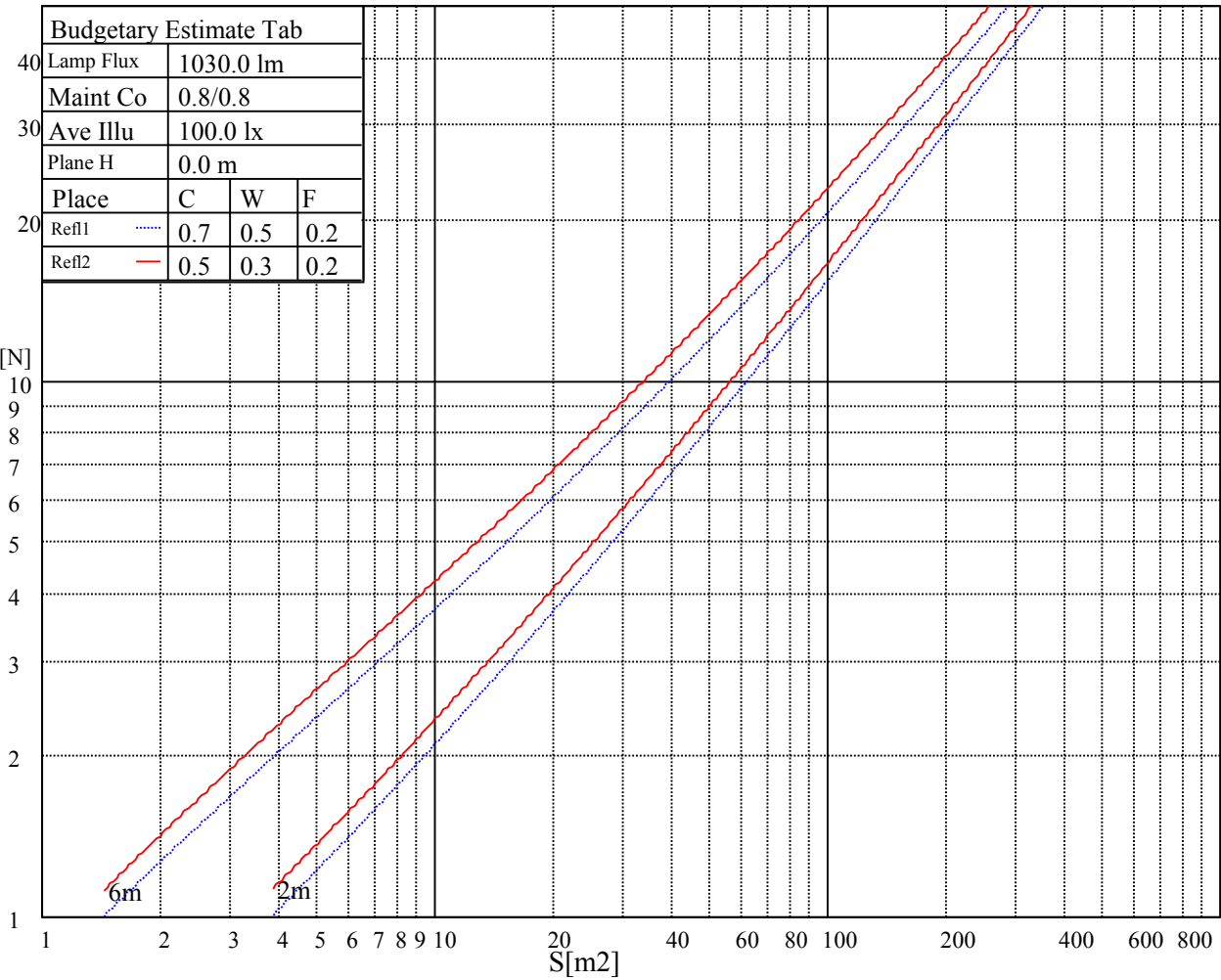
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

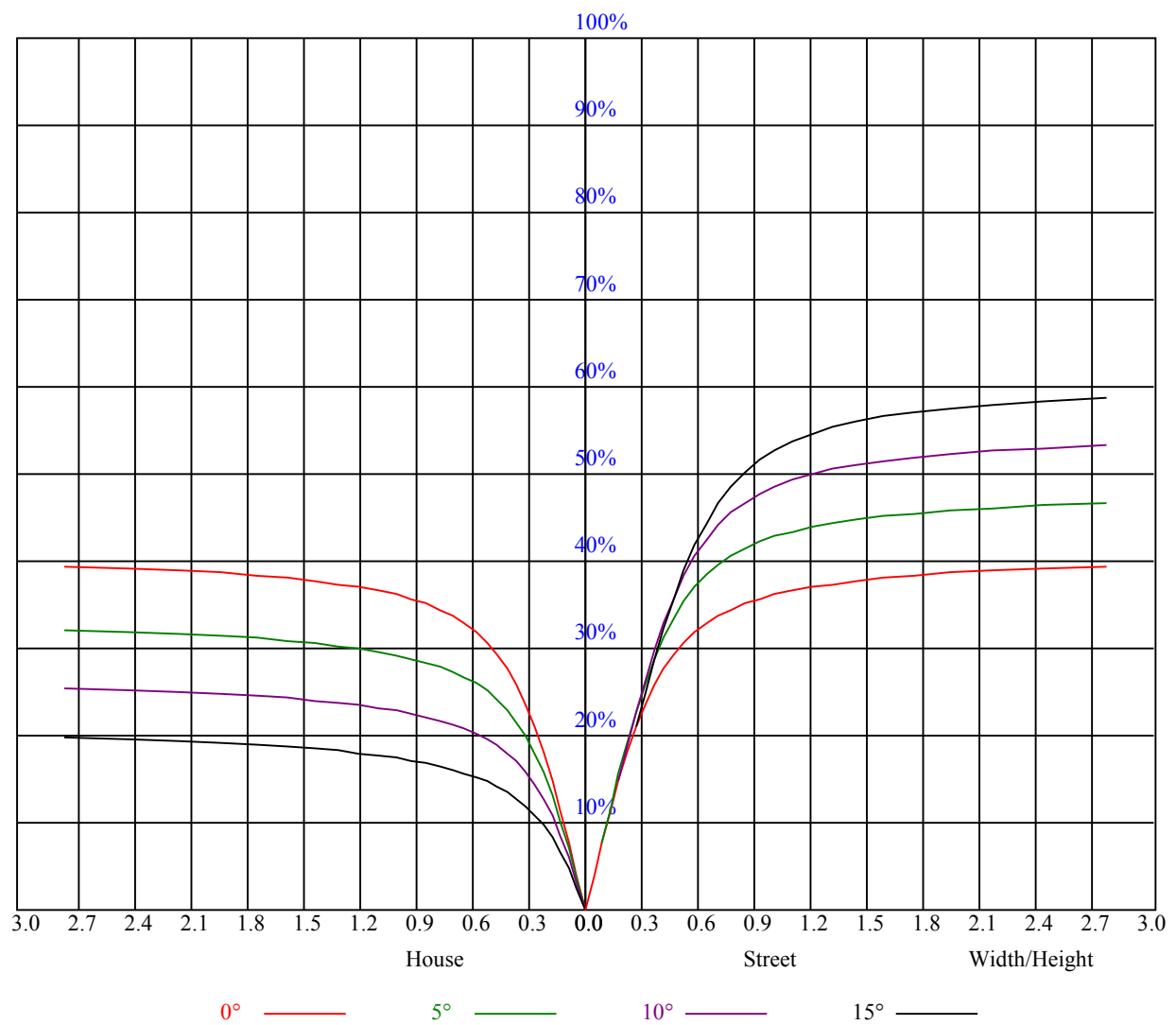
C0 ———

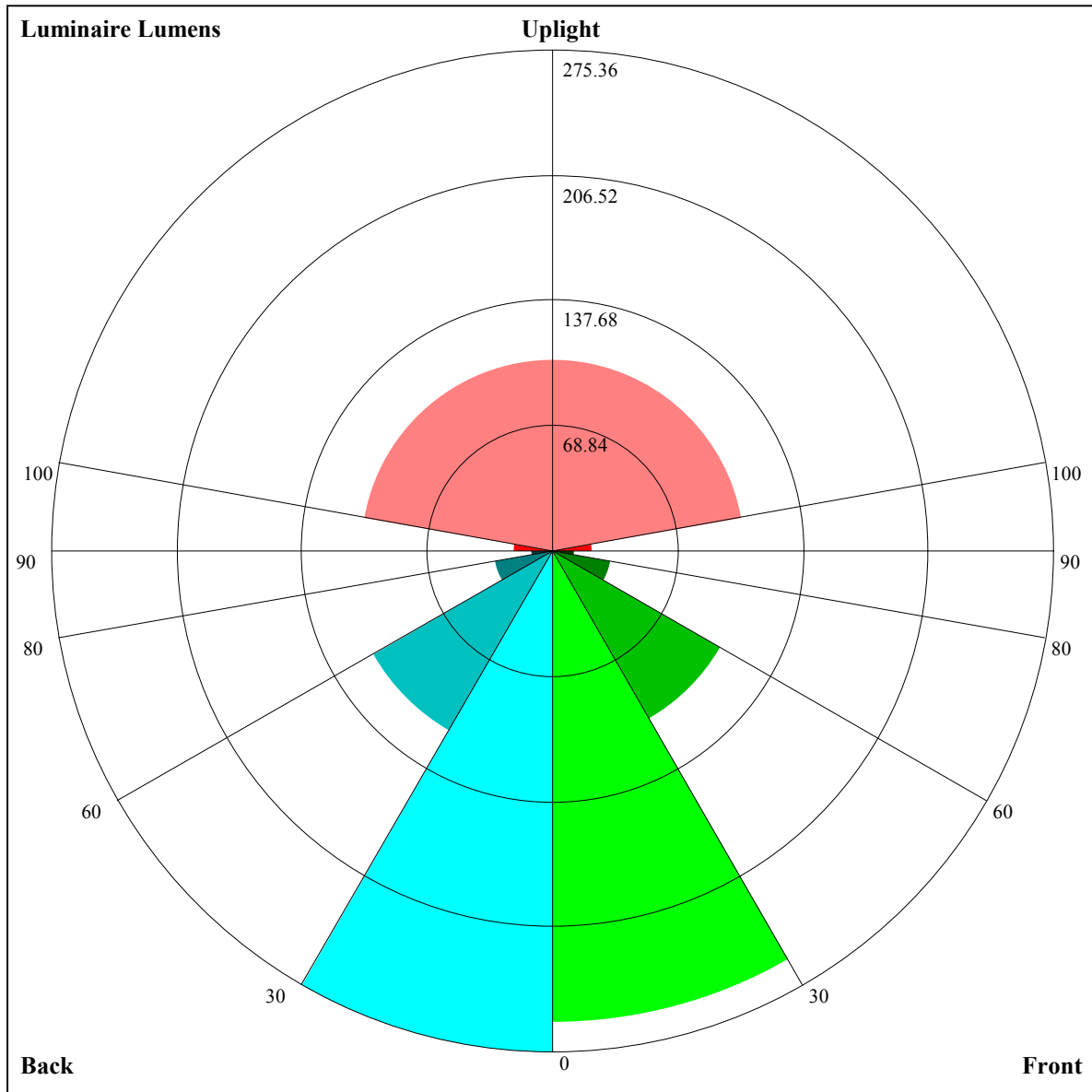
C45 ———

C90 ———



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	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.83
1	0.89	0.86	0.84	0.87	0.85	0.82	0.84	0.82	0.80	0.80	0.79	0.77	0.78	0.76	0.75	0.73
2	0.81	0.77	0.74	0.80	0.76	0.73	0.77	0.74	0.71	0.75	0.72	0.70	0.72	0.70	0.68	0.67
3	0.75	0.70	0.66	0.74	0.69	0.66	0.72	0.68	0.64	0.69	0.66	0.63	0.67	0.65	0.62	0.61
4	0.70	0.64	0.60	0.69	0.64	0.60	0.67	0.62	0.59	0.65	0.61	0.58	0.63	0.60	0.58	0.56
5	0.65	0.59	0.55	0.64	0.59	0.55	0.63	0.58	0.55	0.61	0.57	0.54	0.60	0.56	0.54	0.52
6	0.61	0.55	0.51	0.60	0.55	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.57	0.53	0.50	0.49
7	0.57	0.52	0.48	0.57	0.52	0.48	0.56	0.51	0.48	0.55	0.50	0.47	0.54	0.50	0.47	0.46
8	0.54	0.49	0.45	0.54	0.49	0.45	0.53	0.48	0.45	0.52	0.48	0.45	0.51	0.47	0.44	0.43
9	0.51	0.46	0.43	0.51	0.46	0.43	0.50	0.46	0.42	0.49	0.45	0.42	0.49	0.45	0.42	0.41
10	0.49	0.44	0.40	0.48	0.44	0.40	0.48	0.43	0.40	0.47	0.43	0.40	0.46	0.43	0.40	0.39





Luminaire Lumens:

FL=259.61,FM=106.55,FH=32.25,FVH=12.2

BL=275.36,BM=114.16,BH=32.92,BVH=12.38

UL=22.28,UH=106.01

BUG Rating:B1-U3-G1

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	1306.76	1204.68	886.49	765.66	537.54	353.04	231.04	139.67	100.65
45.0	1297.95	1287.74	1168.48	924.40	703.52	485.43	311.41	245.98	124.22
90.0	1318.37	1271.96	1103.98	887.79	649.60	421.44	267.56	169.60	111.14
135.0	1295.63	1303.05	1179.16	977.76	740.18	491.46	316.52	250.62	137.12
180.0	1306.76	1278.92	1138.32	944.82	704.91	467.79	300.74	231.60	128.86
225.0	1297.95	1194.93	908.95	767.46	515.08	333.92	211.74	131.51	90.86
270.0	1318.37	1254.33	1086.35	833.91	593.55	390.30	240.88	157.17	109.74
315.0	1295.63	1192.61	899.71	714.75	506.17	301.95	198.84	132.62	94.57
360.0	1306.76	1204.68	886.49	765.66	537.54	353.04	231.04	139.67	100.65
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	70.16	55.45	47.19	40.74	35.96	30.95	26.50	24.73	22.74
45.0	88.77	63.71	50.63	43.39	37.59	31.97	27.80	23.20	21.48
90.0	81.86	61.95	49.00	43.02	37.91	33.41	27.93	25.15	24.27
135.0	92.62	70.77	53.74	45.29	39.07	34.34	30.16	24.78	26.17
180.0	91.32	66.26	50.72	43.53	38.93	34.11	29.84	25.71	24.27
225.0	68.96	52.90	43.20	37.31	32.76	27.56	23.02	21.44	19.03
270.0	83.15	58.14	47.56	40.09	35.59	30.72	25.52	23.94	21.39
315.0	67.42	53.04	45.80	38.61	34.06	28.68	24.41	25.06	21.21
360.0	70.16	55.45	47.19	40.74	35.96	30.95	26.50	24.73	22.74
C/γ(°)	90.0								
0.0	21.35								
45.0	18.05								
90.0	21.25								
135.0	20.93								
180.0	20.74								
225.0	18.47								
270.0	21.44								
315.0	21.11								
360.0	21.35								