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NATA

Client:

LumCAT: LN01D06337BF

Luminaire: 92.70.131.00

Report No:

Voltage(V): 220.5000

Test No: GC2019082940

Current(A): 0.0710

LampCAT: TRIDONIC SLE G7 13MM

Power (W): 14.4600

Lamp flux(lm): 1504.0

PF: 0.9200

Number of Lamps: 1

Ballast type: AC

Length(mm): 63

Width(mm): 63

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1396.67, Efficiency(%): 92.86% , Luminous Efficacy(lm/W): 96.59

Central intensity(cd): 3033.200, Maximum intensity(cd): 3033.200

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=37.2

[C90/270]Total=37.2

Field angle(10%Imax): [C0/180]Total=58.4

[C90/270]Total=58.4

Maximum s/h(1/2): C0_180=0.63 C90_270=0.63

Maximum s/h(1/4): C0_180=0.59 C90_270=0.59

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.86%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.024%

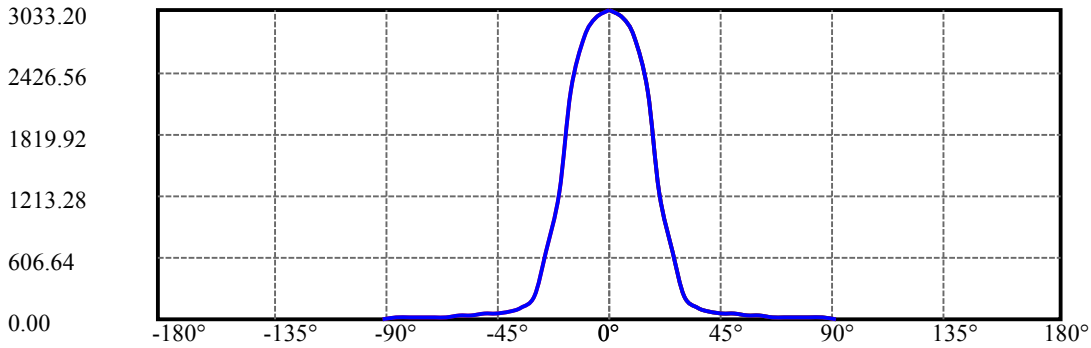
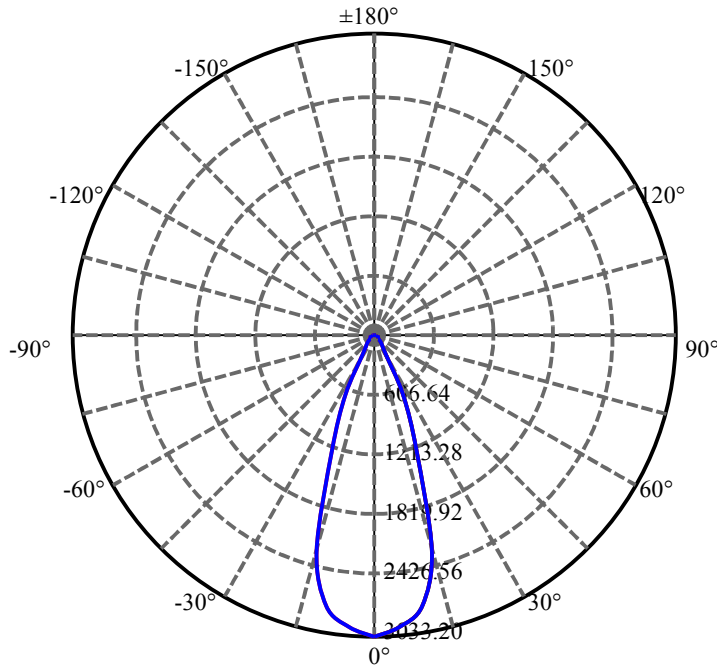
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3033.201	0.000	0	.000%	.000%
5.0	2949.791	71.525	71.525	4.756%	5.121%
10.0	2773.806	204.751	276.276	13.614%	19.781%
15.0	2244.924	297.708	573.984	19.794%	41.097%
20.0	1238.128	287.052	861.036	19.086%	61.649%
25.0	664.757	199.577	1060.614	13.270%	75.939%
30.0	233.154	113.631	1174.245	7.555%	84.075%
35.0	118.271	51.750	1225.995	3.441%	87.780%
40.0	81.281	33.294	1259.288	2.214%	90.164%
45.0	62.633	26.647	1285.935	1.772%	92.072%
50.0	47.204	22.194	1308.129	1.476%	93.661%
55.0	35.905	18.071	1326.2	1.201%	94.955%
60.0	28.695	14.932	1341.132	.993%	96.024%
65.0	24.698	12.980	1354.112	.863%	96.953%
70.0	21.433	11.681	1365.792	.777%	97.789%
75.0	18.022	10.313	1376.105	.686%	98.528%
80.0	14.588	8.726	1384.831	.580%	99.152%
85.0	10.725	6.878	1391.709	.457%	99.645%
90.0	7.390	4.960	1396.669	.330%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1174.24	78.07%	84.07%
0-40	1259.29	83.73%	90.16%
0-60	1341.13	89.17%	96.02%
0-90	1391.71	92.53%	99.64%
0-120	1391.71	92.53%	99.64%
0-180	1396.67	92.86%	100.00%
60-90	65.51	4.36%	4.69%
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%
0-27.50	1117.34	74.29%	80.00%

ZONAL LUMEN SUMMARY

0-10	276.28
10-20	584.76
20-30	313.21
30-40	85.04
40-50	48.84
50-60	33.00
60-70	24.66
70-80	19.04
80-90	6.88
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: —————

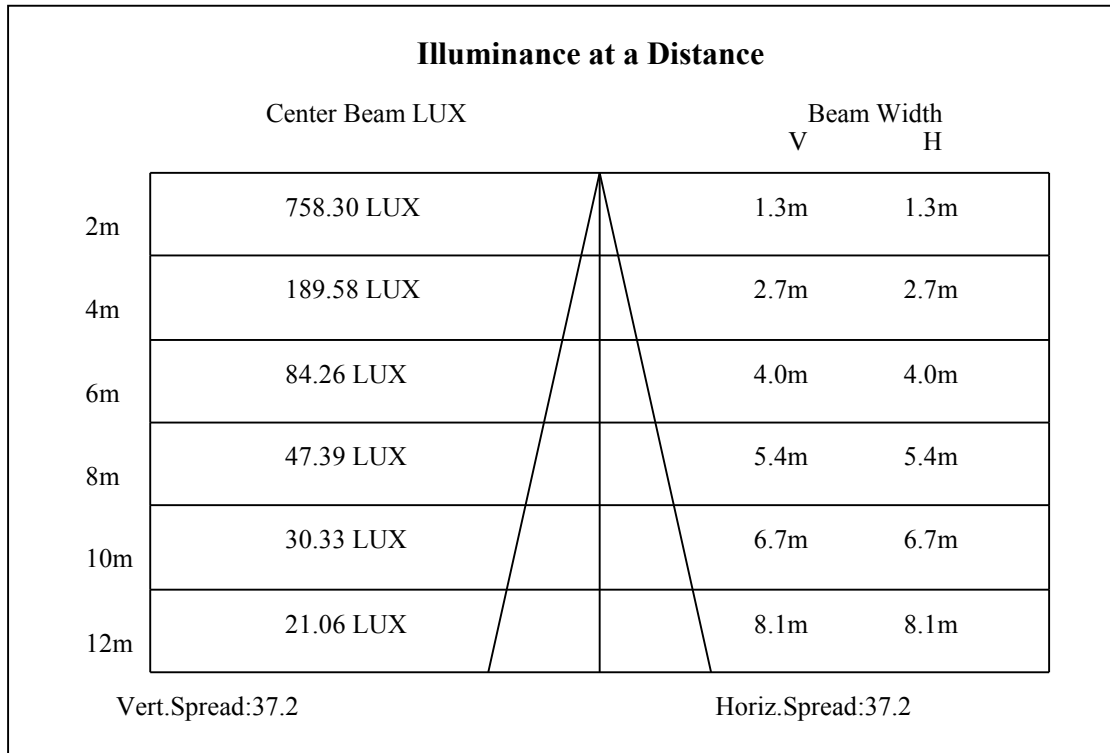
C90/C270: —————

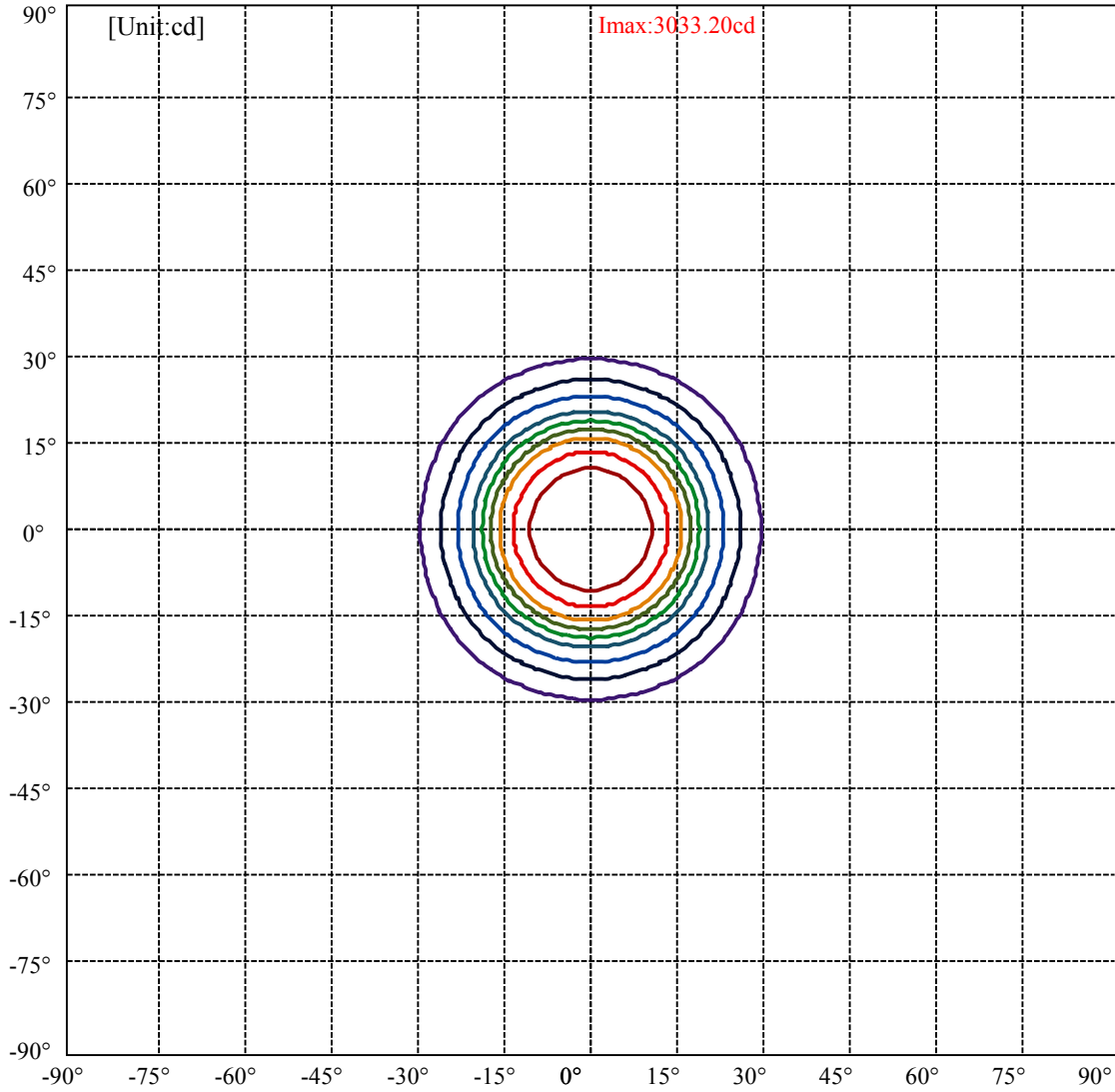
Field angle(10%Imax):C0/180Left:29.2 Right:29.2

:C90/270Left:29.2 Right:29.2

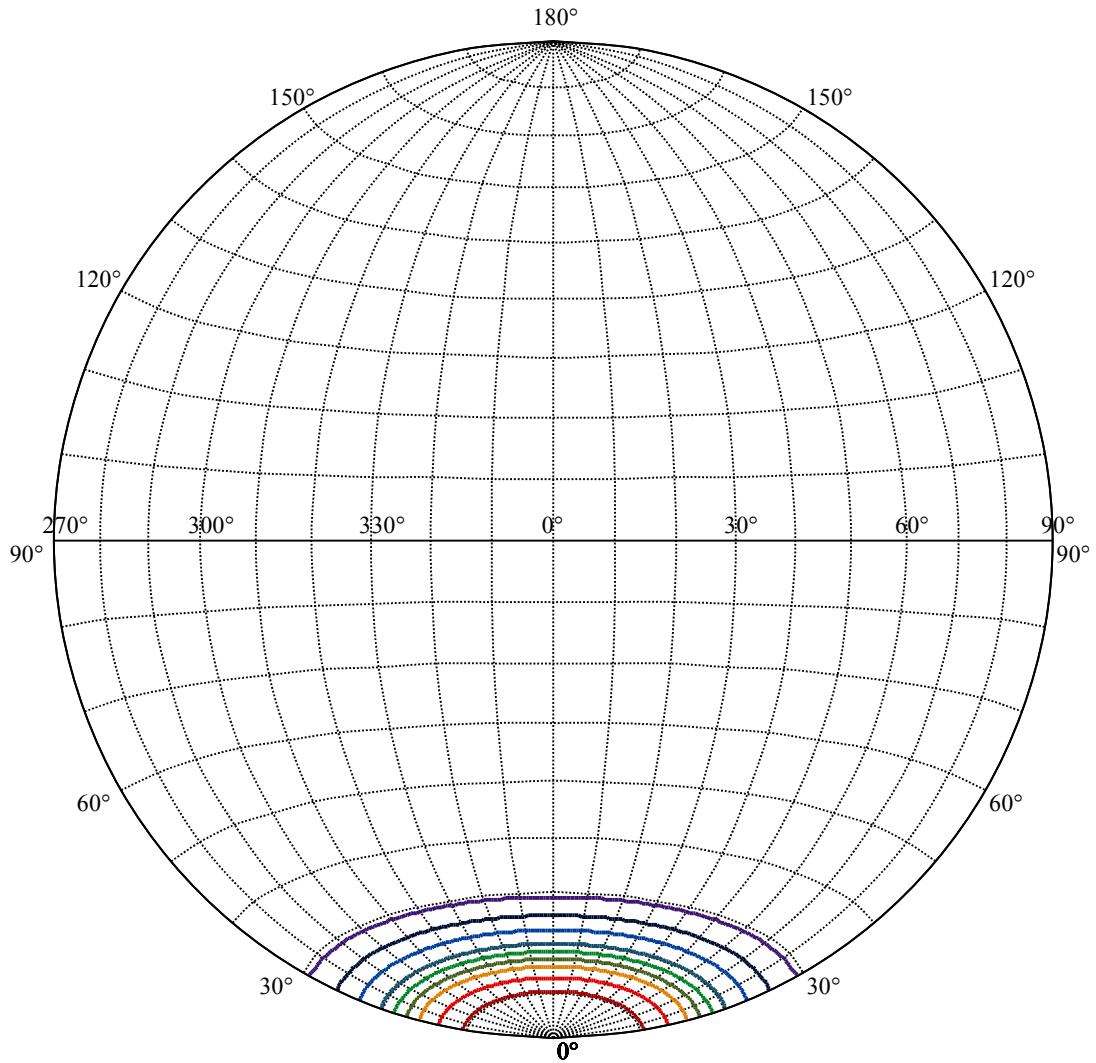
Beam Angle(50%Imax):C0/180Left:18.6 Right:18.6

:C90/270Left:18.6 Right:18.6





(10%Imax) 303.32	—
(20%Imax) 606.64	—
(30%Imax) 909.96	—
(40%Imax) 1213.28	—
(50%Imax) 1516.6	—
(60%Imax) 1819.92	—
(70%Imax) 2123.24	—
(80%Imax) 2426.56	—
(90%Imax) 2729.88	—



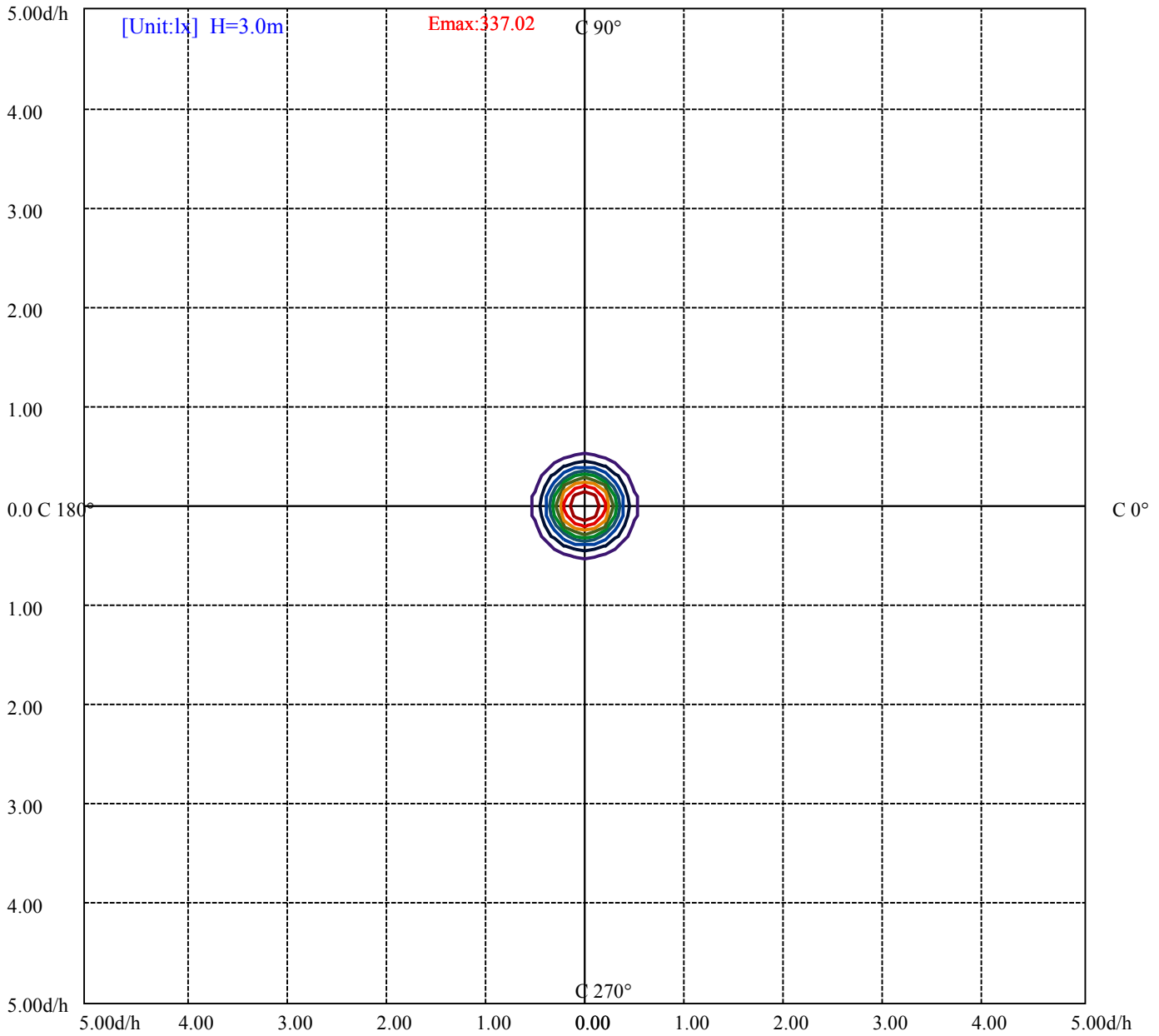
House

[Unit:cd]

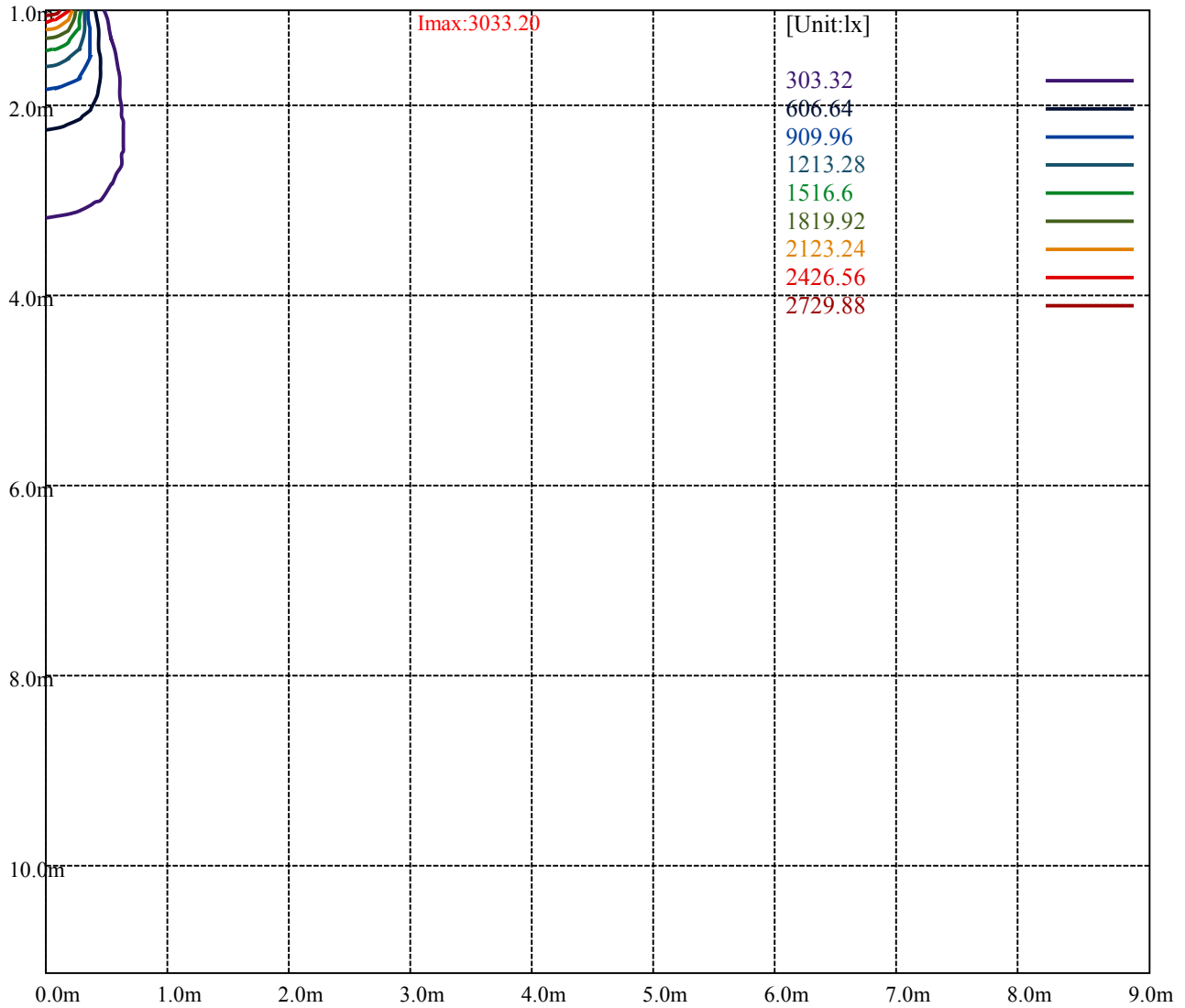
Road

Imax:3033.20

(10%Imax) 303.32	—
(20%Imax) 606.64	—
(30%Imax) 909.96	—
(40%Imax) 1213.28	—
(50%Imax) 1516.6	—
(60%Imax) 1819.92	—
(70%Imax) 2123.24	—
(80%Imax) 2426.56	—
(90%Imax) 2729.88	—



- (10%Emax) 33.70222
- (20%Emax) 67.40445
- (30%Emax) 101.1066
- (40%Emax) 134.8089
- (50%Emax) 168.5111
- (60%Emax) 202.2133
- (70%Emax) 235.9156
- (80%Emax) 269.6178
- (90%Emax) 303.32



Luminance Table

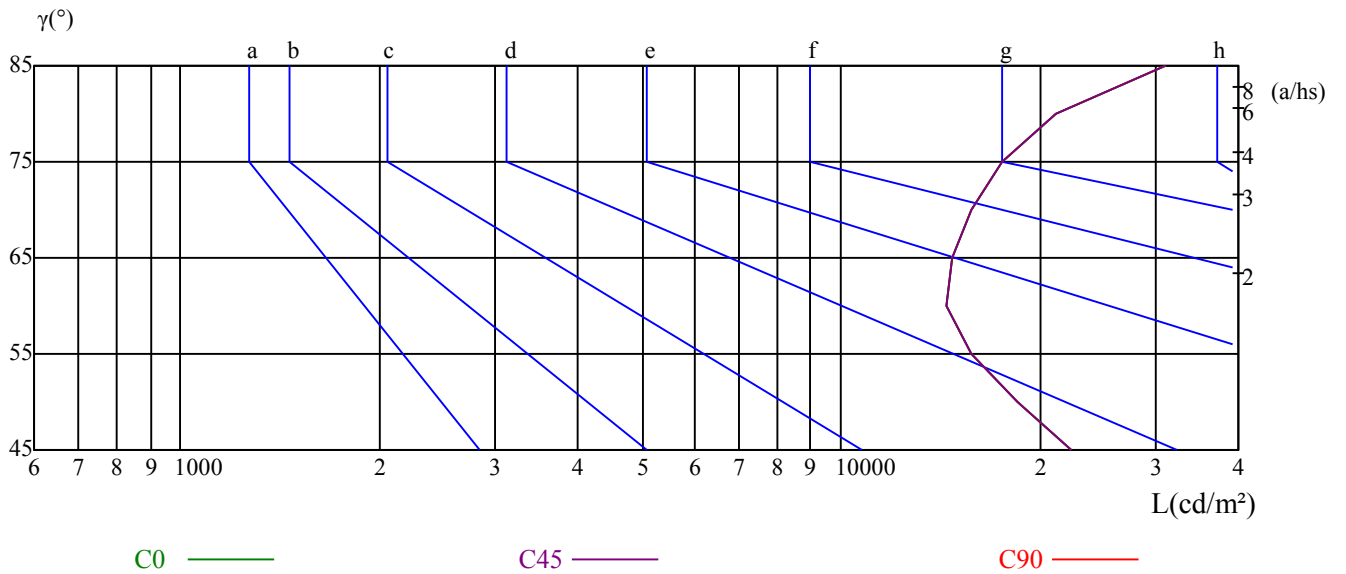
γ	45	50	55	60	65	70	75	80	85
C0	22317	18502	15772	14459	14724	15789	17544	21166	31004
C45	22317	18502	15772	14459	14724	15789	17544	21166	31004
C90	22317	18502	15772	14459	14724	15789	17544	21166	31004

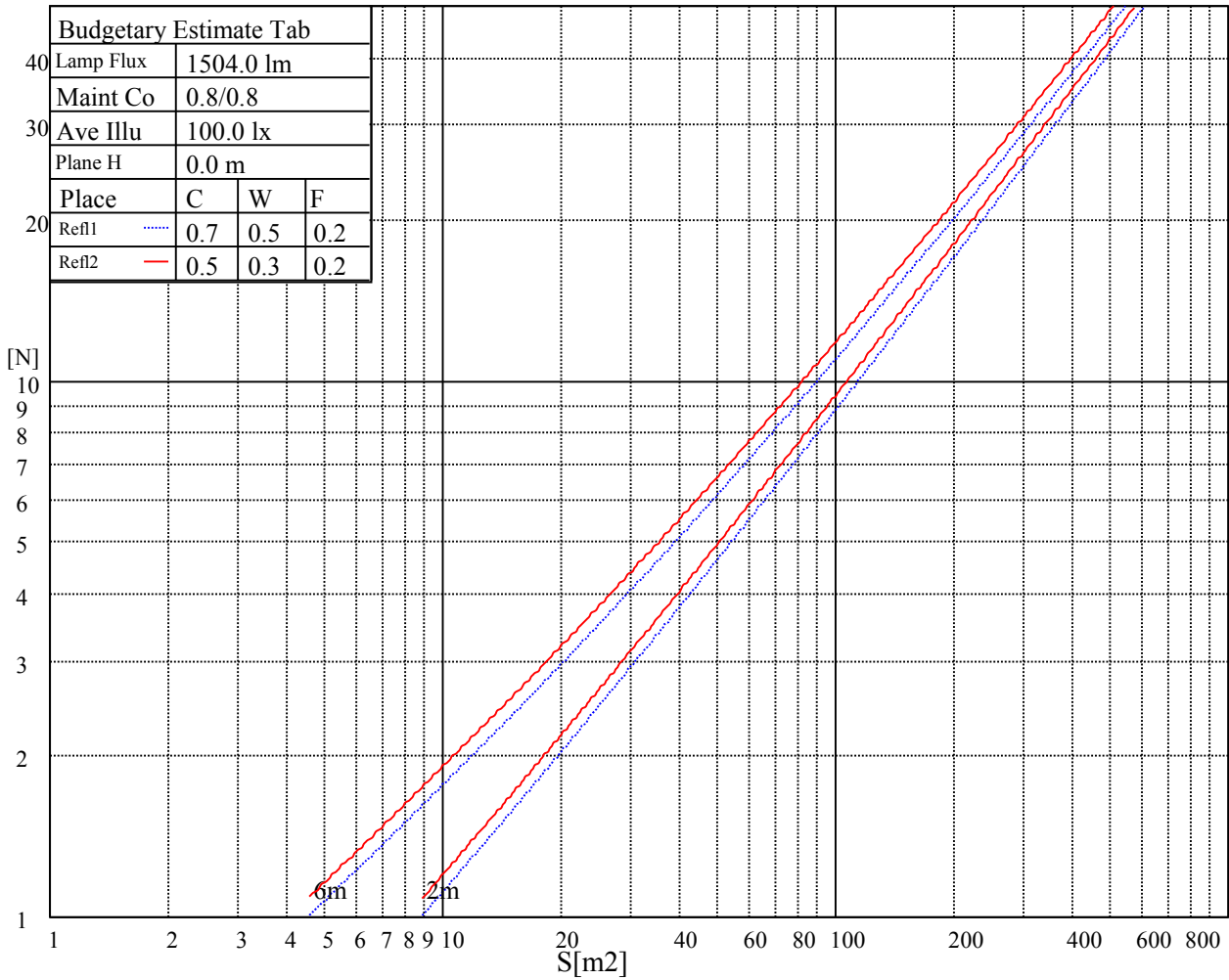
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14724	14724	14724	17544	17544	17544	31004	31004	31004

Glare Table

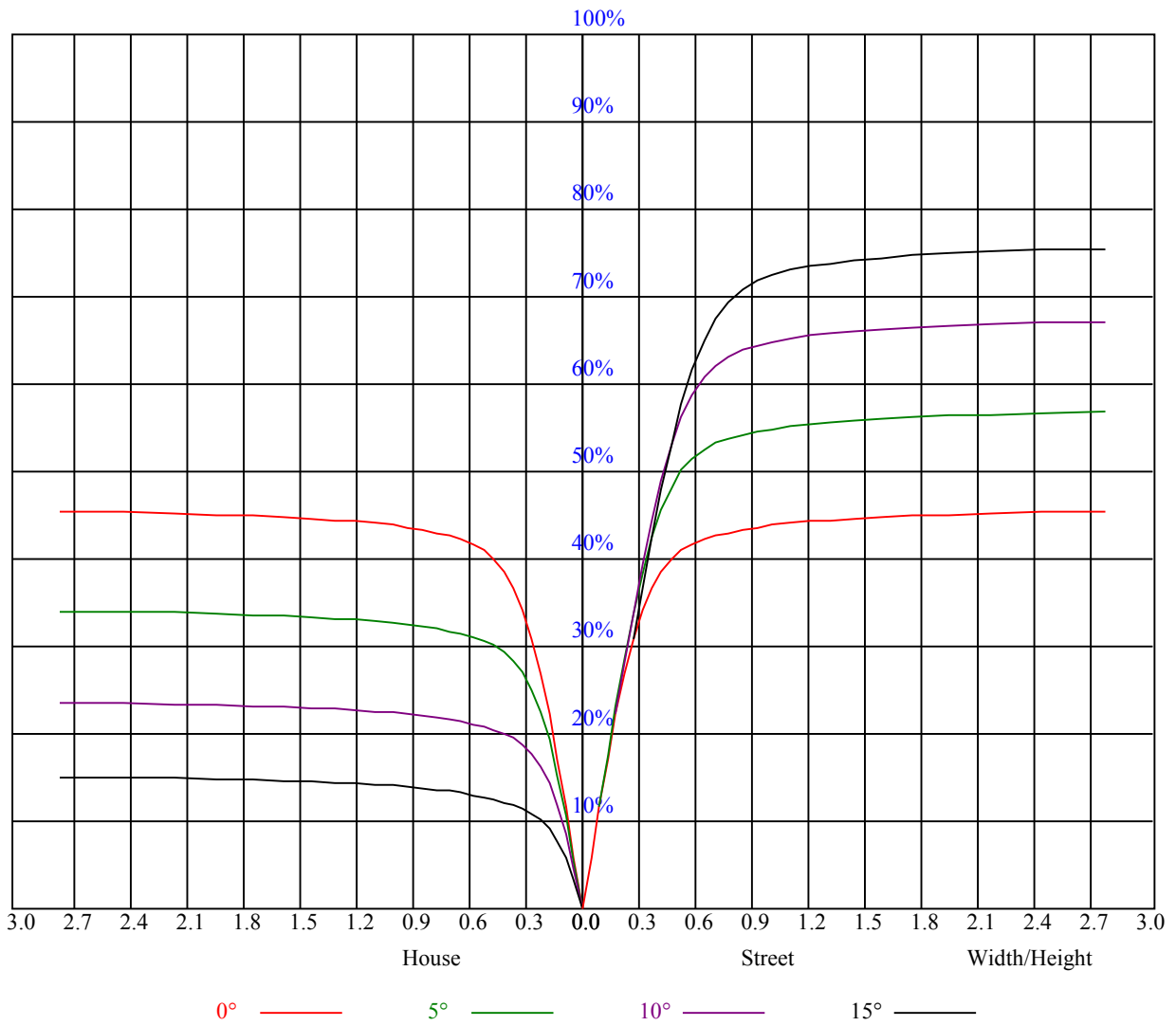
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

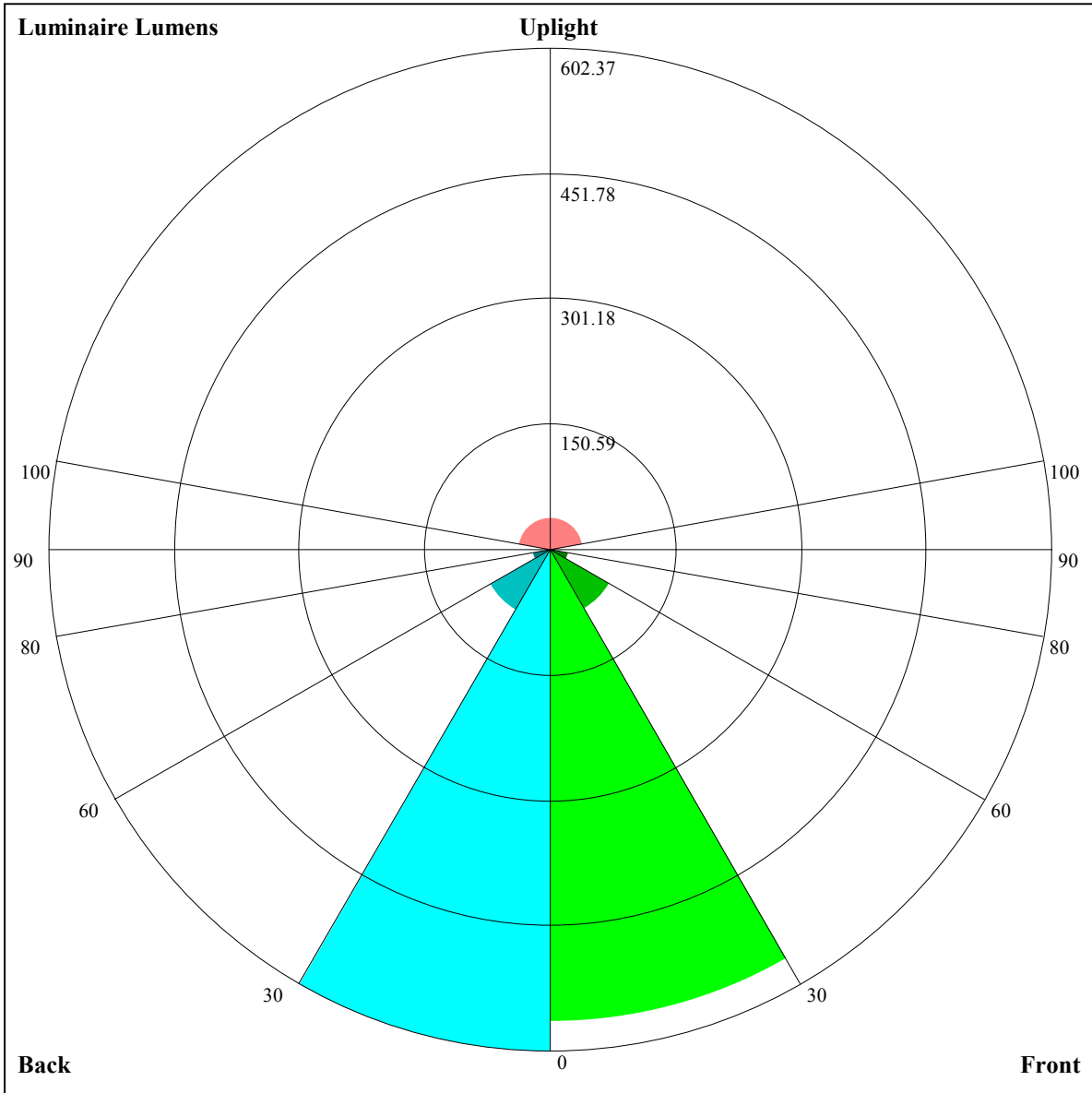
Luminance Limiting Curve





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	1.11	1.11	1.11	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.03	1.01	0.98	1.01	0.99	0.97	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.90	0.95	0.91	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.86	0.83	0.89	0.86	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.77
4	0.86	0.81	0.78	0.85	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.73
5	0.82	0.77	0.73	0.81	0.76	0.73	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.71	0.70
6	0.78	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.66
7	0.74	0.69	0.66	0.74	0.69	0.66	0.73	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.64
8	0.71	0.66	0.63	0.71	0.66	0.63	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.61
9	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.58
10	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.56





Luminaire Lumens:

FL=567.59,FM=82.6,FH=21.75,FVH=5.96

BL=602.37,BM=84.66,BH=21.78,BVH=5.83

UL=8.06,UH=38.37

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	3024.62	2831.11	2646.43	1965.69	787.42	478.84	176.89	103.43	78.61
45.0	3063.13	2907.68	2693.76	2205.60	1526.72	803.29	268.26	112.81	78.79
90.0	3021.83	2846.43	2552.23	1851.08	901.57	452.94	161.72	93.60	72.71
135.0	3023.22	3003.27	2877.05	2386.11	1513.26	687.74	243.20	120.74	86.54
180.0	3024.62	3055.71	2960.12	2470.10	1551.77	798.65	287.75	124.59	89.37
225.0	3063.13	3014.87	2860.35	2277.52	824.82	501.16	179.77	109.93	75.59
270.0	3021.83	3030.65	2865.45	2647.82	1880.31	987.51	344.36	169.51	86.77
315.0	3023.22	2908.61	2735.06	2155.48	919.16	607.93	203.29	111.55	81.86
360.0	3024.62	2831.11	2646.43	1965.69	787.42	478.84	176.89	103.43	78.61
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	61.02	46.50	35.36	28.68	24.96	20.93	17.59	13.92	10.44
45.0	63.25	48.26	37.08	29.84	24.78	21.90	18.56	14.94	10.86
90.0	53.64	41.86	32.02	25.85	22.78	19.86	16.33	13.13	8.96
135.0	63.02	48.72	35.45	28.72	24.55	21.21	17.91	14.66	10.12
180.0	67.38	48.49	36.89	30.12	26.59	22.46	19.03	15.03	10.90
225.0	59.81	45.06	33.50	27.33	23.94	21.16	17.31	14.25	10.77
270.0	67.98	51.74	40.09	29.84	25.52	22.60	19.21	15.82	11.88
315.0	64.96	47.01	36.84	29.19	24.45	21.35	18.24	14.94	11.88
360.0	61.02	46.50	35.36	28.68	24.96	20.93	17.59	13.92	10.44
C/ γ (°)	90.0								
0.0	7.15								
45.0	6.91								
90.0	7.19								
135.0	7.10								
180.0	7.10								
225.0	7.15								
270.0	7.33								
315.0	9.19								
360.0	7.15								