
Client:

LumCAT: 1407-N

Luminaire: 92.70.043.00

Report No: nt0100

Test No: GC2019122008

LampCAT: LUMINUS CXM-6-AC40

Lamp flux(lm): 823.0

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 34.8400

Current(A): 0.1970

Power (W): 6.8600

PF: 1.0000

Ballast type: DC

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 702.84, Efficiency(%): 85.40% , Luminous Efficacy(lm/W): 102.45

Central intensity(cd): 809.318, Maximum intensity(cd): 809.318

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=45.8

[C90/270]Total=45.8

Field angle(10%Imax): [C0/180]Total=95.8

[C90/270]Total=95.8

Maximum s/h(1/2): C0_180=0.70 C90_270=0.70

Maximum s/h(1/4): C0_180=0.79 C90_270=0.79

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.40%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 94.327%

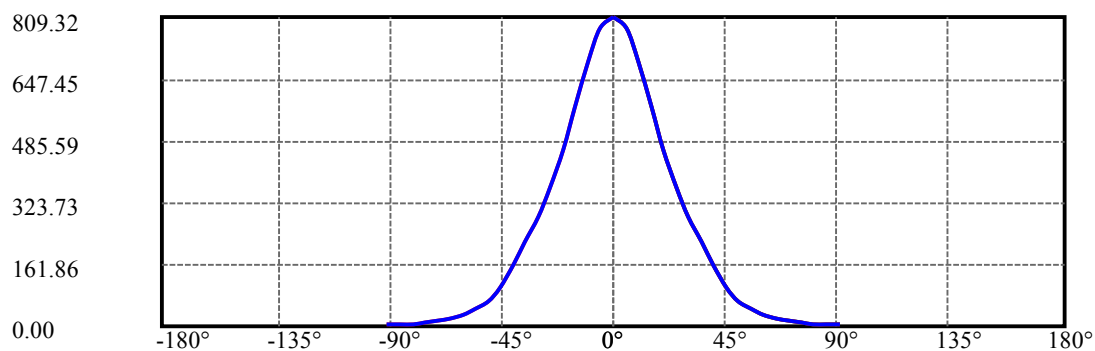
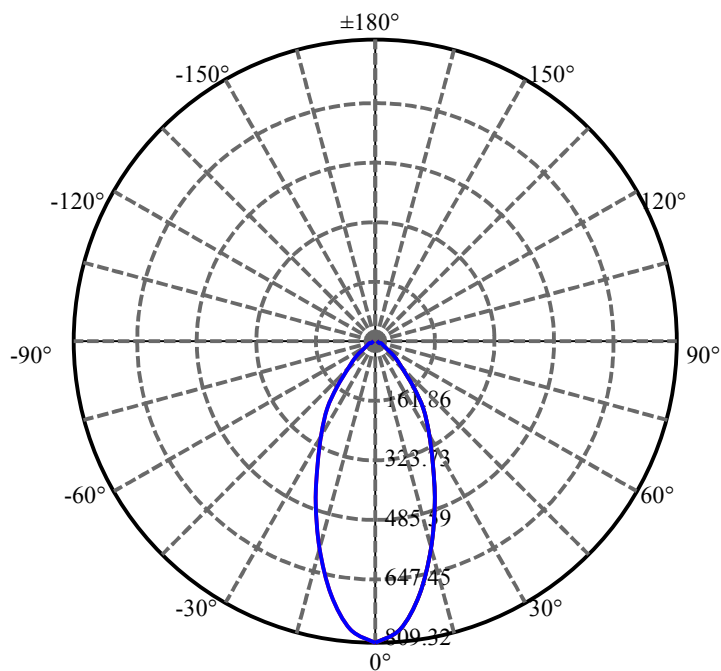
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	809.318	0.000	0	.000%	.000%
5.0	778.683	18.984	18.984	2.307%	2.701%
10.0	691.559	52.595	71.579	6.391%	10.184%
15.0	575.142	75.140	146.719	9.130%	20.875%
20.0	461.749	85.454	232.174	10.383%	33.034%
25.0	364.352	86.643	318.816	10.528%	45.361%
30.0	288.338	82.598	401.415	10.036%	57.113%
35.0	220.423	74.918	476.333	9.103%	67.773%
40.0	159.785	63.435	539.768	7.708%	76.798%
45.0	102.002	48.472	588.24	5.890%	83.695%
50.0	65.630	33.873	622.113	4.116%	88.514%
55.0	43.369	23.700	645.813	2.880%	91.886%
60.0	30.867	17.159	662.972	2.085%	94.327%
65.0	22.226	12.907	675.879	1.568%	96.164%
70.0	16.249	9.742	685.621	1.184%	97.550%
75.0	11.123	7.155	692.776	.869%	98.568%
80.0	7.235	4.912	697.688	.597%	99.267%
85.0	4.324	3.141	700.829	.382%	99.714%
90.0	3.023	2.012	702.841	.244%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	401.41	48.77%	57.11%
0-40	539.77	65.59%	76.80%
0-60	662.97	80.56%	94.33%
0-90	700.83	85.16%	99.71%
0-120	700.83	85.16%	99.71%
0-180	702.84	85.40%	100.00%
60-90	55.02	6.68%	7.83%
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%
0-42.32	562.27	68.32%	80.00%

ZONAL LUMEN SUMMARY

0-10	71.58
10-20	160.59
20-30	169.24
30-40	138.35
40-50	82.34
50-60	40.86
60-70	22.65
70-80	12.07
80-90	3.14
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: —————

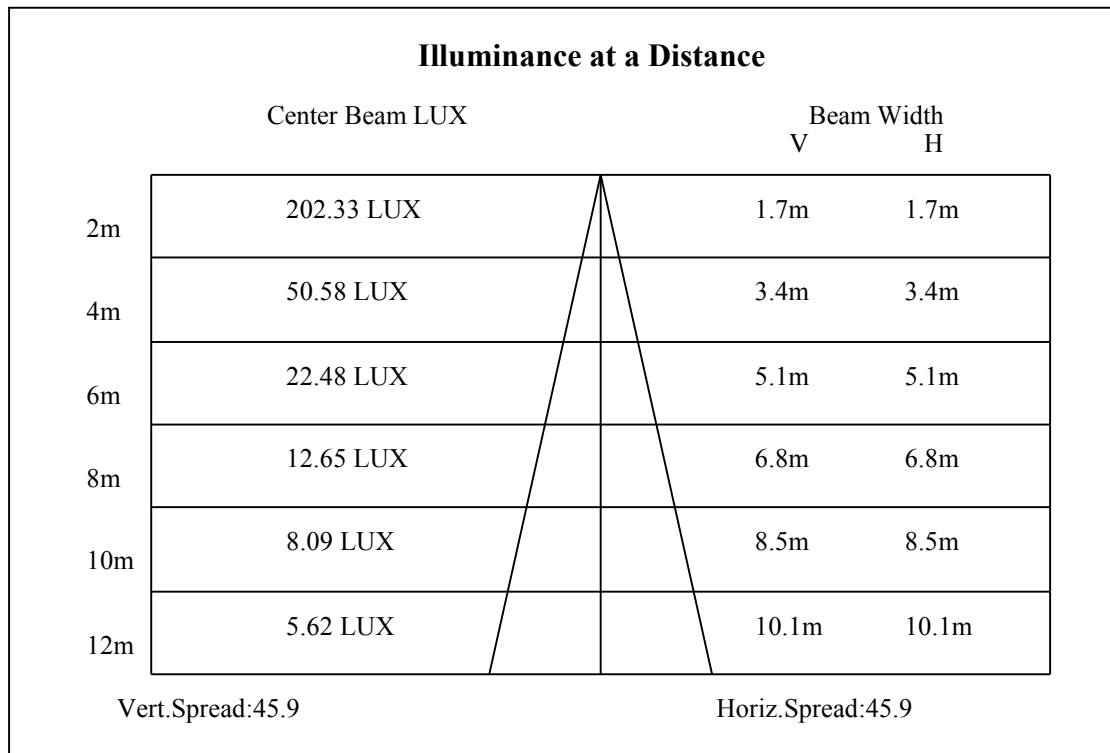
C90/C270: —————

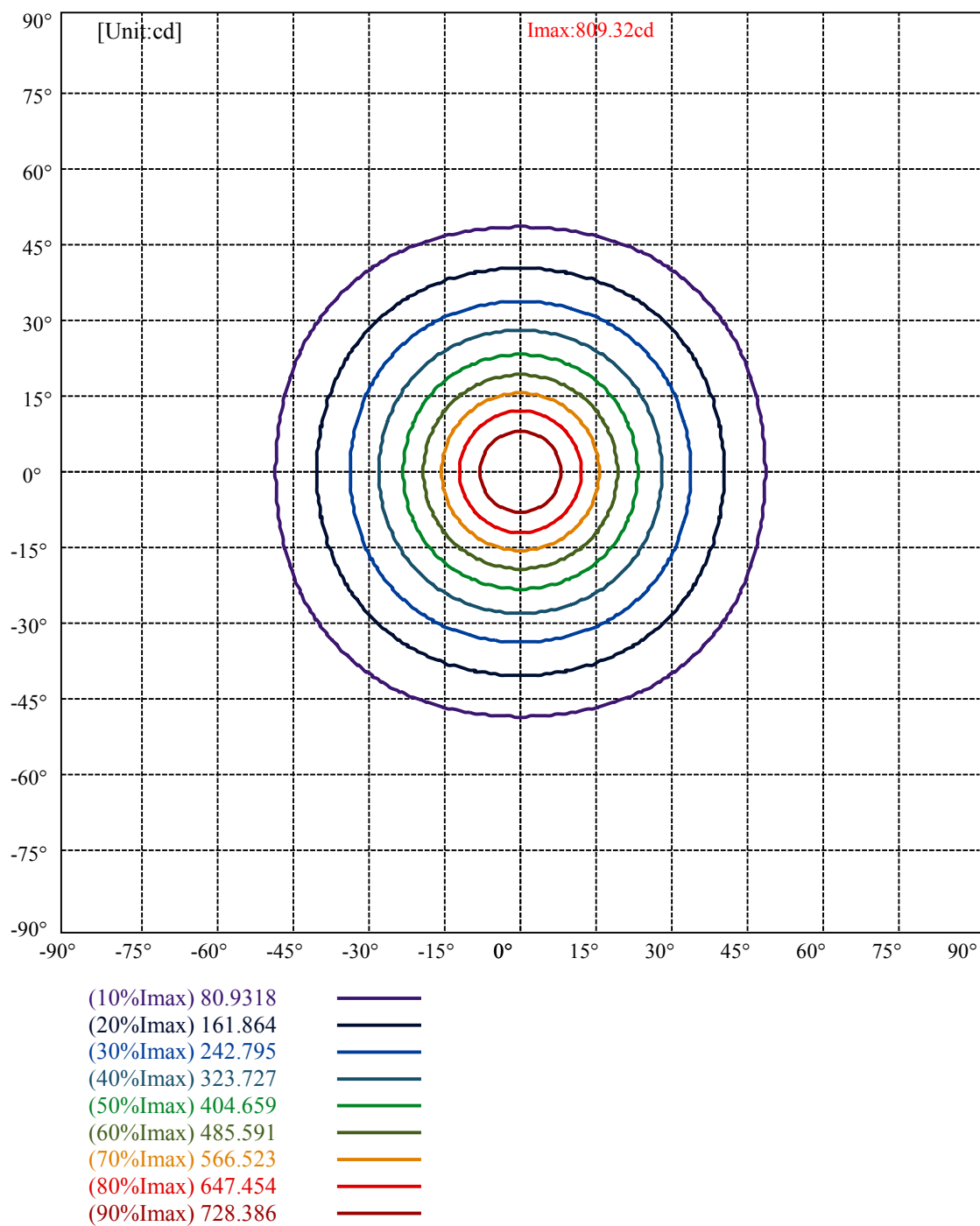
Field angle(10%Imax):C0/180Left:47.9 Right:47.9

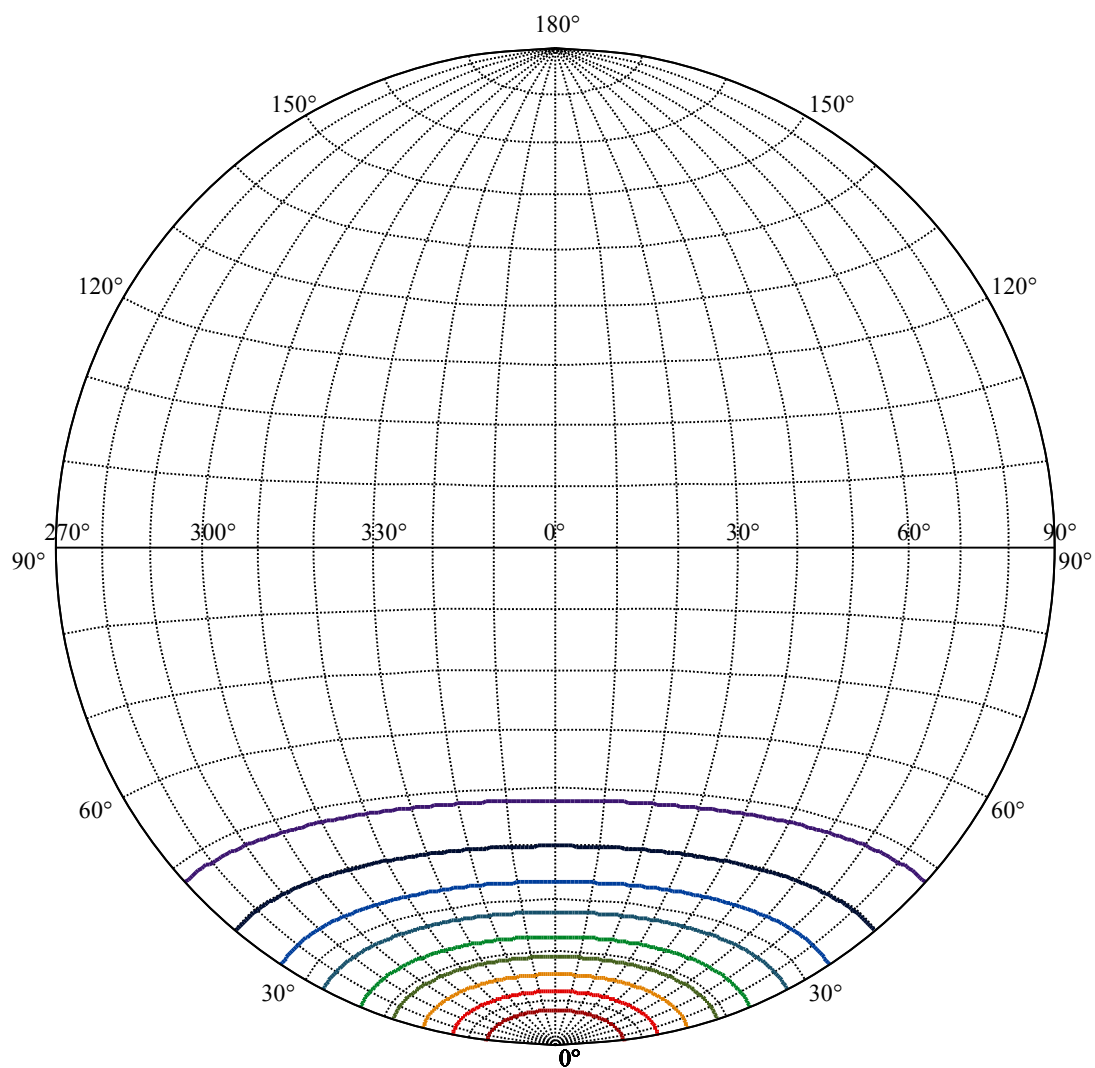
:C90/270Left:47.9 Right:47.9

Beam Angle(50%Imax):C0/180Left:22.9 Right:22.9

:C90/270Left:22.9 Right:22.9







House

[Unit:cd]

Road

Imax:809.32

(10%Imax) 80.9318

(20%Imax) 161.864

(30%Imax) 242.795

(40%Imax) 323.727

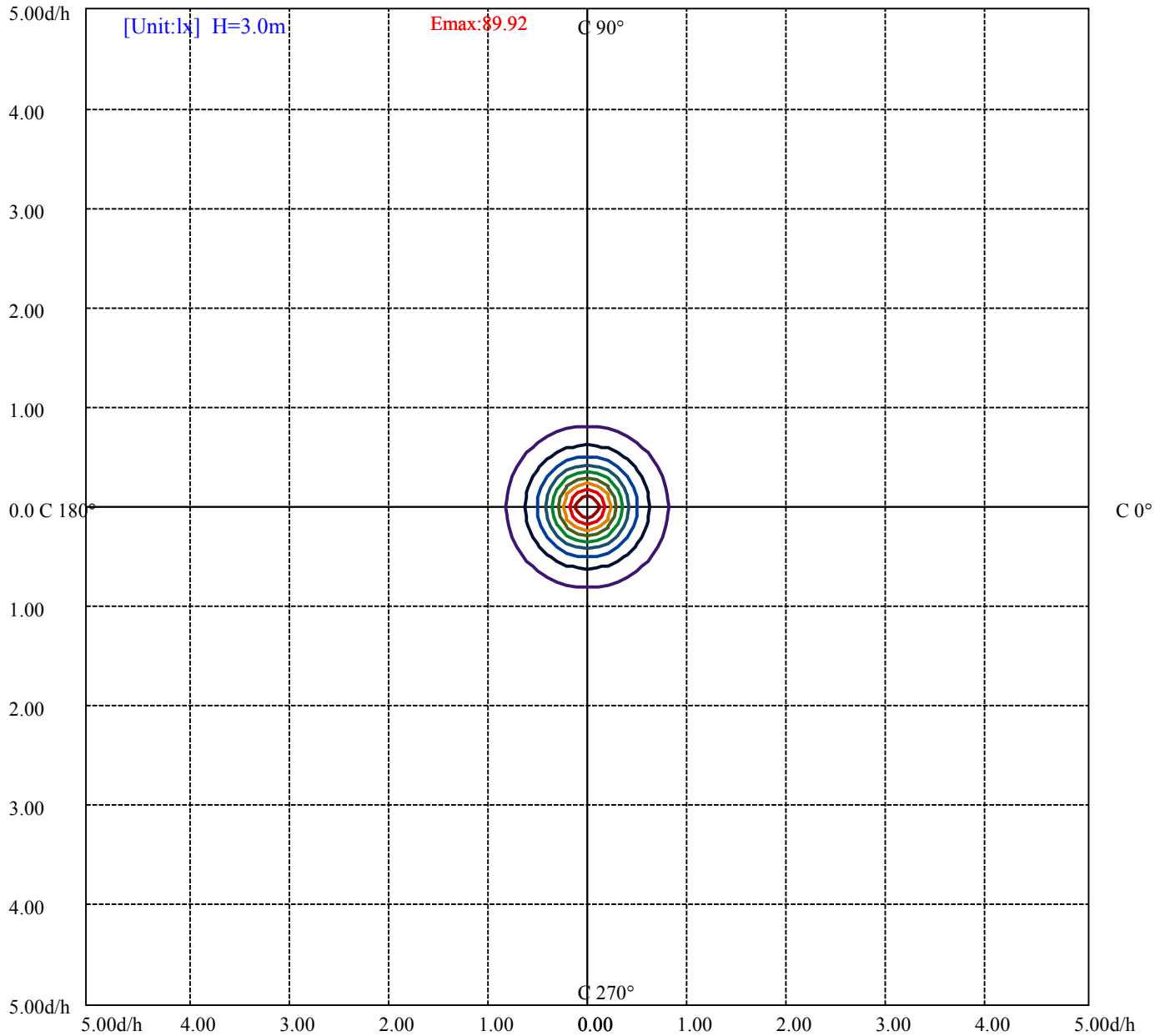
(50%Imax) 404.659

(60%Imax) 485.591

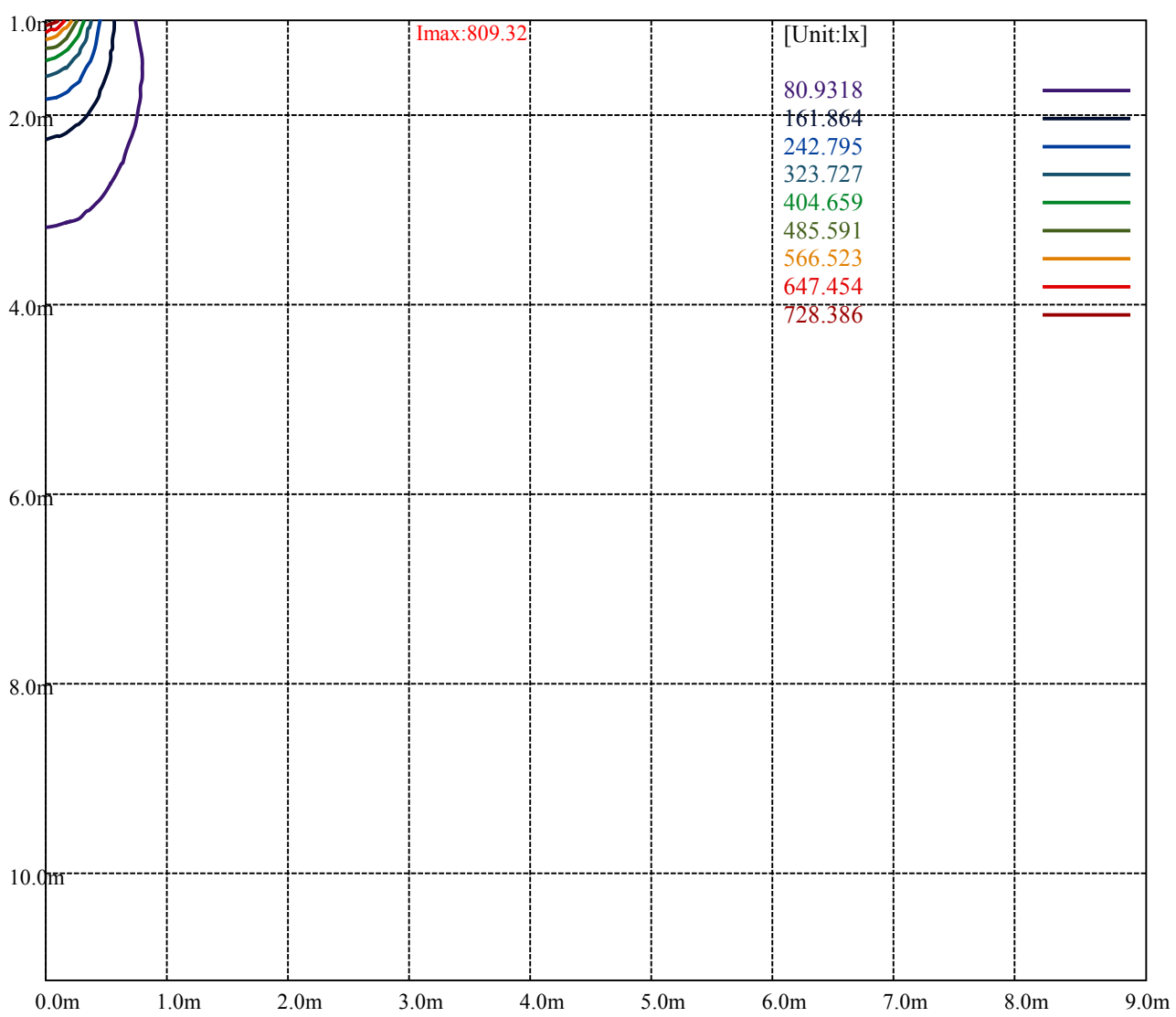
(70%Imax) 566.523

(80%Imax) 647.454

(90%Imax) 728.386



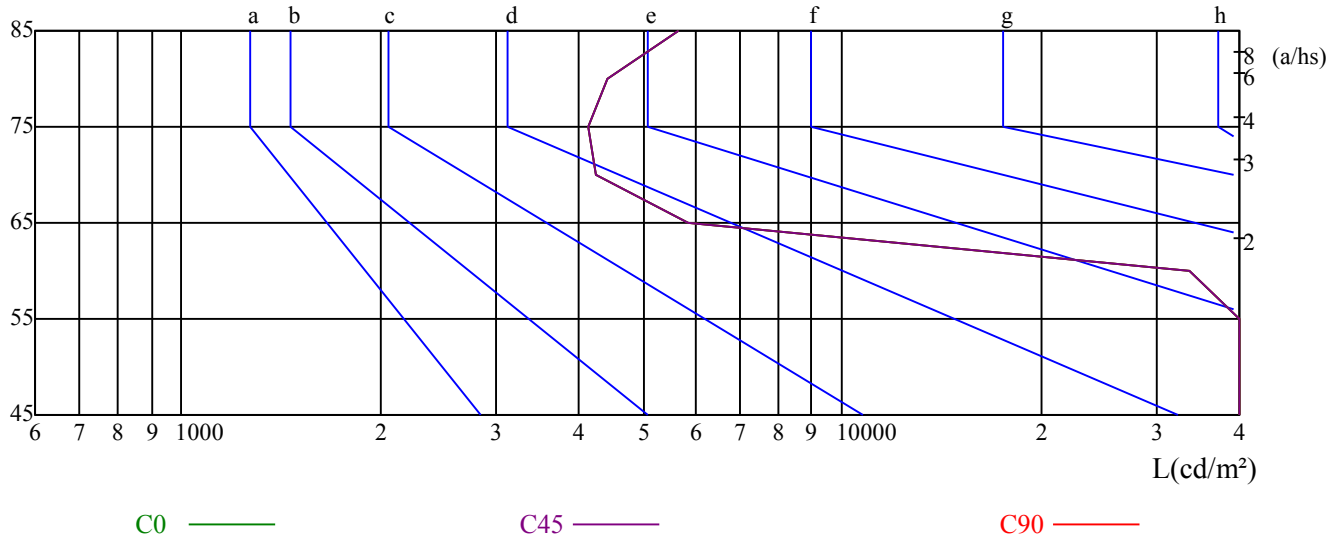
(10%E _{max}) 8.992412	—
(20%E _{max}) 17.98478	—
(30%E _{max}) 26.97722	—
(40%E _{max}) 35.96967	—
(50%E _{max}) 44.96211	—
(60%E _{max}) 53.95444	—
(70%E _{max}) 62.94688	—
(80%E _{max}) 71.93933	—
(90%E _{max}) 80.93167	—

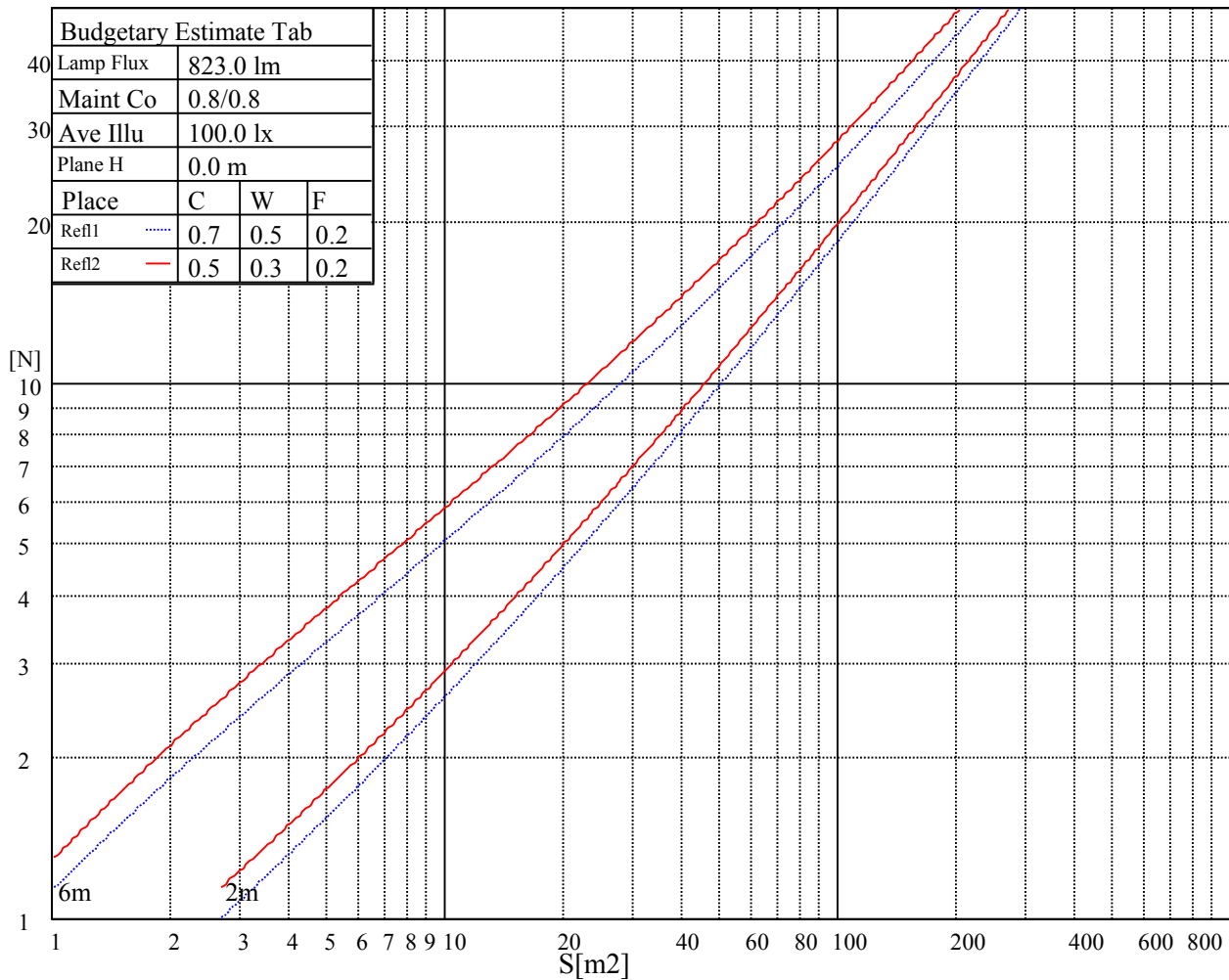


γ	45	50	55	60	65	70	75	80	85
C0	46650	52836	53885	33658	5848	4245	4131	4405	5640
C45	46650	52836	53885	33658	5848	4245	4131	4405	5640
C90	46650	52836	53885	33658	5848	4245	4131	4405	5640

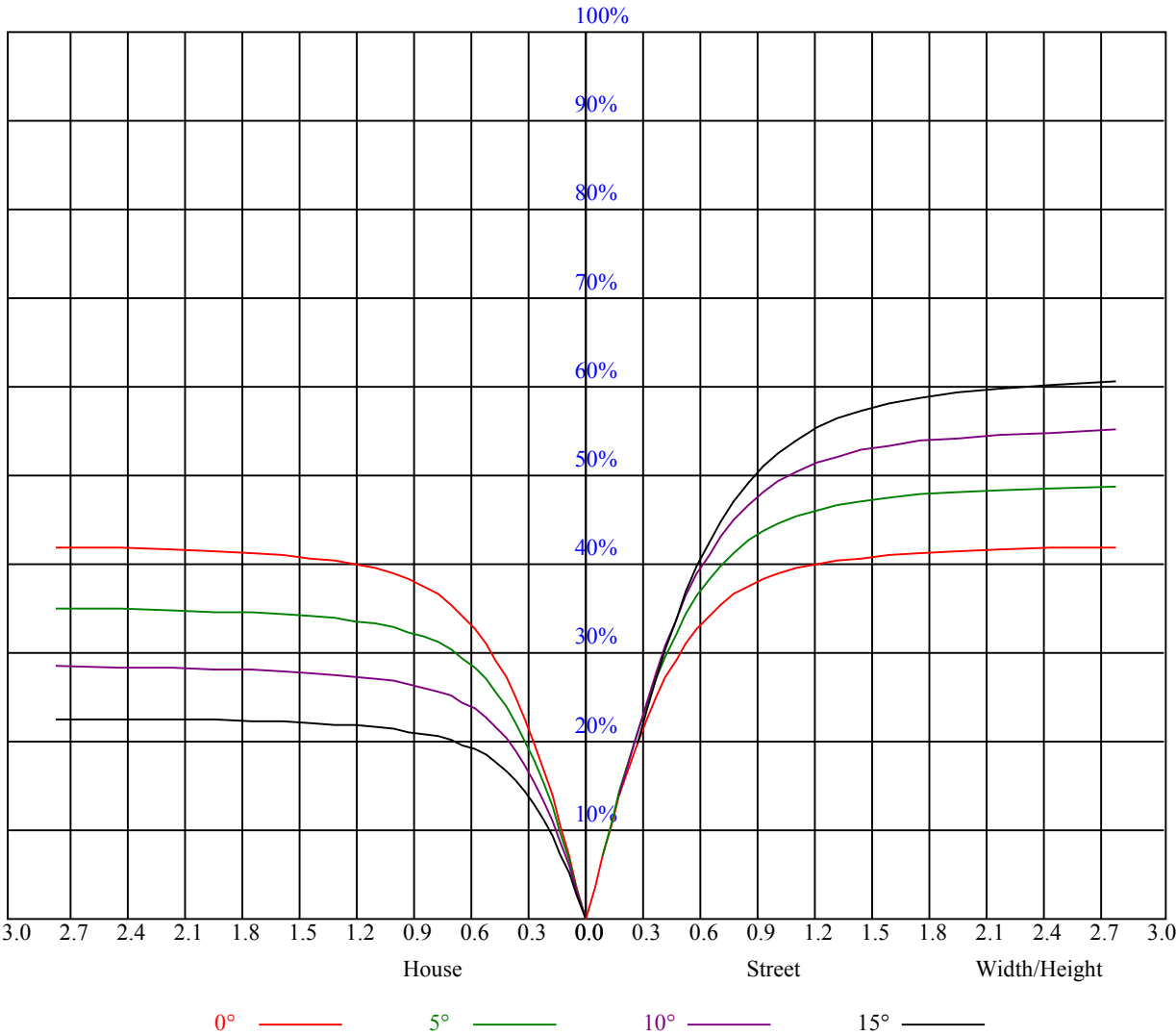
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5848	5848	5848	4131	4131	4131	5640	5640	5640

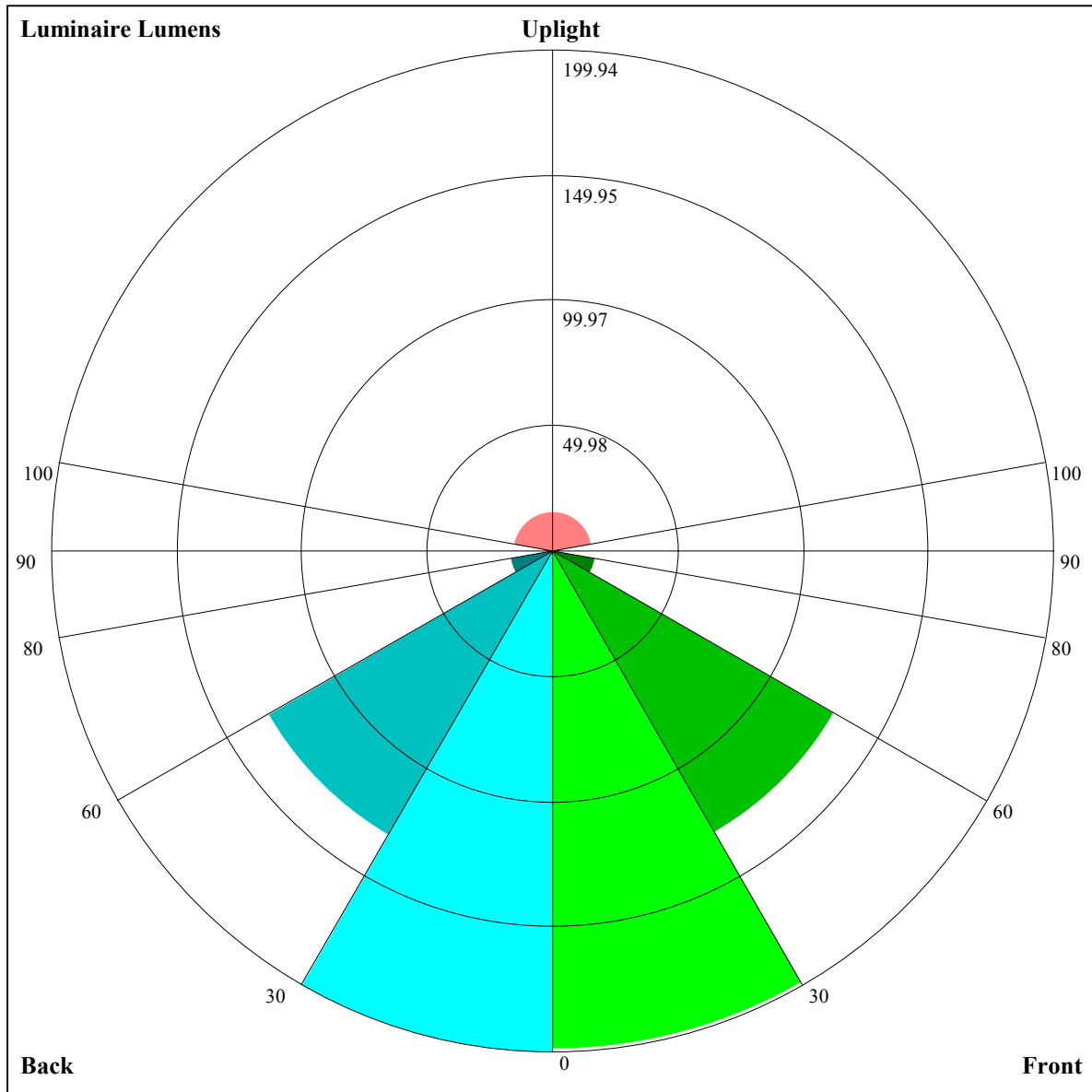
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h





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	0.93	0.90	0.88	0.91	0.89	0.87	0.88	0.86	0.84	0.84	0.83	0.81	0.81	0.80	0.79	0.78
2	0.85	0.81	0.77	0.84	0.80	0.77	0.81	0.78	0.75	0.78	0.76	0.73	0.76	0.74	0.72	0.70
3	0.78	0.73	0.69	0.77	0.72	0.69	0.75	0.71	0.67	0.72	0.69	0.66	0.70	0.68	0.65	0.64
4	0.72	0.67	0.62	0.71	0.66	0.62	0.69	0.65	0.61	0.67	0.64	0.60	0.66	0.62	0.60	0.58
5	0.67	0.61	0.57	0.66	0.61	0.57	0.64	0.60	0.56	0.63	0.59	0.55	0.61	0.58	0.55	0.54
6	0.62	0.56	0.52	0.61	0.56	0.52	0.60	0.55	0.52	0.59	0.54	0.51	0.58	0.54	0.51	0.49
7	0.58	0.52	0.48	0.57	0.52	0.48	0.56	0.51	0.48	0.55	0.51	0.47	0.54	0.50	0.47	0.46
8	0.54	0.49	0.45	0.54	0.48	0.45	0.53	0.48	0.44	0.52	0.47	0.44	0.51	0.47	0.44	0.43
9	0.51	0.45	0.42	0.51	0.45	0.42	0.50	0.45	0.41	0.49	0.44	0.41	0.48	0.44	0.41	0.40
10	0.48	0.43	0.39	0.48	0.42	0.39	0.47	0.42	0.39	0.46	0.42	0.39	0.46	0.41	0.39	0.37





Luminaire Lumens:

FL=199.19,FM=129.62,FH=17.38,FVH=2.58

BL=199.94,BM=131.35,BH=17.32,BVH=2.59

UL=3.3,UH=15.7

BUG Rating:B1-U2-G0

Intensity data(cd)

Appendix Page: 15 Total:15

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	807.19	779.57	695.36	585.28	472.95	373.28	296.33	229.89	165.09
45.0	811.07	786.66	701.49	578.98	449.38	351.68	275.34	207.39	154.58
90.0	811.46	779.51	686.14	563.63	446.06	351.17	285.30	221.01	158.57
135.0	807.58	794.19	715.05	598.95	482.18	381.54	303.47	232.54	174.54
180.0	807.13	775.63	687.77	567.28	461.08	365.23	289.29	222.64	160.54
225.0	811.07	768.04	675.17	560.36	450.68	351.23	277.59	207.68	148.16
270.0	811.46	781.43	693.39	583.88	470.81	378.62	299.08	226.13	163.97
315.0	807.58	764.44	678.09	562.78	460.86	362.08	280.29	216.11	152.83
360.0	807.19	779.57	695.36	585.28	472.95	373.28	296.33	229.89	165.09

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	106.03	68.34	44.44	31.50	22.50	16.71	11.42	7.43	4.33
45.0	97.71	64.46	43.26	32.01	23.06	16.71	11.59	7.43	4.28
90.0	95.63	63.39	41.96	30.26	22.11	15.98	10.80	7.26	4.33
135.0	113.96	72.51	47.53	33.53	23.85	17.55	12.04	7.88	4.61
180.0	102.99	65.03	42.53	29.98	21.38	15.69	10.63	6.75	4.33
225.0	97.26	61.93	40.84	29.03	21.32	15.36	10.35	6.81	4.05
270.0	105.64	66.77	45.28	31.39	22.50	16.48	11.53	7.65	4.50
315.0	96.81	62.61	41.12	29.25	21.09	15.53	10.63	6.69	4.16
360.0	106.03	68.34	44.44	31.50	22.50	16.71	11.42	7.43	4.33

C/γ(°)	90.0
0.0	3.04
45.0	3.04
90.0	2.98
135.0	3.09
180.0	3.04
225.0	2.98
270.0	3.04
315.0	2.98
360.0	3.04