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## Nata

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### Client:

LumCAT: 1406-N

Luminaire: 92.70.064.00

Report No: GC2019091909

Test No: NATA07

LampCAT: TRIDONIC SLE G7 9MM

Lamp flux(lm): 1011.0

Number of Lamps: 1

Length(mm): 39

Phm Type: C

Voltage(V): 220.5000

Current(A): 0.0410

Power (W): 8.2900

PF: 0.8970

Ballast type: AC

Width(mm): 39

Height(mm): 0

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## Photometric Results

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Lumens(lm): 867.56, Efficiency(%): 85.81% , Luminous Efficacy(lm/W): 104.65

Central intensity(cd): 1223.006, Maximum intensity(cd): 1223.006

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

Beam Angle(50%Imax): [C0/180]Total=38.4

[C90/270]Total=38.4

Field angle(10%Imax): [C0/180]Total=90.0

[C90/270]Total=90.0

Maximum s/h(1/2): C0\_180=0.61 C90\_270=0.61

Maximum s/h(1/4): C0\_180=0.67 C90\_270=0.67

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.81%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 95.374%

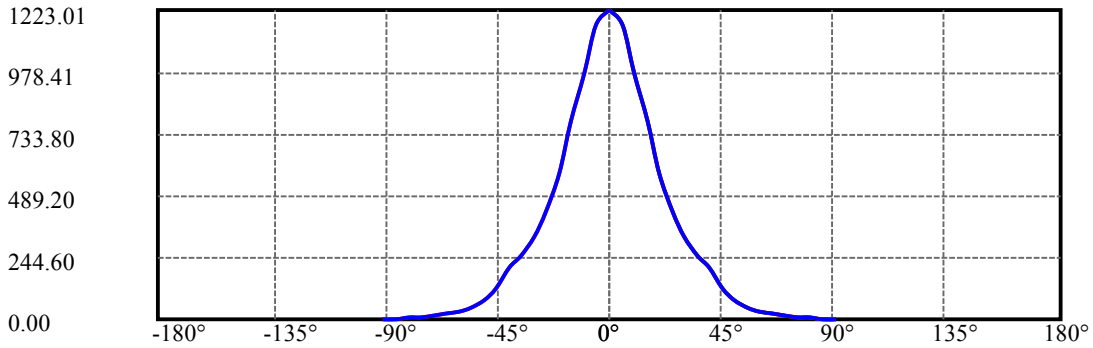
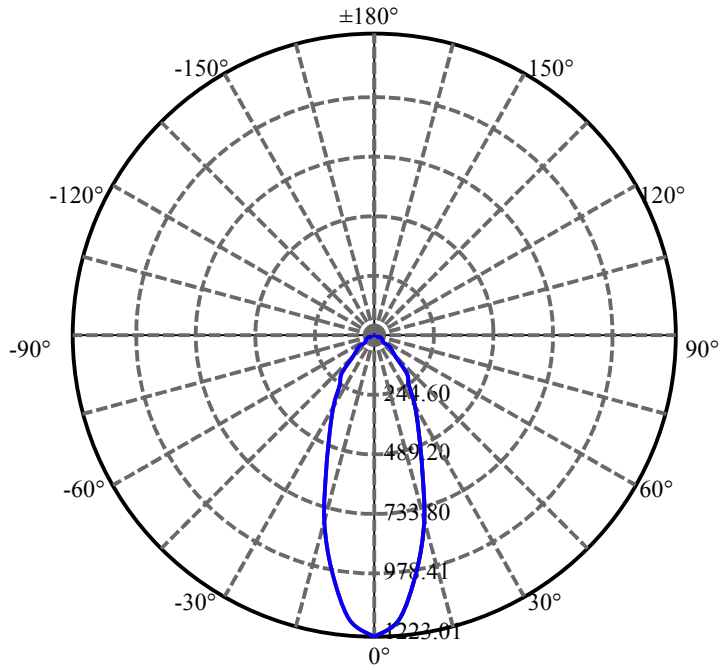
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1223.007	0.000	0	.000%	.000%
5.0	1160.768	28.497	28.497	2.819%	3.285%
10.0	975.659	76.427	104.924	7.560%	12.094%
15.0	784.489	104.411	209.335	10.327%	24.129%
20.0	576.956	112.202	321.537	11.098%	37.062%
25.0	422.386	104.813	426.35	10.367%	49.144%
30.0	323.756	94.425	520.775	9.340%	60.028%
35.0	248.774	84.309	605.084	8.339%	69.746%
40.0	202.875	75.354	680.438	7.453%	78.432%
45.0	121.820	60.120	740.558	5.947%	85.361%
50.0	77.163	40.207	780.766	3.977%	89.996%
55.0	49.338	27.506	808.271	2.721%	93.166%
60.0	33.515	19.151	827.422	1.894%	95.374%
65.0	23.724	13.915	841.337	1.376%	96.978%
70.0	16.502	10.185	851.523	1.007%	98.152%
75.0	11.073	7.208	858.73	.713%	98.983%
80.0	6.601	4.729	863.459	.468%	99.528%
85.0	3.370	2.709	866.169	.268%	99.840%
90.0	1.700	1.388	867.557	.137%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	520.77	51.51%	60.03%
0-40	680.44	67.30%	78.43%
0-60	827.42	81.84%	95.37%
0-90	866.17	85.67%	99.84%
0-120	866.17	85.67%	99.84%
0-180	867.56	85.81%	100.00%
60-90	57.90	5.73%	6.67%
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%
0-41.13	694.05	68.65%	80.00%

ZONAL LUMEN SUMMARY

0-10	104.92
10-20	216.61
20-30	199.24
30-40	159.66
40-50	100.33
50-60	46.66
60-70	24.10
70-80	11.94
80-90	2.71
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): —————

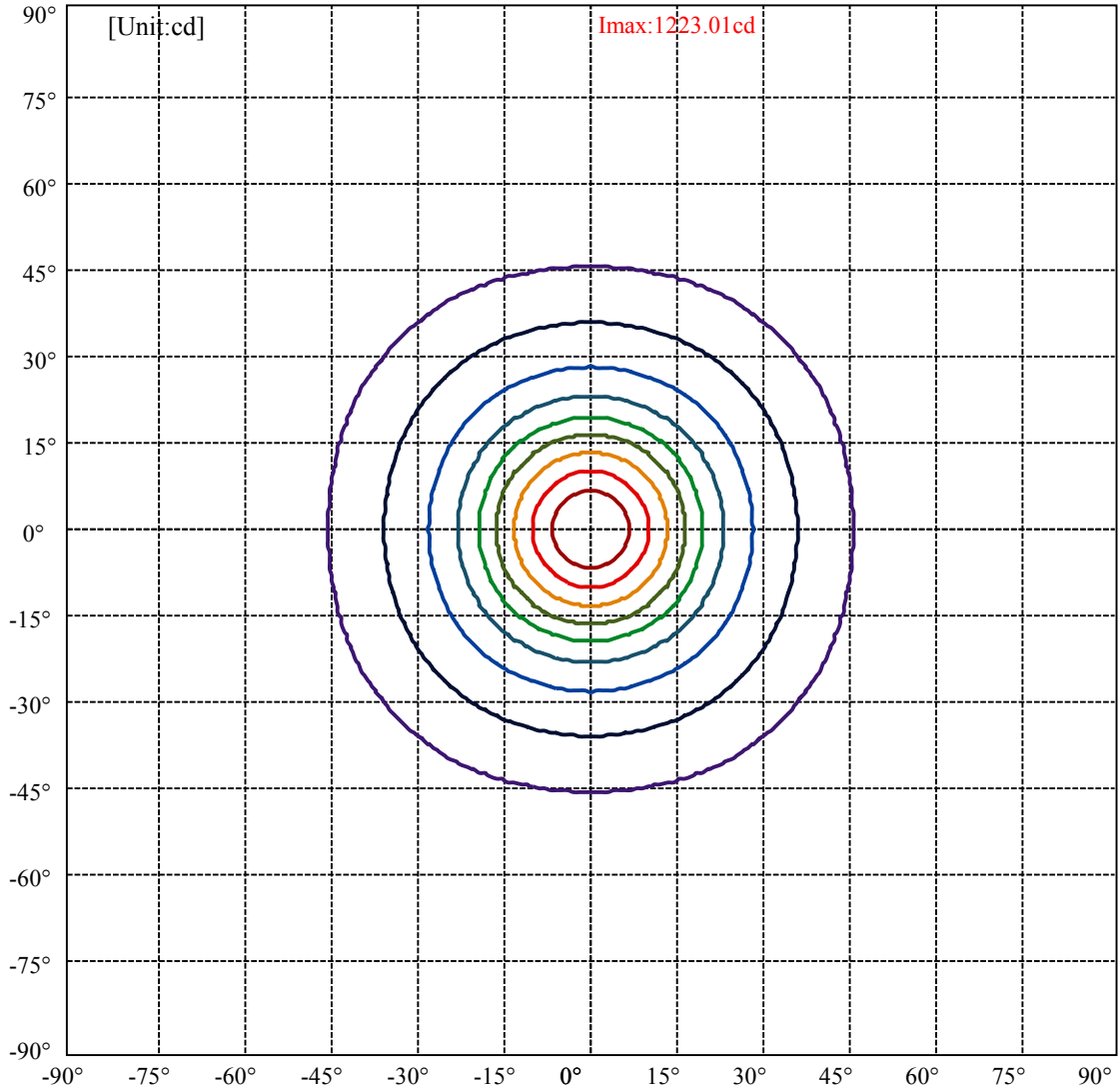
C0/C180: —————

C90/C270: —————

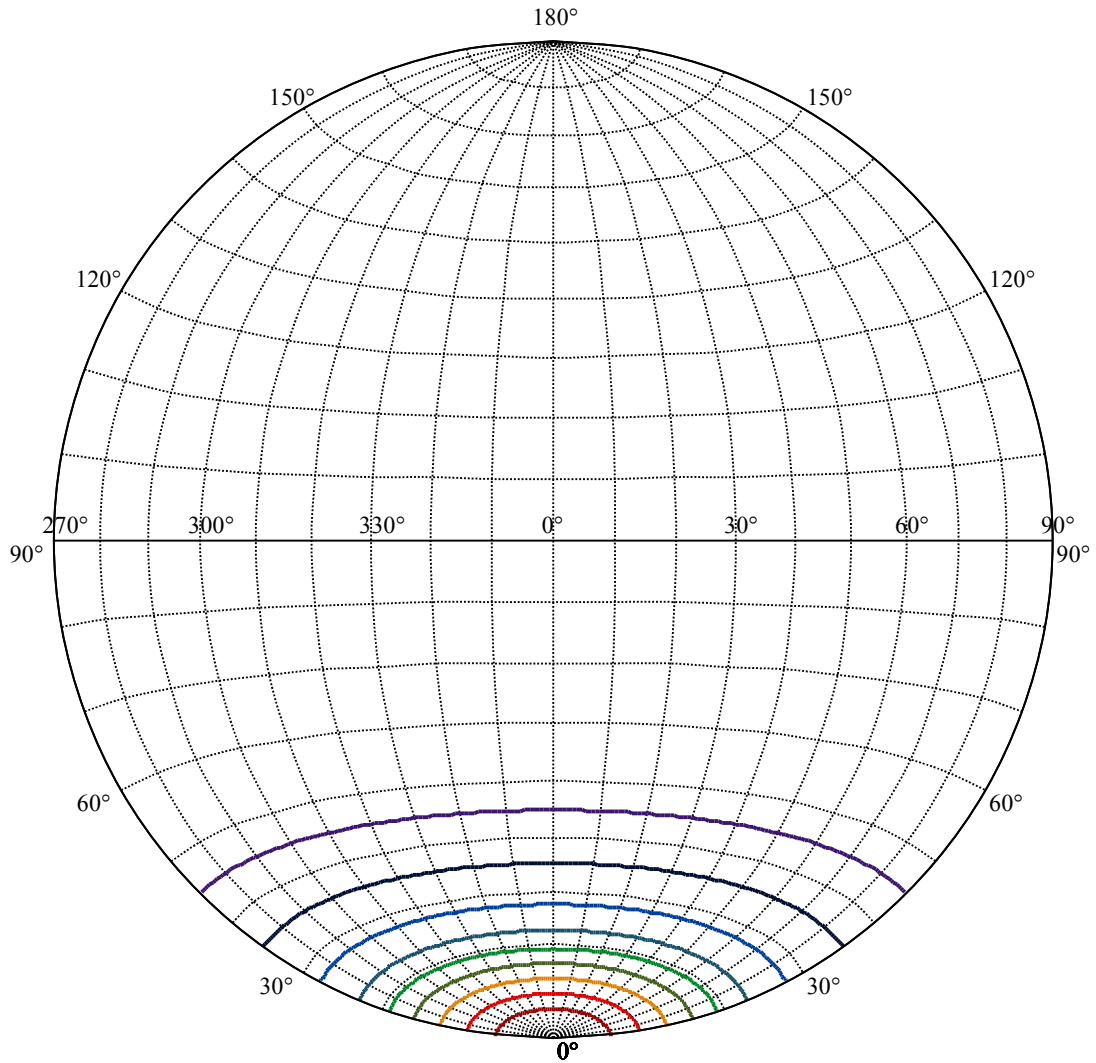
Field angle(10%Imax):C0/180Left:45.0 Right:45.0  
:C90/270Left:45.0 Right:45.0

Beam Angle(50%Imax):C0/180Left:19.2 Right:19.2  
:C90/270Left:19.2 Right:19.2





(10%Imax) 122.301	—
(20%Imax) 244.601	—
(30%Imax) 366.902	—
(40%Imax) 489.203	—
(50%Imax) 611.503	—
(60%Imax) 733.804	—
(70%Imax) 856.104	—
(80%Imax) 978.405	—
(90%Imax) 1100.71	—



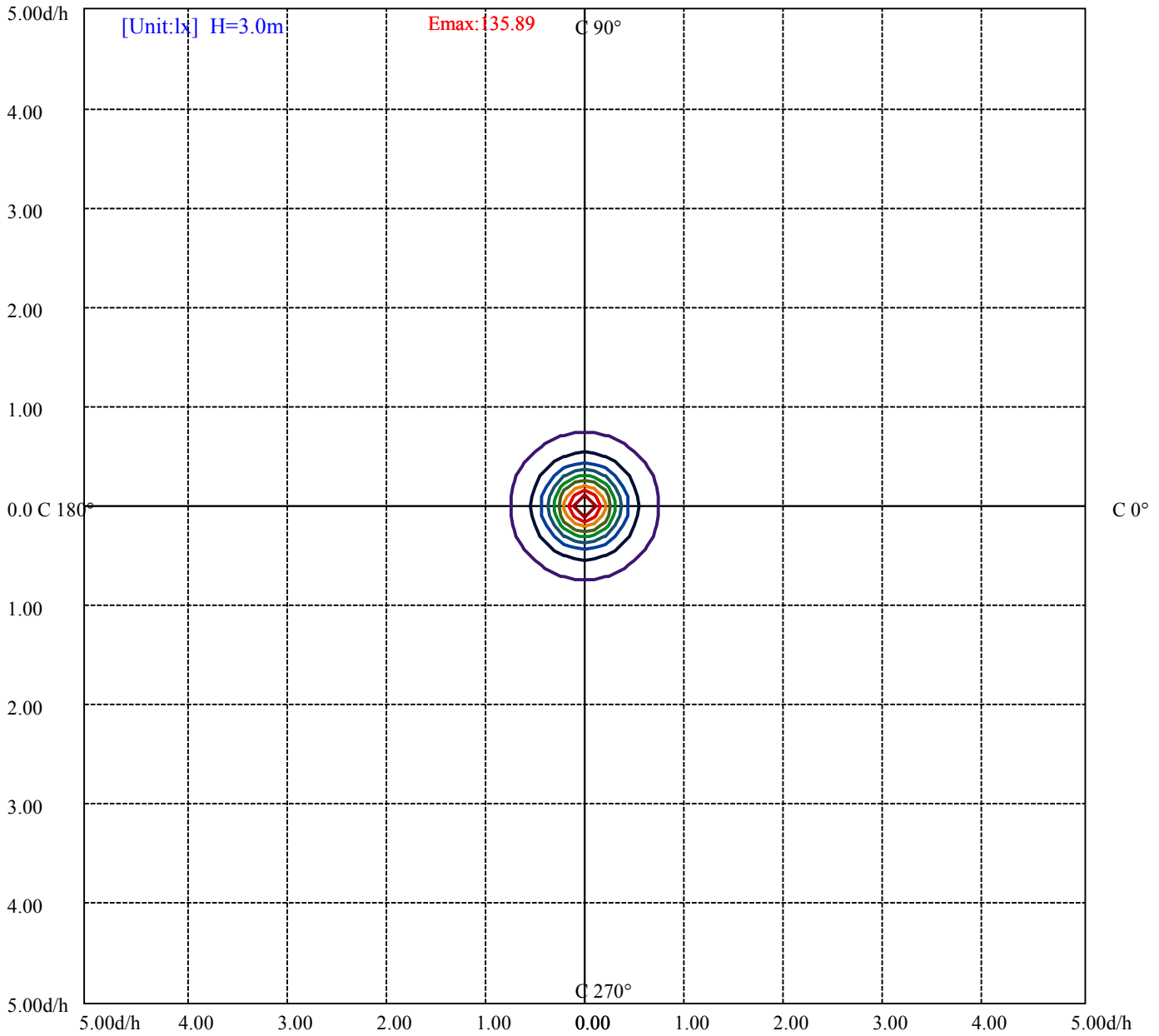
House

[Unit:cd]

Road

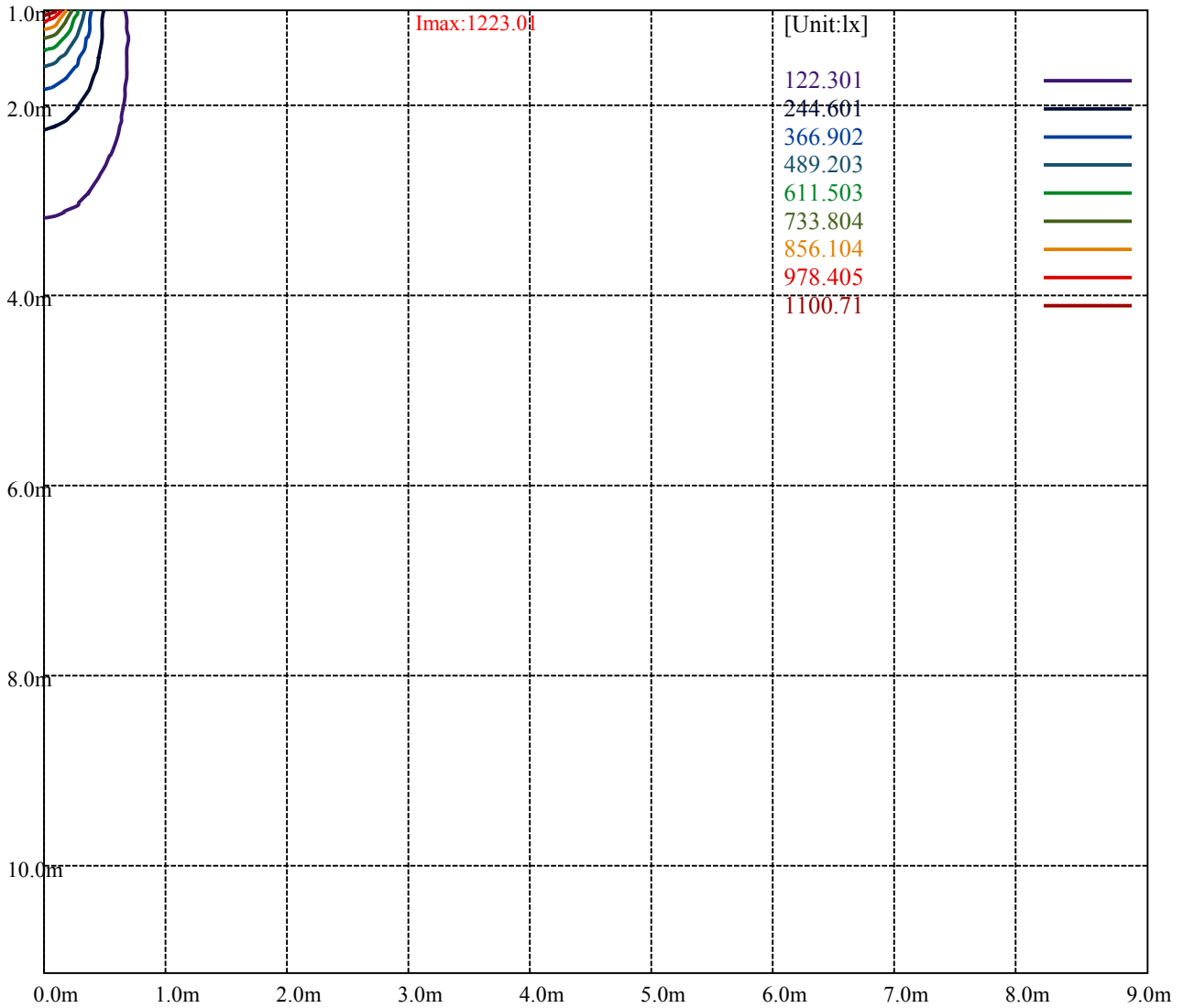
Imax:1223.01

(10%Imax)	122.301	—
(20%Imax)	244.601	—
(30%Imax)	366.902	—
(40%Imax)	489.203	—
(50%Imax)	611.503	—
(60%Imax)	733.804	—
(70%Imax)	856.104	—
(80%Imax)	978.405	—
(90%Imax)	1100.71	—



(10%Emax) 13.58889	—
(20%Emax) 27.17789	—
(30%Emax) 40.76678	—
(40%Emax) 54.35578	—
(50%Emax) 67.94467	—
(60%Emax) 81.53366	—
(70%Emax) 95.12256	—
(80%Emax) 108.7116	—
(90%Emax) 122.3	—





Luminance Table

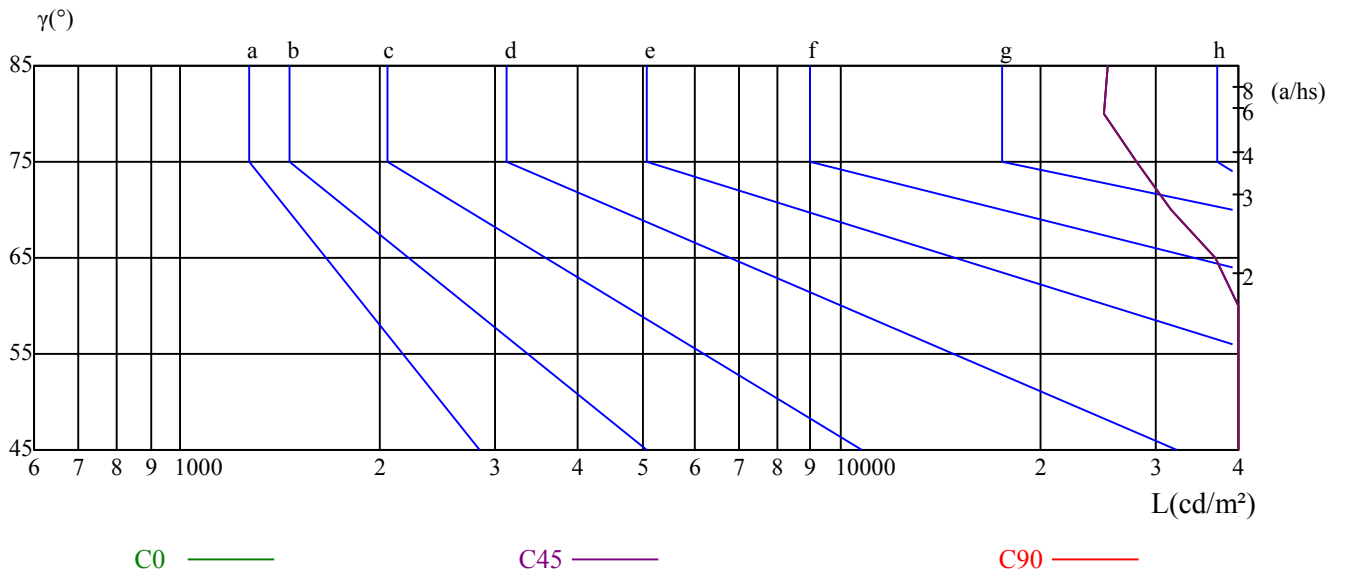
$\gamma$	45	50	55	60	65	70	75	80	85
C0	113268	78925	56554	44069	36907	31722	28128	24992	25422
C45	113268	78925	56554	44069	36907	31722	28128	24992	25422
C90	113268	78925	56554	44069	36907	31722	28128	24992	25422

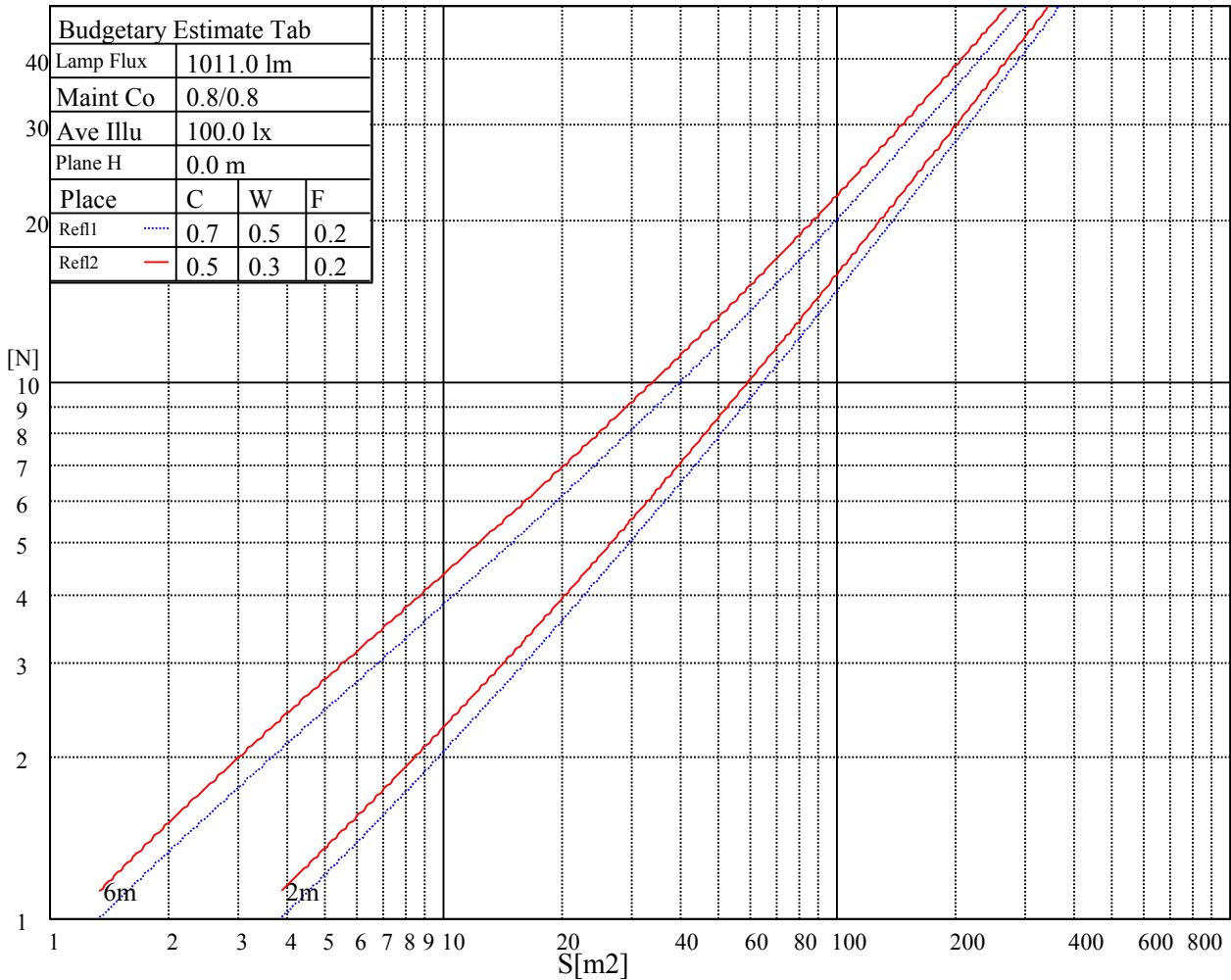
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
36907	36907	36907	28128	28128	28128	25422	25422	25422

Glare Table

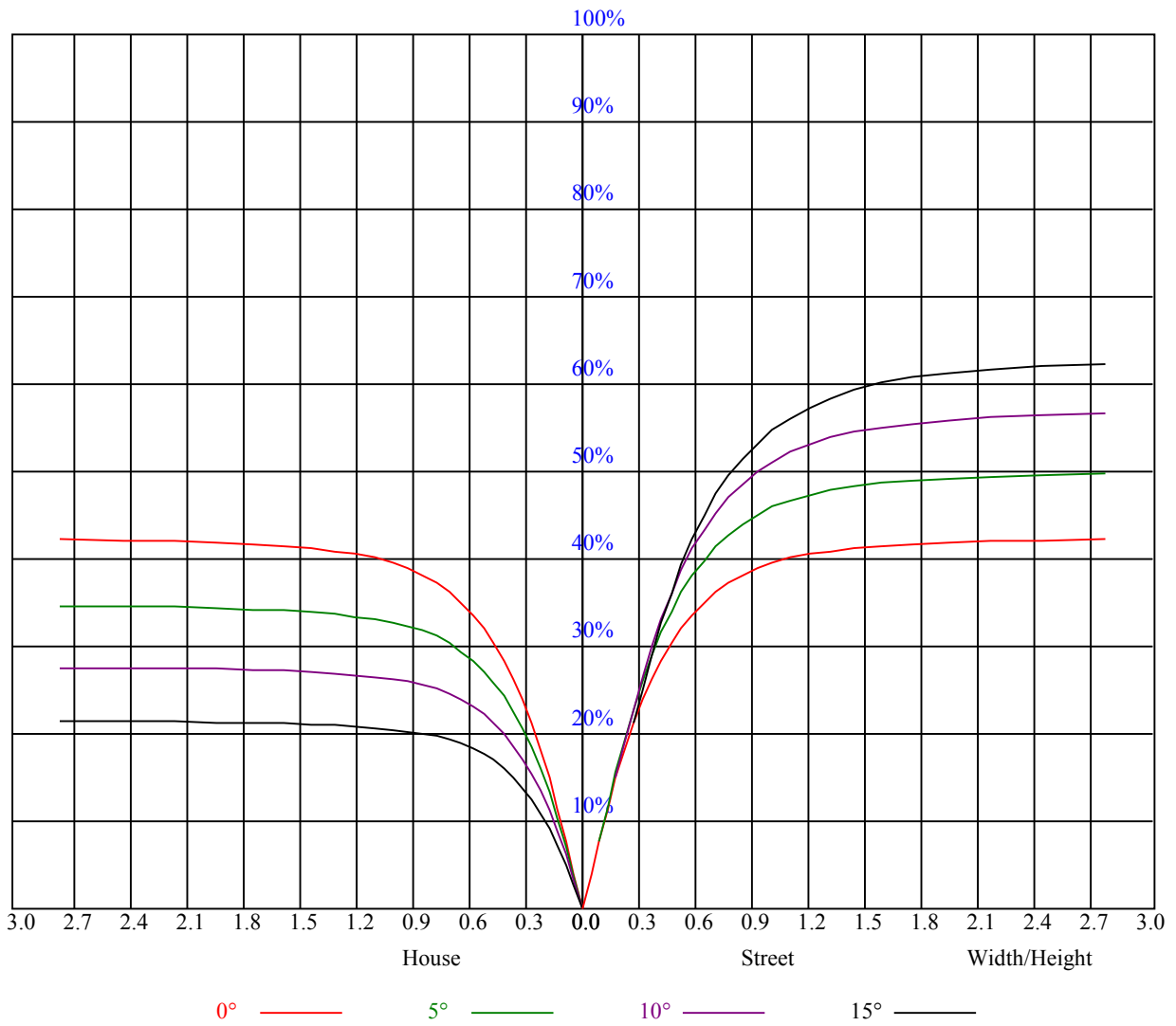
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

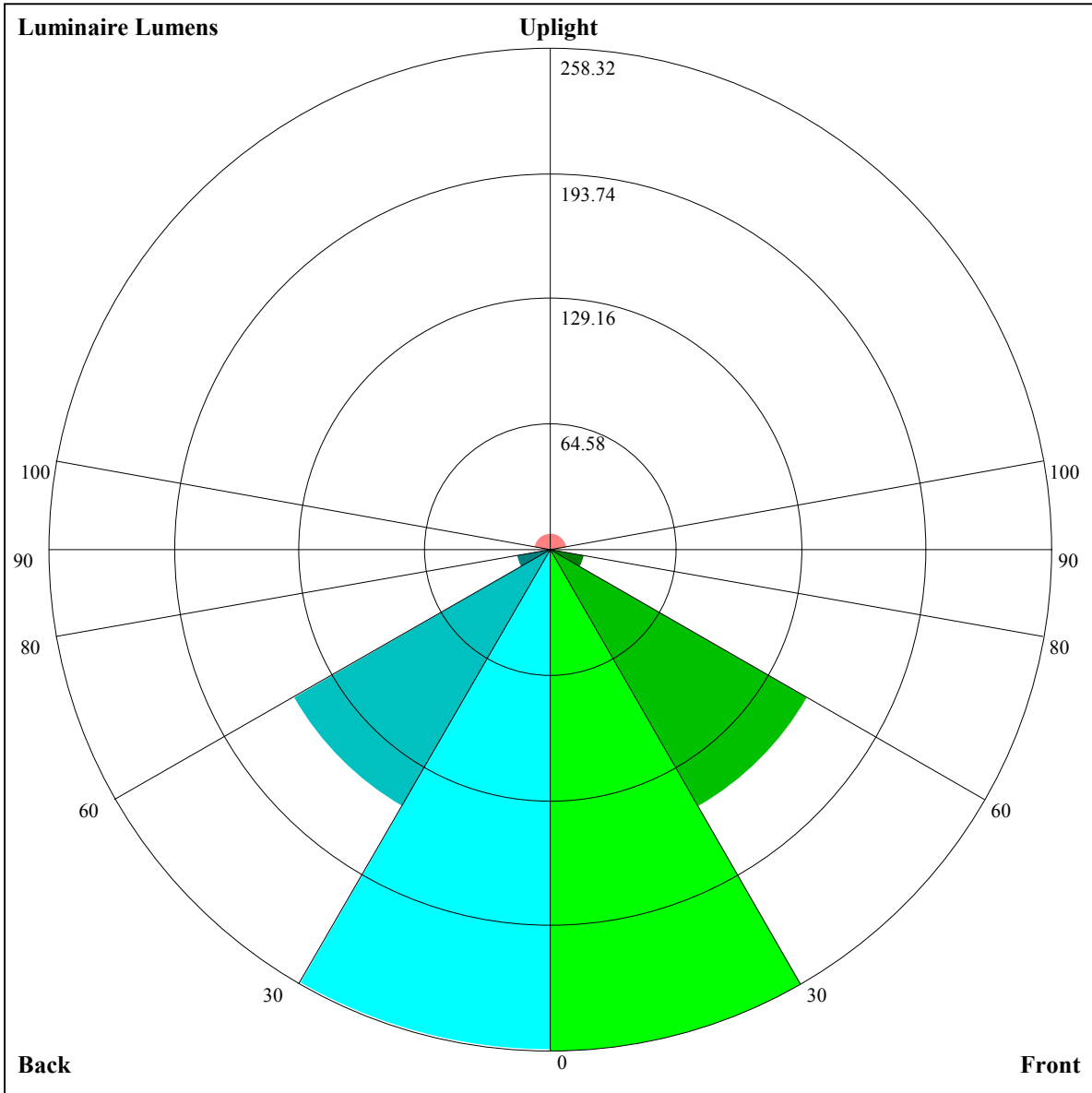
Luminance Limiting Curve





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	1.00	1.00	1.00	0.95	0.95	0.95	0.91	0.91	0.91	0.88	0.88	0.88	0.86
1	0.94	0.91	0.89	0.92	0.90	0.88	0.88	0.87	0.85	0.85	0.84	0.82	0.82	0.81	0.80	0.78
2	0.86	0.82	0.79	0.85	0.81	0.78	0.82	0.79	0.76	0.79	0.77	0.75	0.77	0.75	0.73	0.72
3	0.79	0.75	0.71	0.78	0.74	0.70	0.76	0.72	0.69	0.74	0.71	0.68	0.72	0.69	0.67	0.65
4	0.74	0.68	0.64	0.73	0.68	0.64	0.71	0.66	0.63	0.69	0.65	0.62	0.67	0.64	0.62	0.60
5	0.68	0.63	0.59	0.68	0.62	0.58	0.66	0.61	0.58	0.64	0.61	0.57	0.63	0.60	0.57	0.56
6	0.64	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.56	0.53	0.59	0.56	0.53	0.51
7	0.60	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.50	0.56	0.52	0.49	0.48
8	0.56	0.51	0.47	0.56	0.50	0.47	0.55	0.50	0.47	0.54	0.49	0.46	0.53	0.49	0.46	0.45
9	0.53	0.48	0.44	0.53	0.47	0.44	0.52	0.47	0.44	0.51	0.47	0.43	0.50	0.46	0.43	0.42
10	0.50	0.45	0.41	0.50	0.45	0.41	0.49	0.44	0.41	0.48	0.44	0.41	0.48	0.44	0.41	0.40





Luminaire Lumens:

FL=258.32,FM=153.04,FH=18.1,FVH=2.1

BL=257.9,BM=153.08,BH=17.79,BVH=2.03

UL=1.85,UH=8.82

BUG Rating:B1-U1-G0

Intensity data(cd)

C/ $\gamma$ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	1225.56	1147.60	891.13	778.37	539.81	407.65	313.55	239.12	174.71
45.0	1217.21	1207.93	1083.56	865.00	644.12	477.54	354.10	266.40	237.63
90.0	1225.09	1152.24	901.90	756.00	555.03	419.86	309.32	243.71	177.49
135.0	1224.17	1184.72	1041.34	854.80	641.34	459.44	348.54	270.58	236.24
180.0	1225.56	1178.23	1029.74	804.22	598.19	442.27	347.14	261.30	232.99
225.0	1217.21	1096.56	902.73	678.60	503.80	353.87	280.23	205.57	148.91
270.0	1225.09	1179.62	1042.27	791.22	596.33	416.28	329.05	263.62	237.63
315.0	1224.17	1139.25	912.61	747.70	537.03	402.18	308.12	239.91	177.40
360.0	1225.56	1147.60	891.13	778.37	539.81	407.65	313.55	239.12	174.71
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	116.89	77.35	47.29	33.69	22.46	16.10	10.63	6.13	3.39
45.0	140.14	92.11	57.82	39.30	28.40	18.79	13.22	7.56	3.76
90.0	116.19	74.89	47.24	32.44	22.92	16.47	10.30	6.50	3.62
135.0	134.89	86.59	57.26	36.43	26.54	18.84	12.48	7.84	3.76
180.0	133.83	77.35	51.32	34.94	24.73	16.89	11.42	7.33	3.25
225.0	96.80	61.07	39.26	27.52	20.09	13.04	8.63	4.59	2.41
270.0	128.72	79.30	49.79	32.76	23.20	16.80	11.51	7.05	3.43
315.0	107.10	68.63	44.73	31.04	21.44	15.08	10.39	5.80	3.34
360.0	116.89	77.35	47.29	33.69	22.46	16.10	10.63	6.13	3.39
C/ $\gamma$ (°)	90.0								
0.0	1.76								
45.0	1.86								
90.0	1.72								
135.0	1.81								
180.0	1.48								
225.0	1.39								
270.0	1.72								
315.0	1.86								
360.0	1.76								