



NATA LIGHTING CO.,LTD.  
www.nata.cn  
Email:info@nata.com  
Tel:+86-750-3770000 Fax:+86-750-3771111  
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

---

## Nata

---

Client:

LumCAT: 2-1795-N

Luminaire: 92.70.131.00

Report No:

Voltage(V): 34.9800

Test No: GC2019082206

Current(A): 0.3980

LampCAT: TRIDONIC SLE 13MM G7

Power (W): 13.9200

Lamp flux(lm): 1702.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 69

Width(mm): 69

Phm Type: C

Height(mm): 0

---

## Photometric Results

---

Lumens(lm): 1442.11, Efficiency(%): 84.73% , Luminous Efficacy(lm/W): 103.60

Central intensity(cd): 2925.000, Maximum intensity(cd): 2925.000

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

Beam Angle(50%Imax): [C0/180]Total=39.2

[C90/270]Total=39.2

Field angle(10%Imax): [C0/180]Total=64.6

[C90/270]Total=64.6

Maximum s/h(1/2): C0\_180=0.64 C90\_270=0.64

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(%): 84.73%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.067%

---

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2019/8/22  
Humidity(%): 65.0%

Operator: NT07  
Distance(m): 7.50

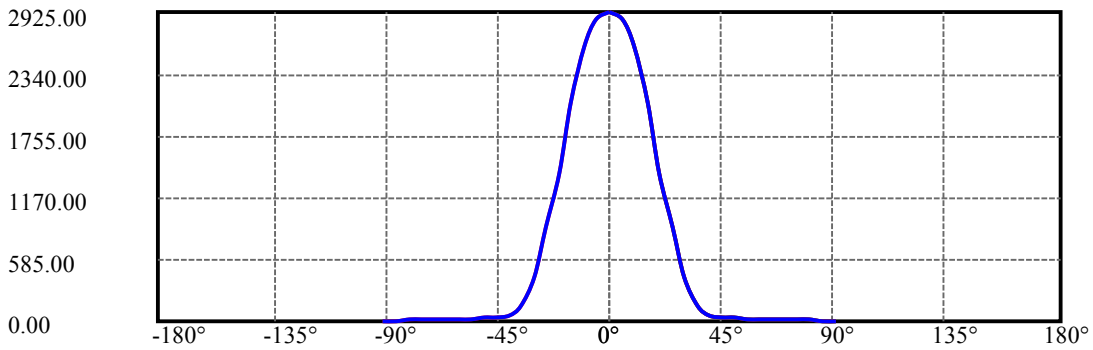
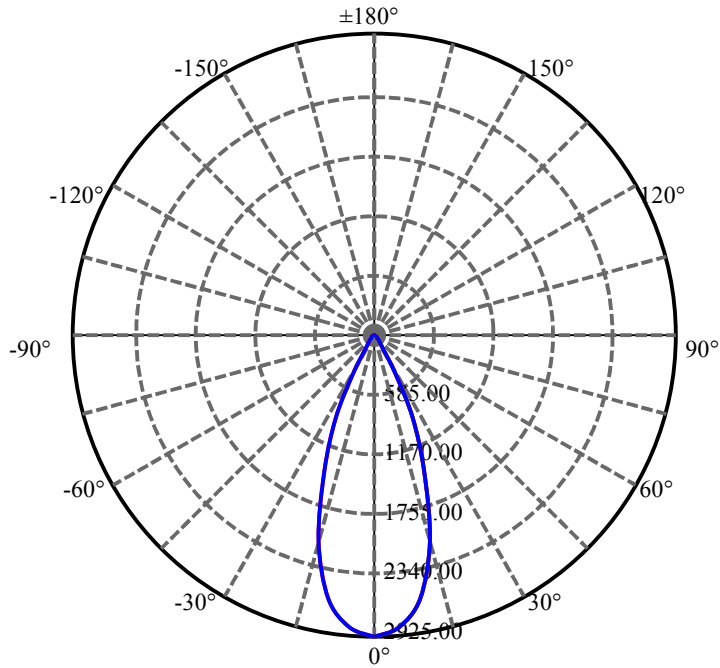
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2925.000	0.000	0	.000%	.000%
5.0	2845.688	68.987	68.987	4.053%	4.784%
10.0	2597.063	194.704	263.691	11.440%	18.285%
15.0	2063.672	276.472	540.163	16.244%	37.456%
20.0	1403.459	285.740	825.903	16.788%	57.271%
25.0	883.132	239.821	1065.724	14.091%	73.900%
30.0	425.580	165.619	1231.343	9.731%	85.385%
35.0	140.998	83.433	1314.776	4.902%	91.170%
40.0	55.230	32.739	1347.515	1.924%	93.441%
45.0	36.541	16.992	1364.507	.998%	94.619%
50.0	29.004	13.244	1377.751	.778%	95.537%
55.0	24.202	11.569	1389.32	.680%	96.340%
60.0	21.213	10.498	1399.818	.617%	97.067%
65.0	18.387	9.627	1409.444	.566%	97.735%
70.0	15.806	8.658	1418.102	.509%	98.335%
75.0	13.423	7.640	1425.742	.449%	98.865%
80.0	11.166	6.579	1432.321	.387%	99.321%
85.0	8.831	5.434	1437.755	.319%	99.698%
90.0	7.066	4.353	1442.108	.256%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1231.34	72.35%	85.38%
0-40	1347.51	79.17%	93.44%
0-60	1399.82	82.25%	97.07%
0-90	1437.76	84.47%	99.70%
0-120	1437.76	84.47%	99.70%
0-180	1442.11	84.73%	100.00%
60-90	48.43	2.85%	3.36%
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%
0-27.66	1153.69	67.78%	80.00%

ZONAL LUMEN SUMMARY

0-10	263.69
10-20	562.21
20-30	405.44
30-40	116.17
40-50	30.24
50-60	22.07
60-70	18.28
70-80	14.22
80-90	5.43
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: —————

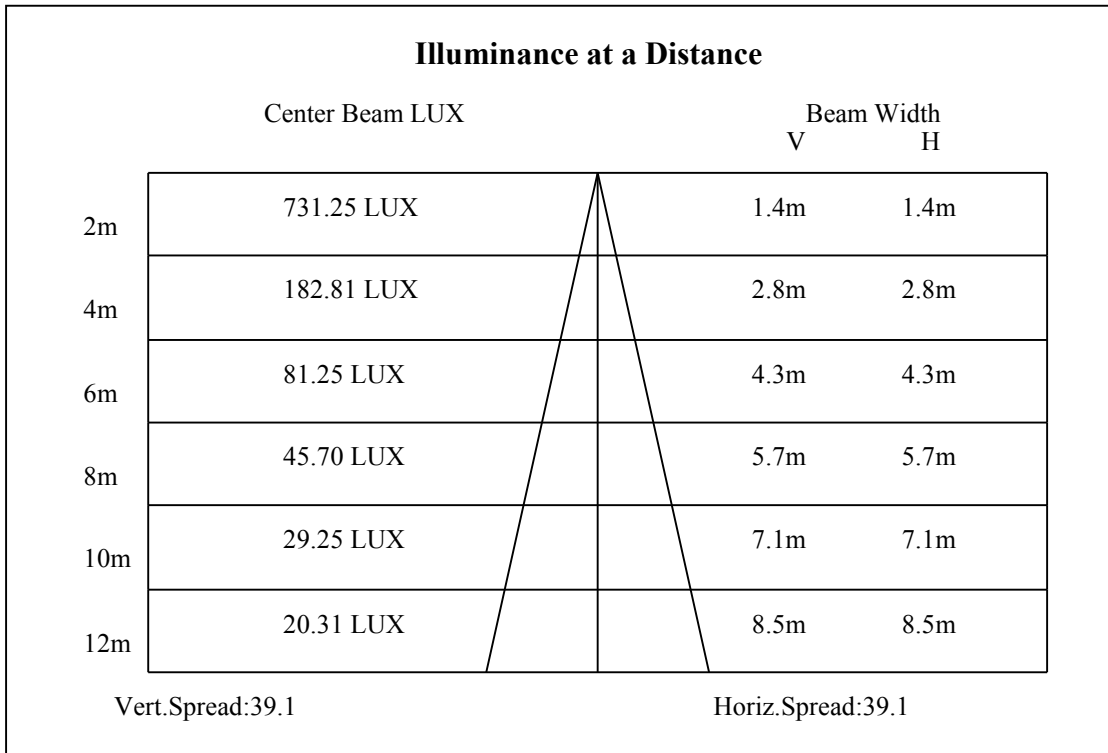
C90/C270: —————

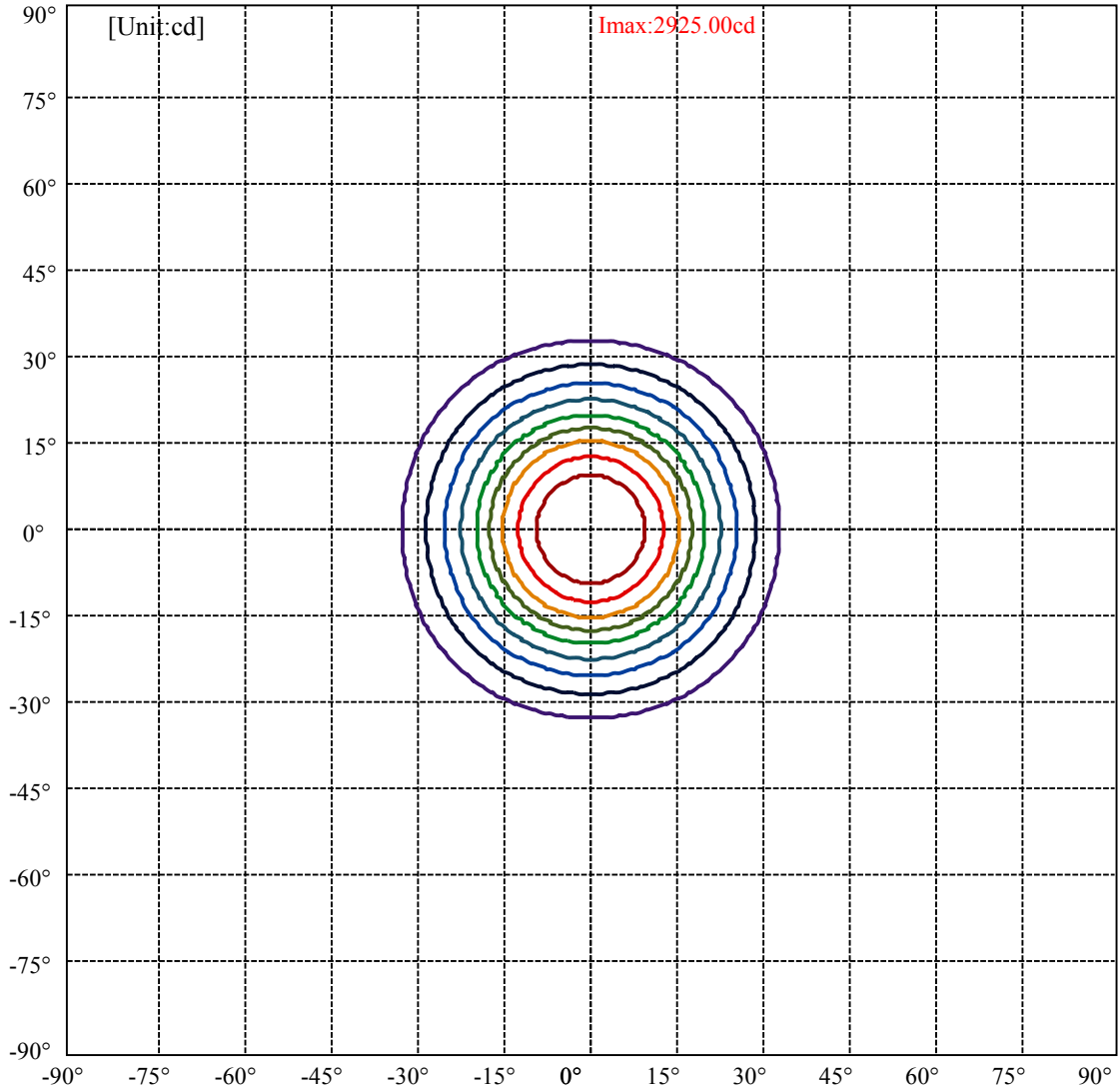
Field angle(10%Imax):C0/180Left:32.3 Right:32.3

:C90/270Left:32.3 Right:32.3

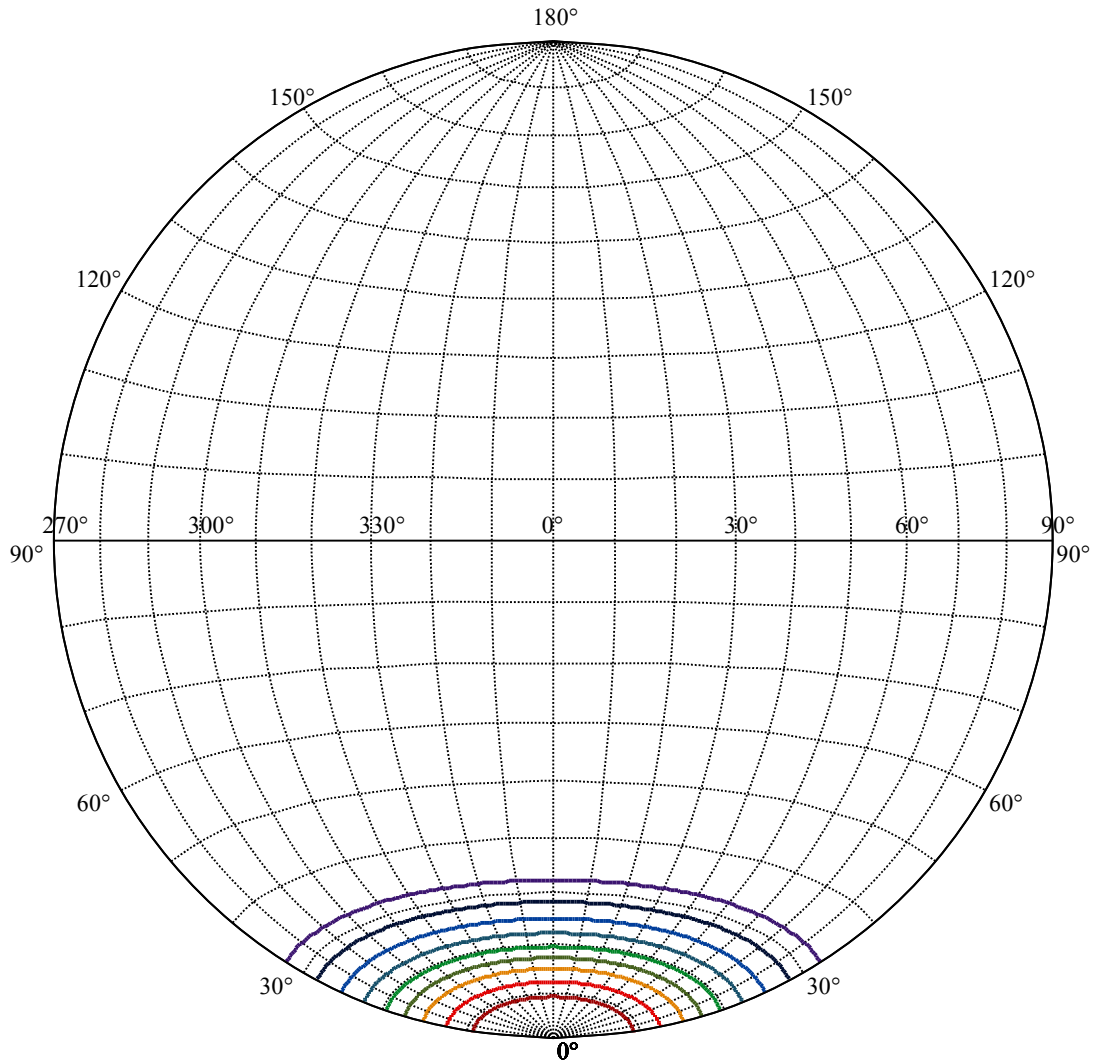
Beam Angle(50%Imax):C0/180Left:19.6 Right:19.6

:C90/270Left:19.6 Right:19.6





(10%Imax) 292.5	—
(20%Imax) 585	—
(30%Imax) 877.5	—
(40%Imax) 1170	—
(50%Imax) 1462.5	—
(60%Imax) 1755	—
(70%Imax) 2047.5	—
(80%Imax) 2340	—
(90%Imax) 2632.5	—



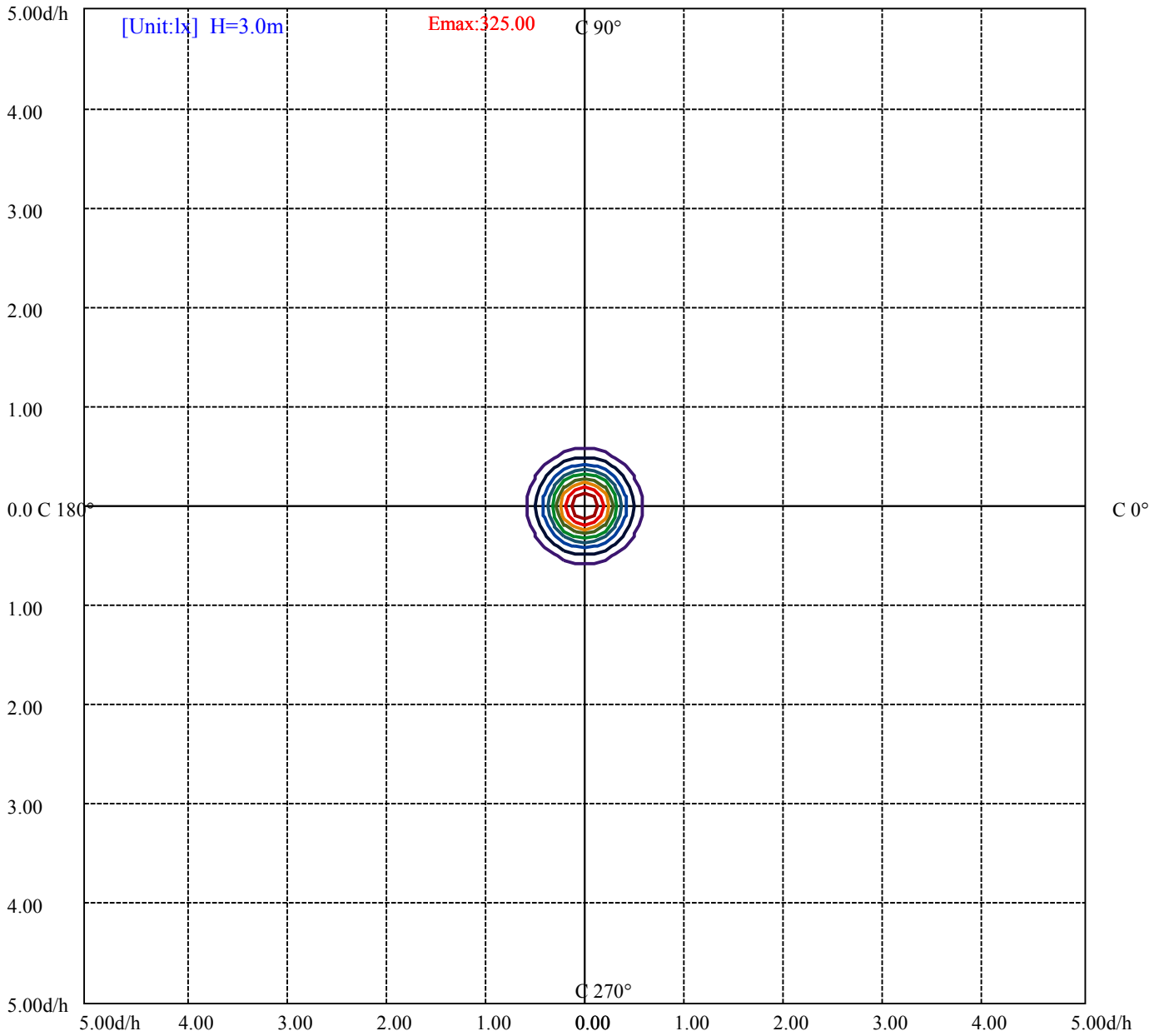
House

[Unit:cd]

Road

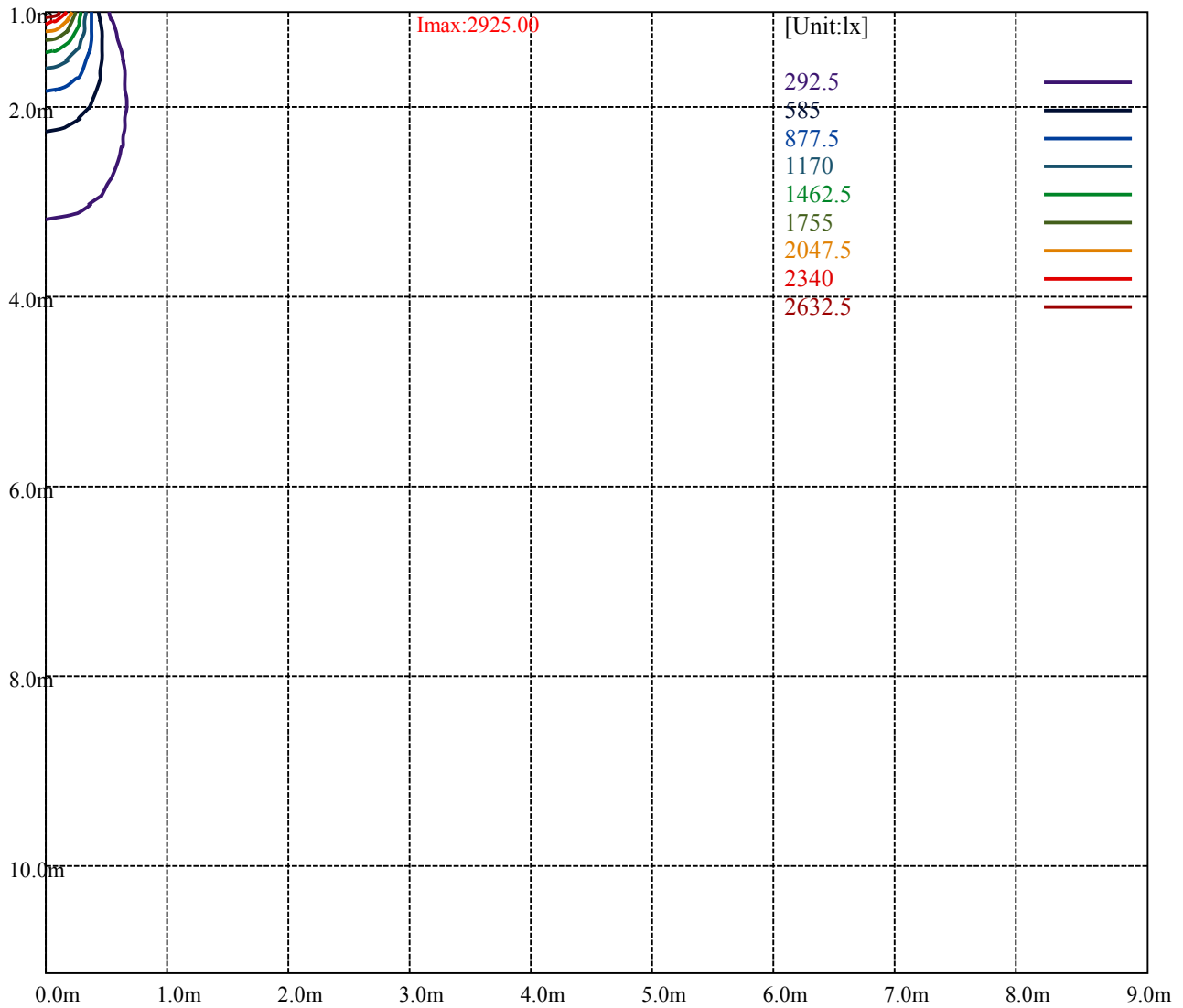
Imax:2925.00

(10%Imax) 292.5	—
(20%Imax) 585	—
(30%Imax) 877.5	—
(40%Imax) 1170	—
(50%Imax) 1462.5	—
(60%Imax) 1755	—
(70%Imax) 2047.5	—
(80%Imax) 2340	—
(90%Imax) 2632.5	—



- (10%Emax) 32.5
- (20%Emax) 65
- (30%Emax) 97.49989
- (40%Emax) 130
- (50%Emax) 162.5
- (60%Emax) 195
- (70%Emax) 227.5
- (80%Emax) 260
- (90%Emax) 292.5





Luminance Table

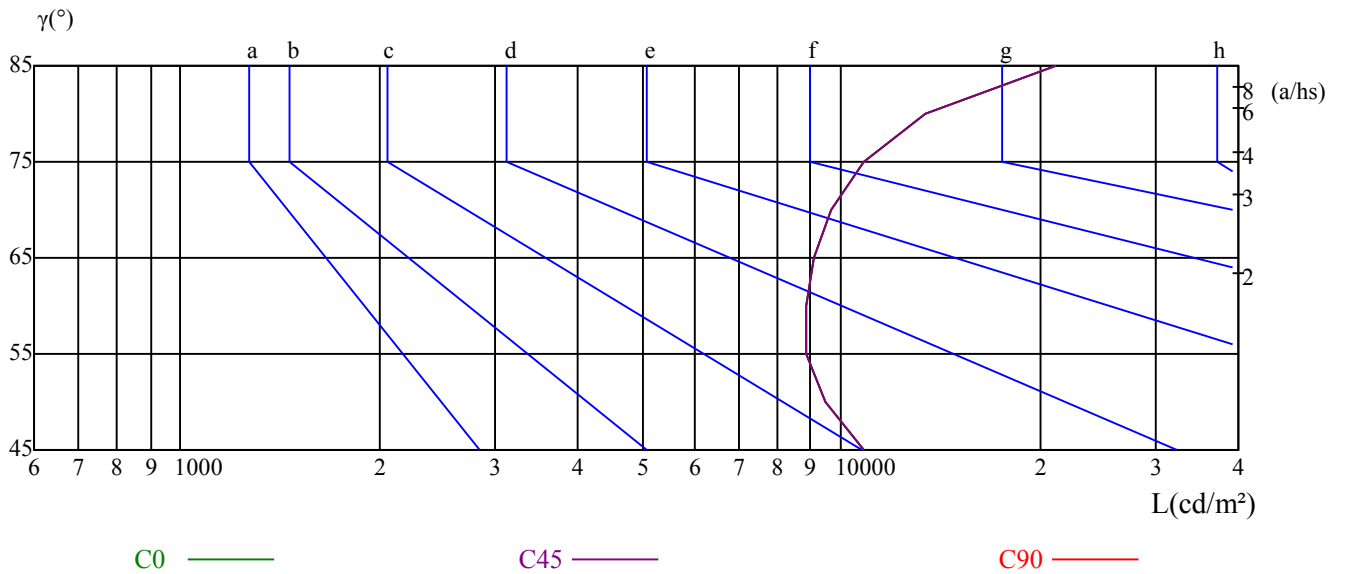
$\gamma$	45	50	55	60	65	70	75	80	85
C0	10823	9450	8837	8885	9112	9679	10861	13467	21221
C45	10823	9450	8837	8885	9112	9679	10861	13467	21221
C90	10823	9450	8837	8885	9112	9679	10861	13467	21221

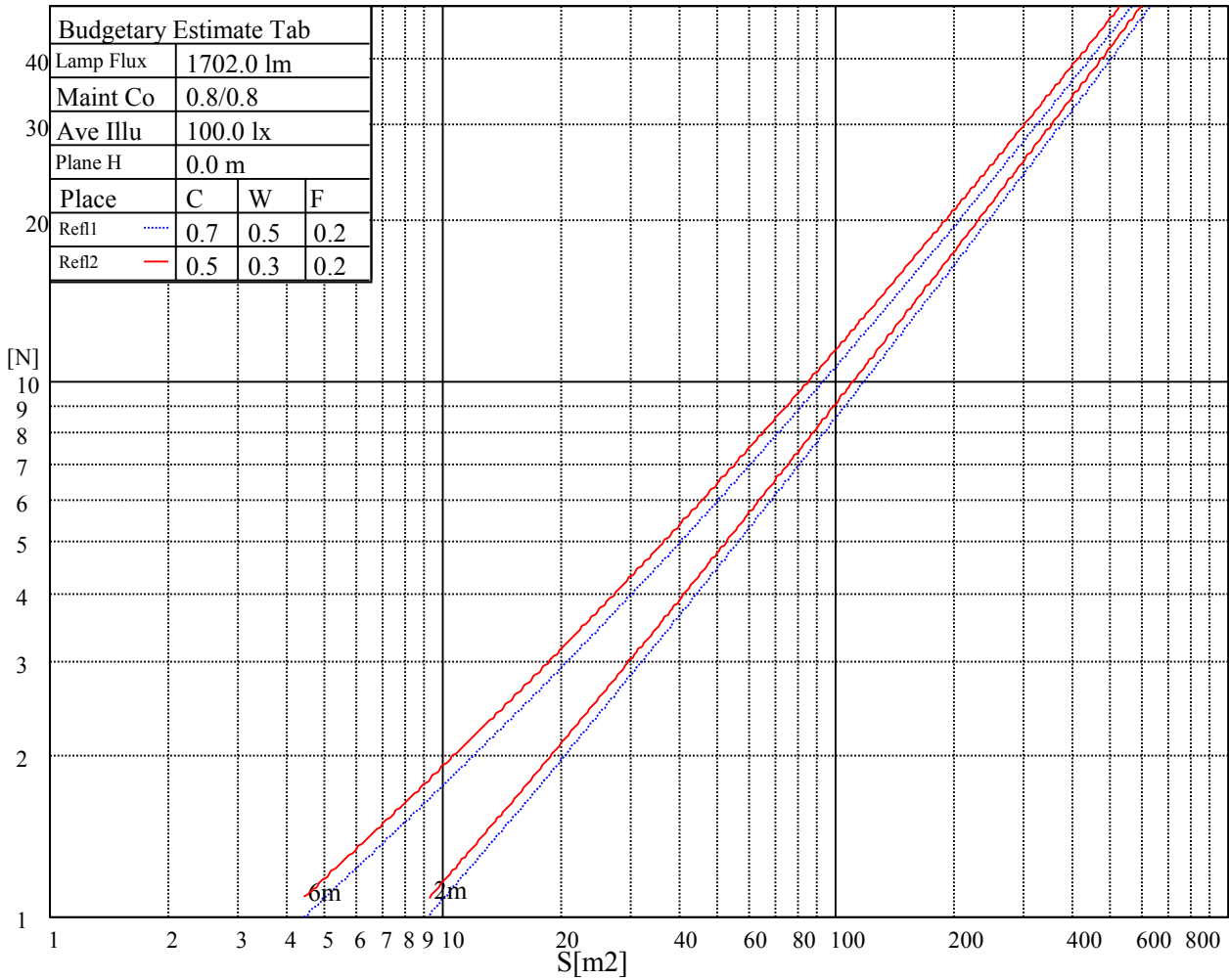
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9112	9112	9112	10861	10861	10861	21221	21221	21221

Glare Table

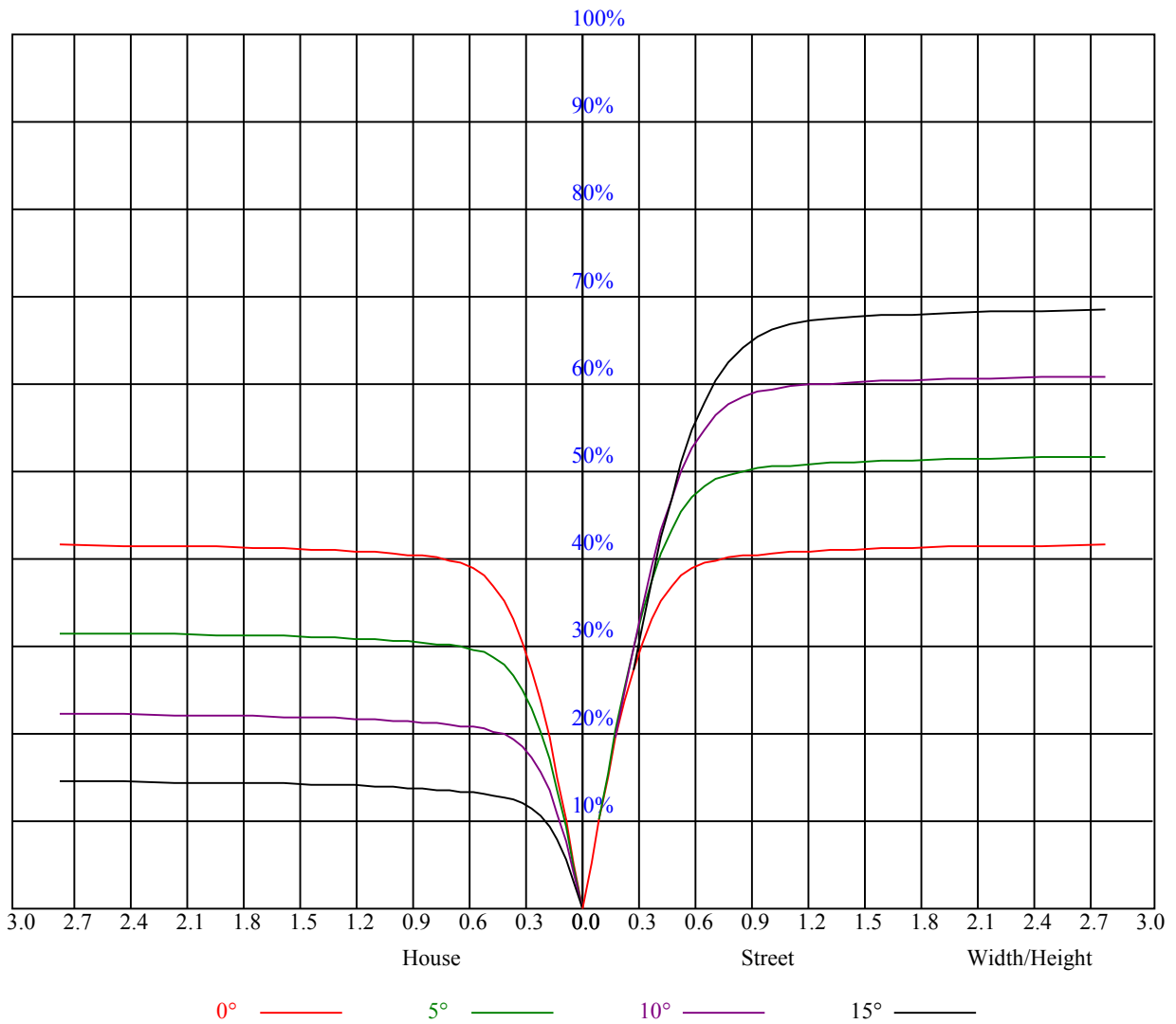
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

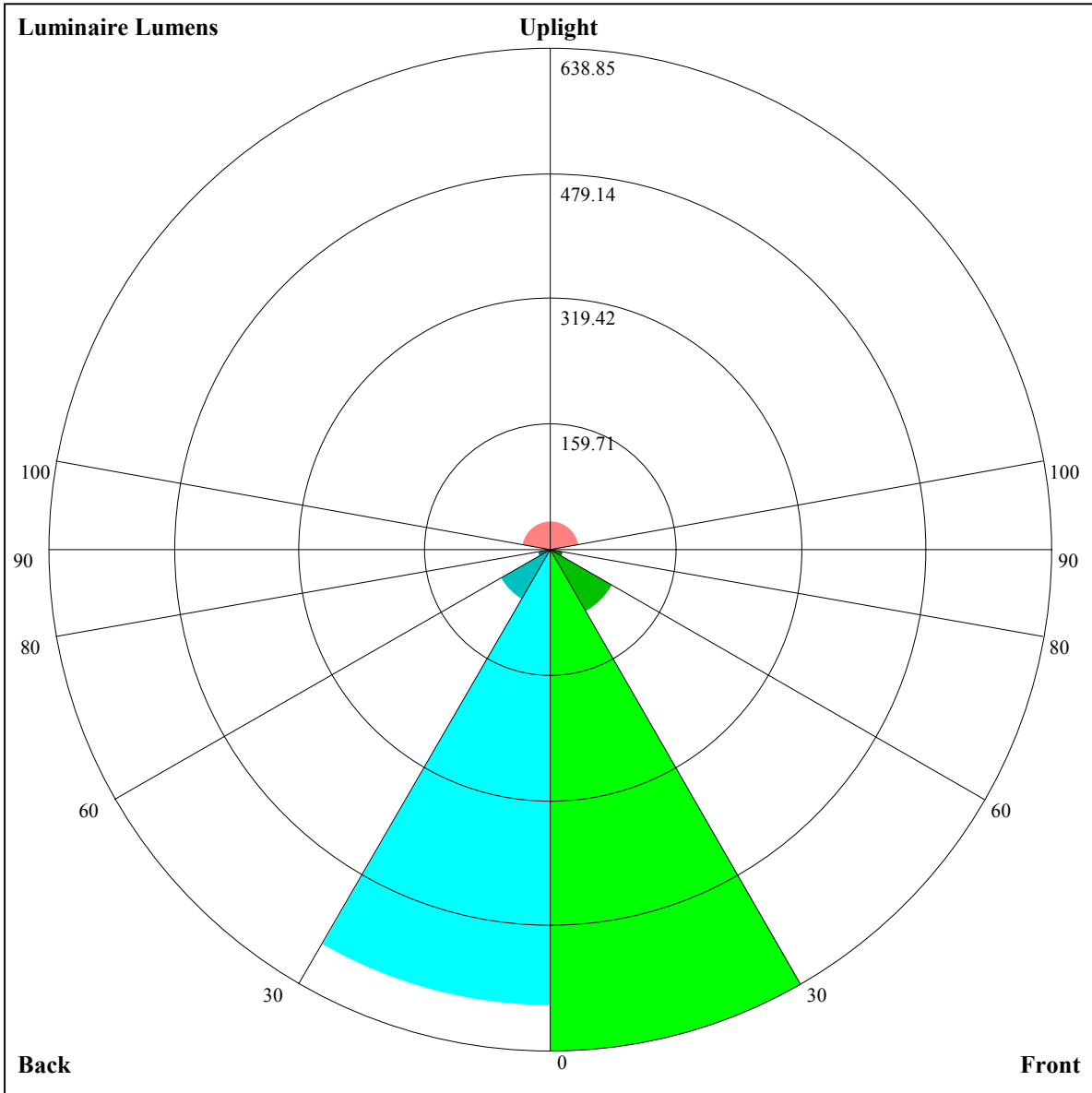
Luminance Limiting Curve





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	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.85
1	0.94	0.92	0.90	0.92	0.90	0.89	0.89	0.87	0.86	0.86	0.84	0.83	0.83	0.82	0.81	0.80
2	0.88	0.85	0.82	0.87	0.84	0.81	0.84	0.82	0.80	0.82	0.80	0.78	0.79	0.78	0.76	0.75
3	0.83	0.79	0.76	0.82	0.78	0.76	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.71
4	0.79	0.74	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.74	0.71	0.69	0.73	0.70	0.68	0.67
5	0.75	0.70	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.64
6	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.61
7	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.64	0.61	0.59	0.58
8	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.55
9	0.62	0.58	0.55	0.62	0.57	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.59	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=638.85,FM=91.72,FH=16.57,FVH=4.97

BL=580.48,BM=73.09,BH=15.96,BVH=4.77

UL=7.71,UH=36.69

BUG Rating:B2-U2-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	2925.00	2940.19	2732.63	2314.13	1636.31	1030.50	549.56	214.20	64.97
45.0	2914.31	2919.94	2759.06	2299.50	1650.38	1040.63	569.81	290.81	65.98
90.0	2923.88	2830.50	2554.31	2061.00	1419.19	844.88	419.01	121.84	54.73
135.0	2936.81	2824.31	2607.19	2084.63	1460.25	911.81	447.19	122.06	56.19
180.0	2925.00	2770.88	2464.31	1851.75	1116.34	748.80	310.73	84.43	49.33
225.0	2914.31	2761.88	2437.31	1811.81	1104.58	734.40	301.61	84.26	46.52
270.0	2923.88	2840.63	2607.19	2049.19	1409.06	882.56	411.19	106.09	52.59
315.0	2936.81	2877.19	2614.50	2037.38	1431.56	871.48	395.55	104.29	51.53
360.0	2925.00	2940.19	2732.63	2314.13	1636.31	1030.50	549.56	214.20	64.97
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	40.89	31.11	25.43	22.11	19.29	16.59	14.18	12.26	9.51
45.0	39.99	31.05	25.43	22.22	19.18	16.54	14.06	11.81	9.23
90.0	35.83	28.74	24.08	21.15	18.45	15.92	13.28	10.91	8.49
135.0	36.34	29.36	23.91	20.98	18.28	15.86	13.44	11.25	8.83
180.0	34.71	27.56	23.29	20.42	17.66	15.19	12.94	10.69	8.72
225.0	33.41	27.17	23.12	20.25	17.44	14.74	12.54	10.18	8.44
270.0	35.83	28.69	24.53	21.54	18.73	16.14	13.67	11.19	8.49
315.0	35.33	28.35	23.85	21.04	18.06	15.47	13.28	11.03	8.94
360.0	40.89	31.11	25.43	22.11	19.29	16.59	14.18	12.26	9.51
C/ $\gamma$ (°)	90.0								
0.0	7.54								
45.0	7.43								
90.0	6.98								
135.0	6.86								
180.0	6.86								
225.0	7.09								
270.0	6.92								
315.0	6.86								
360.0	7.54								