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Nata

Client:

LumCAT: 1762-A

Luminaire: 99.02.73.171

Report No:

Voltage(V): 34.2900

Test No: GC2019083003

Current(A): 0.3550

LampCAT: XICATO XOB LES 9.8MM

Power (W): 12.1700

Lamp flux(lm): 1120.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 35

Width(mm): 35

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1000.37, Efficiency(%): 89.32% , Luminous Efficacy(lm/W): 82.20

Central intensity(cd): 4277.110, Maximum intensity(cd): 4277.110

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=23.2

[C90/270]Total=23.2

Field angle(10%Imax): [C0/180]Total=50.2

[C90/270]Total=50.2

Maximum s/h(1/2): C0_180=0.39 C90_270=0.39

Maximum s/h(1/4): C0_180=0.42 C90_270=0.42

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 89.32%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.322%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2019/8/30
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

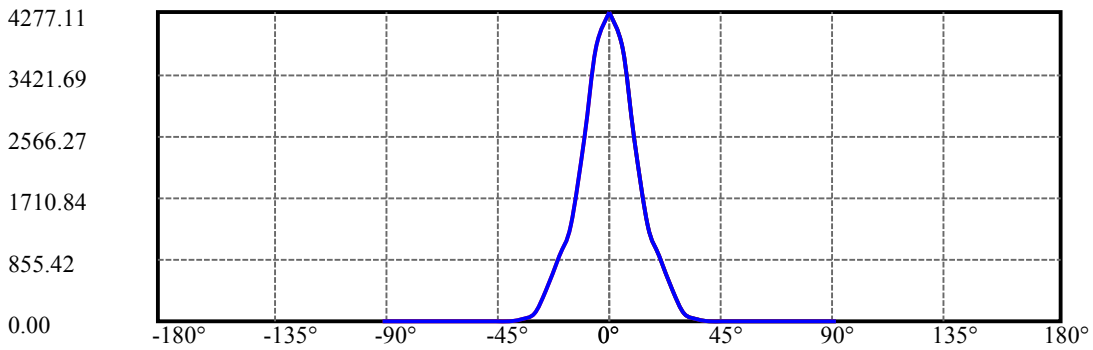
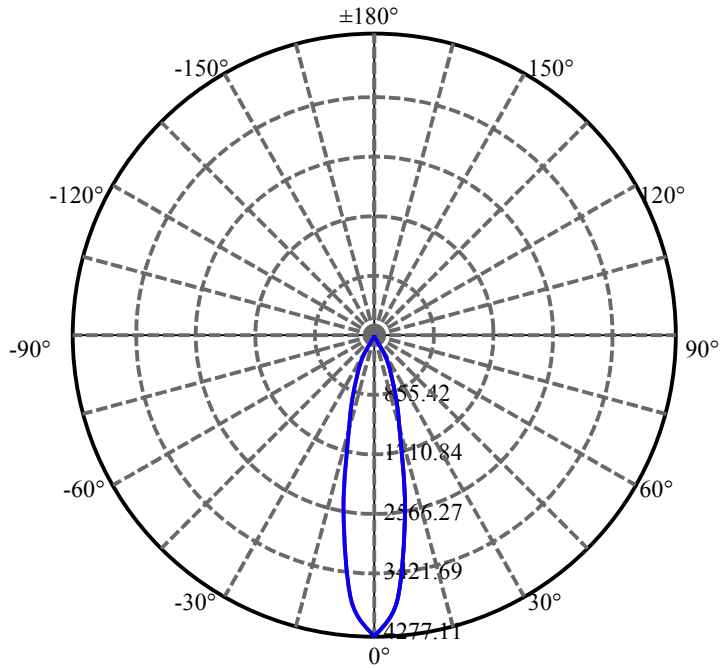
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4277.109	0.000	0	.000%	.000%
5.0	3772.688	96.233	96.233	8.592%	9.620%
10.0	2516.414	224.981	321.214	20.088%	32.109%
15.0	1324.083	227.816	549.03	20.341%	54.883%
20.0	912.045	184.288	733.318	16.454%	73.305%
25.0	434.791	141.258	874.576	12.612%	87.425%
30.0	114.089	69.461	944.037	6.202%	94.369%
35.0	20.454	19.812	963.85	1.769%	96.349%
40.0	13.043	5.589	969.439	.499%	96.908%
45.0	9.809	4.231	973.67	.378%	97.331%
50.0	8.037	3.606	977.276	.322%	97.691%
55.0	6.926	3.253	980.529	.290%	98.016%
60.0	6.321	3.062	983.591	.273%	98.323%
65.0	5.878	2.966	986.557	.265%	98.619%
70.0	5.569	2.898	989.455	.259%	98.909%
75.0	5.309	2.843	992.298	.254%	99.193%
80.0	5.070	2.777	995.075	.248%	99.471%
85.0	4.866	2.700	997.775	.241%	99.740%
90.0	4.620	2.597	1000.372	.232%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	944.04	84.29%	94.37%
0-40	969.44	86.56%	96.91%
0-60	983.59	87.82%	98.32%
0-90	997.77	89.09%	99.74%
0-120	997.77	89.09%	99.74%
0-180	1000.37	89.32%	100.00%
60-90	17.25	1.54%	1.72%
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%
0-22.37	800.30	71.46%	80.00%

ZONAL LUMEN SUMMARY

0-10	321.21
10-20	412.10
20-30	210.72
30-40	25.40
40-50	7.84
50-60	6.32
60-70	5.86
70-80	5.62
80-90	2.70
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



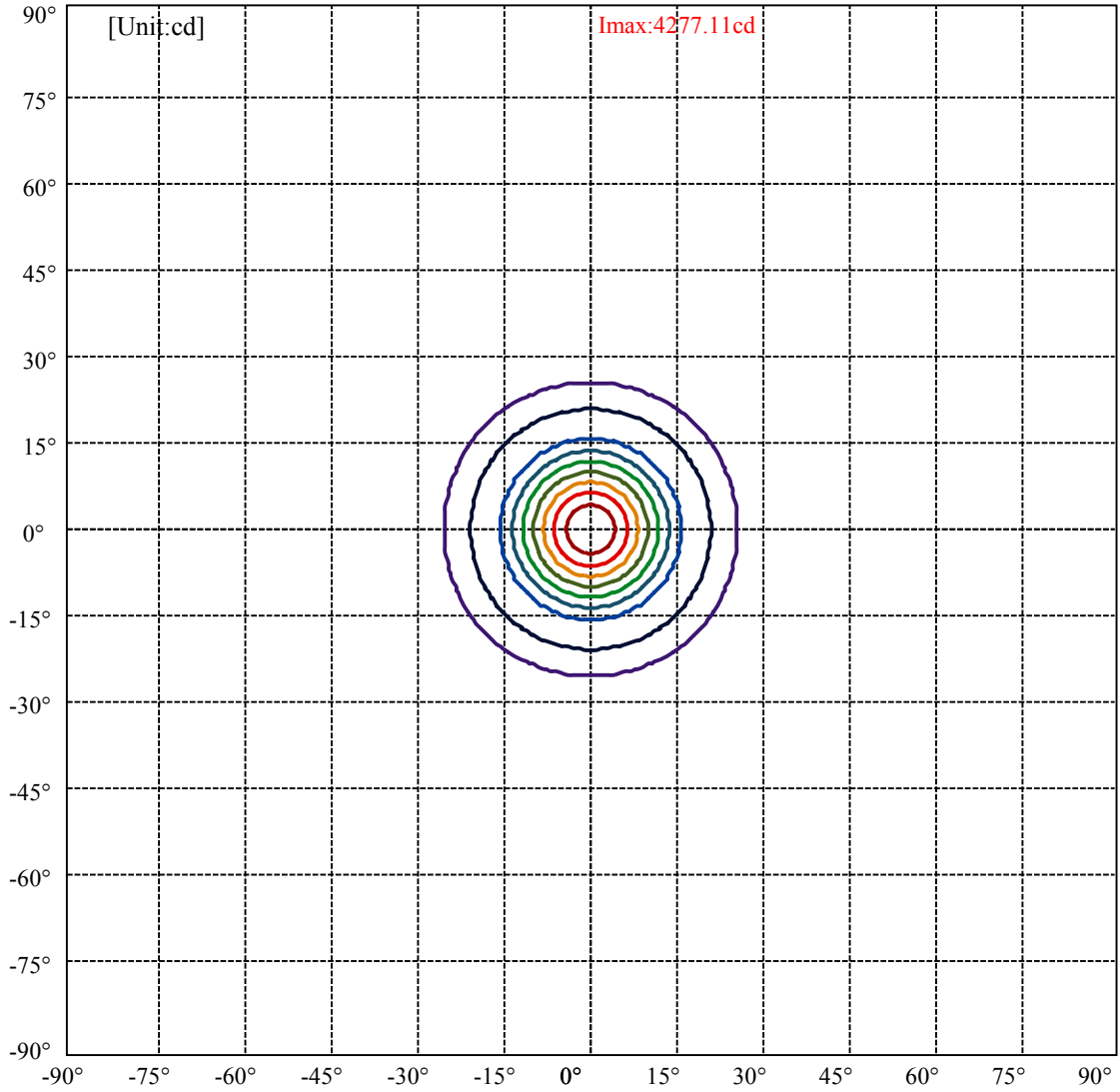
C0(Max): —————

C0/C180: —————

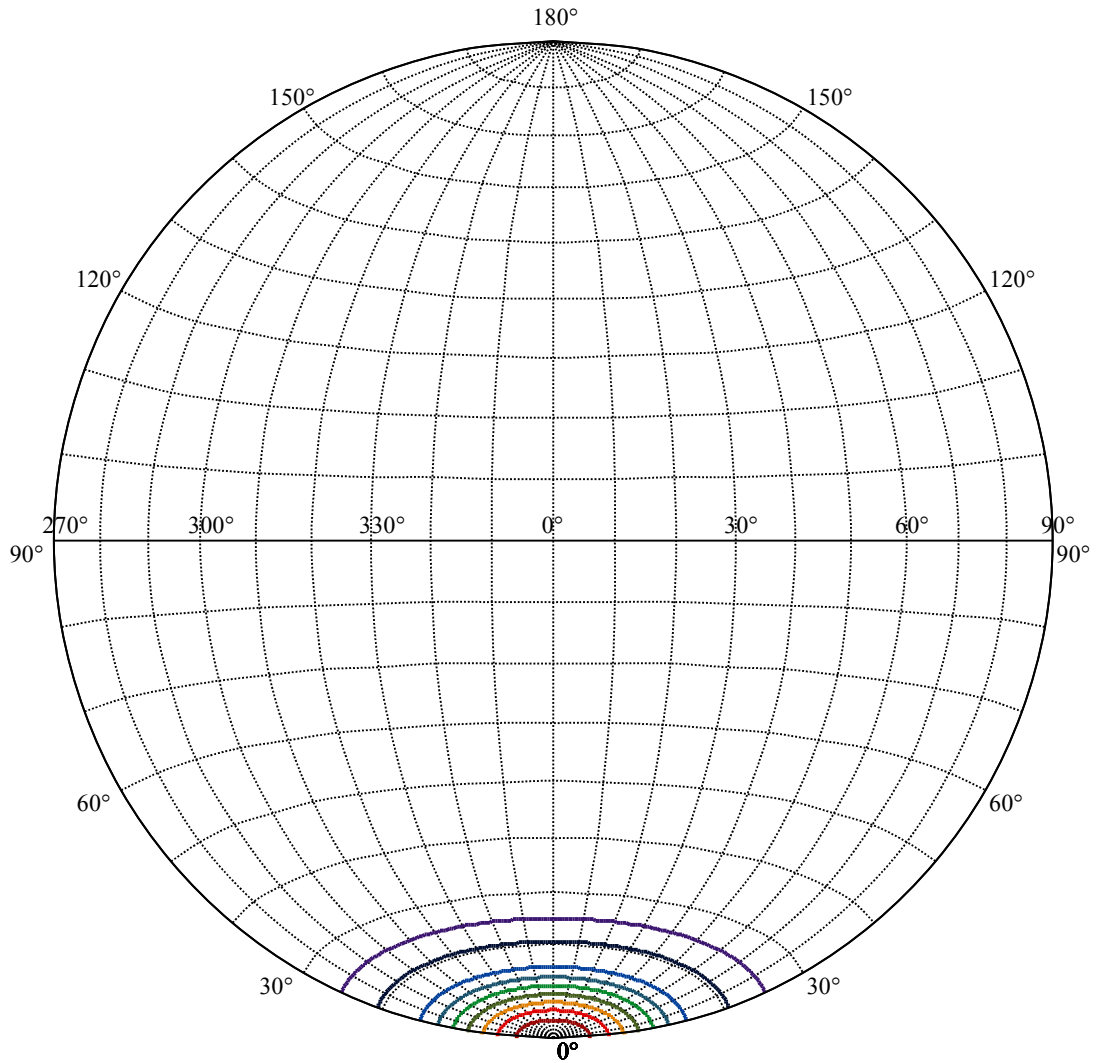
C90/C270: —————

Field angle(10%Imax):C0/180Left:25.1 Right:25.1
:C90/270Left:25.1 Right:25.1

Beam Angle(50%Imax):C0/180Left:11.6 Right:11.6
:C90/270Left:11.6 Right:11.6



(10%Imax) 427.711	—
(20%Imax) 855.422	—
(30%Imax) 1283.13	—
(40%Imax) 1710.84	—
(50%Imax) 2138.55	—
(60%Imax) 2566.27	—
(70%Imax) 2993.98	—
(80%Imax) 3421.69	—
(90%Imax) 3849.4	—



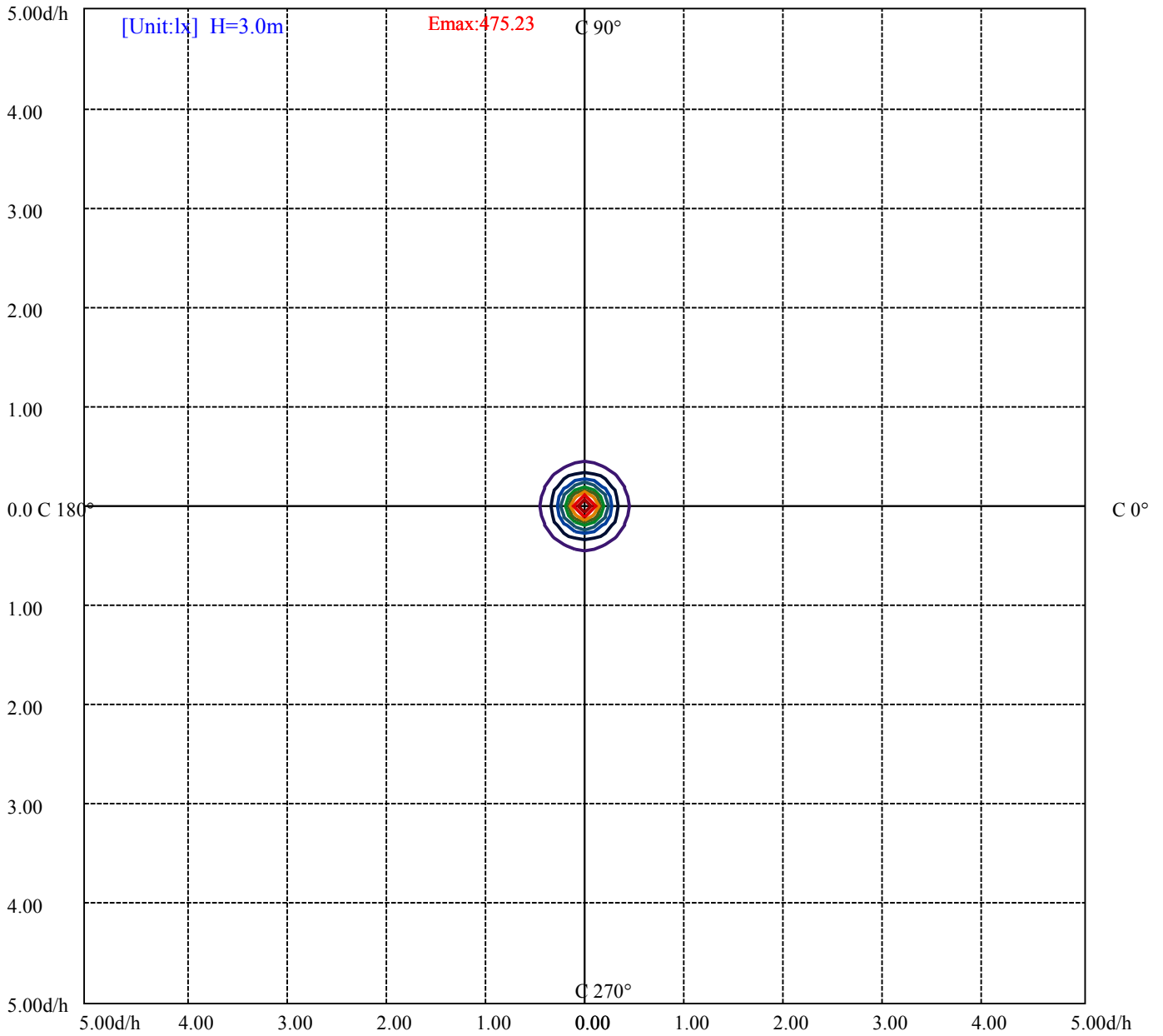
House

[Unit:cd]

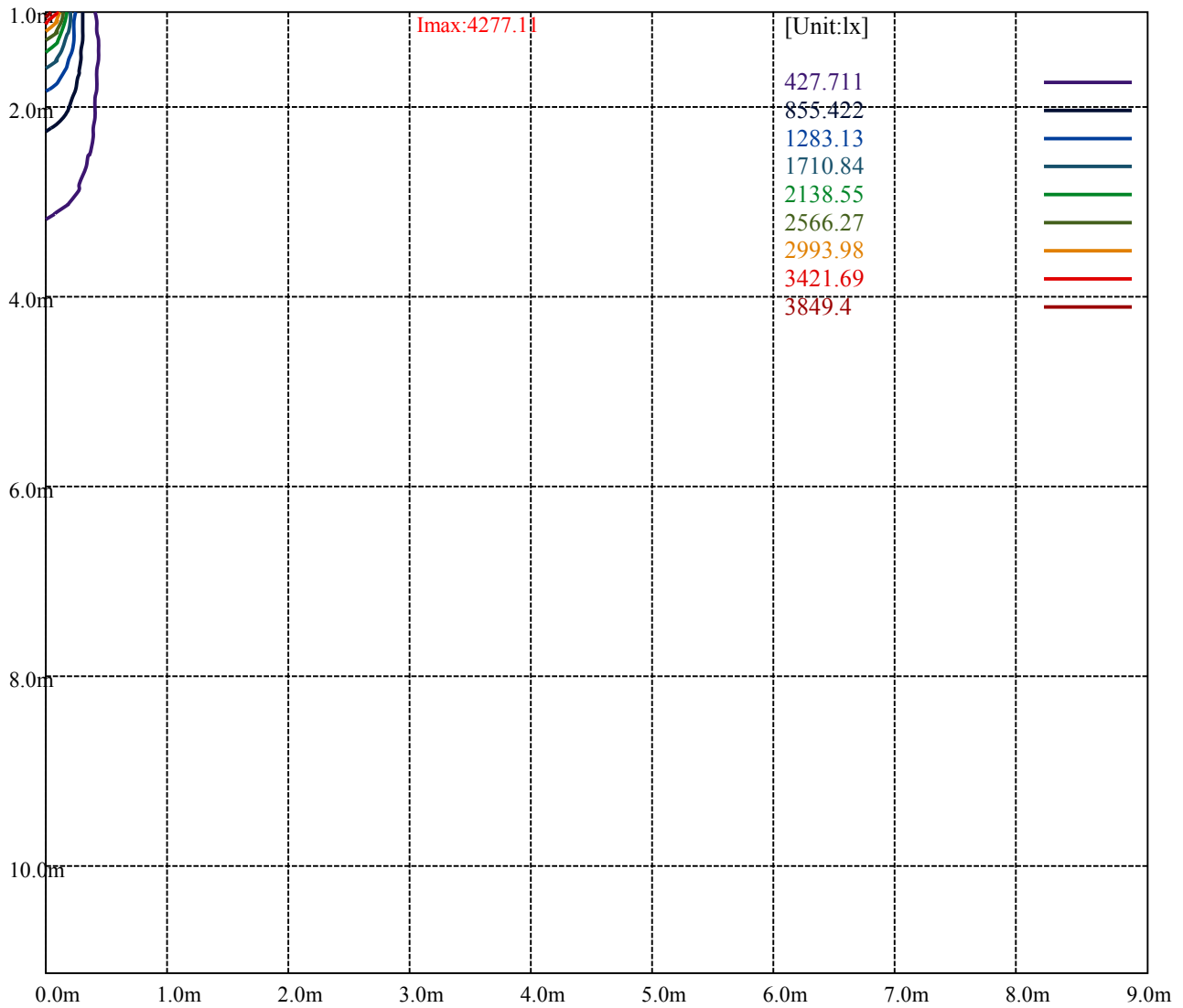
Road

Imax:4277.11

(10%Imax) 427.711	—
(20%Imax) 855.422	—
(30%Imax) 1283.13	—
(40%Imax) 1710.84	—
(50%Imax) 2138.55	—
(60%Imax) 2566.27	—
(70%Imax) 2993.98	—
(80%Imax) 3421.69	—
(90%Imax) 3849.4	—



- (10%Emax) 47.52322
- (20%Emax) 95.04655
- (30%Emax) 142.57
- (40%Emax) 190.0933
- (50%Emax) 237.6167
- (60%Emax) 285.14
- (70%Emax) 332.6633
- (80%Emax) 380.1866
- (90%Emax) 427.71



Luminance Table

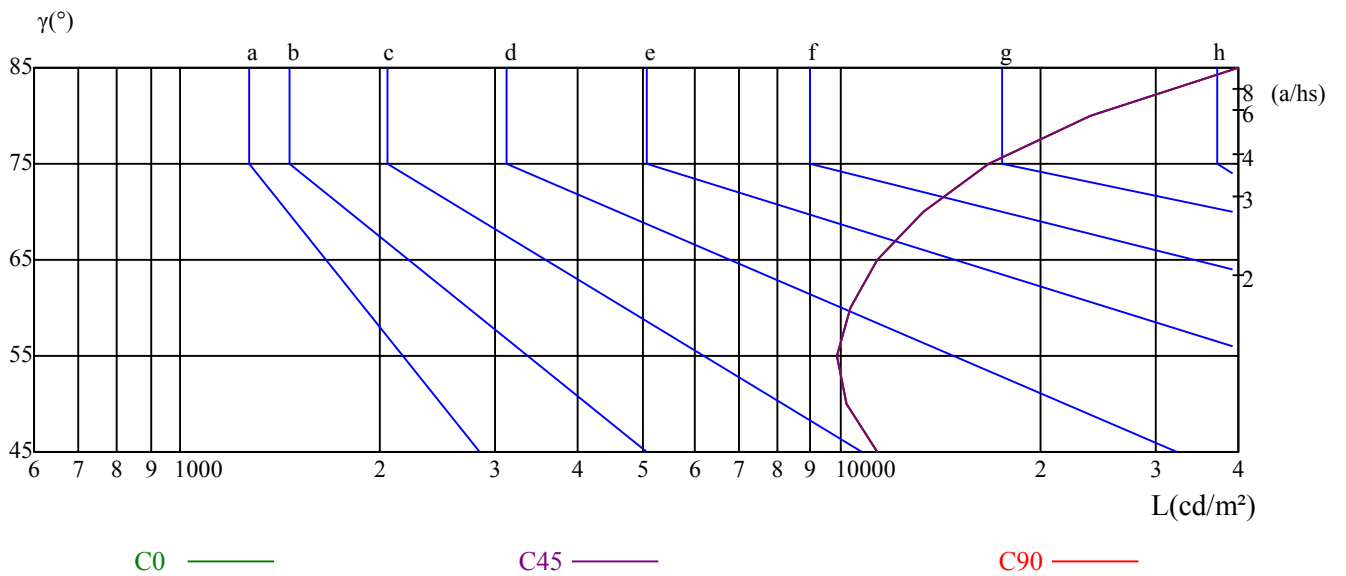
γ	45	50	55	60	65	70	75	80	85
C0	11324	10206	9857	10320	11354	13291	16744	23832	45573
C45	11324	10206	9857	10320	11354	13291	16744	23832	45573
C90	11324	10206	9857	10320	11354	13291	16744	23832	45573

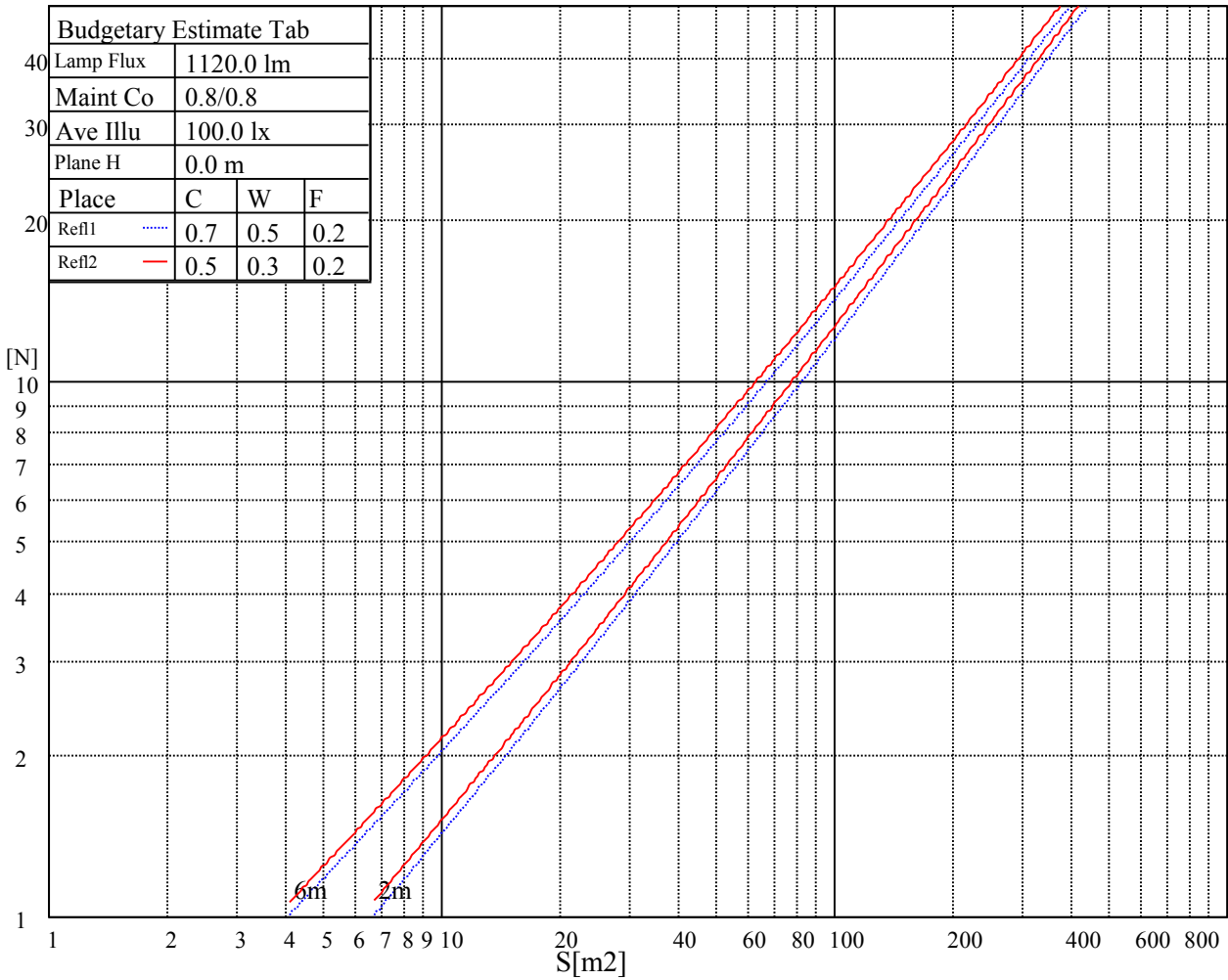
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11354	11354	11354	16744	16744	16744	45573	45573	45573

Glare Table

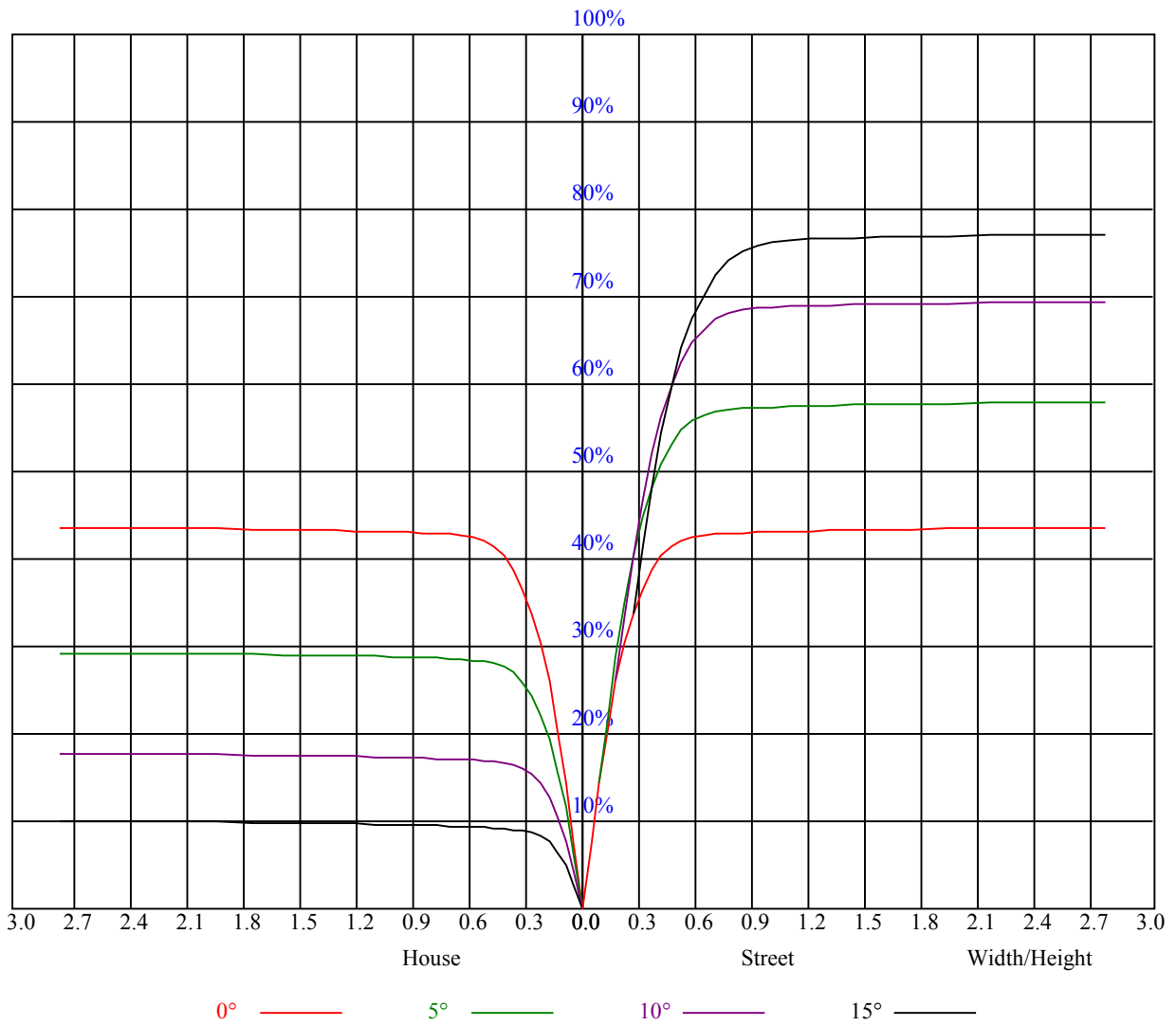
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

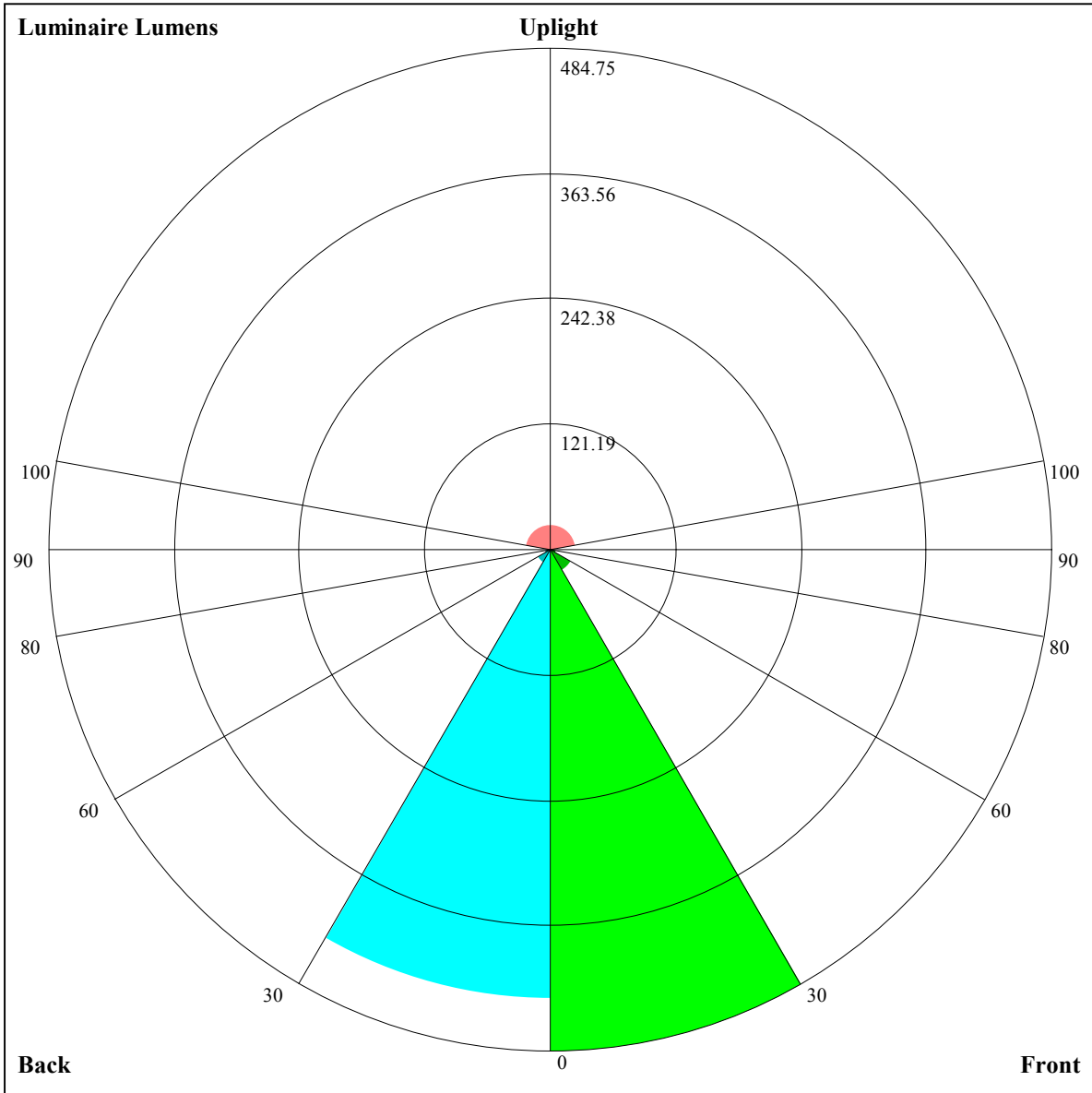
Luminance Limiting Curve





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	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	1.00	0.98	0.97	0.98	0.97	0.95	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.88	0.87	0.85
2	0.95	0.92	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.87	0.85	0.90	0.86	0.84	0.87	0.85	0.83	0.85	0.83	0.81	0.83	0.82	0.80	0.79
4	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.81	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.73
6	0.80	0.76	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.77	0.75	0.72	0.76	0.74	0.72	0.71
7	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.72	0.70	0.69
8	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.72	0.70	0.68	0.67
9	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.65
10	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.68	0.66	0.64	0.63





Luminaire Lumens:

FL=484.75,FM=23.03,FH=5.75,FVH=2.65

BL=433.86,BM=14.44,BH=5.73,BVH=2.63

UL=5.04,UH=23.99

BUG Rating:B1-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	4277.81	4057.88	2873.25	1558.69	1030.50	617.06	286.88	28.29	15.98
45.0	4239.56	4020.75	2864.25	1587.38	986.63	570.38	289.69	26.21	14.23
90.0	4275.56	3735.56	2363.06	1119.66	832.50	370.18	56.25	18.17	12.43
135.0	4315.50	3737.25	2565.56	1440.00	911.81	443.81	66.15	18.96	12.94
180.0	4277.81	3580.31	2246.06	1260.00	864.90	297.28	41.06	16.20	11.70
225.0	4239.56	3399.75	2162.25	1109.76	839.53	292.16	35.89	15.24	11.14
270.0	4275.56	3821.06	2541.38	1400.63	906.75	438.19	68.74	19.29	12.43
315.0	4315.50	3828.94	2515.50	1116.56	923.74	449.27	68.06	21.26	13.50
360.0	4277.81	4057.88	2873.25	1558.69	1030.50	617.06	286.88	28.29	15.98
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	11.53	8.94	7.37	6.47	5.96	5.68	5.34	5.18	5.06
45.0	10.46	8.55	7.26	6.47	6.02	5.63	5.34	5.06	4.84
90.0	9.51	7.99	6.98	6.41	5.91	5.63	5.29	5.06	4.78
135.0	9.73	8.10	7.03	6.47	5.96	5.63	5.40	5.12	4.84
180.0	9.17	7.82	6.86	6.30	5.91	5.57	5.34	5.12	4.89
225.0	8.66	7.31	6.47	6.08	5.68	5.46	5.23	5.01	4.84
270.0	9.45	7.71	6.69	6.19	5.79	5.51	5.29	5.01	4.78
315.0	9.96	7.88	6.75	6.19	5.79	5.46	5.23	5.01	4.89
360.0	11.53	8.94	7.37	6.47	5.96	5.68	5.34	5.18	5.06
C/ γ (°)	90.0								
0.0	4.89								
45.0	4.67								
90.0	4.50								
135.0	4.56								
180.0	4.61								
225.0	4.56								
270.0	4.50								
315.0	4.67								
360.0	4.89								