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## Nata

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Client:

LumCAT: 4-2267-M

Luminaire: 92.70.131.00

Report No:

Voltage(V): 34.0200

Test No: GC2019082601

Current(A): 0.4480

LampCAT: TRIDONIC SLE 15MM G7

Power (W): 15.2400

Lamp flux(lm): 2050.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 100

Width(mm): 100

Phm Type: C

Height(mm): 0

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## Photometric Results

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Lumens(lm): 1778.13, Efficiency(%): 86.74% , Luminous Efficacy(lm/W): 116.68

Central intensity(cd): 3827.250, Maximum intensity(cd): 3827.250

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

Beam Angle(50%Imax): [C0/180]Total=35.6

[C90/270]Total=35.6

Field angle(10%Imax): [C0/180]Total=70.6

[C90/270]Total=70.6

Maximum s/h(1/2): C0\_180=0.58 C90\_270=0.58

Maximum s/h(1/4): C0\_180=0.61 C90\_270=0.61

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 86.74%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.215%

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Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2019/8/26  
Humidity(%): 65.0%

Operator: NT07  
Distance(m): 7.50

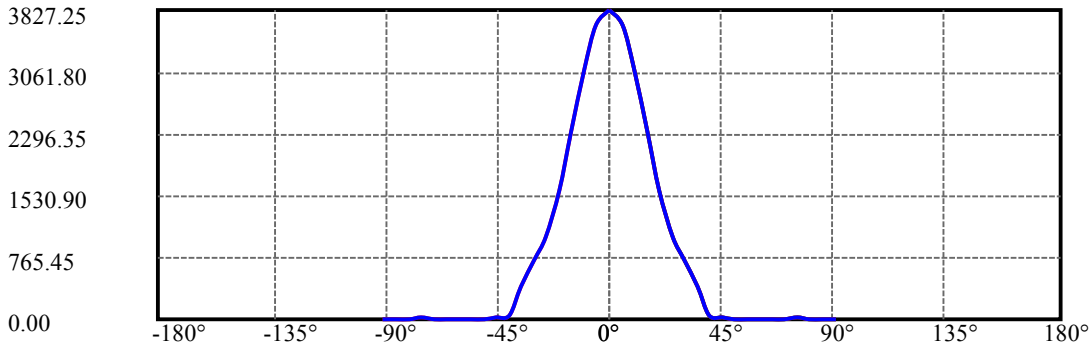
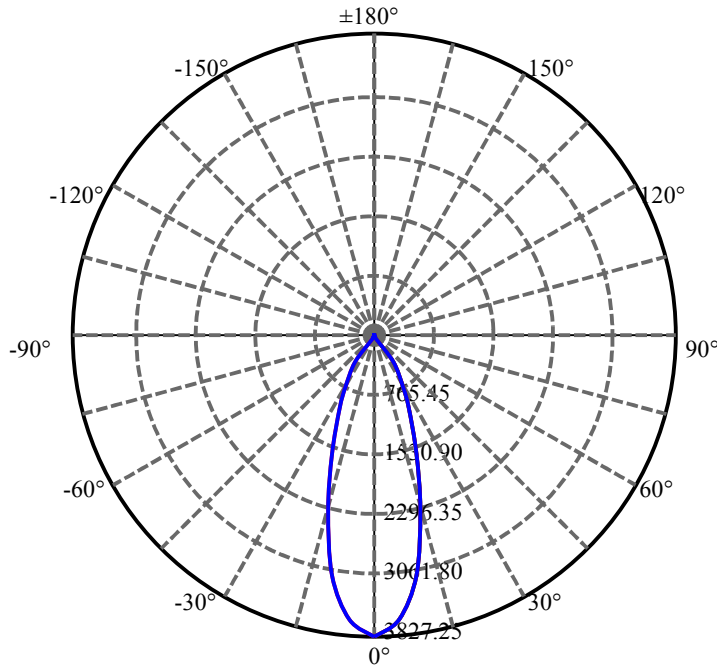
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3827.250	0.000	0	.000%	.000%
5.0	3626.578	89.108	89.108	4.347%	5.011%
10.0	3083.766	240.050	329.158	11.710%	18.511%
15.0	2306.109	319.724	648.882	15.596%	36.492%
20.0	1599.047	321.840	970.722	15.700%	54.592%
25.0	1034.058	276.164	1246.886	13.471%	70.123%
30.0	748.132	225.538	1472.424	11.002%	82.807%
35.0	406.259	169.992	1642.416	8.292%	92.368%
40.0	56.791	77.256	1719.672	3.769%	96.712%
45.0	13.444	13.005	1732.677	.634%	97.444%
50.0	10.990	4.937	1737.614	.241%	97.721%
55.0	9.654	4.489	1742.103	.219%	97.974%
60.0	8.916	4.292	1746.395	.209%	98.215%
65.0	8.606	4.260	1750.654	.208%	98.455%
70.0	8.782	4.403	1755.057	.215%	98.702%
75.0	15.117	6.247	1761.304	.305%	99.054%
80.0	11.025	6.995	1768.299	.341%	99.447%
85.0	8.501	5.306	1773.605	.259%	99.745%
90.0	8.030	4.526	1778.131	.221%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1472.42	71.83%	82.81%
0-40	1719.67	83.89%	96.71%
0-60	1746.39	85.19%	98.22%
0-90	1773.60	86.52%	99.75%
0-120	1773.60	86.52%	99.75%
0-180	1778.13	86.74%	100.00%
60-90	31.50	1.54%	1.77%
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%
0-28.89	1422.51	69.39%	80.00%

ZONAL LUMEN SUMMARY

0-10	329.16
10-20	641.56
20-30	501.70
30-40	247.25
40-50	17.94
50-60	8.78
60-70	8.66
70-80	13.24
80-90	5.31
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: ———

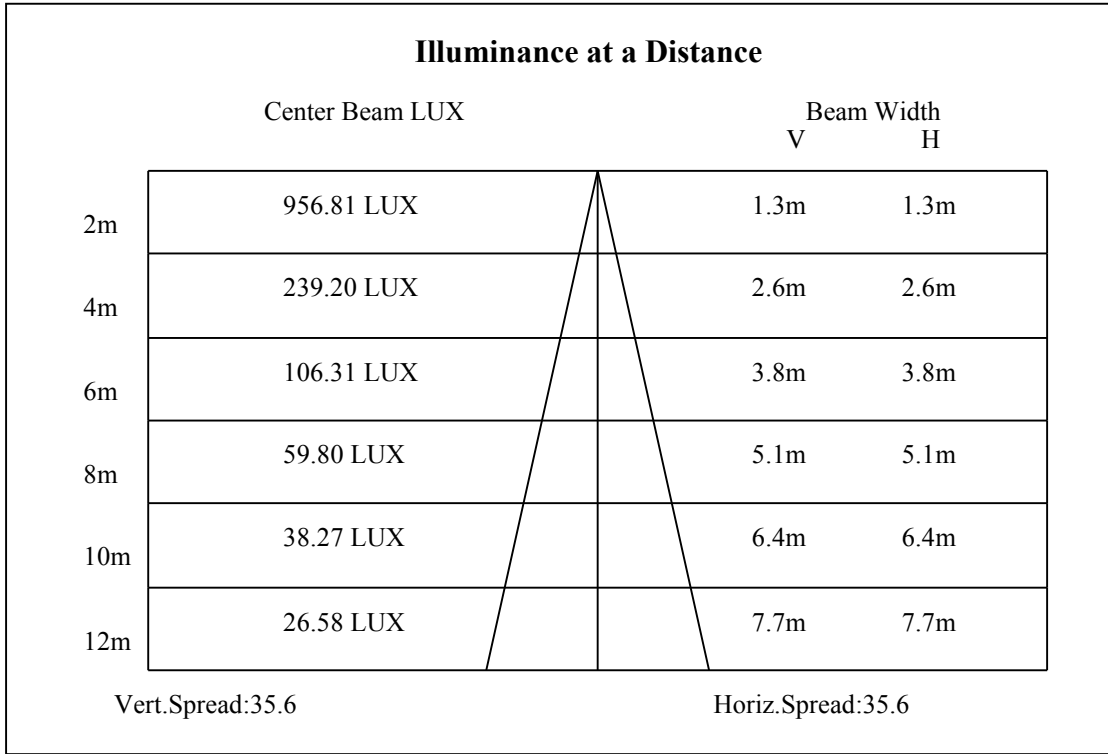
C90/C270: ———

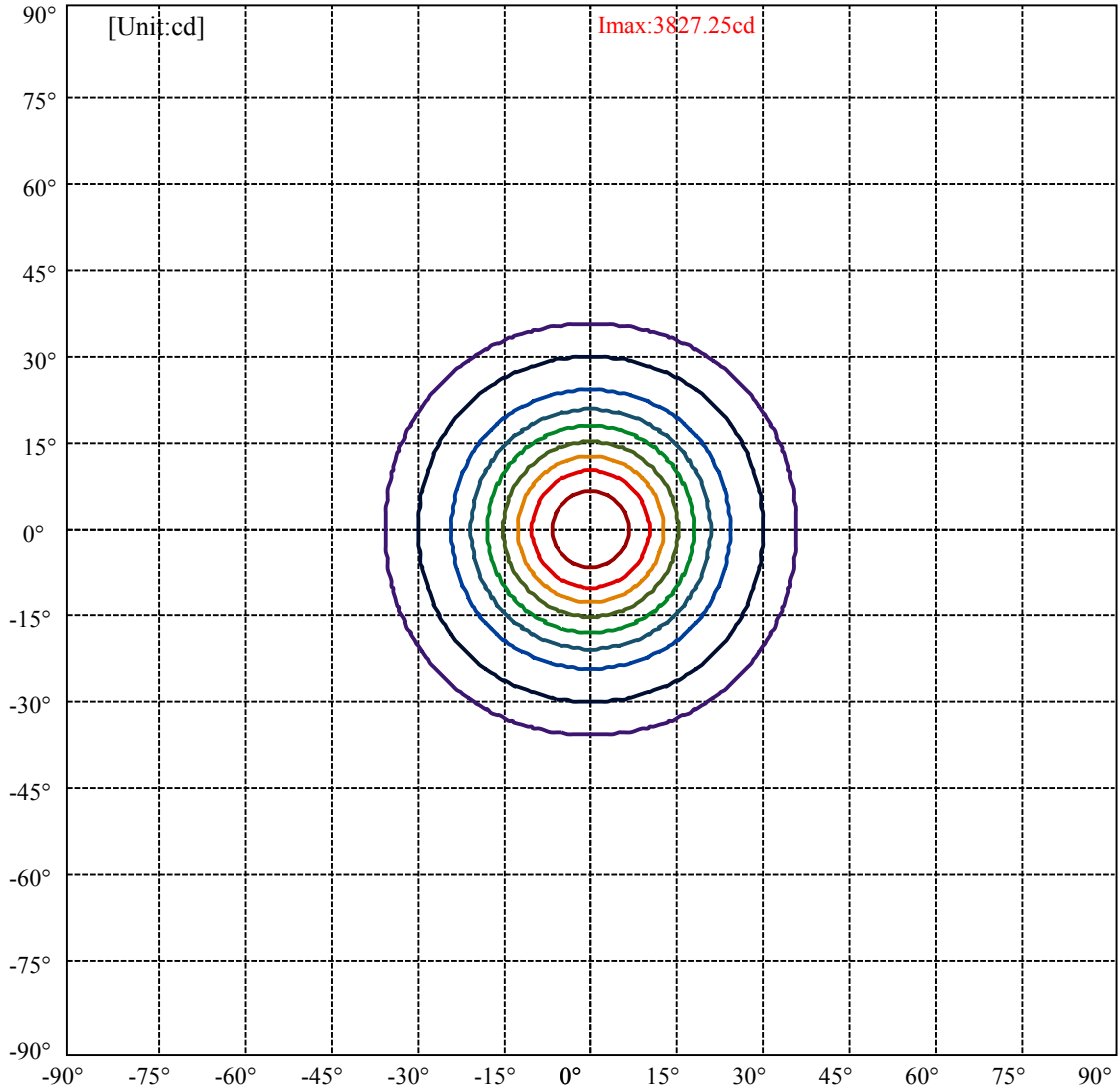
Field angle(10%Imax):C0/180Left:35.3 Right:35.3

:C90/270Left:35.3 Right:35.3

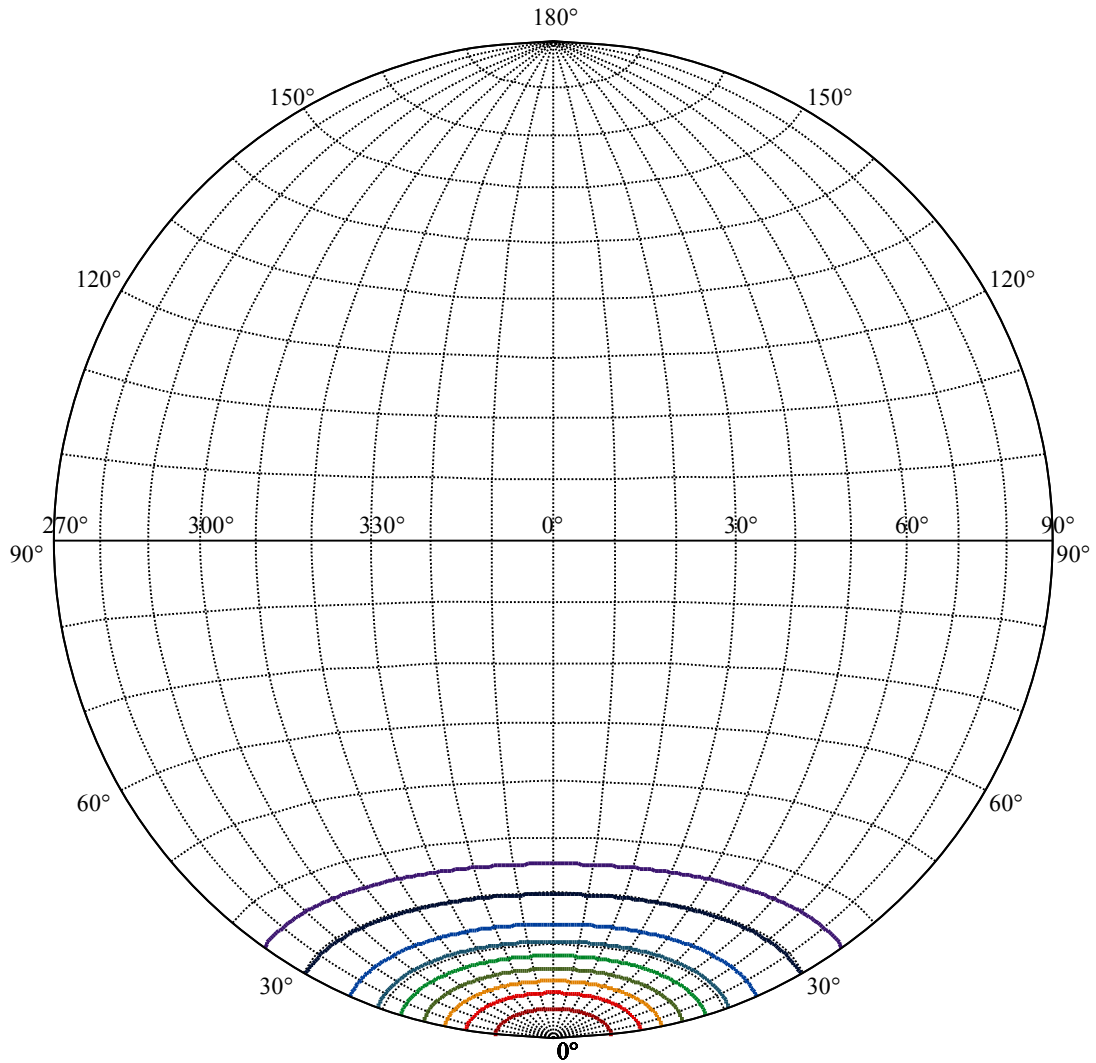
Beam Angle(50%Imax):C0/180Left:17.8 Right:17.8

:C90/270Left:17.8 Right:17.8





(10%Imax) 382.725	—
(20%Imax) 765.45	—
(30%Imax) 1148.18	—
(40%Imax) 1530.9	—
(50%Imax) 1913.63	—
(60%Imax) 2296.35	—
(70%Imax) 2679.07	—
(80%Imax) 3061.8	—
(90%Imax) 3444.52	—



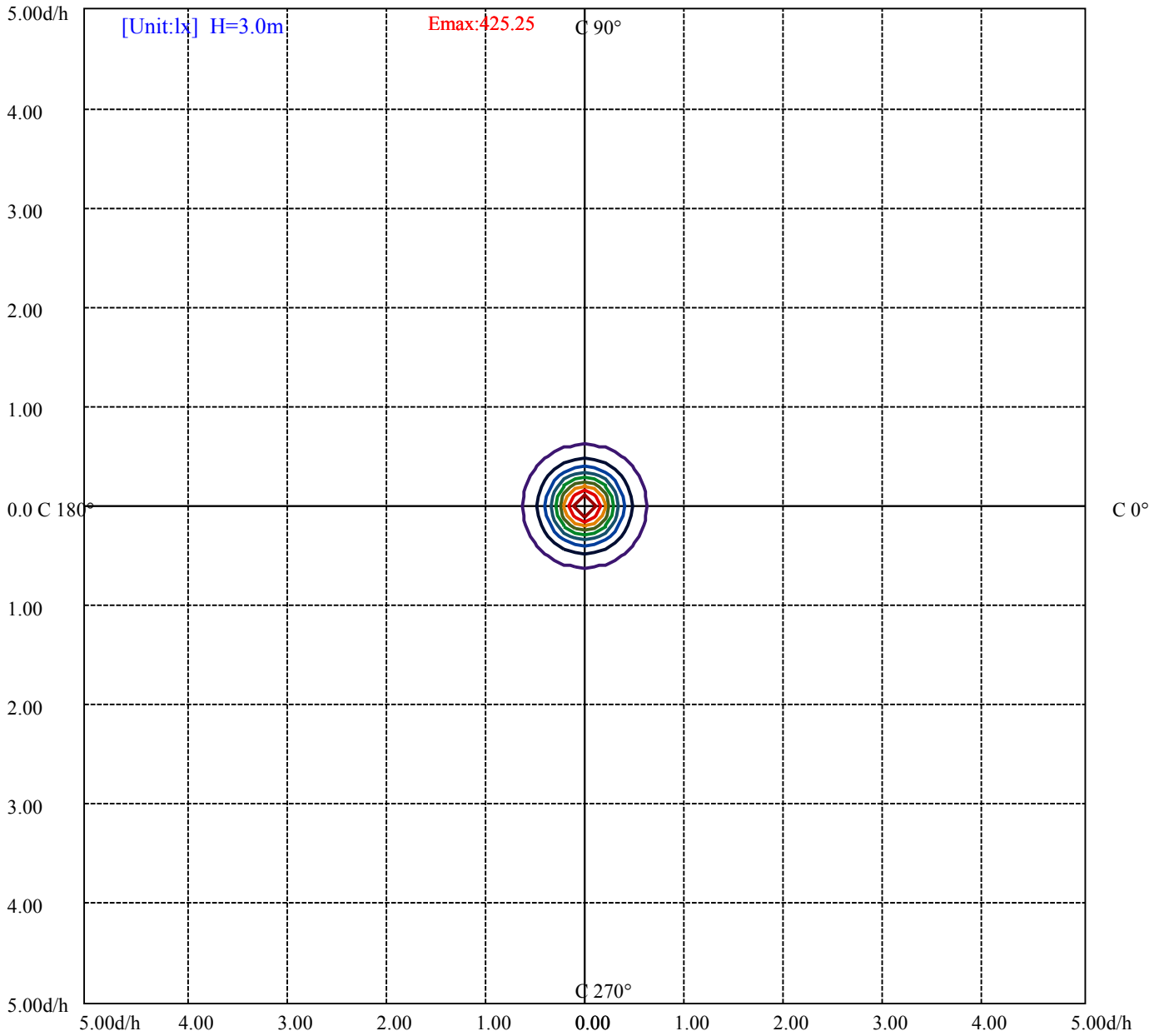
House

[Unit:cd]

Road

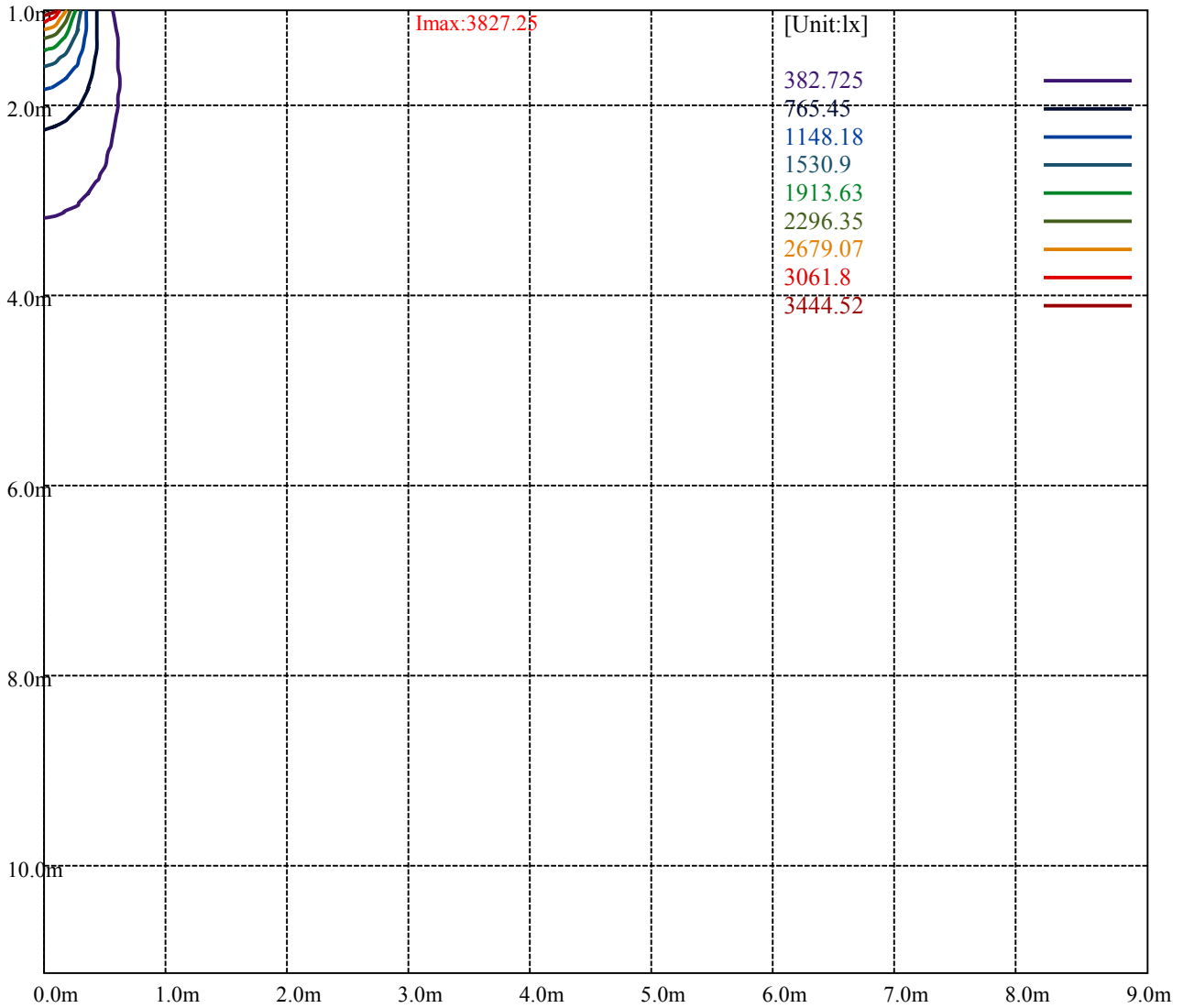
**Imax:3827.25**

(10%Imax) 382.725	—
(20%Imax) 765.45	—
(30%Imax) 1148.18	—
(40%Imax) 1530.9	—
(50%Imax) 1913.63	—
(60%Imax) 2296.35	—
(70%Imax) 2679.07	—
(80%Imax) 3061.8	—
(90%Imax) 3444.52	—



- (10%Emax) 42.52489
- (20%Emax) 85.04989
- (30%Emax) 127.5744
- (40%Emax) 170.1
- (50%Emax) 212.6245
- (60%Emax) 255.15
- (70%Emax) 297.6744
- (80%Emax) 340.2
- (90%Emax) 382.7245





Luminance Table

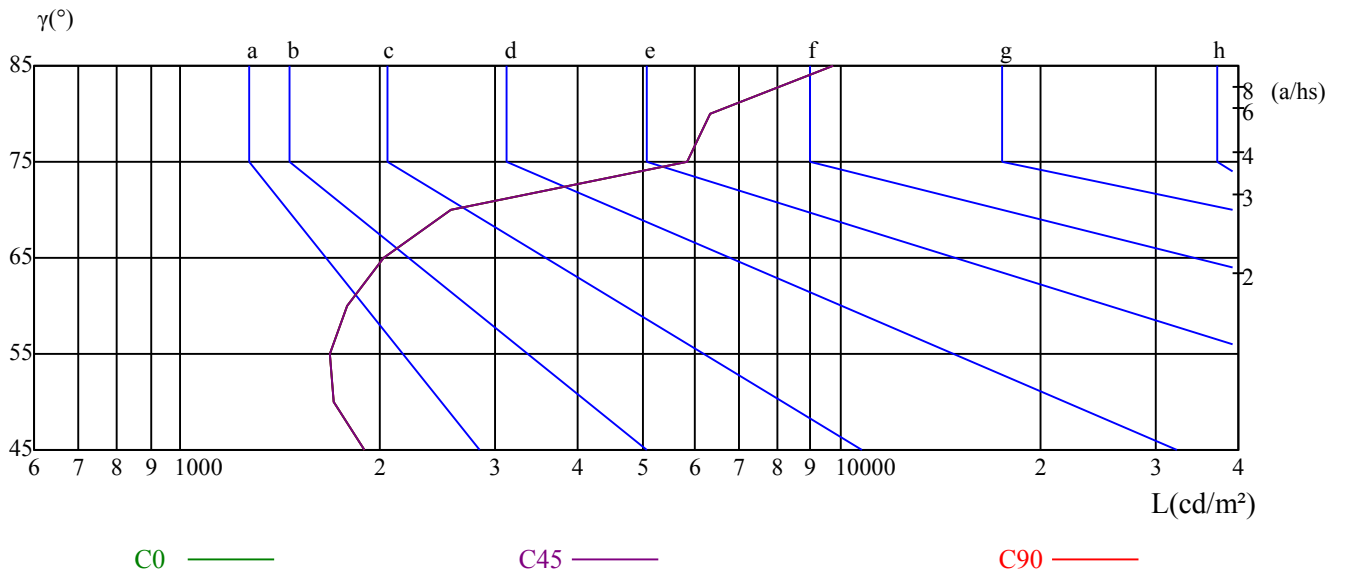
$\gamma$	45	50	55	60	65	70	75	80	85
C0	1901	1710	1683	1783	2036	2568	5841	6349	9754
C45	1901	1710	1683	1783	2036	2568	5841	6349	9754
C90	1901	1710	1683	1783	2036	2568	5841	6349	9754

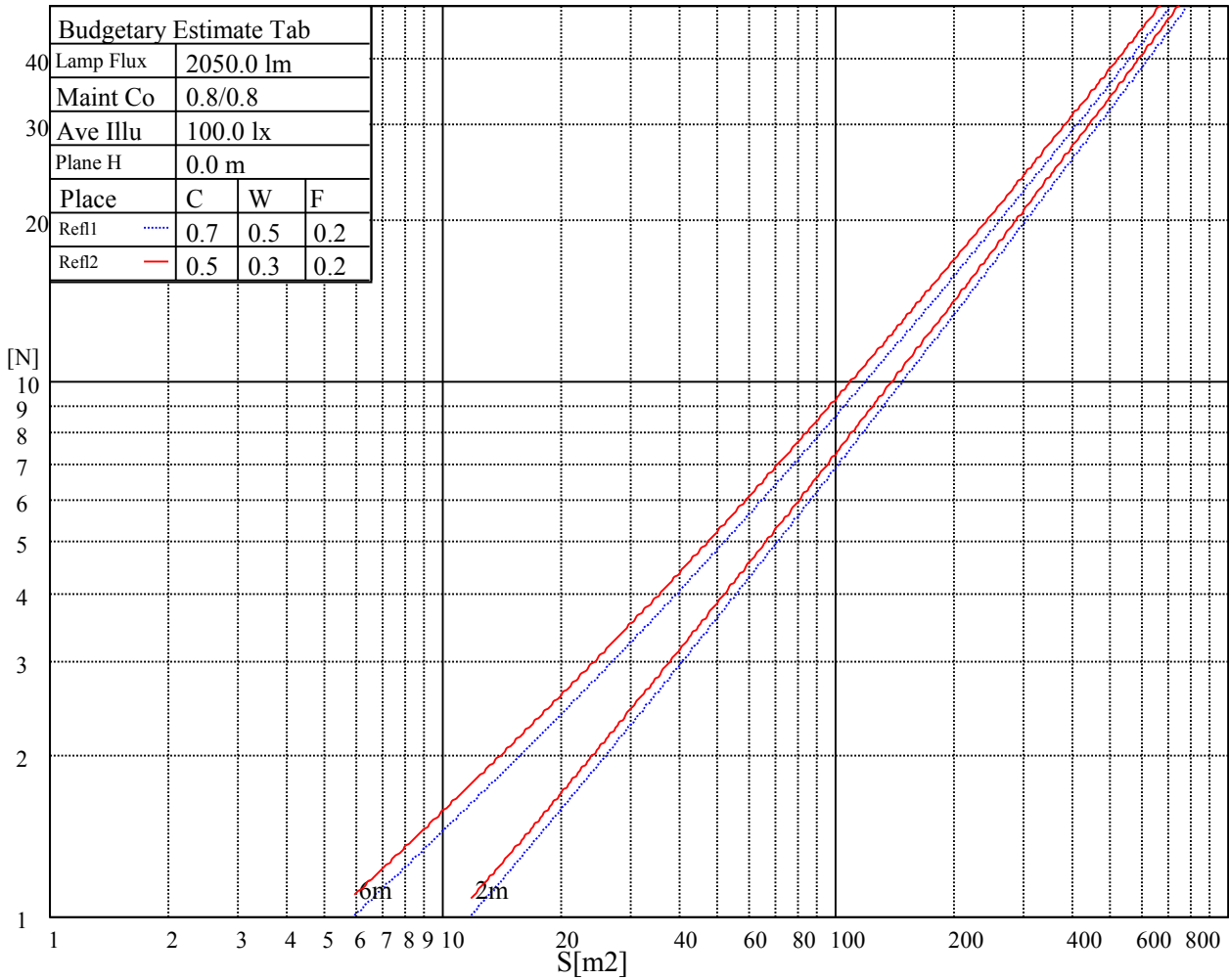
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2036	2036	2036	5841	5841	5841	9754	9754	9754

Glare Table

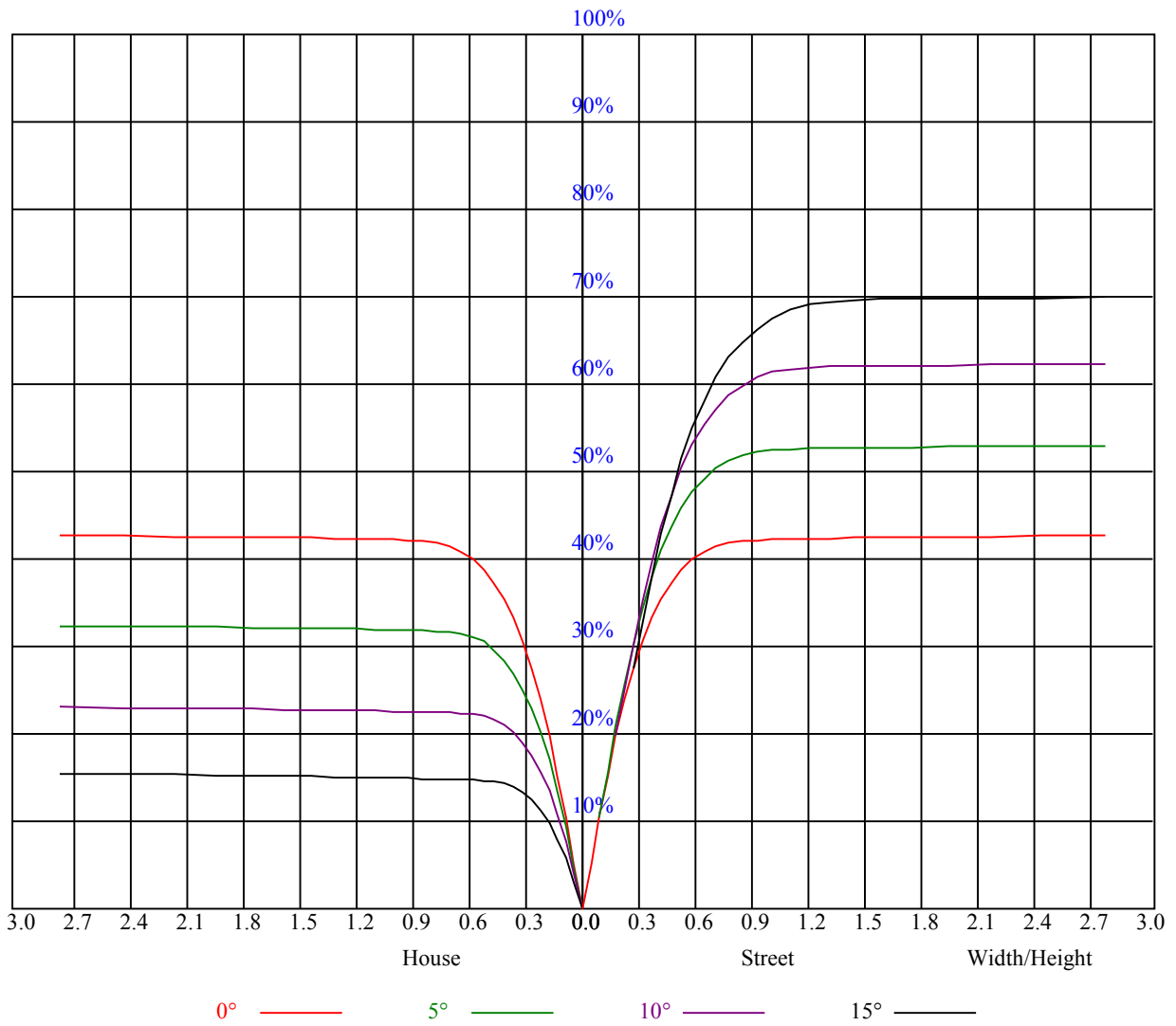
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

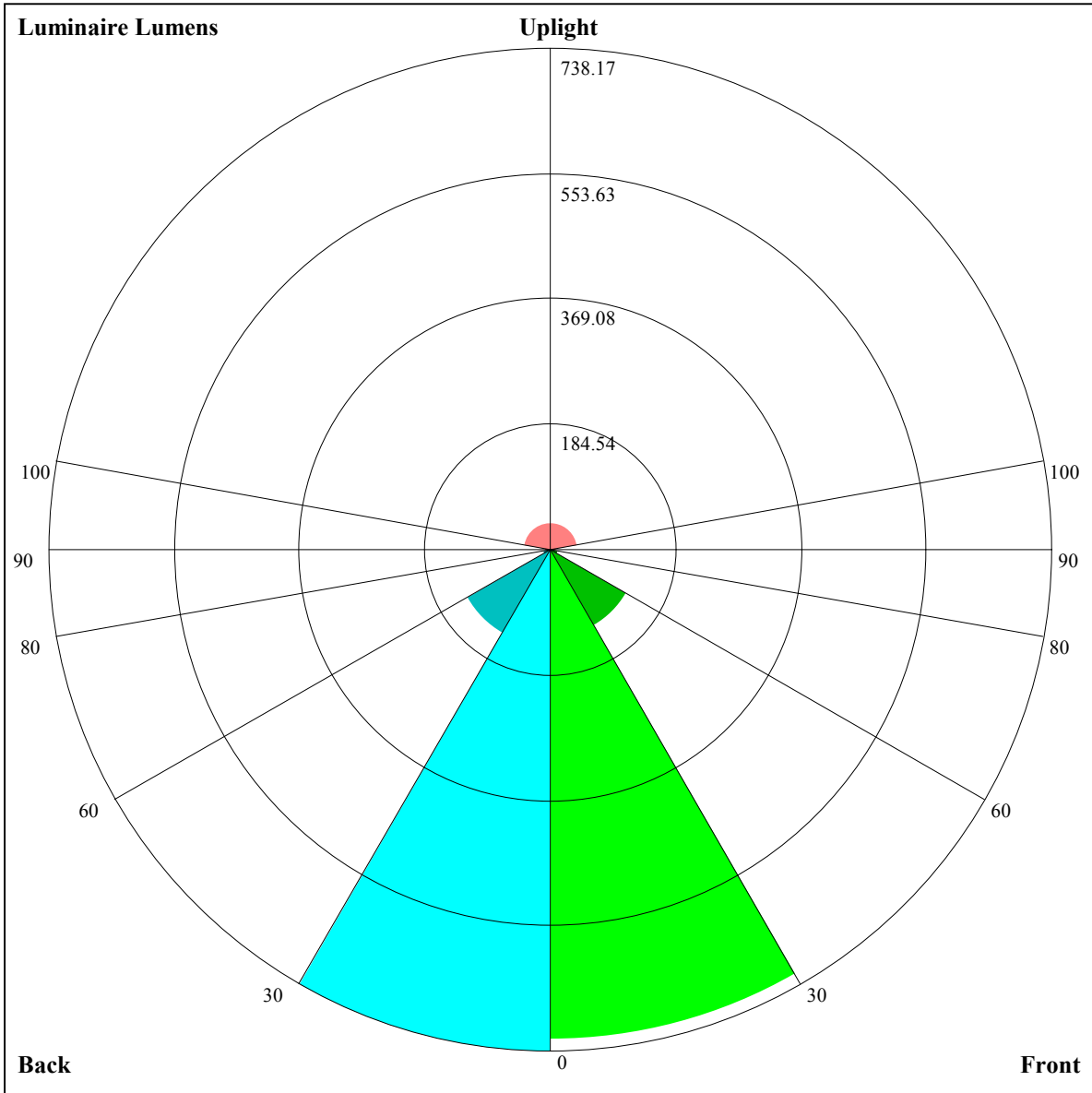
Luminance Limiting Curve





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	1.03	1.03	1.03	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.89	0.89	0.89	0.87
1	0.96	0.94	0.93	0.95	0.93	0.91	0.91	0.90	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.82
2	0.91	0.87	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.80	0.81	0.80	0.78	0.77
3	0.85	0.81	0.78	0.84	0.81	0.78	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.73
4	0.81	0.76	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.73	0.71	0.75	0.72	0.70	0.69
5	0.77	0.72	0.69	0.76	0.72	0.68	0.74	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
6	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
7	0.69	0.65	0.62	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.59
8	0.66	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.57
9	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.54
10	0.61	0.56	0.53	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.52





Luminaire Lumens:

FL=720.32,FM=129.39,FH=10.92,FVH=4.75

BL=738.17,BM=141.05,BH=11.02,BVH=5.06

UL=8.76,UH=41.69

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	3826.13	3614.06	3062.81	2270.25	1589.63	1033.31	747.56	378.56	36.56
45.0	3829.50	3666.38	3124.13	2345.63	1636.88	1047.94	759.94	425.25	50.29
90.0	3831.75	3598.31	3045.38	2273.06	1543.50	1010.31	728.21	379.29	37.86
135.0	3821.63	3689.44	3247.31	2474.44	1721.25	1123.88	789.19	477.56	176.01
180.0	3826.13	3652.88	3108.94	2362.50	1635.19	1044.11	758.48	428.63	48.49
225.0	3829.50	3588.75	3035.25	2251.69	1592.44	1020.21	731.87	397.63	32.12
270.0	3831.75	3650.63	3135.94	2338.88	1626.19	1045.13	767.81	439.88	46.01
315.0	3821.63	3552.19	2910.38	2132.44	1447.31	947.59	702.00	323.27	27.00
360.0	3826.13	3614.06	3062.81	2270.25	1589.63	1033.31	747.56	378.56	36.56
C/ $\gamma$ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	13.44	10.86	9.51	8.66	8.33	8.44	13.73	8.83	8.38
45.0	13.22	10.80	9.51	8.78	8.49	8.49	15.47	8.77	8.33
90.0	12.77	10.69	9.45	8.72	8.33	8.33	12.09	9.45	8.33
135.0	13.78	11.03	9.79	9.17	8.66	8.44	12.04	13.39	8.33
180.0	13.22	11.14	9.79	9.17	8.94	8.72	14.51	13.84	8.44
225.0	13.56	10.91	9.62	8.83	8.61	8.78	16.14	11.87	8.83
270.0	14.18	11.42	9.90	9.06	8.83	9.17	19.41	11.70	8.72
315.0	13.39	11.08	9.68	8.94	8.66	9.90	17.55	10.35	8.66
360.0	13.44	10.86	9.51	8.66	8.33	8.44	13.73	8.83	8.38
C/ $\gamma$ (°)	90.0								
0.0	7.99								
45.0	8.04								
90.0	8.04								
135.0	8.04								
180.0	8.04								
225.0	8.04								
270.0	8.04								
315.0	7.99								
360.0	7.99								