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Nata

Client:

LumCAT: 2-1795-N

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): 69

Width(mm): 69

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1651.47, Efficiency(%): 80.56% , Luminous Efficacy(lm/W): 108.36

Central intensity(cd): 3139.172, Maximum intensity(cd): 3139.172

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=41.8

[C90/270]Total=41.8

Field angle(10%Imax): [C0/180]Total=66.2

[C90/270]Total=66.2

Maximum s/h(1/2): C0_180=0.68 C90_270=0.68

Maximum s/h(1/4): C0_180=0.66 C90_270=0.66

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 80.56%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.270%

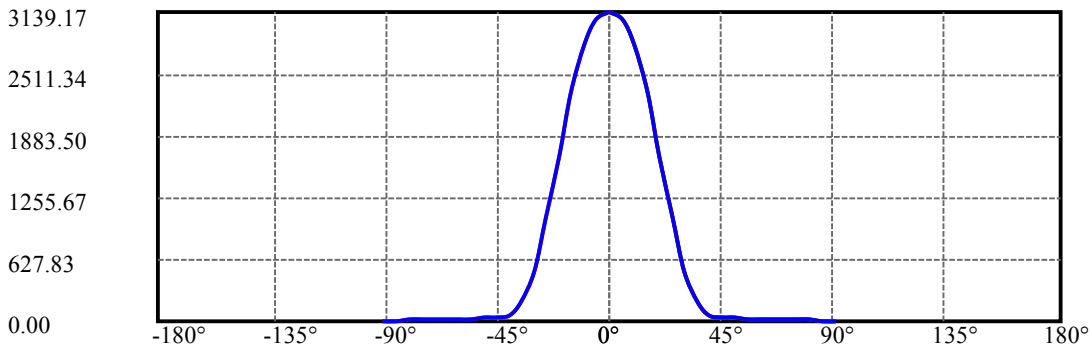
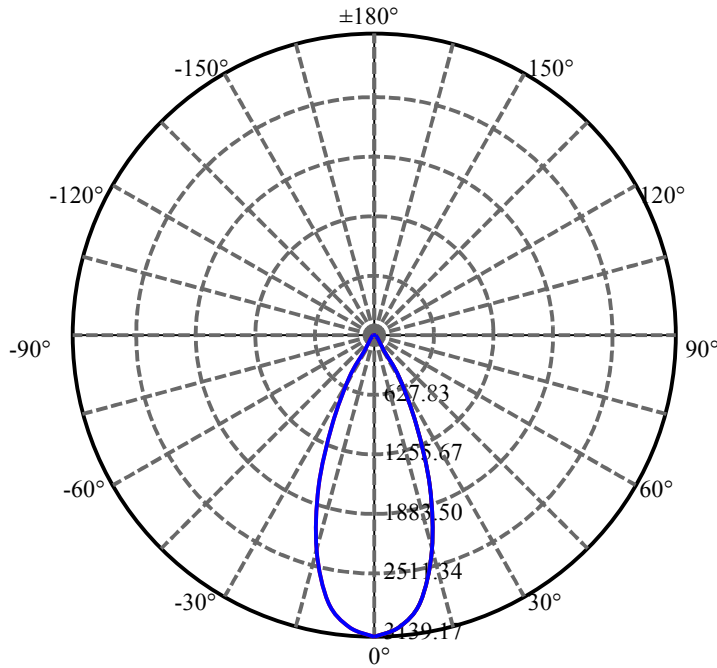
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3139.172	0.000	0	.000%	.000%
5.0	3059.367	74.102	74.102	3.615%	4.487%
10.0	2815.805	210.173	284.275	10.252%	17.213%
15.0	2327.484	305.096	589.372	14.883%	35.688%
20.0	1686.516	330.810	920.182	16.137%	55.719%
25.0	1046.545	286.648	1206.829	13.983%	73.076%
30.0	516.382	197.790	1404.619	9.648%	85.053%
35.0	188.796	103.842	1508.461	5.065%	91.341%
40.0	60.982	41.674	1550.135	2.033%	93.864%
45.0	39.038	18.519	1568.654	.903%	94.985%
50.0	30.916	14.135	1582.79	.690%	95.841%
55.0	25.917	12.358	1595.147	.603%	96.590%
60.0	22.704	11.239	1606.386	.548%	97.270%
65.0	19.638	10.293	1616.679	.502%	97.893%
70.0	16.812	9.229	1625.909	.450%	98.452%
75.0	14.231	8.114	1634.023	.396%	98.944%
80.0	11.791	6.963	1640.986	.340%	99.365%
85.0	9.366	5.749	1646.735	.280%	99.713%
90.0	7.924	4.734	1651.469	.231%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1404.62	68.52%	85.05%
0-40	1550.13	75.62%	93.86%
0-60	1606.39	78.36%	97.27%
0-90	1646.73	80.33%	99.71%
0-120	1646.73	80.33%	99.71%
0-180	1651.47	80.56%	100.00%
60-90	51.59	2.52%	3.12%
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%
0-27.89	1321.18	64.45%	80.00%

ZONAL LUMEN SUMMARY

0-10	284.28
10-20	635.91
20-30	484.44
30-40	145.52
40-50	32.65
50-60	23.60
60-70	19.52
70-80	15.08
80-90	5.75
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: —————

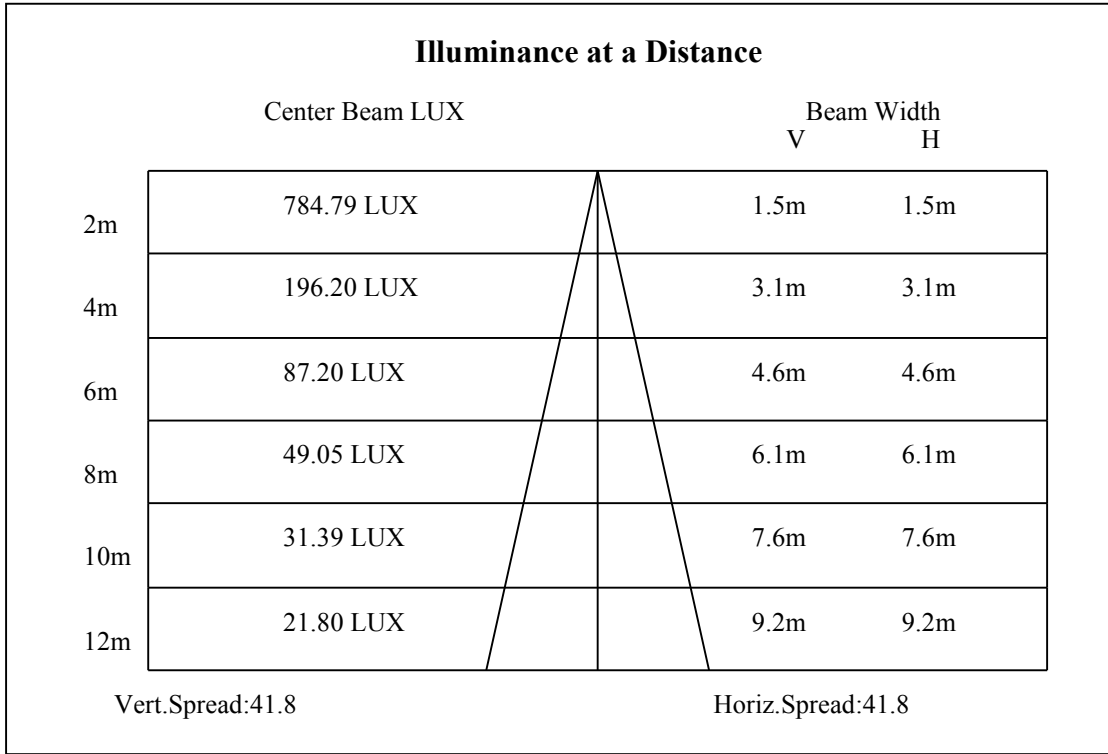
C90/C270: —————

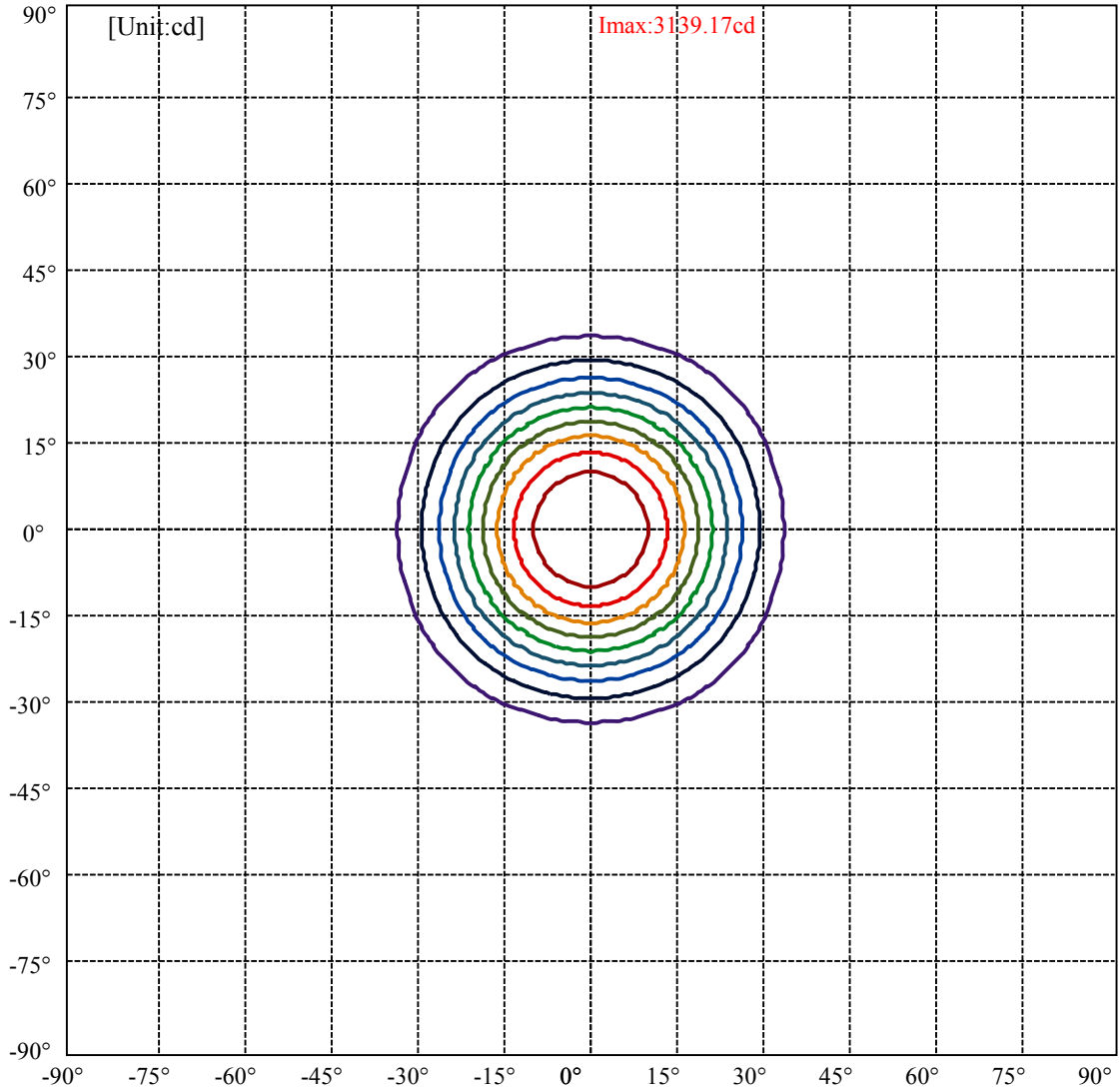
Field angle(10%Imax):C0/180Left:33.1 Right:33.1

:C90/270Left:33.1 Right:33.1

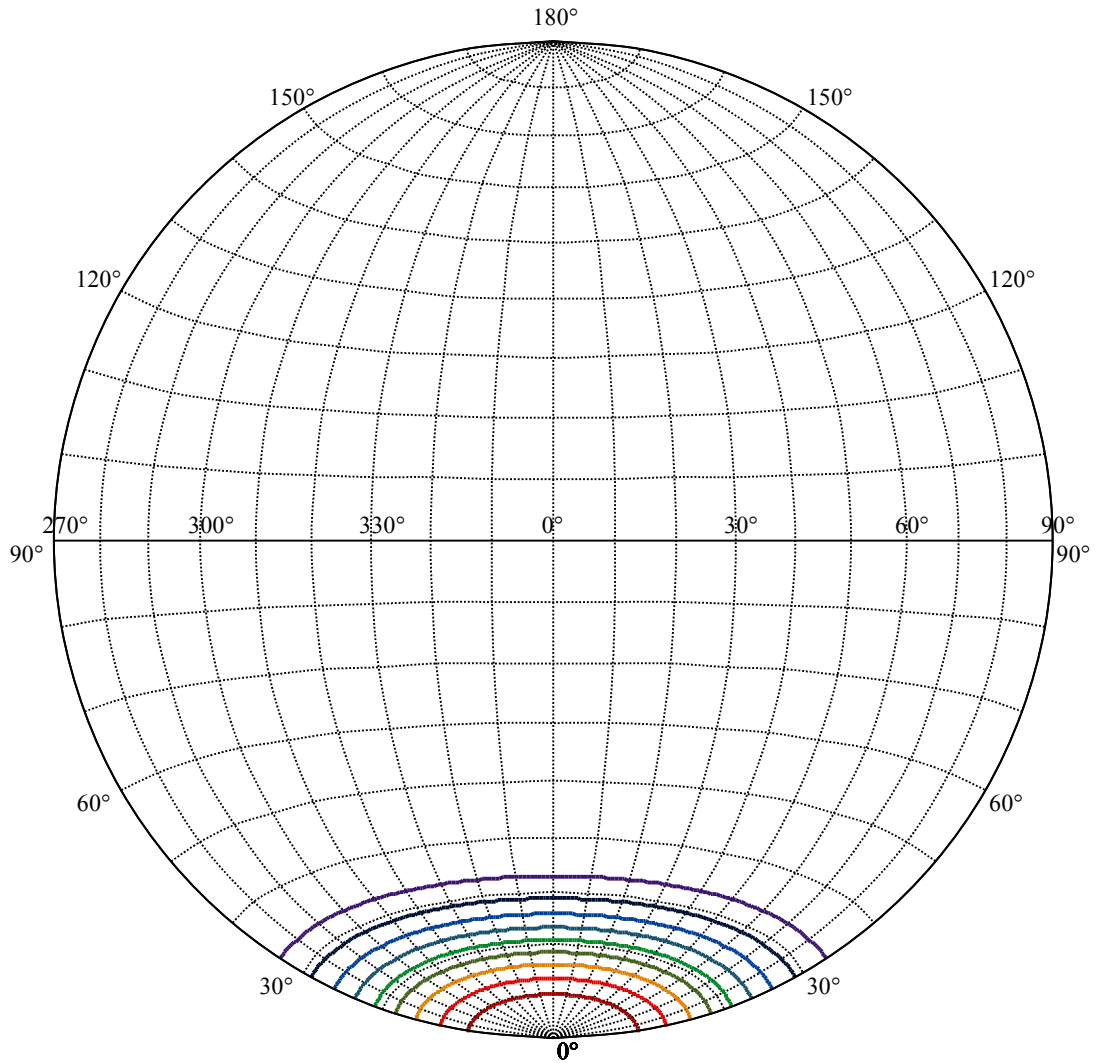
Beam Angle(50%Imax):C0/180Left:20.9 Right:20.9

:C90/270Left:20.9 Right:20.9





(10%Imax) 313.917	—
(20%Imax) 627.834	—
(30%Imax) 941.752	—
(40%Imax) 1255.67	—
(50%Imax) 1569.59	—
(60%Imax) 1883.5	—
(70%Imax) 2197.42	—
(80%Imax) 2511.34	—
(90%Imax) 2825.25	—



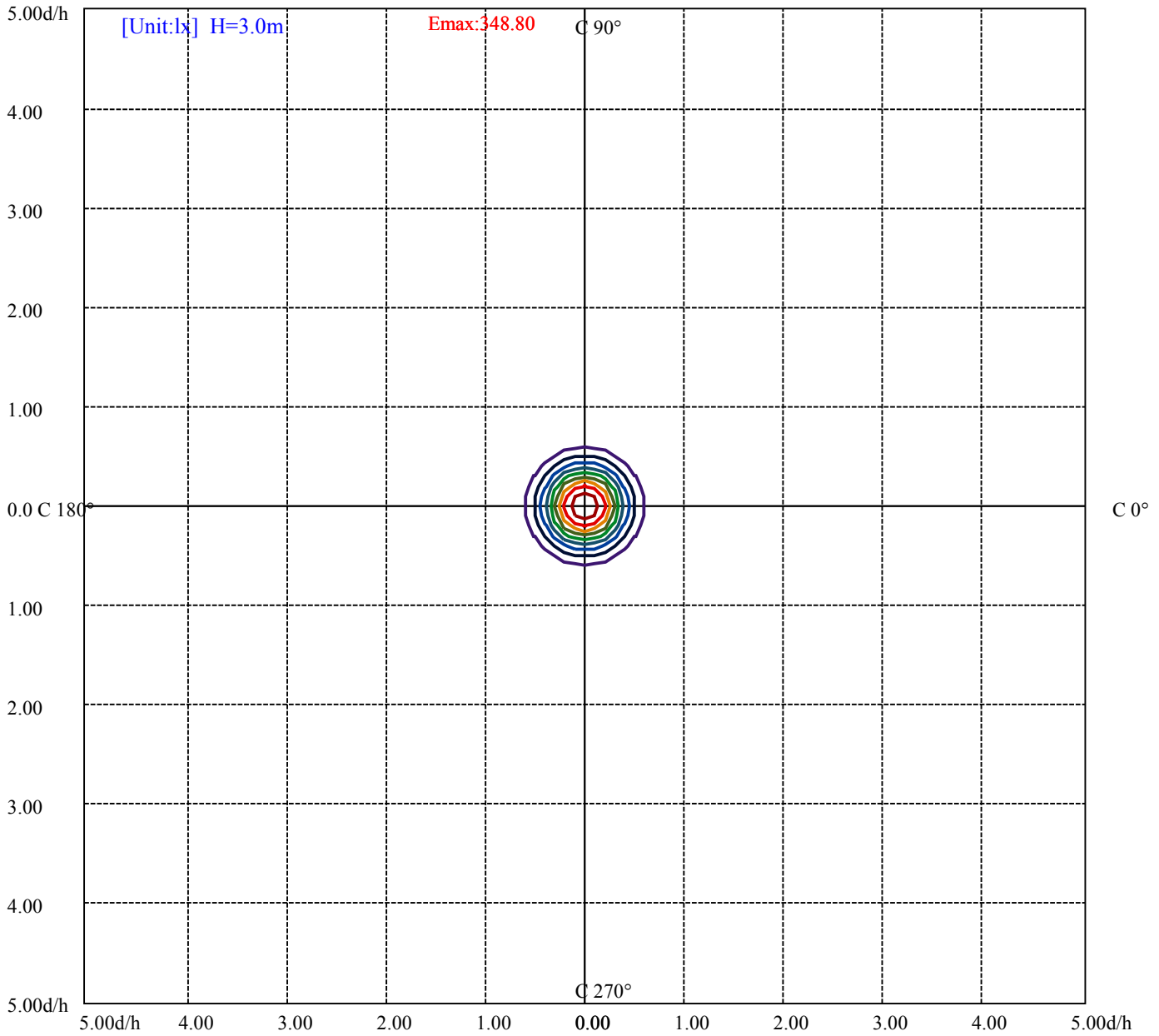
House

[Unit:cd]

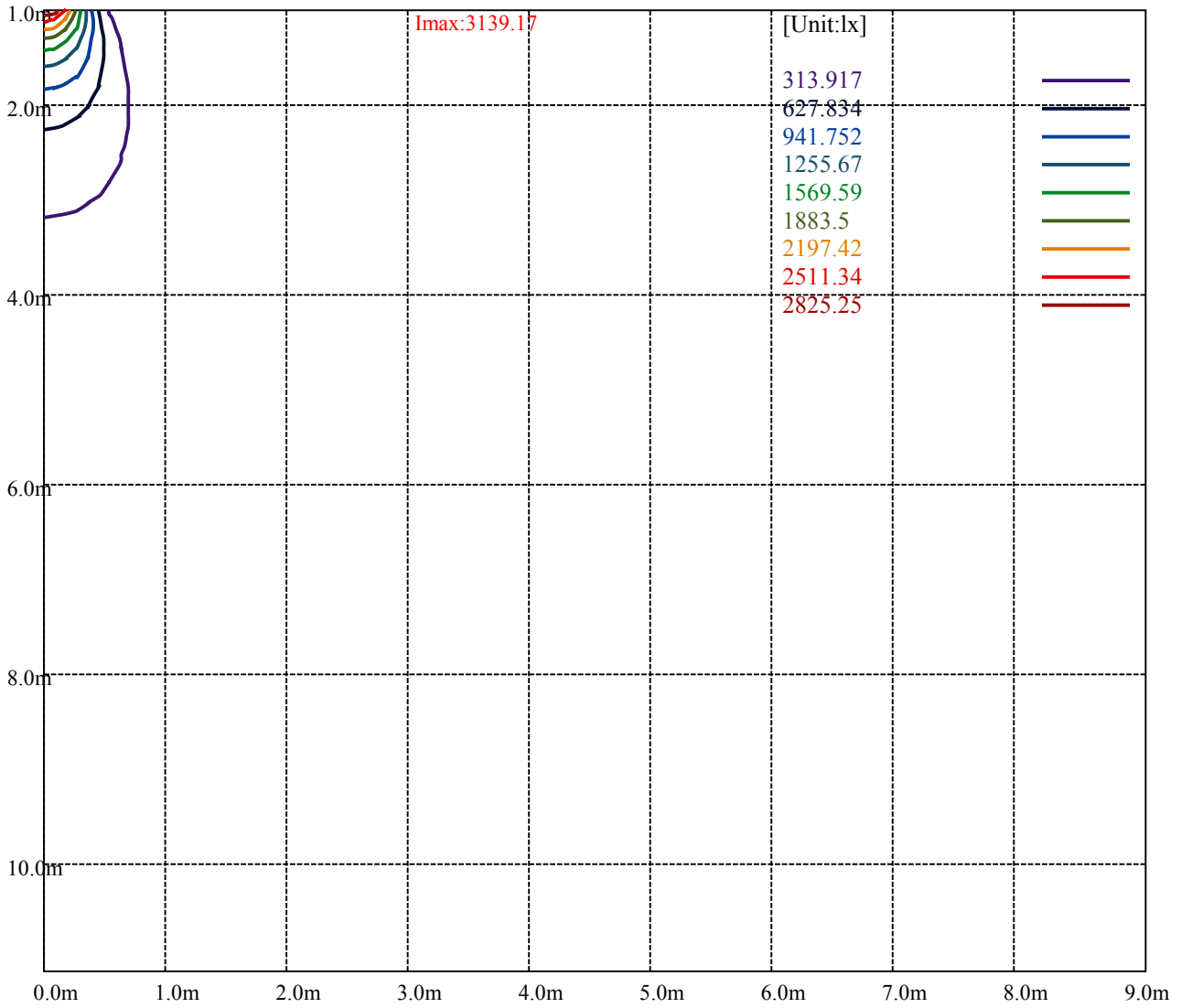
Road

Imax:3139.17

(10%Imax) 313.917	—
(20%Imax) 627.834	—
(30%Imax) 941.752	—
(40%Imax) 1255.67	—
(50%Imax) 1569.59	—
(60%Imax) 1883.5	—
(70%Imax) 2197.42	—
(80%Imax) 2511.34	—
(90%Imax) 2825.25	—



(10%Emax) 34.87967	—
(20%Emax) 69.75933	—
(30%Emax) 104.639	—
(40%Emax) 139.5189	—
(50%Emax) 174.3978	—
(60%Emax) 209.2778	—
(70%Emax) 244.1578	—
(80%Emax) 279.0378	—
(90%Emax) 313.9167	—



Luminance Table

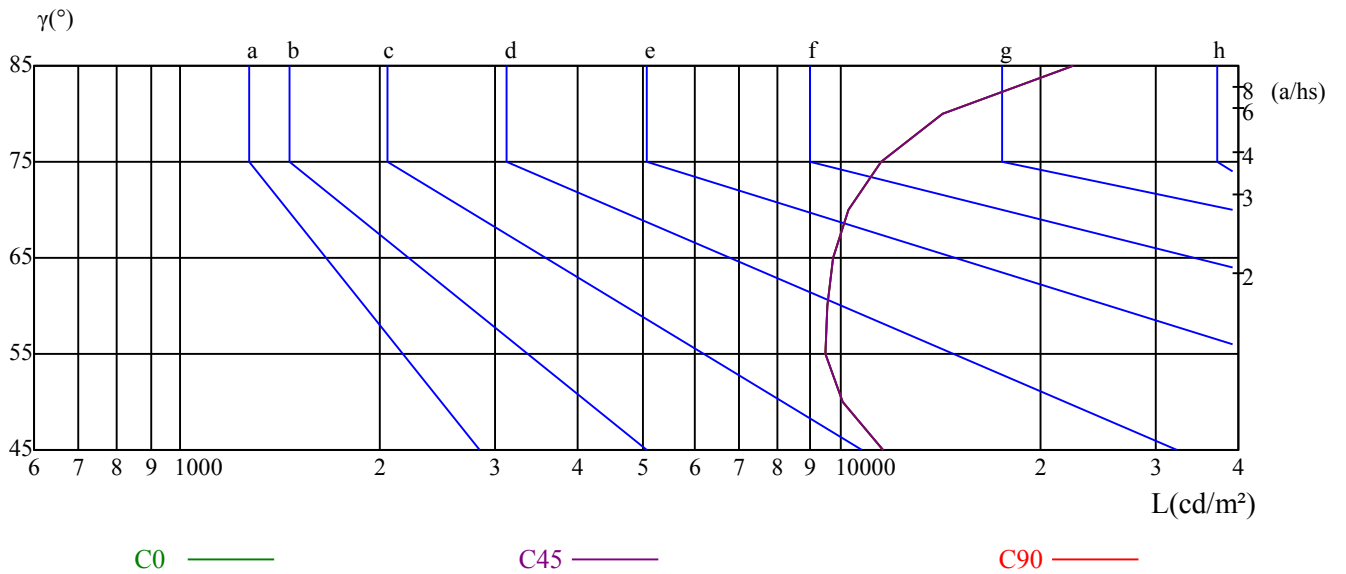
γ	45	50	55	60	65	70	75	80	85
C0	11562	10073	9463	9510	9732	10294	11516	14221	22505
C45	11562	10073	9463	9510	9732	10294	11516	14221	22505
C90	11562	10073	9463	9510	9732	10294	11516	14221	22505

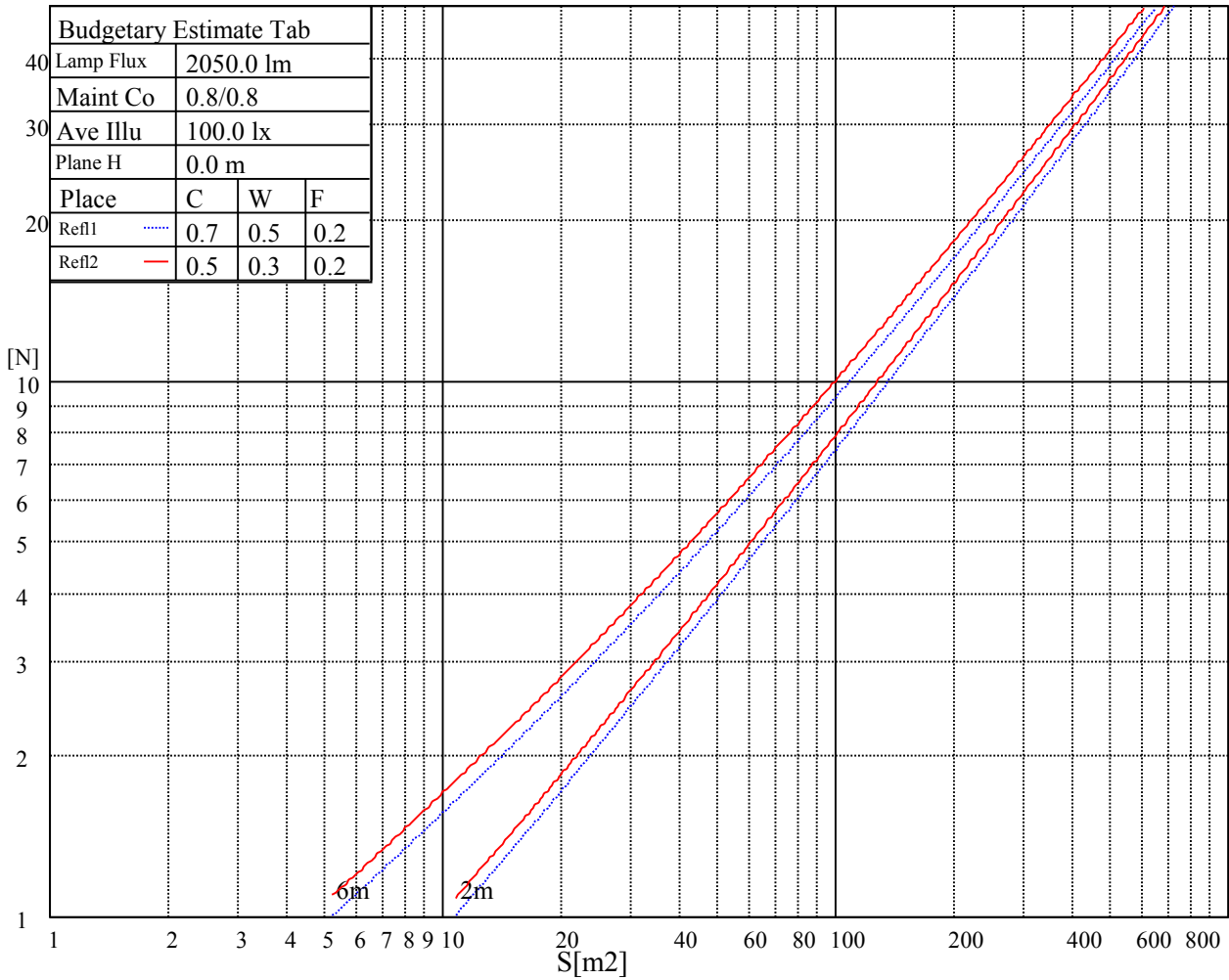
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9732	9732	9732	11516	11516	11516	22505	22505	22505

Glare Table

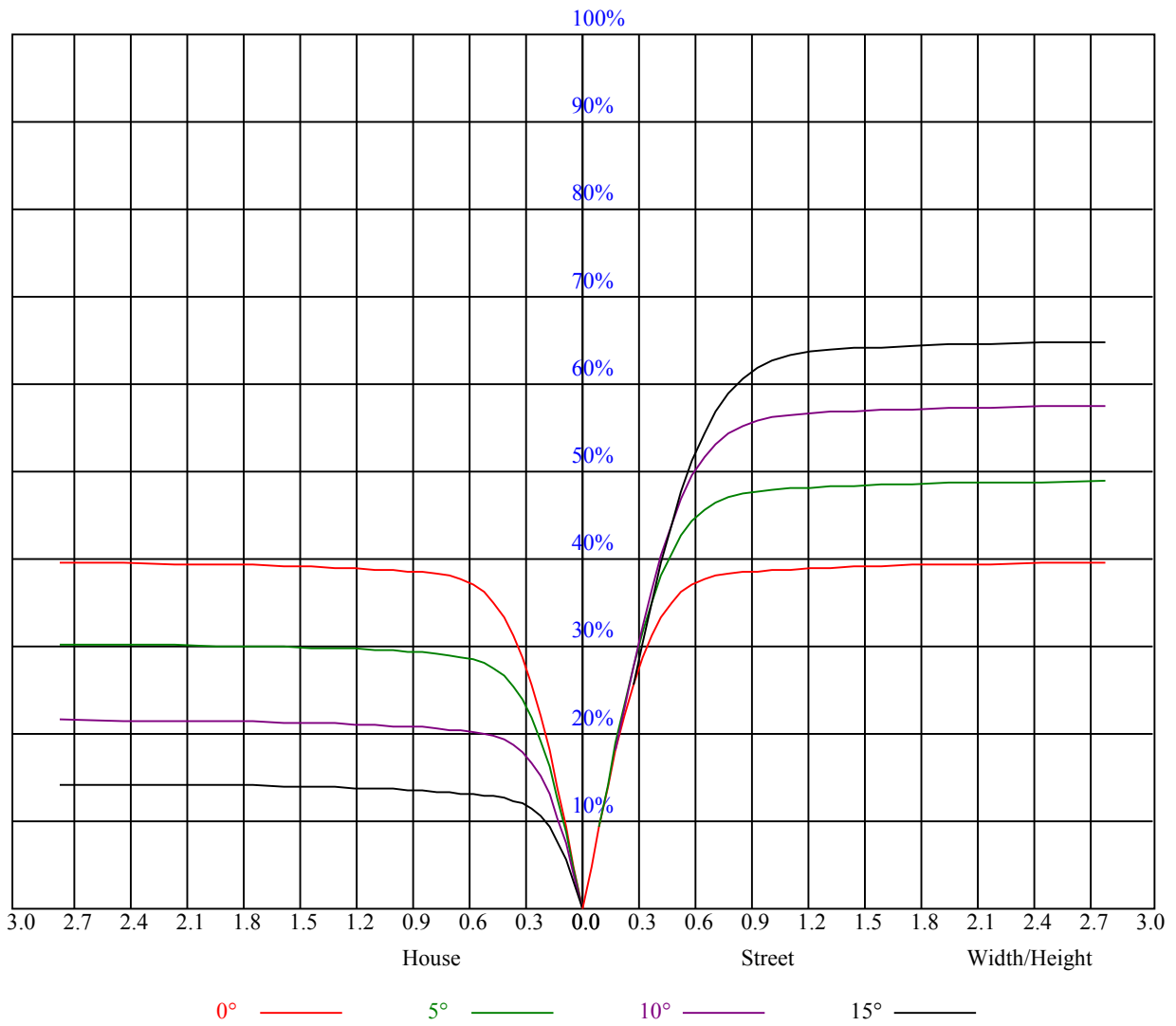
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

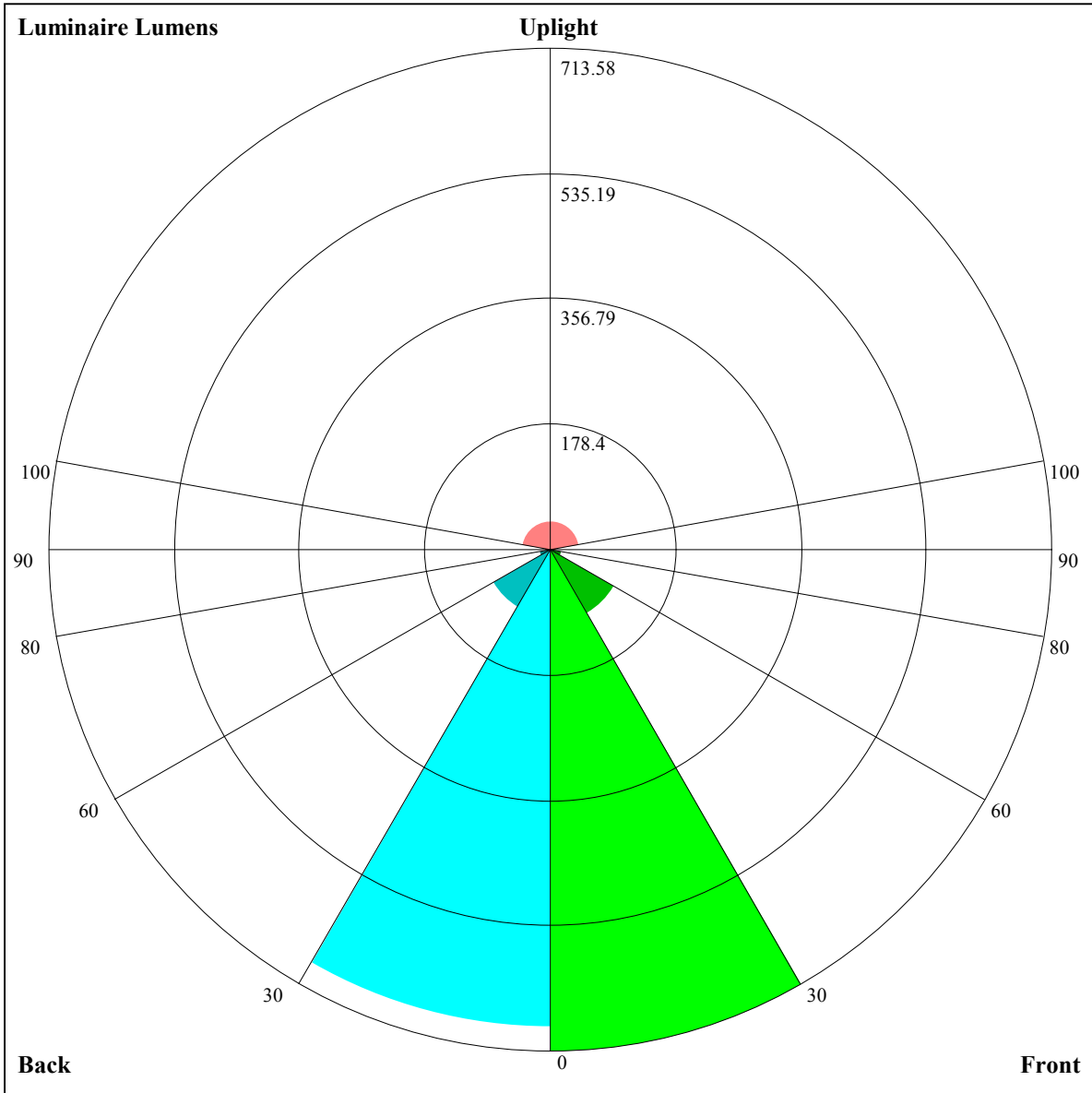
Luminance Limiting Curve





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	0.96	0.96	0.96	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.82	0.82	0.82	0.81
1	0.89	0.87	0.86	0.88	0.86	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77	0.76
2	0.84	0.81	0.78	0.82	0.80	0.77	0.80	0.78	0.76	0.77	0.76	0.74	0.75	0.74	0.72	0.71
3	0.79	0.75	0.72	0.78	0.74	0.72	0.76	0.73	0.71	0.74	0.71	0.69	0.72	0.70	0.68	0.67
4	0.75	0.71	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.70	0.68	0.66	0.69	0.67	0.65	0.64
5	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.67	0.64	0.62	0.66	0.64	0.61	0.60
6	0.67	0.63	0.60	0.67	0.63	0.60	0.65	0.62	0.59	0.64	0.61	0.59	0.63	0.61	0.58	0.57
7	0.64	0.60	0.57	0.64	0.59	0.57	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55
8	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.53	0.58	0.55	0.53	0.52
9	0.58	0.54	0.51	0.58	0.54	0.51	0.57	0.54	0.51	0.57	0.53	0.51	0.56	0.53	0.51	0.50
10	0.56	0.52	0.49	0.56	0.52	0.49	0.55	0.51	0.49	0.54	0.51	0.49	0.54	0.51	0.49	0.48





Luminaire Lumens:
FL=713.58,FM=103.54,FH=17.38,FVH=5.27
BL=678.91,BM=93.49,BH=17.1,BVH=5.19
UL=8.65,UH=41.14

BUG Rating:B2-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	3140.44	3105.56	2928.38	2486.81	1821.38	1185.19	596.25	299.81	65.70
45.0	3137.63	3121.88	2953.69	2547.00	1963.69	1248.75	658.69	284.63	72.28
90.0	3137.06	3070.69	2842.31	2368.13	1753.88	1091.42	537.47	163.86	61.76
135.0	3141.56	3065.63	2844.00	2411.44	1760.63	1117.69	622.13	287.44	65.76
180.0	3140.44	3004.88	2714.63	2242.69	1549.13	976.44	442.18	120.77	55.46
225.0	3137.63	2989.13	2666.81	2110.50	1481.63	841.11	386.61	107.10	53.44
270.0	3137.06	3057.75	2791.13	2243.25	1628.44	986.63	470.81	134.89	58.56
315.0	3141.56	3059.44	2785.50	2210.06	1533.38	925.14	416.93	111.88	54.90
360.0	3140.44	3105.56	2928.38	2486.81	1821.38	1185.19	596.25	299.81	65.70
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	40.50	31.16	25.99	22.73	19.74	16.65	14.34	11.98	9.51
45.0	43.20	33.24	27.34	23.68	20.42	17.66	15.13	12.71	10.01
90.0	39.09	31.16	26.21	22.61	19.52	16.76	14.01	11.59	9.39
135.0	40.50	31.84	26.55	23.46	20.59	17.61	14.91	12.26	9.28
180.0	37.35	29.76	25.03	22.22	19.01	16.20	13.61	11.48	9.23
225.0	36.23	29.53	24.86	21.83	18.96	16.14	13.67	11.42	9.34
270.0	38.25	30.71	25.65	22.33	19.18	16.54	13.89	11.53	9.17
315.0	37.18	29.93	25.71	22.78	19.69	16.93	14.29	11.36	9.00
360.0	40.50	31.16	25.99	22.73	19.74	16.65	14.34	11.98	9.51
C/γ(°)	90.0								
0.0	7.88								
45.0	8.21								
90.0	7.99								
135.0	7.88								
180.0	7.76								
225.0	7.88								
270.0	7.93								
315.0	7.88								
360.0	7.88								