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Nata

Client:

LumCAT: 2-1569-M

Luminaire:

Report No:

Voltage(V): 32.8500

Test No: GC2019081203

Current(A): 0.2970

LampCAT: TRIDONIC SLE G7 17MM

Power (W): 9.7600

Lamp flux(lm): 1190.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 70

Width(mm): 70

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1043.33, Efficiency(%): 87.67% , Luminous Efficacy(lm/W): 106.90

Central intensity(cd): 1285.734, Maximum intensity(cd): 1285.734

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=57.6

[C90/270]Total=57.6

Field angle(10%Imax): [C0/180]Total=77.6

[C90/270]Total=77.6

Maximum s/h(1/2): C0_180=0.91 C90_270=0.91

Maximum s/h(1/4): C0_180=0.86 C90_270=0.86

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 87.67%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.128%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2019/8/12
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

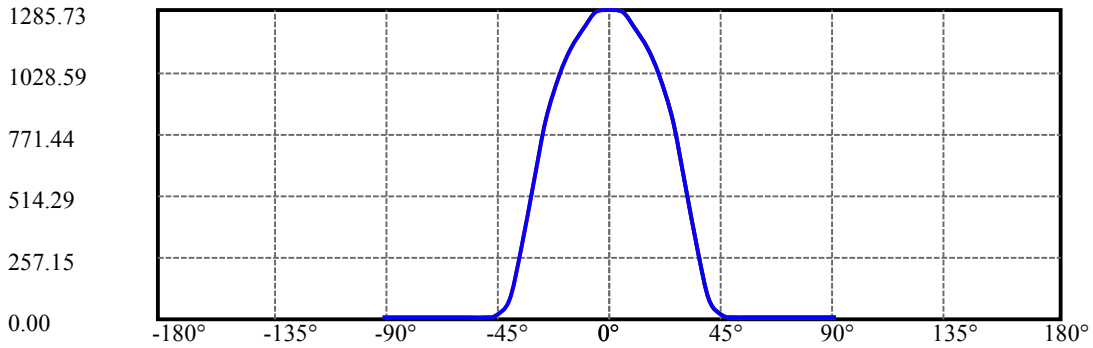
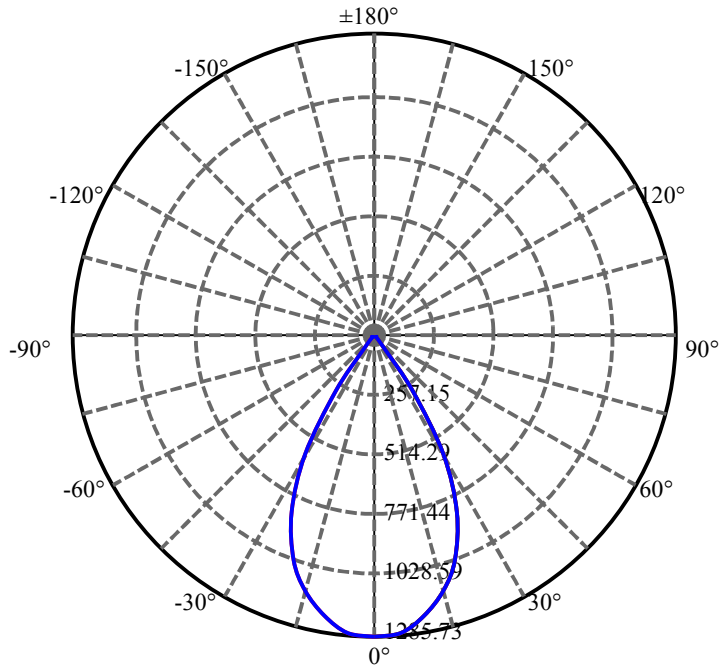
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1285.734	0.000	0	.000%	.000%
5.0	1274.344	30.605	30.605	2.572%	2.933%
10.0	1214.438	89.032	119.637	7.482%	11.467%
15.0	1124.367	138.736	258.373	11.659%	24.764%
20.0	1015.523	176.357	434.73	14.820%	41.668%
25.0	831.101	193.677	628.407	16.275%	60.231%
30.0	584.177	179.105	807.511	15.051%	77.397%
35.0	285.778	128.107	935.618	10.765%	89.676%
40.0	80.634	61.133	996.752	5.137%	95.536%
45.0	13.416	17.414	1014.166	1.463%	97.205%
50.0	7.784	4.284	1018.449	.360%	97.615%
55.0	5.484	2.885	1021.334	.242%	97.892%
60.0	5.189	2.467	1023.801	.207%	98.128%
65.0	6.195	2.767	1026.569	.233%	98.393%
70.0	8.501	3.721	1030.29	.313%	98.750%
75.0	7.812	4.264	1034.553	.358%	99.159%
80.0	5.182	3.477	1038.03	.292%	99.492%
85.0	4.908	2.742	1040.772	.230%	99.755%
90.0	4.437	2.559	1043.33	.215%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	807.51	67.86%	77.40%
0-40	996.75	83.76%	95.54%
0-60	1023.80	86.03%	98.13%
0-90	1040.77	87.46%	99.75%
0-120	1040.77	87.46%	99.75%
0-180	1043.33	87.67%	100.00%
60-90	19.44	1.63%	1.86%
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%
0-31.06	834.66	70.14%	80.00%

ZONAL LUMEN SUMMARY

0-10	119.64
10-20	315.09
20-30	372.78
30-40	189.24
40-50	21.70
50-60	5.35
60-70	6.49
70-80	7.74
80-90	2.74
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: —————

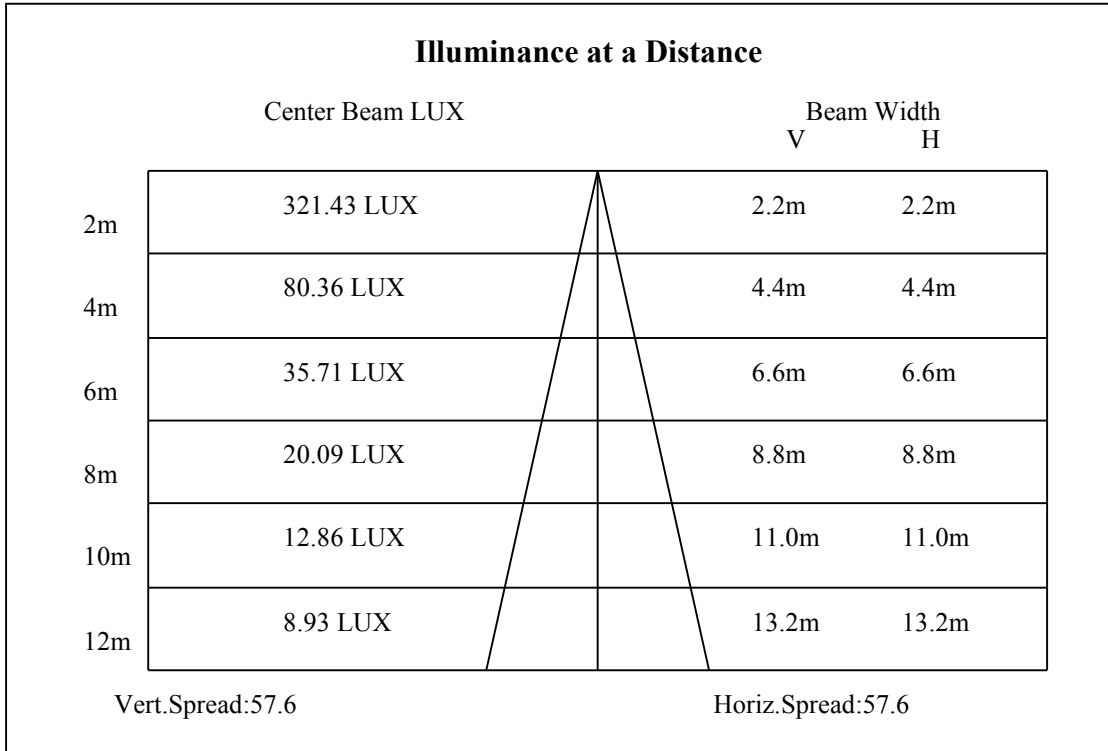
C90/C270: —————

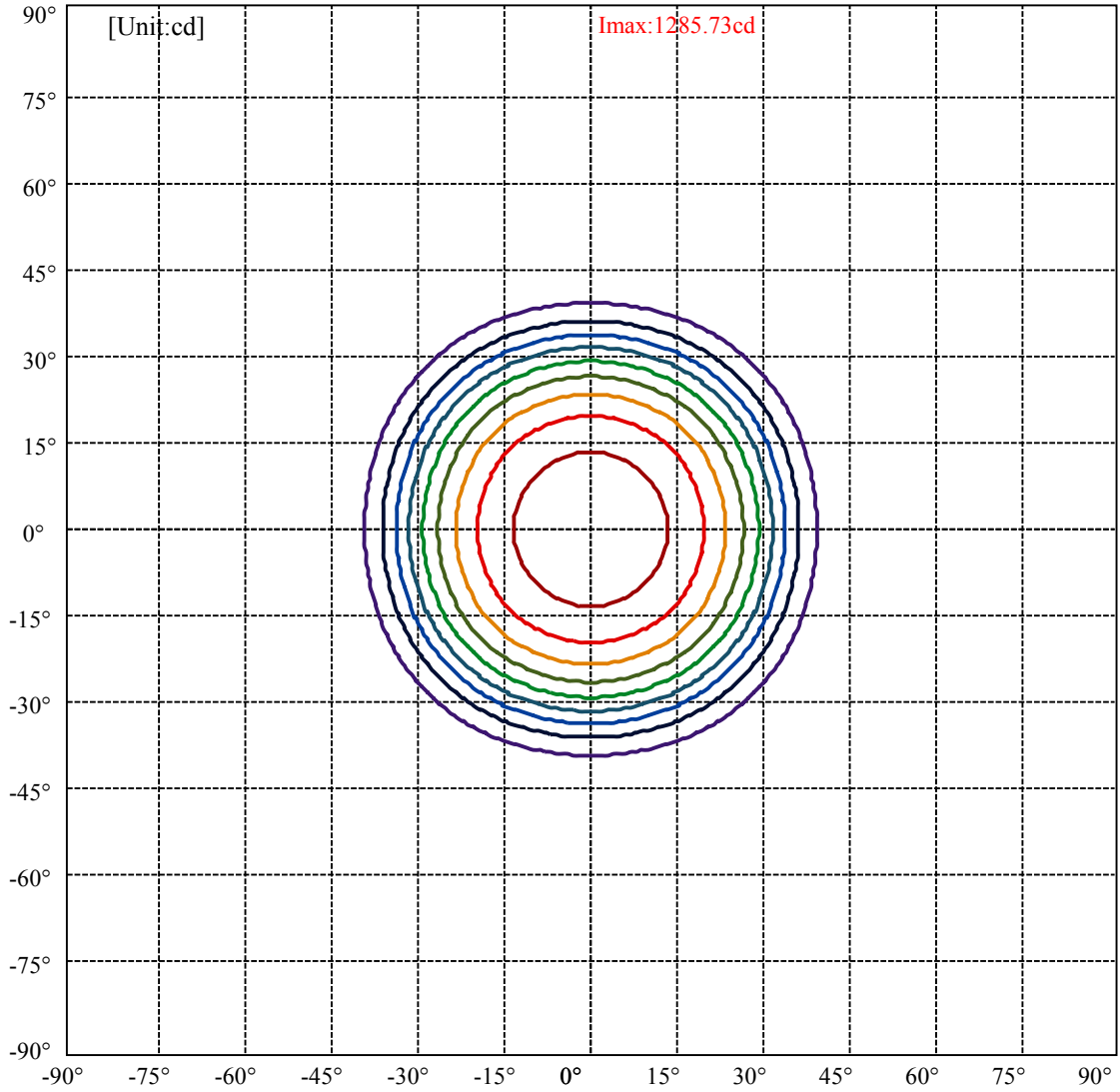
Field angle(10%Imax):C0/180Left:38.8 Right:38.8

:C90/270Left:38.8 Right:38.8

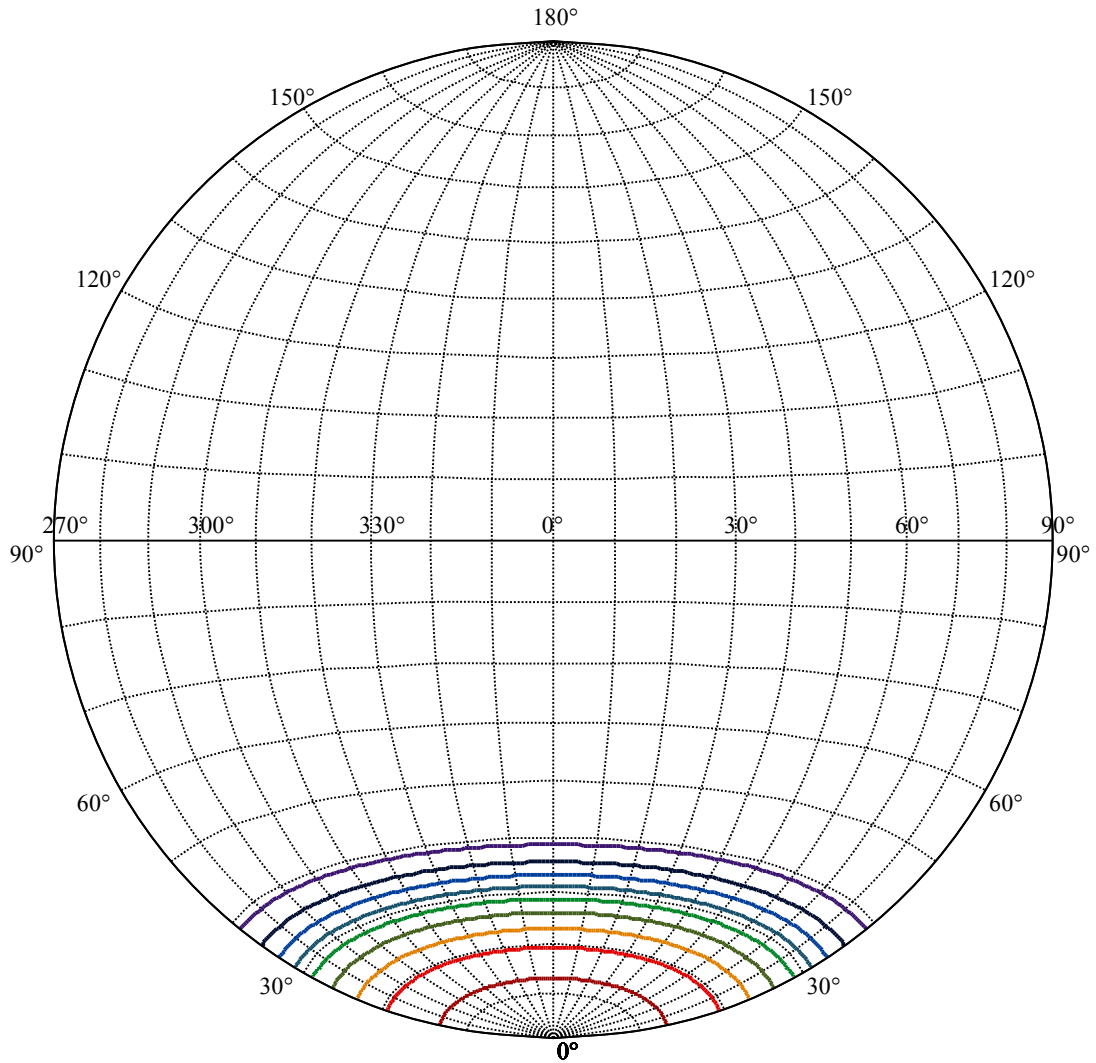
Beam Angle(50%Imax):C0/180Left:28.8 Right:28.8

:C90/270Left:28.8 Right:28.8





(10%Imax) 128.573	—
(20%Imax) 257.147	—
(30%Imax) 385.72	—
(40%Imax) 514.294	—
(50%Imax) 642.867	—
(60%Imax) 771.441	—
(70%Imax) 900.014	—
(80%Imax) 1028.59	—
(90%Imax) 1157.16	—



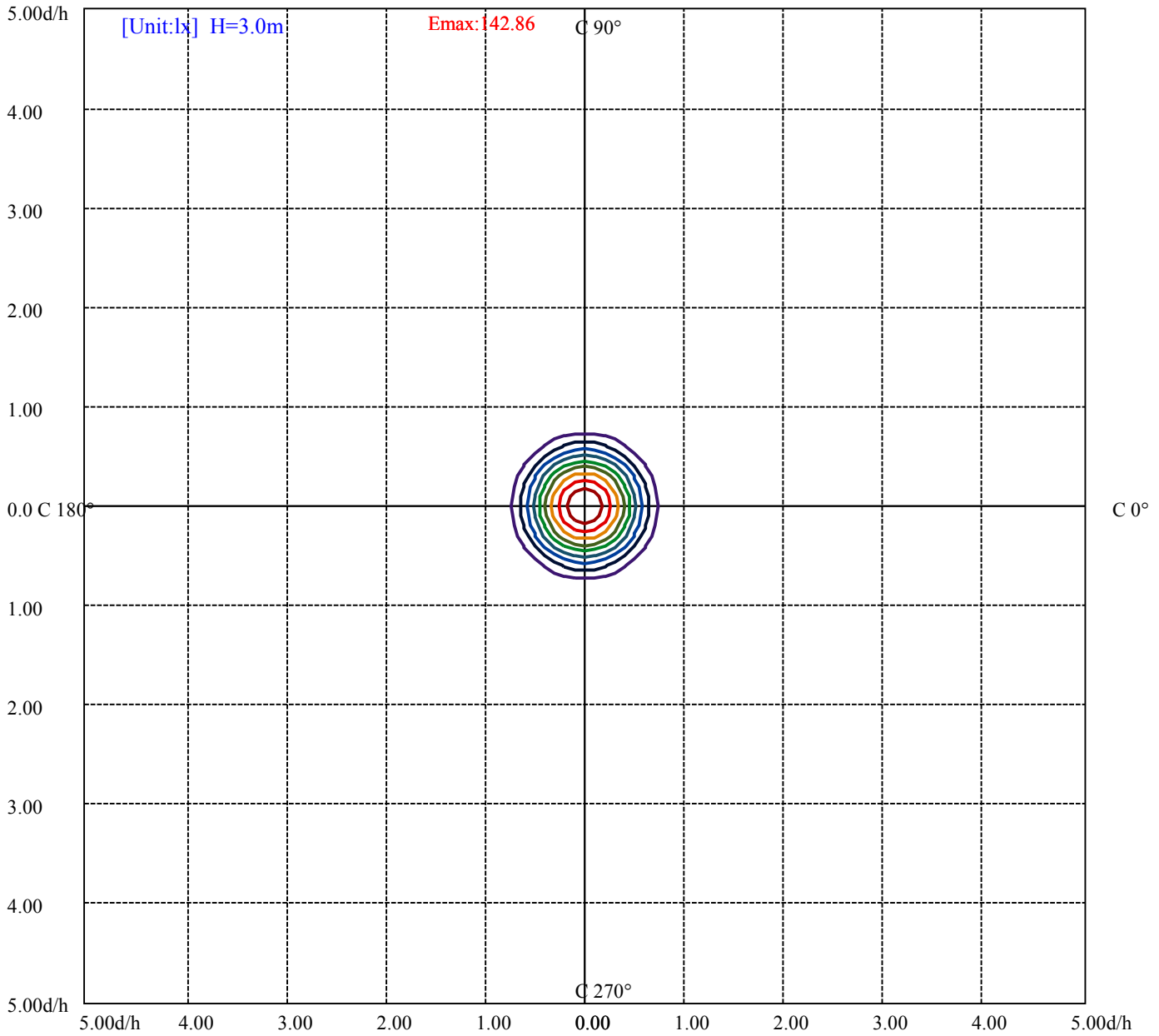
House

[Unit:cd]

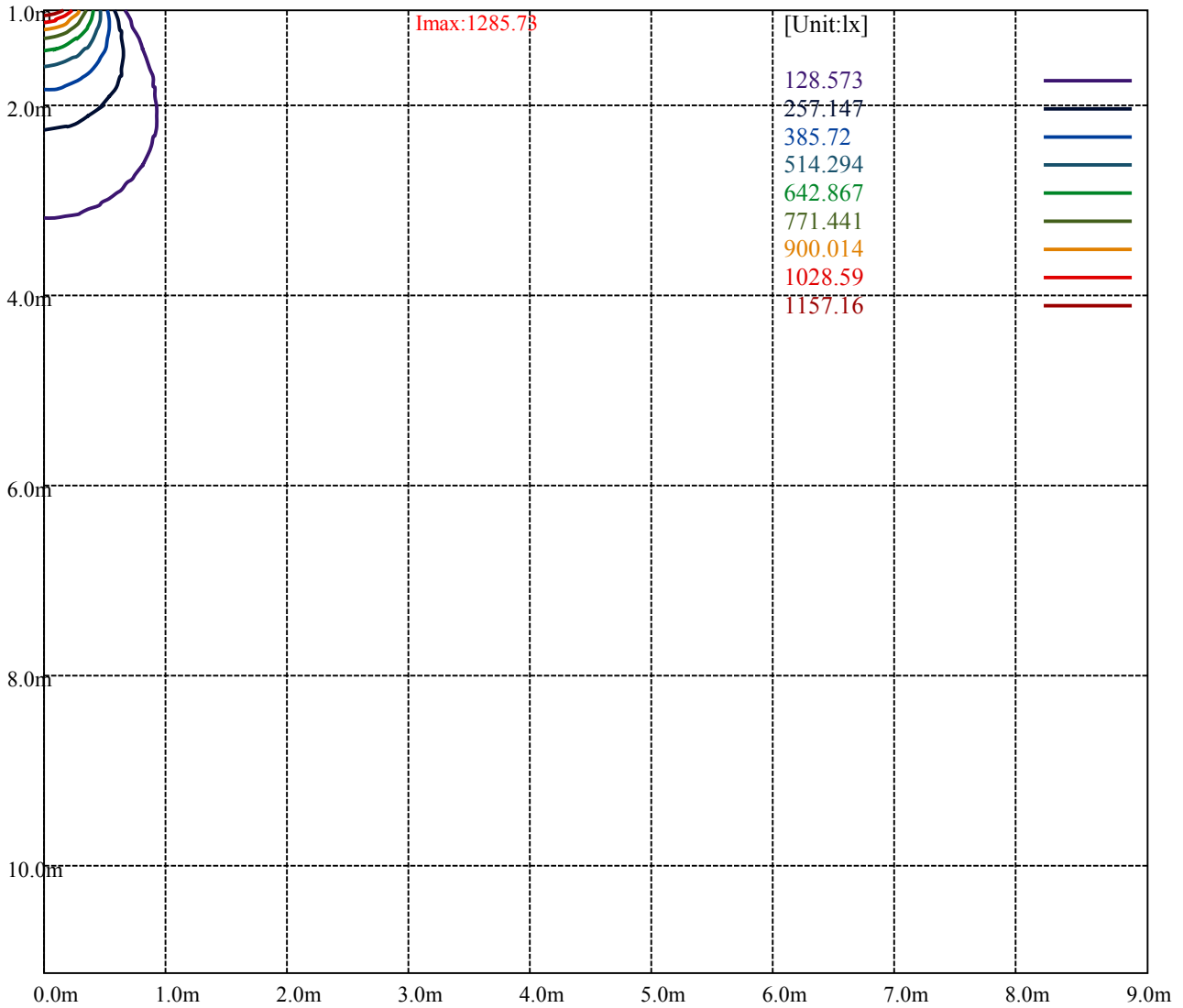
Road

Imax:1285.73

(10%Imax)	128.573	—
(20%Imax)	257.147	—
(30%Imax)	385.72	—
(40%Imax)	514.294	—
(50%Imax)	642.867	—
(60%Imax)	771.441	—
(70%Imax)	900.014	—
(80%Imax)	1028.59	—
(90%Imax)	1157.16	—



(10%Emax)	14.28589	—
(20%Emax)	28.57189	—
(30%Emax)	42.85778	—
(40%Emax)	57.14378	—
(50%Emax)	71.42966	—
(60%Emax)	85.71555	—
(70%Emax)	100.0016	—
(80%Emax)	114.2878	—
(90%Emax)	128.5733	—



Luminance Table

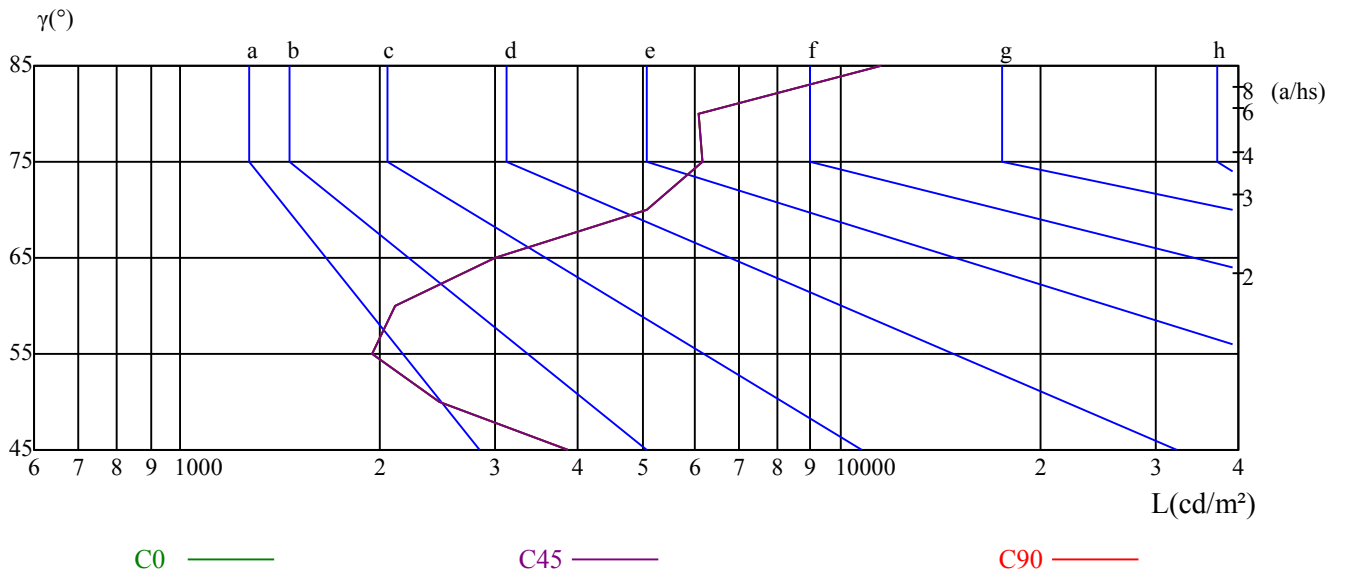
γ	45	50	55	60	65	70	75	80	85
C0	3872	2471	1951	2118	2991	5072	6160	6090	11492
C45	3872	2471	1951	2118	2991	5072	6160	6090	11492
C90	3872	2471	1951	2118	2991	5072	6160	6090	11492

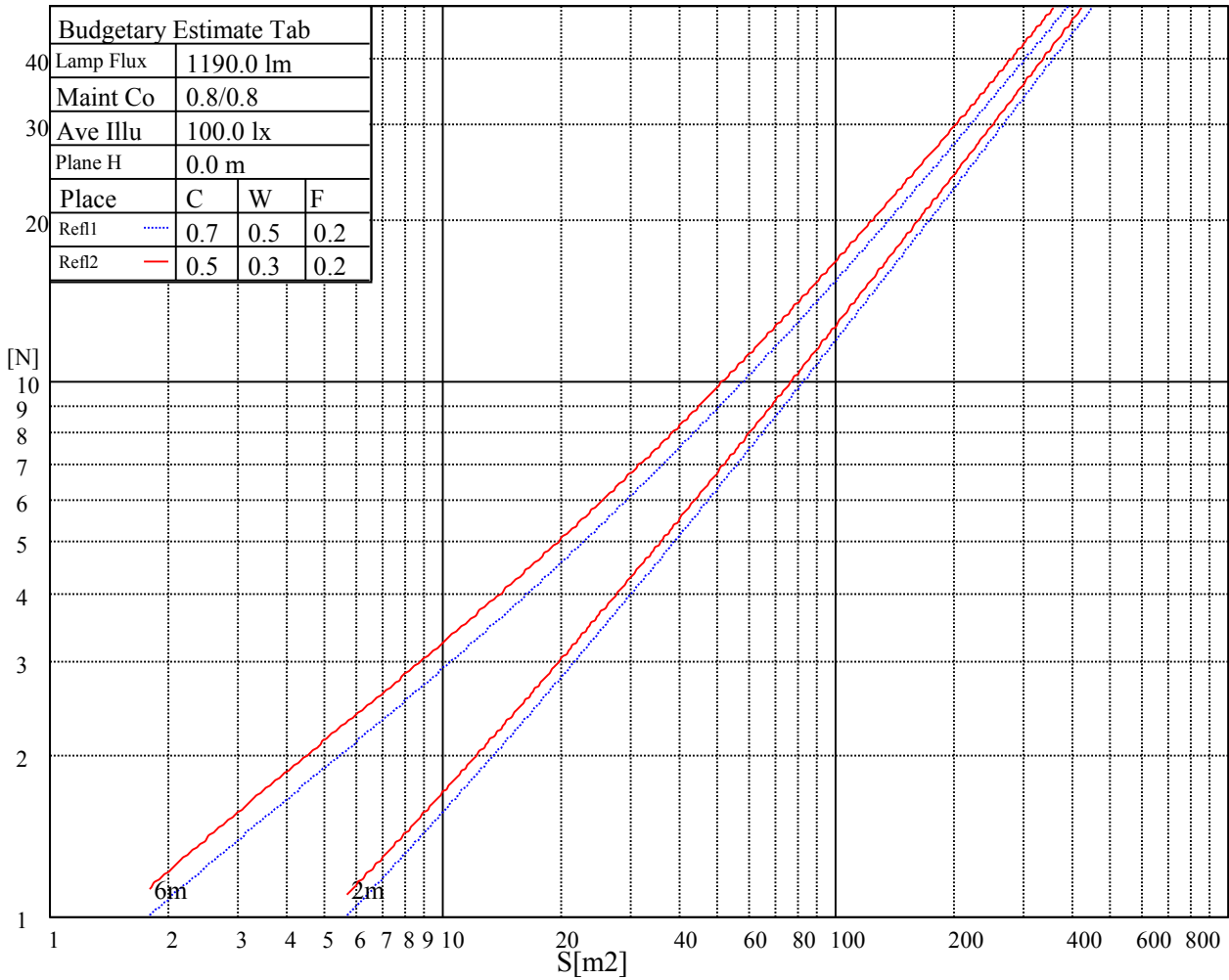
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2991	2991	2991	6160	6160	6160	11492	11492	11492

Glare Table

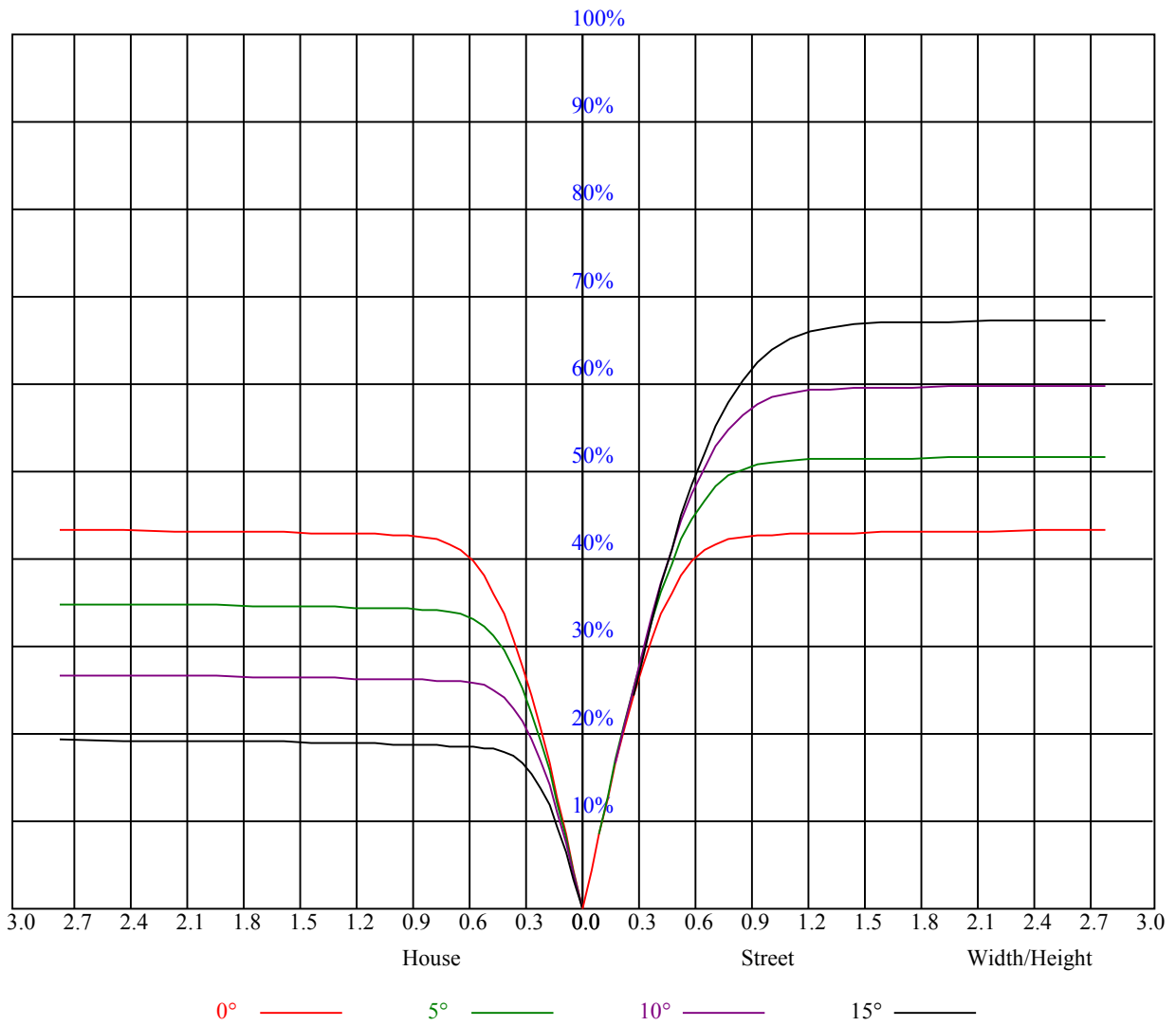
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

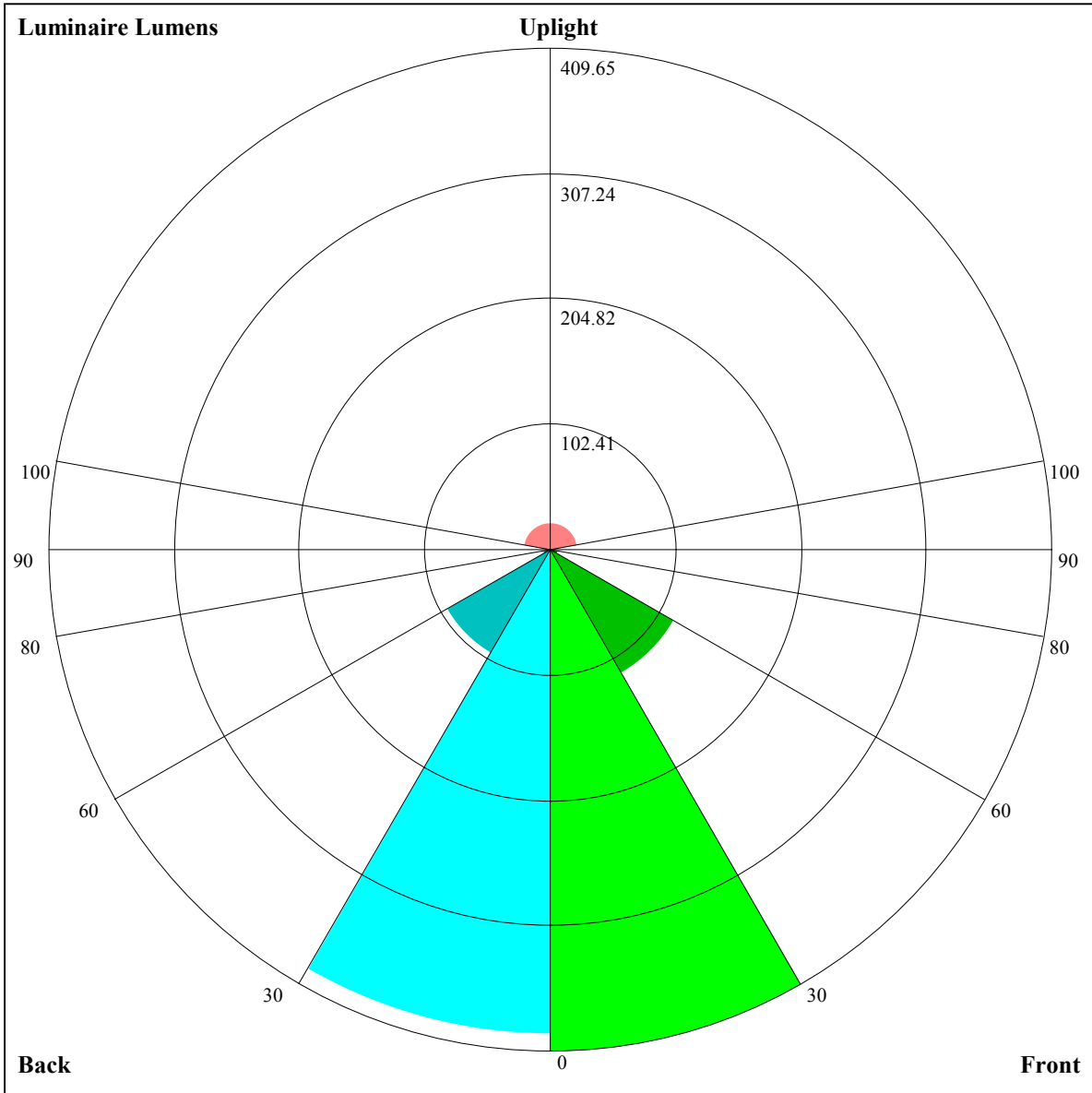
Luminance Limiting Curve





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	1.04	1.04	1.04	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.88
1	0.97	0.95	0.93	0.95	0.93	0.91	0.92	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82
2	0.90	0.87	0.84	0.89	0.86	0.83	0.86	0.84	0.81	0.84	0.81	0.80	0.81	0.79	0.78	0.76
3	0.85	0.80	0.77	0.83	0.80	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.71
4	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.73	0.70	0.68	0.67
5	0.75	0.70	0.66	0.74	0.69	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.66	0.64	0.63
6	0.70	0.65	0.62	0.70	0.65	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.59
7	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.56
8	0.63	0.58	0.54	0.62	0.58	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.52
9	0.60	0.55	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.58	0.54	0.51	0.57	0.53	0.51	0.49
10	0.56	0.52	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.55	0.51	0.48	0.54	0.50	0.48	0.47





Luminaire Lumens:

FL=409.65,FM=116.53,FH=6.2,FVH=2.62

BL=395.25,BM=97.82,BH=7.15,BVH=2.63

UL=4.84,UH=23.04

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	1287.56	1287.56	1236.94	1158.19	1052.44	888.75	666.56	352.69	112.56
45.0	1284.75	1280.81	1236.94	1150.31	1047.94	896.06	669.94	362.25	137.81
90.0	1284.75	1275.19	1211.63	1120.39	1007.44	824.01	594.45	293.01	83.93
135.0	1285.88	1271.81	1216.69	1131.75	1022.63	843.19	593.44	294.75	82.07
180.0	1287.56	1259.44	1193.63	1100.98	980.61	785.53	515.70	221.06	49.11
225.0	1284.75	1263.94	1188.00	1090.41	967.44	749.98	489.54	203.29	33.69
270.0	1284.75	1275.75	1216.13	1124.44	1031.06	843.75	581.63	286.88	73.80
315.0	1285.88	1280.25	1215.56	1118.48	1014.64	817.54	562.16	272.31	72.11
360.0	1287.56	1287.56	1236.94	1158.19	1052.44	888.75	666.56	352.69	112.56
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	15.97	9.11	5.79	5.29	5.68	15.41	14.23	6.47	5.12
45.0	16.48	8.94	5.51	5.18	5.01	5.57	5.63	5.34	4.67
90.0	13.39	8.04	5.23	5.01	4.89	4.78	4.73	4.73	4.73
135.0	13.28	8.49	5.63	5.40	5.23	5.23	5.18	5.06	5.06
180.0	11.70	7.37	5.74	5.40	13.73	19.69	16.43	5.63	5.51
225.0	11.59	6.19	5.51	5.12	5.23	7.76	6.86	4.78	4.67
270.0	12.54	7.09	5.18	5.01	4.84	4.73	4.67	4.67	4.73
315.0	12.38	7.03	5.29	5.12	4.95	4.84	4.78	4.78	4.78
360.0	15.97	9.11	5.79	5.29	5.68	15.41	14.23	6.47	5.12
C/γ(°)	90.0								
0.0	4.44								
45.0	4.44								
90.0	4.39								
135.0	4.44								
180.0	4.44								
225.0	4.39								
270.0	4.44								
315.0	4.50								
360.0	4.44								