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Nata

Client:

LumCAT: 3-1944-M

Luminaire:

Report No:

Voltage(V): 32.9800

Test No: GC2019081302

Current(A): 0.2970

LampCAT: TRIDONIC SLE G7 17MM

Power (W): 9.8000

Lamp flux(lm): 1190.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 86

Width(mm): 86

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1047.40, Efficiency(%): 88.02% , Luminous Efficacy(lm/W): 106.88

Central intensity(cd): 2529.984, Maximum intensity(cd): 2529.984

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=34.8

[C90/270]Total=34.8

Field angle(10%Imax): [C0/180]Total=66.8

[C90/270]Total=66.8

Maximum s/h(1/2): C0_180=0.58 C90_270=0.58

Maximum s/h(1/4): C0_180=0.56 C90_270=0.56

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 88.02%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.543%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2019/8/13
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

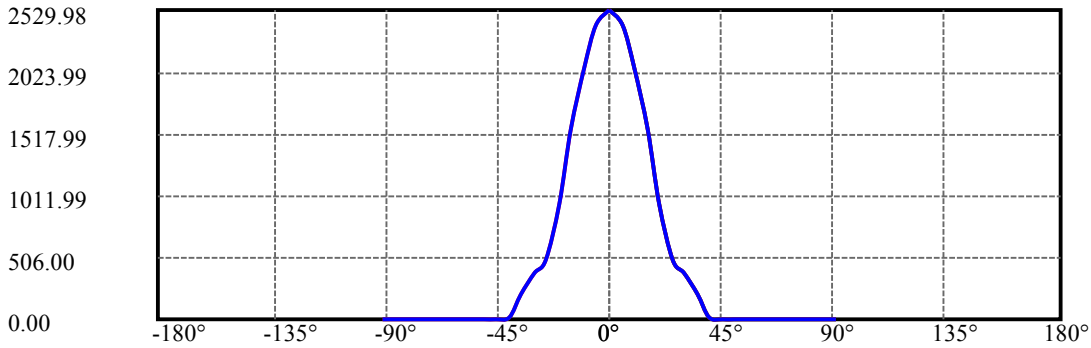
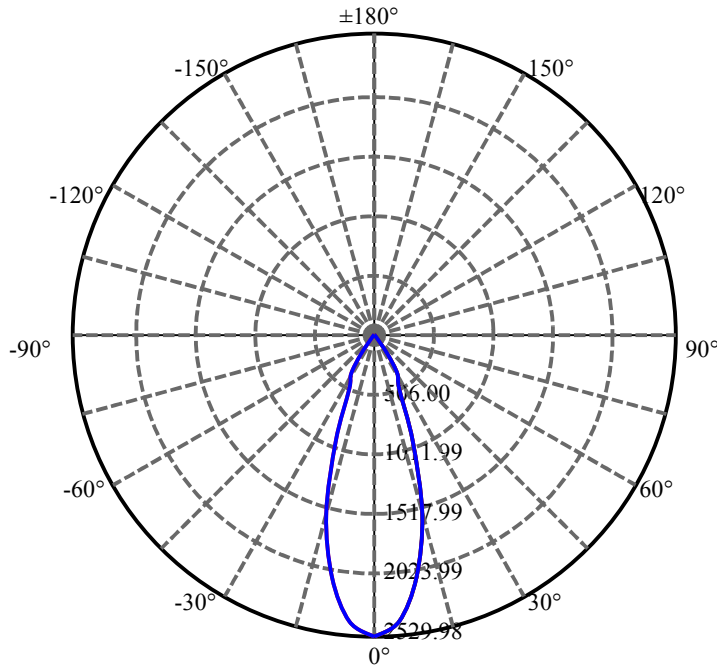
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2529.984	0.000	0	.000%	.000%
5.0	2404.758	58.993	58.993	4.957%	5.632%
10.0	2065.078	159.900	218.894	13.437%	20.899%
15.0	1559.531	215.009	433.903	18.068%	41.427%
20.0	937.680	205.805	639.708	17.295%	61.076%
25.0	494.438	150.203	789.911	12.622%	75.416%
30.0	373.008	109.776	899.687	9.225%	85.897%
35.0	198.654	84.181	983.868	7.074%	93.934%
40.0	17.627	36.085	1019.953	3.032%	97.379%
45.0	7.341	4.623	1024.576	.388%	97.821%
50.0	5.843	2.664	1027.24	.224%	98.075%
55.0	5.435	2.452	1029.692	.206%	98.309%
60.0	5.168	2.451	1032.143	.206%	98.543%
65.0	4.971	2.465	1034.608	.207%	98.778%
70.0	4.873	2.493	1037.1	.209%	99.016%
75.0	4.866	2.545	1039.646	.214%	99.259%
80.0	4.901	2.613	1042.259	.220%	99.509%
85.0	4.760	2.625	1044.884	.221%	99.760%
90.0	4.437	2.518	1047.402	.212%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	899.69	75.60%	85.90%
0-40	1019.95	85.71%	97.38%
0-60	1032.14	86.73%	98.54%
0-90	1044.88	87.81%	99.76%
0-120	1044.88	87.81%	99.76%
0-180	1047.40	88.02%	100.00%
60-90	15.19	1.28%	1.45%
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%
0-27.19	837.92	70.41%	80.00%

ZONAL LUMEN SUMMARY

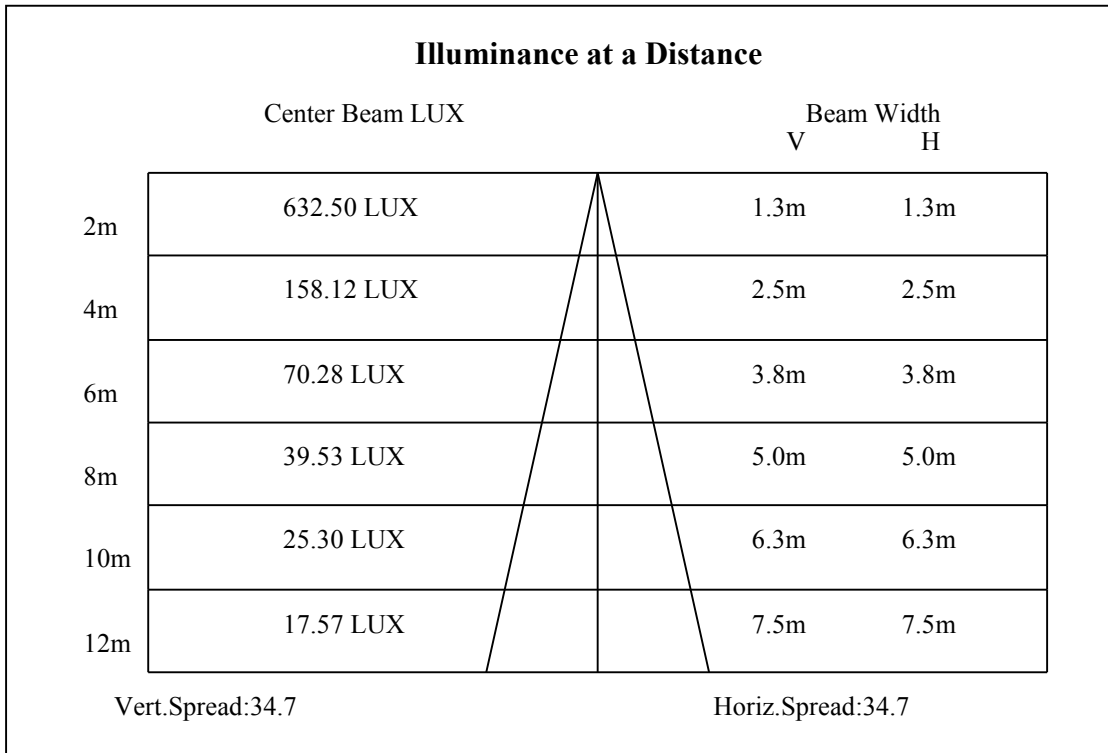
0-10	218.89
10-20	420.81
20-30	259.98
30-40	120.27
40-50	7.29
50-60	4.90
60-70	4.96
70-80	5.16
80-90	2.63
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

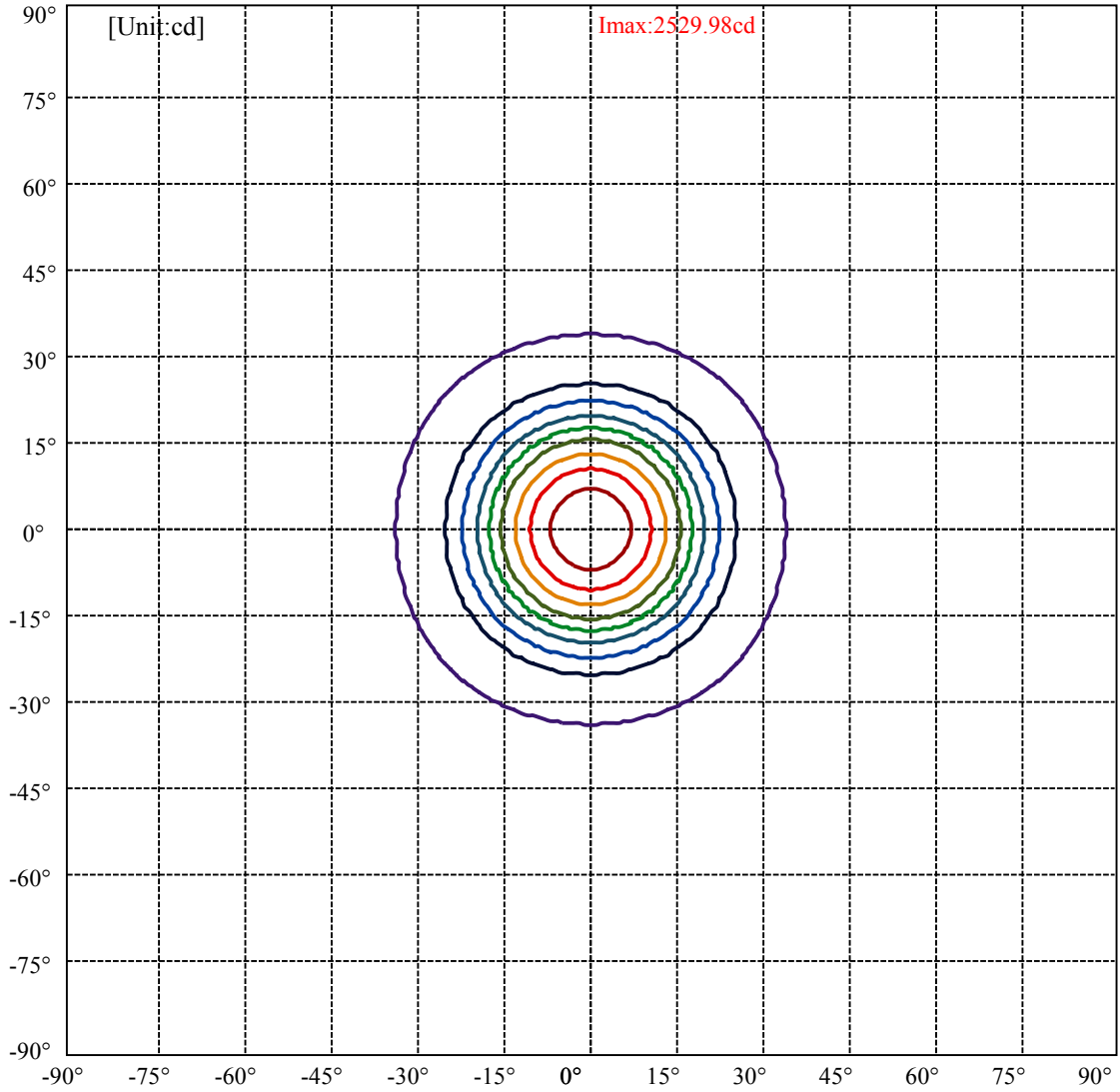


C0(Max): ———
C0/C180: ———
C90/C270: ———

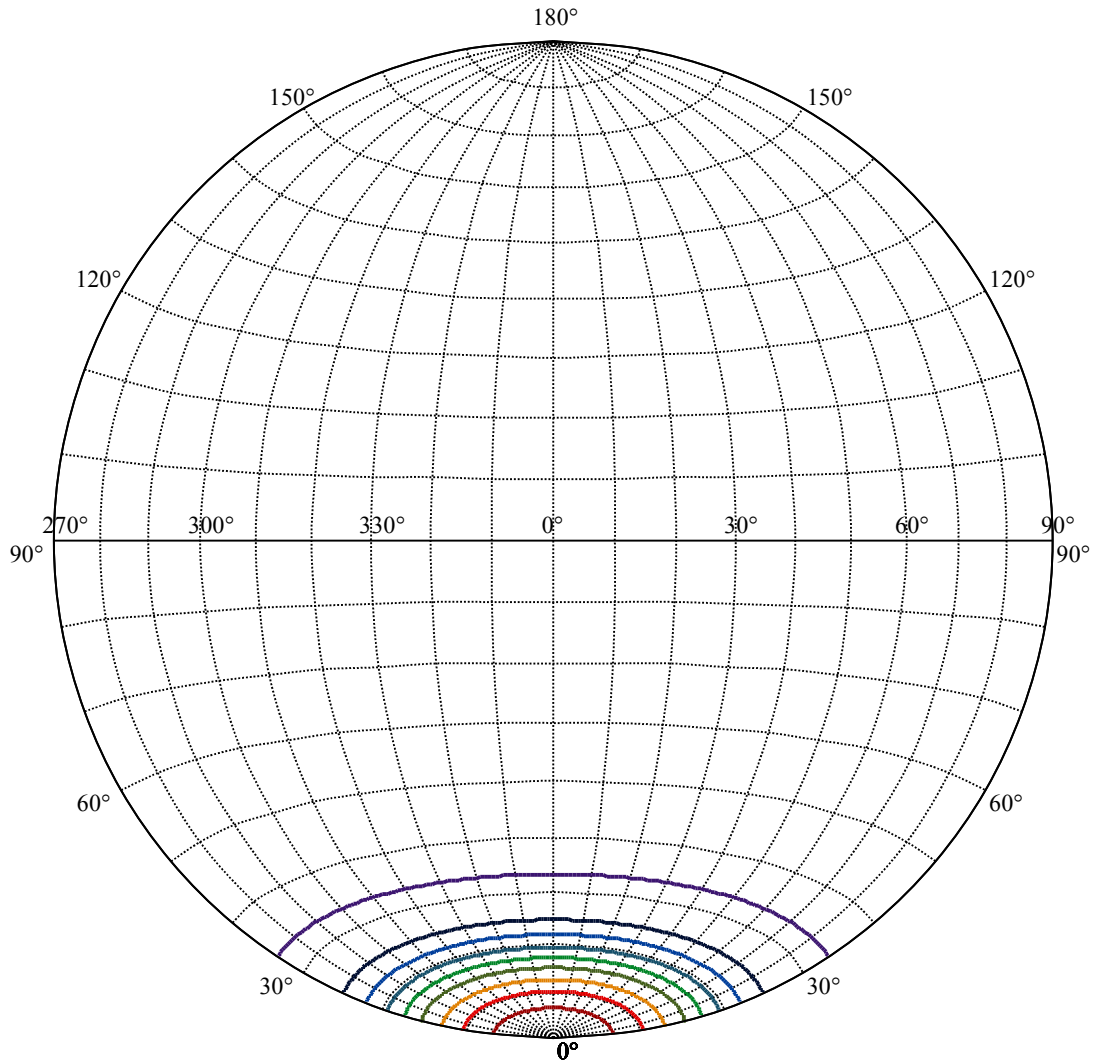
Field angle(10%Imax):C0/180Left:33.4 Right:33.4
:C90/270Left:33.4 Right:33.4

Beam Angle(50%Imax):C0/180Left:17.4 Right:17.4
:C90/270Left:17.4 Right:17.4





(10%Imax) 252.998	—
(20%Imax) 505.997	—
(30%Imax) 758.995	—
(40%Imax) 1011.99	—
(50%Imax) 1264.99	—
(60%Imax) 1517.99	—
(70%Imax) 1770.99	—
(80%Imax) 2023.99	—
(90%Imax) 2276.99	—



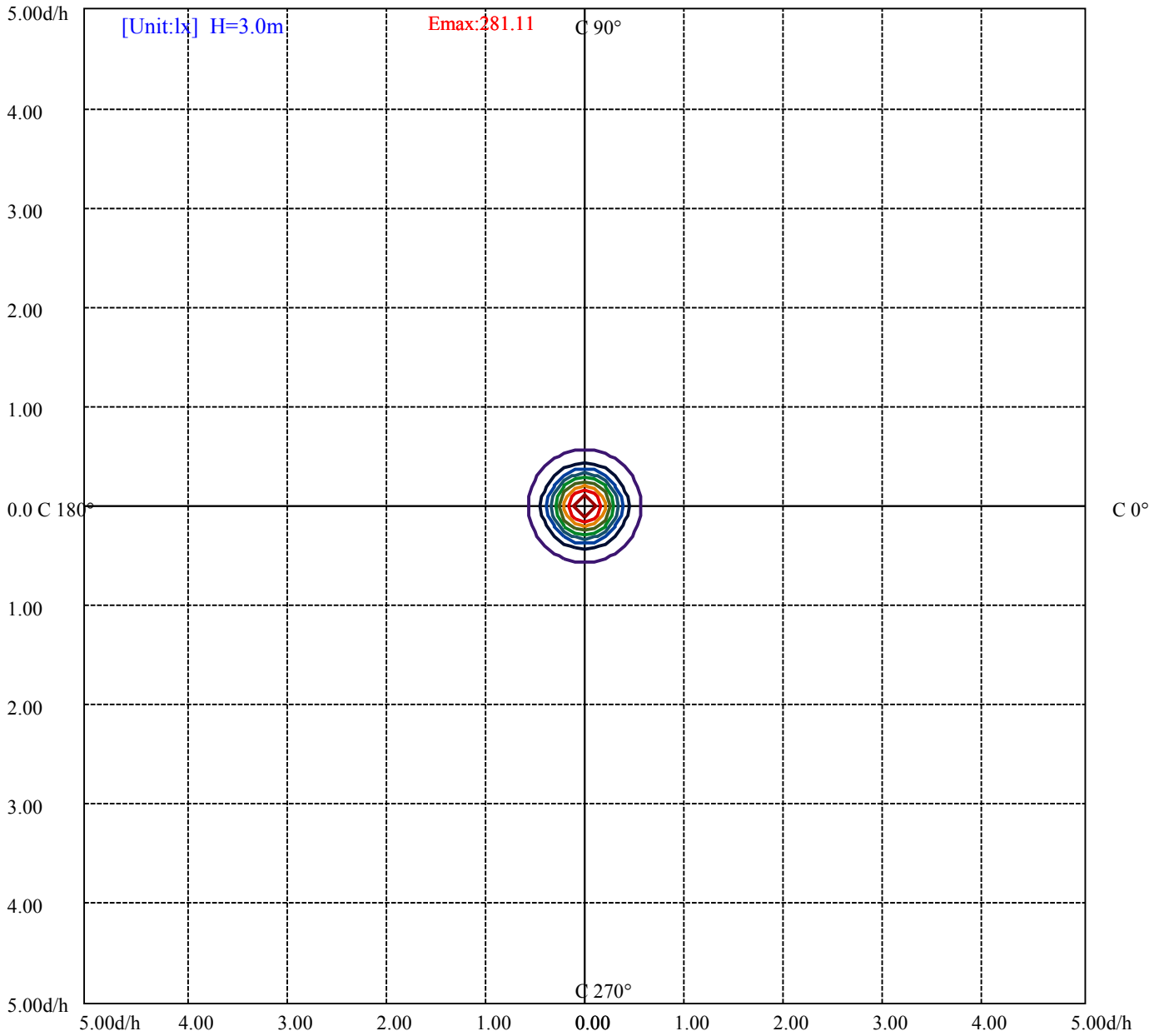
House

[Unit:cd]

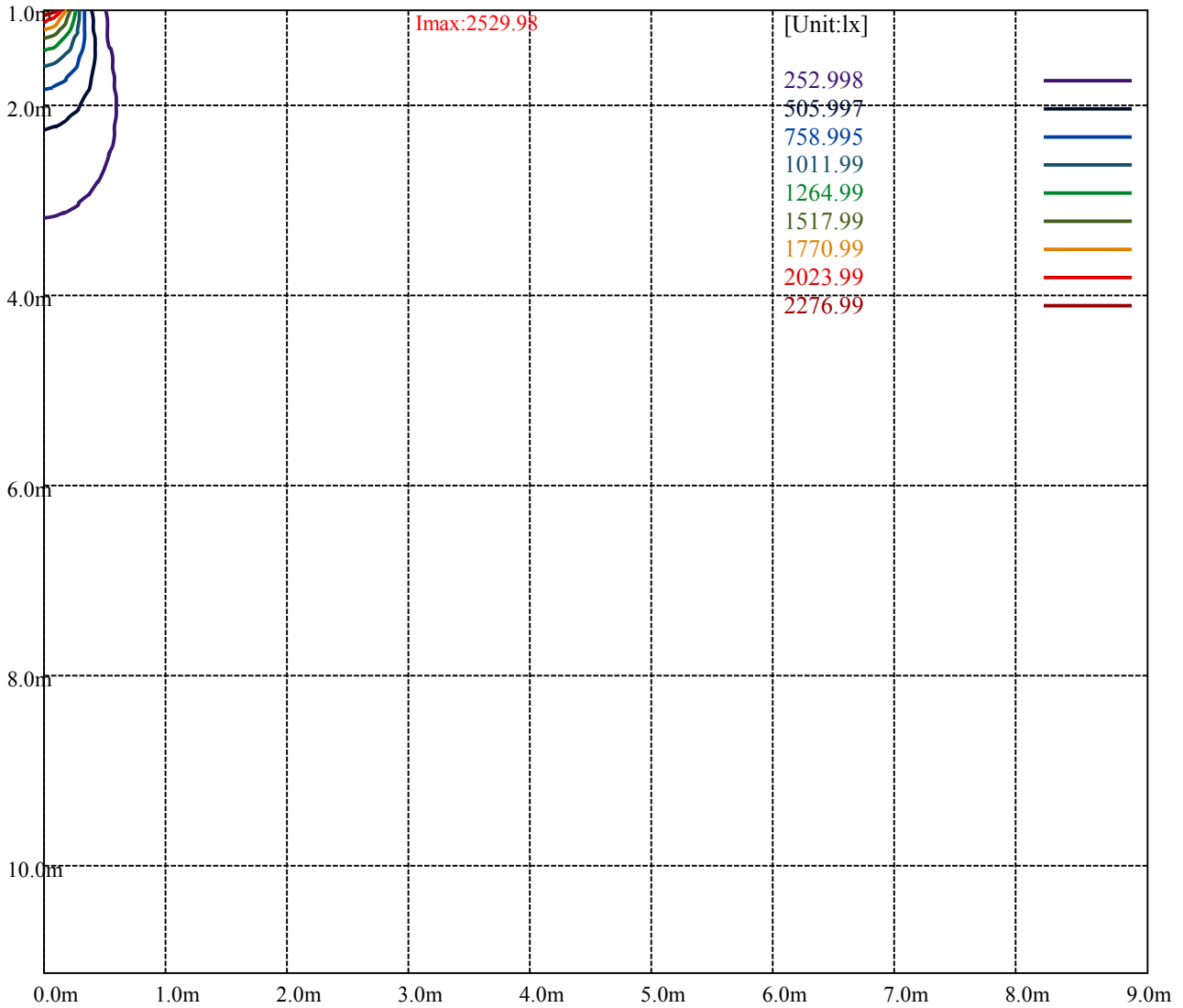
Road

Imax:2529.98

(10%Imax)	252.998	—
(20%Imax)	505.997	—
(30%Imax)	758.995	—
(40%Imax)	1011.99	—
(50%Imax)	1264.99	—
(60%Imax)	1517.99	—
(70%Imax)	1770.99	—
(80%Imax)	2023.99	—
(90%Imax)	2276.99	—



(10%Emax) 28.11089	—
(20%Emax) 56.22178	—
(30%Emax) 84.33267	—
(40%Emax) 112.4433	—
(50%Emax) 140.5544	—
(60%Emax) 168.6656	—
(70%Emax) 196.7767	—
(80%Emax) 224.8867	—
(90%Emax) 252.9978	—



Luminance Table

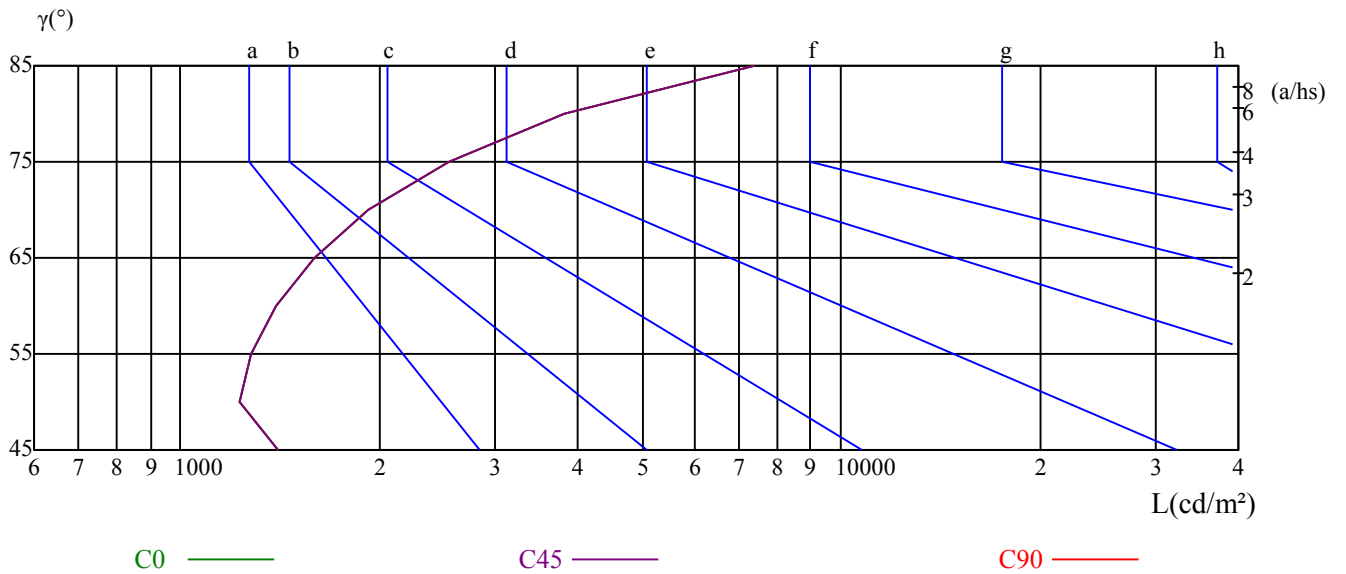
γ	45	50	55	60	65	70	75	80	85
C0	1404	1229	1281	1398	1590	1926	2542	3816	7385
C45	1404	1229	1281	1398	1590	1926	2542	3816	7385
C90	1404	1229	1281	1398	1590	1926	2542	3816	7385

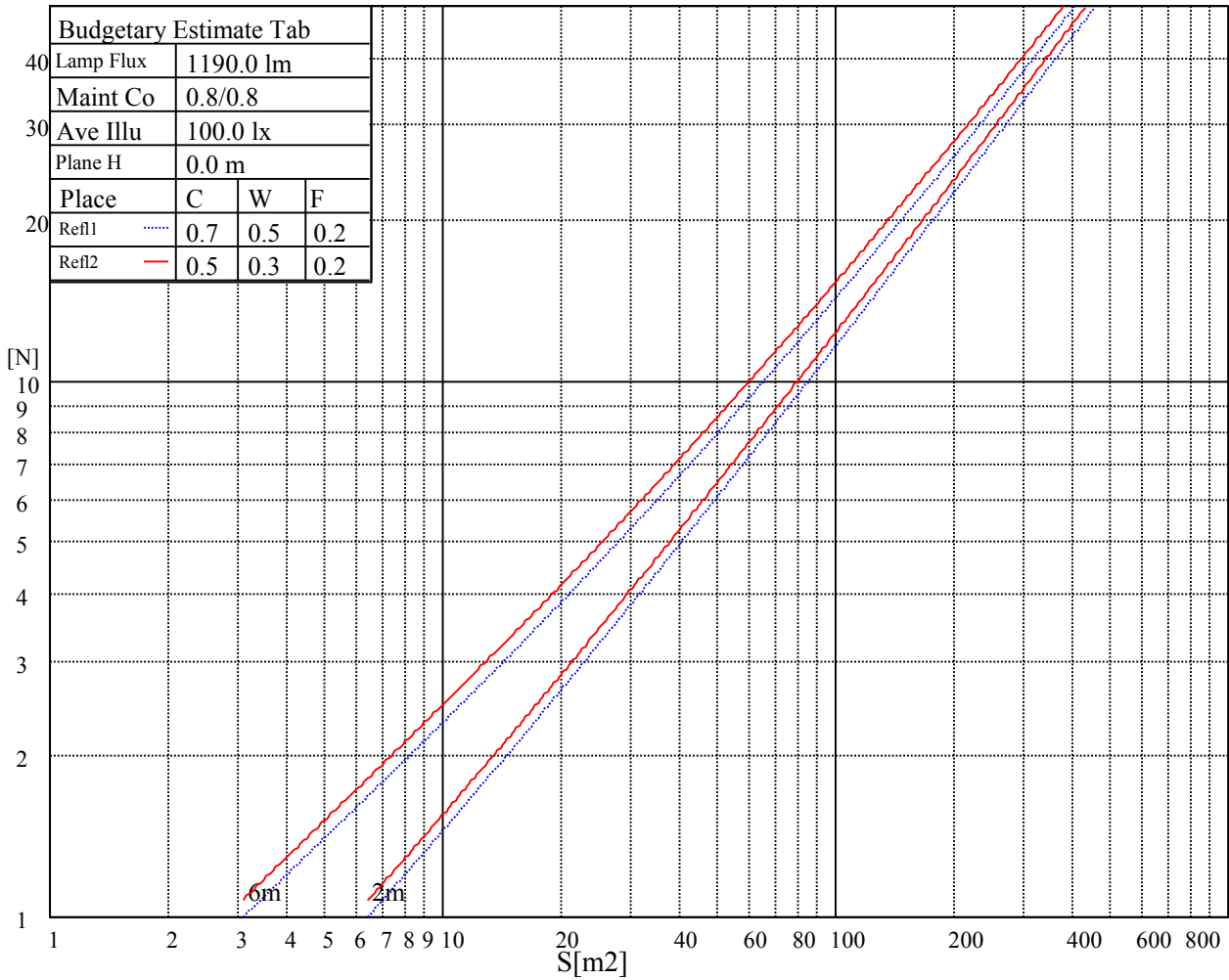
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1590	1590	1590	2542	2542	2542	7385	7385	7385

Glare Table

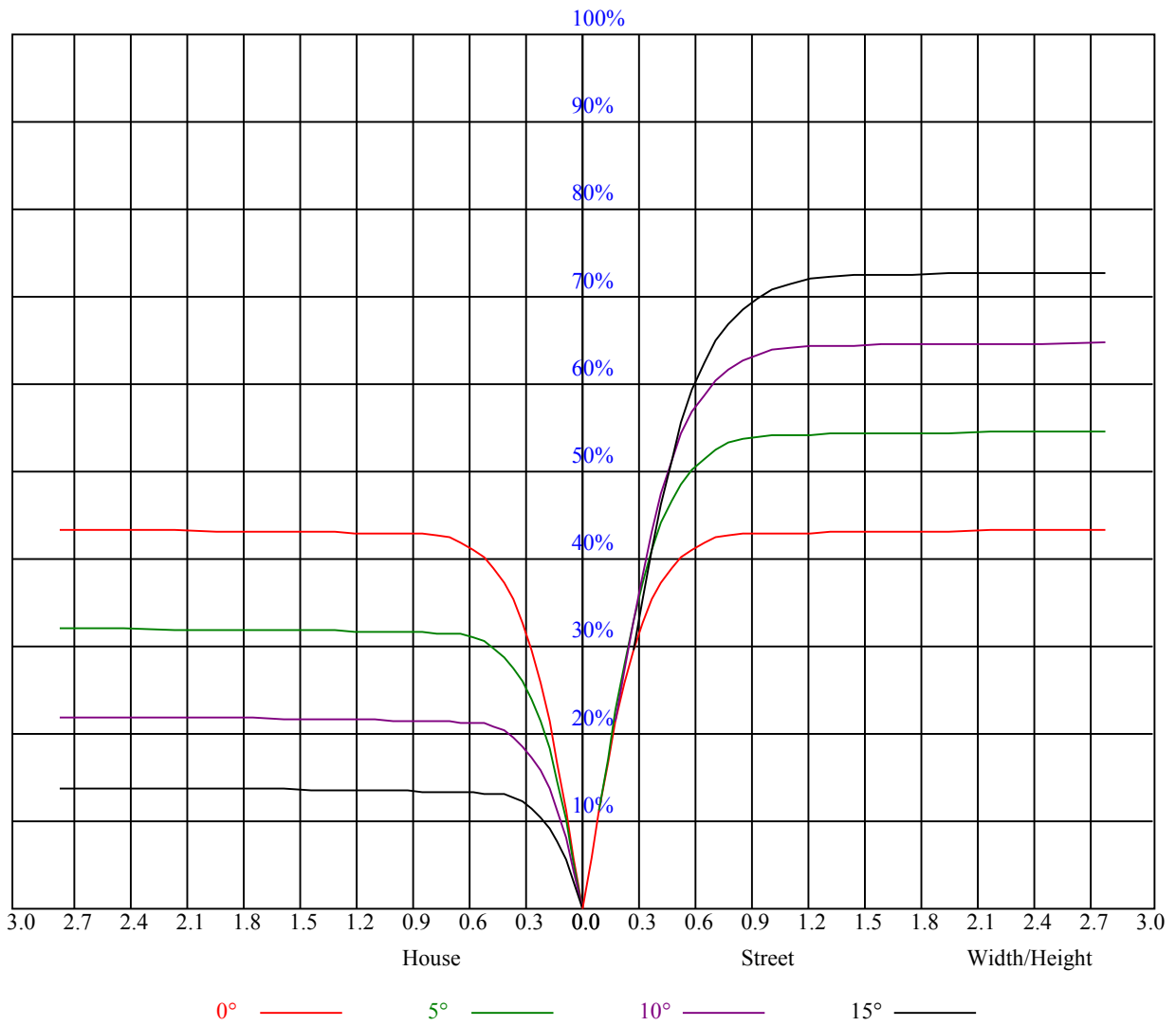
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

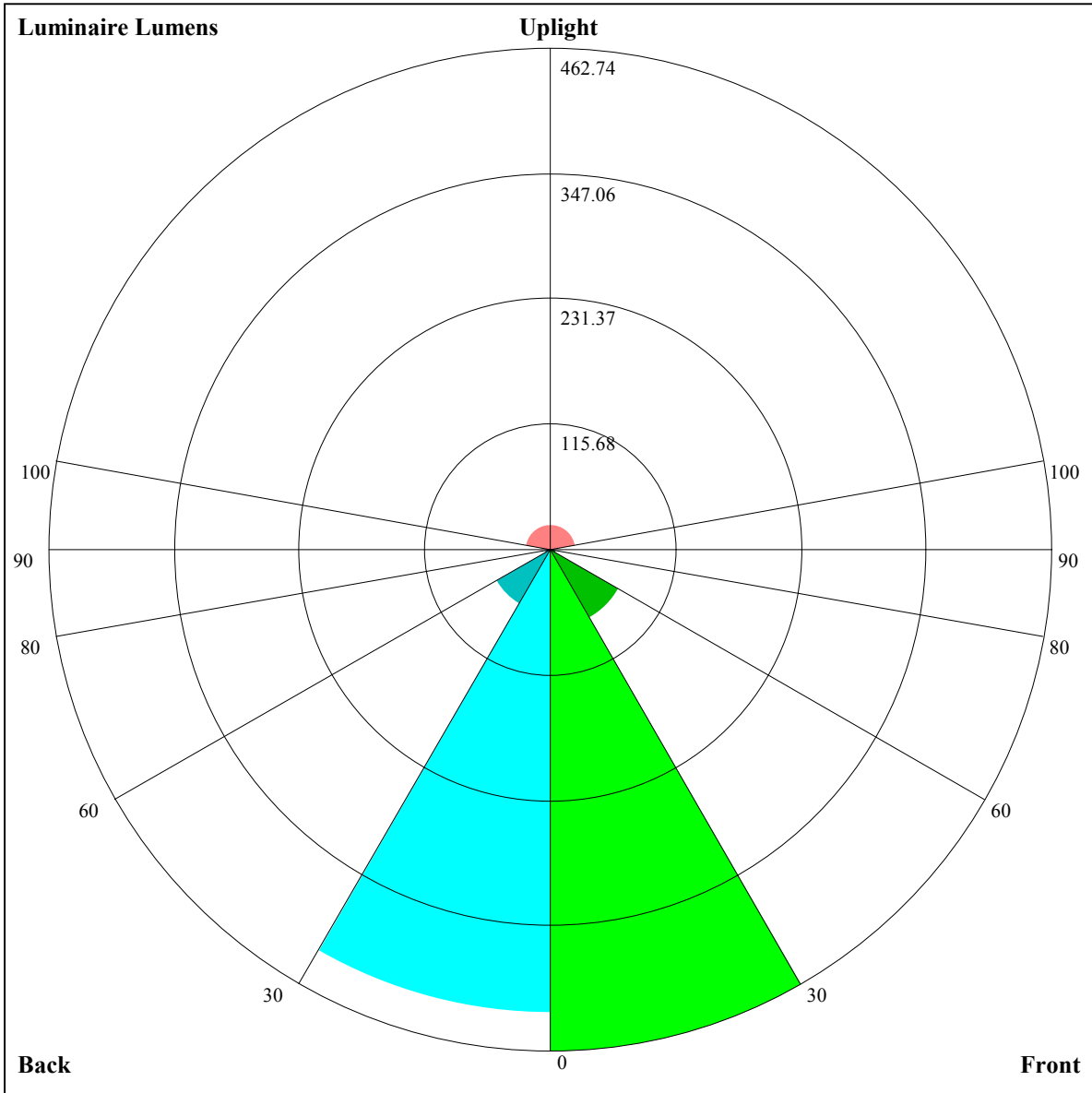
Luminance Limiting Curve





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	1.05	1.05	1.05	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.88
1	0.98	0.96	0.94	0.96	0.95	0.93	0.93	0.91	0.90	0.89	0.88	0.87	0.86	0.86	0.85	0.83
2	0.93	0.89	0.87	0.91	0.88	0.86	0.88	0.86	0.84	0.86	0.84	0.82	0.83	0.82	0.80	0.79
3	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.80	0.78	0.76	0.75
4	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.77	0.75	0.73	0.72
5	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.74	0.71	0.69	0.68
6	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
7	0.72	0.68	0.65	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
8	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	0.61	0.60
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.64	0.61	0.58	0.57
10	0.64	0.59	0.57	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.56	0.55





Luminaire Lumens:

FL=462.74,FM=73.38,FH=5.08,FVH=2.6

BL=427.67,BM=58.5,BH=5.01,BVH=2.54

UL=4.84,UH=23.04

BUG Rating:B1-U2-G0

Nata 3-1944-M

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	2531.25	2478.94	2189.81	1717.31	1094.06	563.06	402.19	286.31	34.65
45.0	2521.69	2472.19	2172.38	1724.06	1093.50	535.50	390.38	293.06	30.99
90.0	2525.63	2384.44	2017.13	1496.25	869.74	461.03	357.19	142.20	11.14
135.0	2541.38	2409.19	2084.06	1567.13	906.75	475.31	372.94	155.76	11.81
180.0	2531.25	2345.06	1937.25	1438.88	786.66	443.48	340.26	119.76	9.90
225.0	2521.69	2313.00	1949.06	1303.31	800.21	451.52	341.21	126.90	10.24
270.0	2525.63	2423.25	2085.19	1644.19	1010.25	519.75	393.75	286.31	16.37
315.0	2541.38	2412.00	2085.75	1585.13	940.28	505.86	386.16	178.93	15.92
360.0	2531.25	2478.94	2189.81	1717.31	1094.06	563.06	402.19	286.31	34.65
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	8.27	5.96	5.57	5.23	5.01	4.89	4.84	4.84	4.89
45.0	7.59	5.91	5.51	5.23	5.06	5.01	5.23	5.74	5.01
90.0	6.69	5.68	5.34	5.12	4.89	4.84	4.73	4.73	4.78
135.0	7.37	5.79	5.40	5.18	4.89	4.78	4.67	4.61	4.56
180.0	6.53	5.79	5.34	5.12	4.95	4.84	4.73	4.67	4.61
225.0	6.53	5.79	5.40	5.12	5.01	4.89	5.23	5.06	4.78
270.0	8.10	5.91	5.46	5.18	5.01	4.89	4.73	4.84	4.73
315.0	7.65	5.91	5.46	5.18	4.95	4.84	4.78	4.73	4.73
360.0	8.27	5.96	5.57	5.23	5.01	4.89	4.84	4.84	4.89
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	4.44								
270.0	4.44								
315.0	4.44								
360.0	4.44								