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Nata

LumCAT: 1-1007-M
Luminaire: BJB 47.360.1020
Report No: NATA0100
Test No: GC2019101913
LampCAT: TRIDONIC SLE G7 9MM
Lamp flux(lm): 1539.0
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 35.0100
Current(A): 0.2970
Power (W): 10.3900
PF: 0.0000
Ballast type: DC
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 1174.41
Efficiency(%): 76.31%
Lumens(lm)/Power(W): 113.03
Central intensity(cd): 3866.344
Maximum intensity(cd): 3866.344
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=33.1
[C90/270]Total=33.1
Field angle(10%Imax): [C0/180]Total=49.2
[C90/270]Total=49.2
Maximum s/h(1/2): C0_180=0.56 C90_270=0.56
Maximum s/h(1/4): C0_180=0.52 C90_270=0.52
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 76.31%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.521%

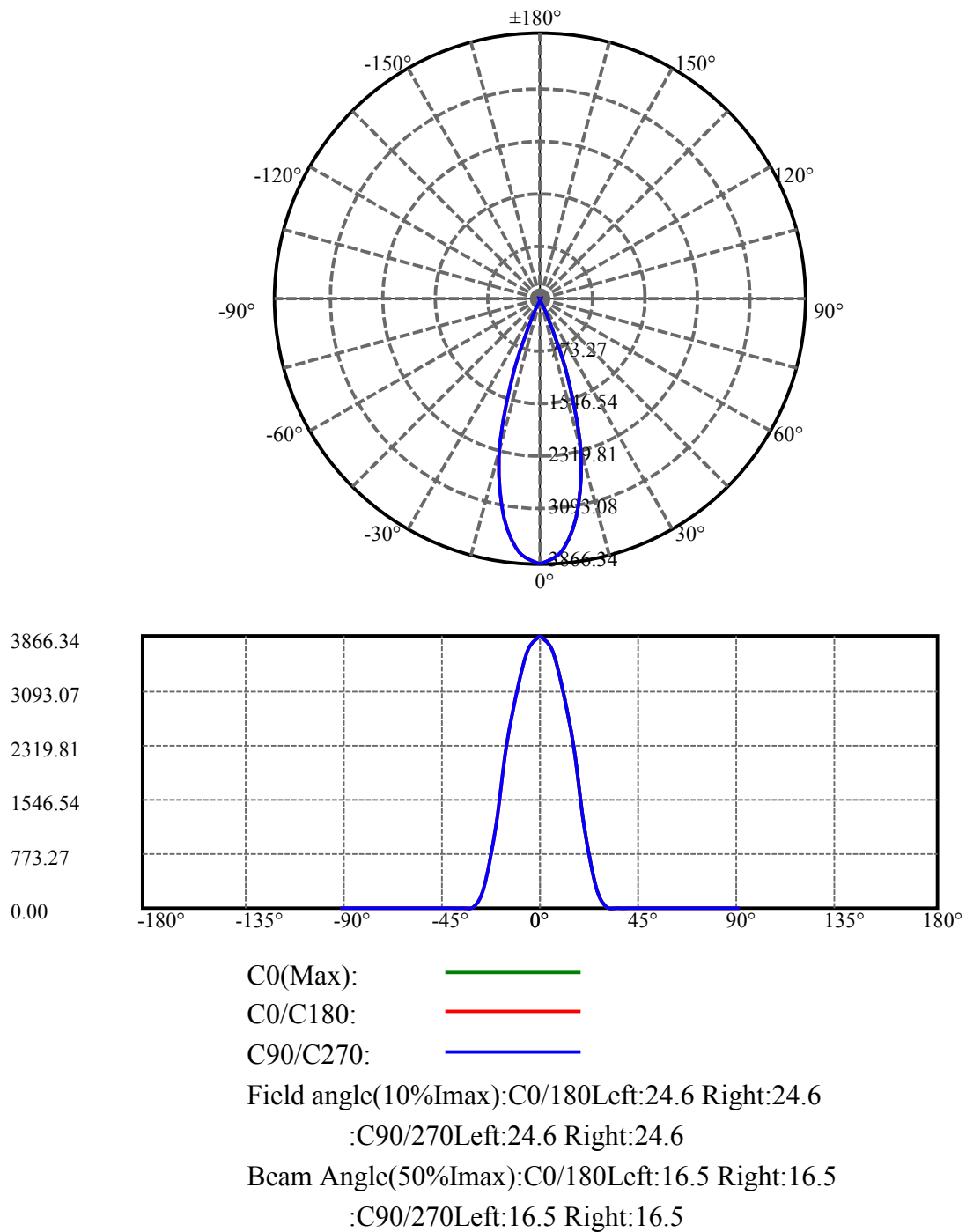
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3866.344	0.000	0	.000%	.000%
5.0	3677.414	90.183	90.183	5.860%	7.679%
10.0	3145.570	244.080	334.263	15.860%	28.462%
15.0	2270.531	321.279	655.543	20.876%	55.819%
20.0	1172.243	283.733	939.276	18.436%	79.979%
25.0	319.099	156.414	1095.69	10.163%	93.297%
30.0	22.493	43.229	1138.919	2.809%	96.978%
35.0	9.661	4.735	1143.654	.308%	97.381%
40.0	7.538	2.869	1146.523	.186%	97.626%
45.0	6.595	2.617	1149.14	.170%	97.849%
50.0	6.159	2.577	1151.717	.167%	98.068%
55.0	5.913	2.625	1154.342	.171%	98.292%
60.0	5.759	2.698	1157.04	.175%	98.521%
65.0	5.632	2.769	1159.809	.180%	98.757%
70.0	5.583	2.840	1162.649	.185%	98.999%
75.0	5.534	2.906	1165.554	.189%	99.246%
80.0	5.477	2.946	1168.501	.191%	99.497%
85.0	5.400	2.956	1171.456	.192%	99.749%
90.0	5.372	2.949	1174.406	.192%	100.000%

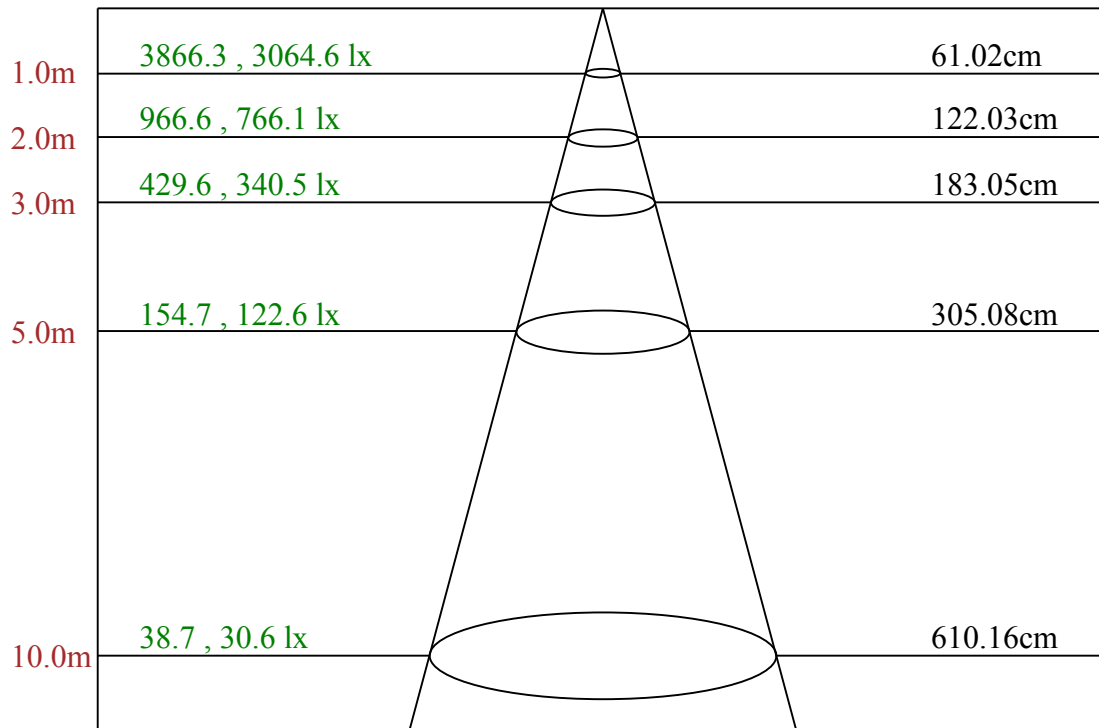
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1138.92	74.00%	96.98%
0-40	1146.52	74.50%	97.63%
0-60	1157.04	75.18%	98.52%
0-90	1171.46	76.12%	99.75%
0-120	1171.46	76.12%	99.75%
0-180	1174.41	76.31%	100.00%
60-90	17.11	1.11%	1.46%
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%
0-20.01	939.52	61.05%	80.00%

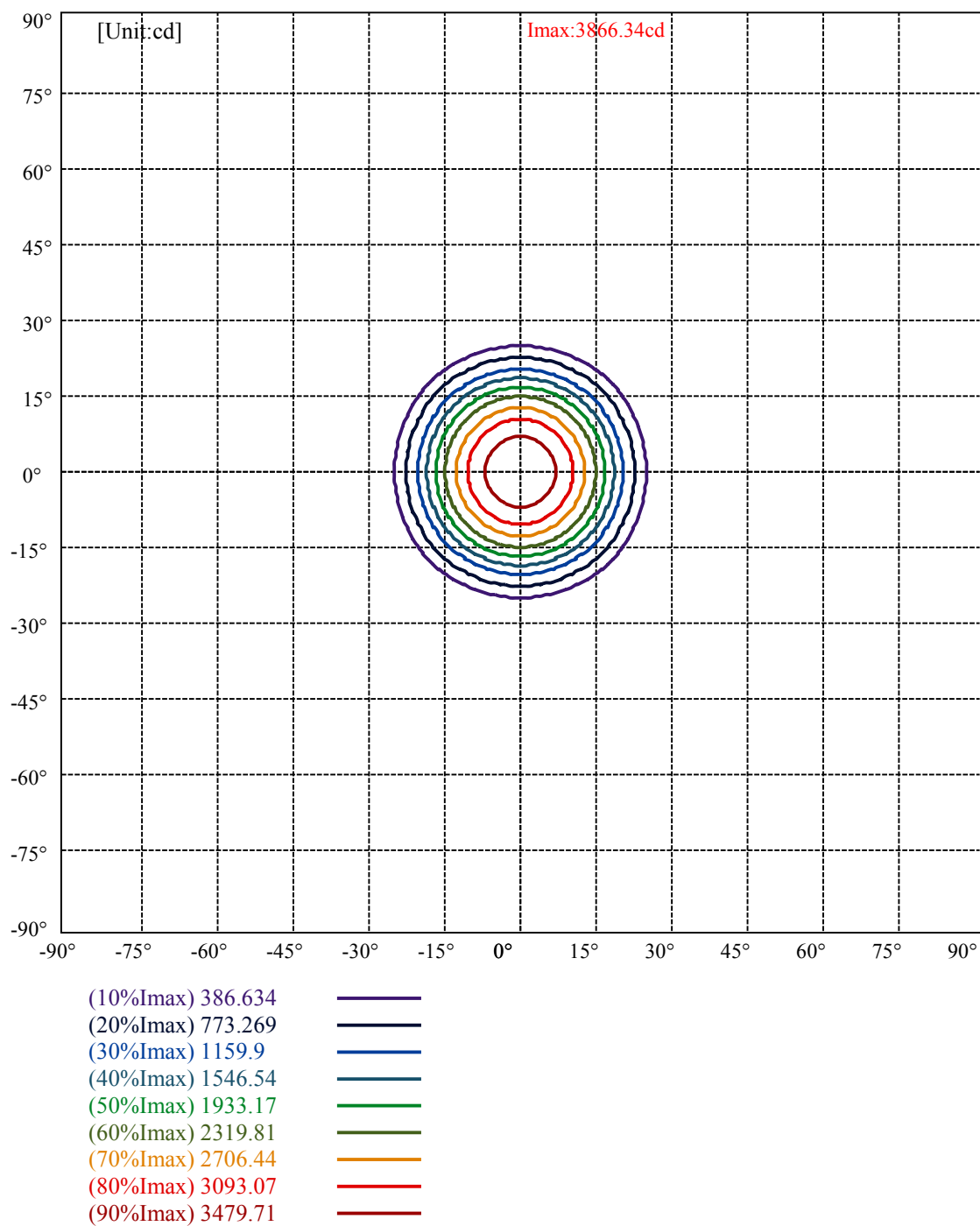
ZONAL LUMEN SUMMARY

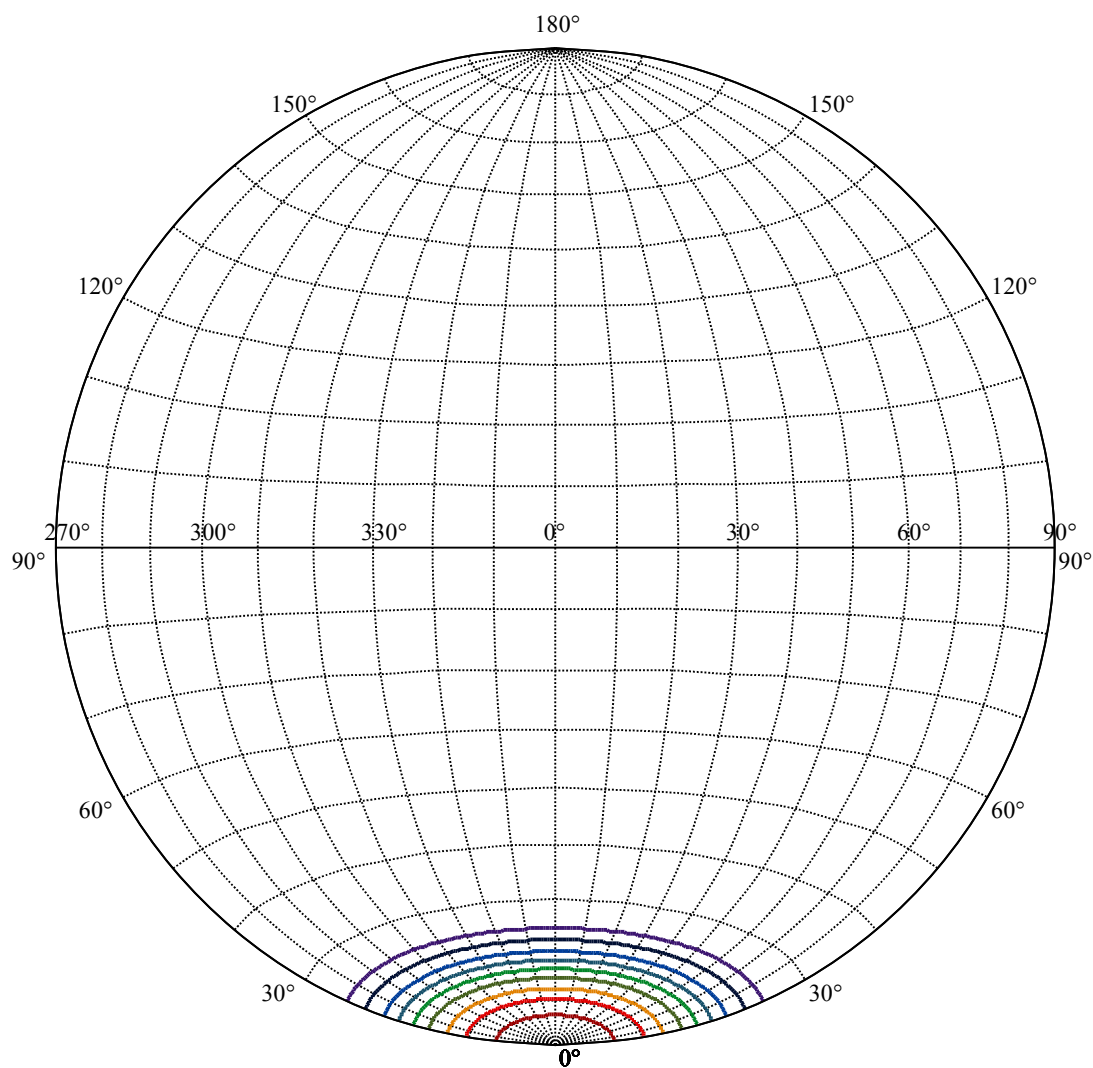
0-10	334.26
10-20	605.01
20-30	199.64
30-40	7.60
40-50	5.19
50-60	5.32
60-70	5.61
70-80	5.85
80-90	2.96
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C0 plane 33.93





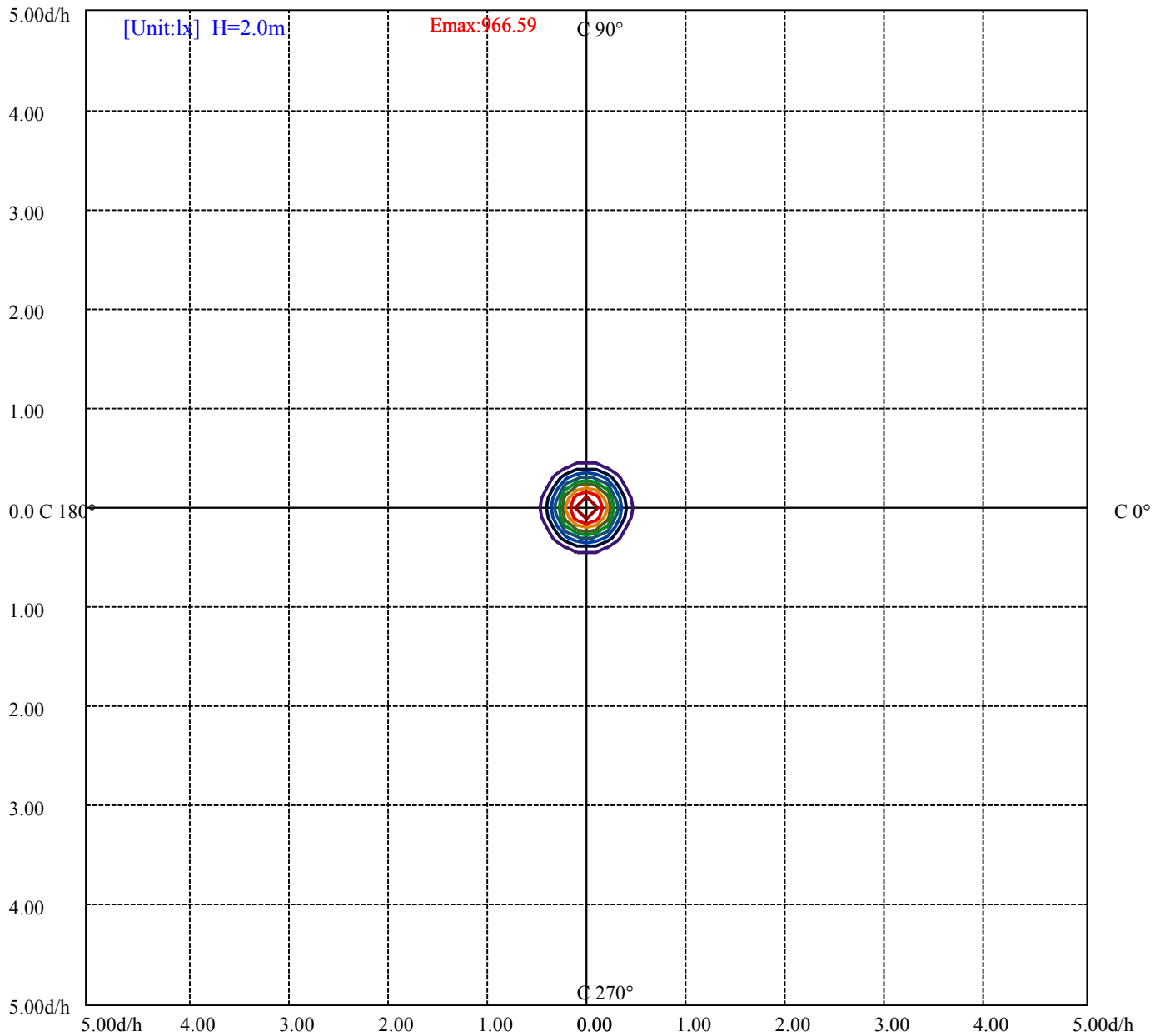
House

[Unit:cd]

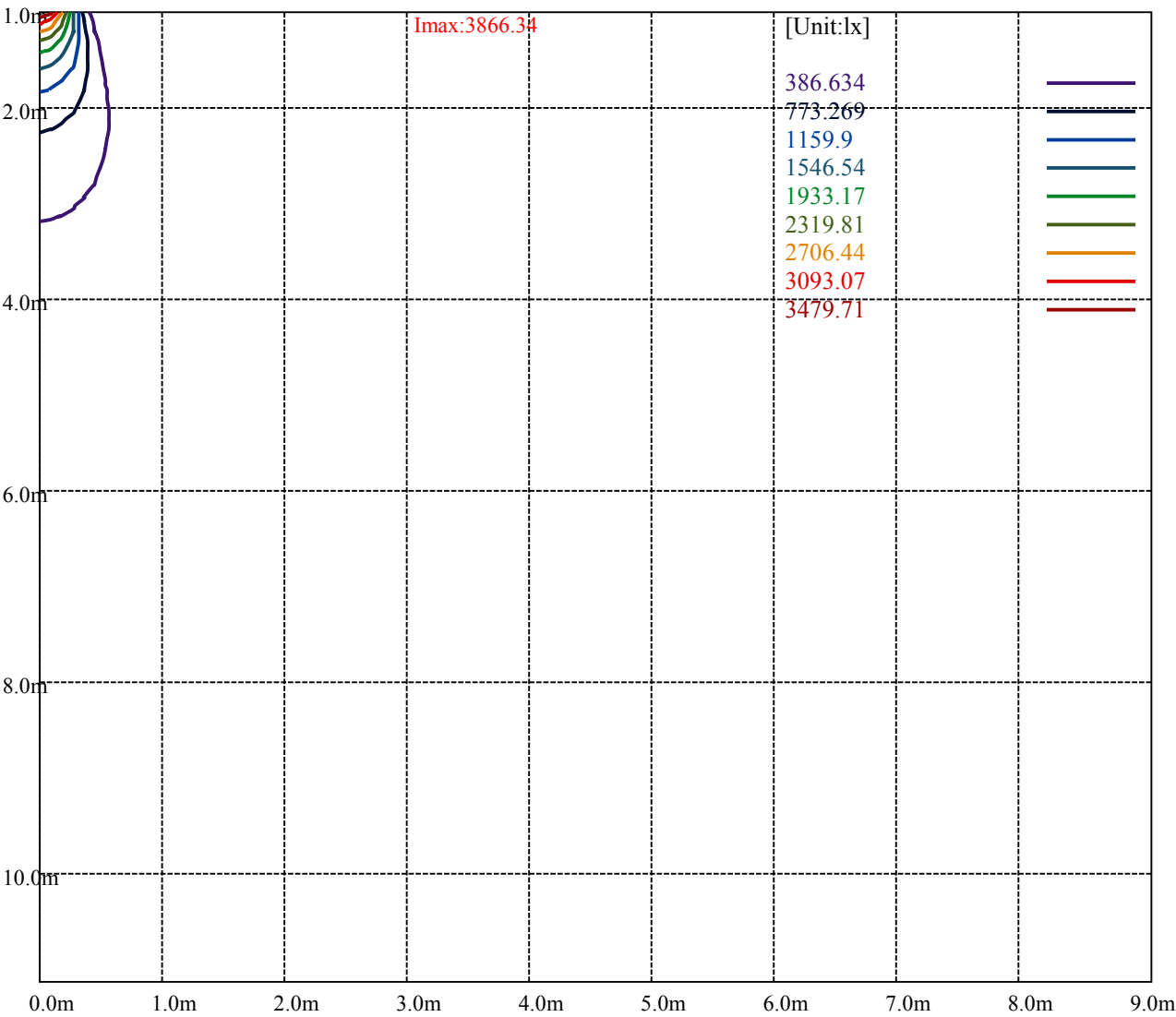
Road

Imax:3866.34

(10%Imax)	386.634	—
(20%Imax)	773.269	—
(30%Imax)	1159.9	—
(40%Imax)	1546.54	—
(50%Imax)	1933.17	—
(60%Imax)	2319.81	—
(70%Imax)	2706.44	—
(80%Imax)	3093.07	—
(90%Imax)	3479.71	—



(10%Emax)	96.6585	—
(20%Emax)	193.317	—
(30%Emax)	289.975	—
(40%Emax)	386.635	—
(50%Emax)	483.2925	—
(60%Emax)	579.95	—
(70%Emax)	676.61	—
(80%Emax)	773.2675	—
(90%Emax)	869.925	—



Luminance Table

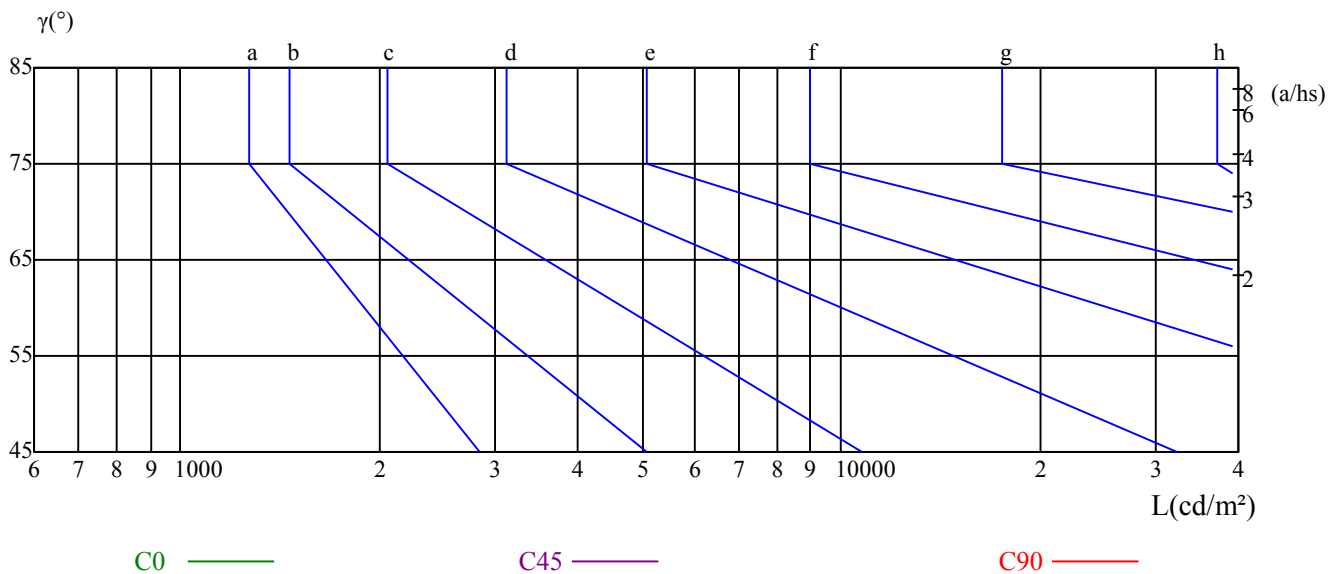
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

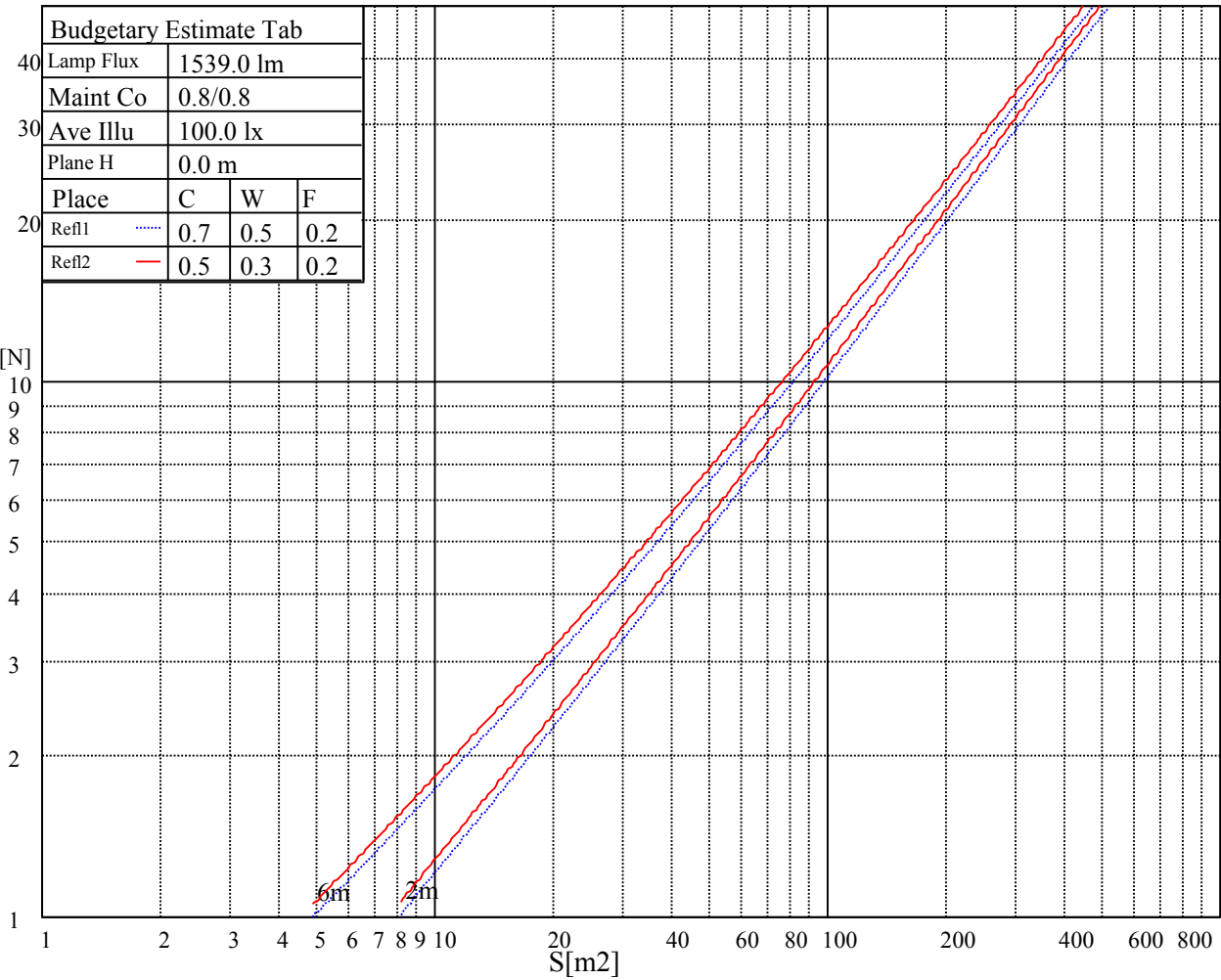
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

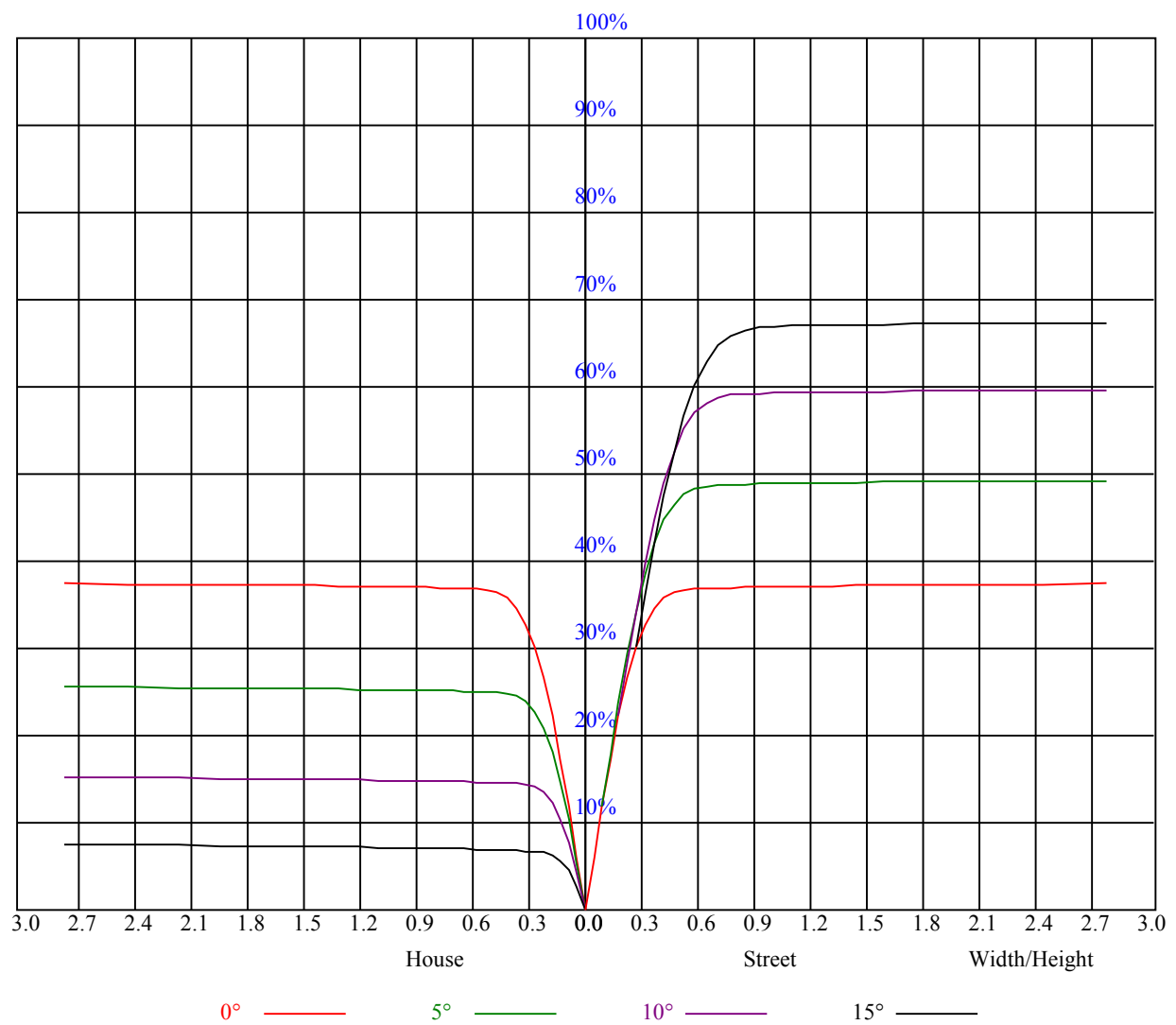
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

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	0.91	0.91	0.91	0.89	0.89	0.89	0.85	0.85	0.85	0.81	0.81	0.81	0.78	0.78	0.78	0.76
1	0.86	0.84	0.83	0.84	0.83	0.81	0.81	0.80	0.79	0.78	0.77	0.77	0.76	0.75	0.74	0.73
2	0.81	0.79	0.77	0.80	0.78	0.76	0.78	0.76	0.75	0.76	0.74	0.73	0.74	0.72	0.71	0.70
3	0.78	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.73	0.71	0.70	0.72	0.70	0.69	0.68
4	0.75	0.72	0.69	0.74	0.71	0.69	0.72	0.70	0.68	0.71	0.69	0.67	0.70	0.68	0.66	0.66
5	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.69	0.67	0.65	0.68	0.66	0.64	0.63
6	0.69	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.64	0.63	0.66	0.64	0.62	0.61
7	0.67	0.64	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.61	0.64	0.62	0.60	0.59
8	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.63	0.60	0.59	0.62	0.60	0.58	0.58
9	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.57	0.61	0.58	0.57	0.56
10	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.57	0.55	0.54



Nata 1-1007-M

Intensity data(cd)										Appendix Page: 14 Total:14
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	
0.0	3869.44	3629.25	3065.63	2135.81	1146.38	313.88	16.37	9.23	7.26	
45.0	3868.88	3633.19	3075.19	2198.81	1146.38	308.25	16.93	9.17	7.37	
90.0	3864.94	3639.38	3079.69	2154.38	1098.90	219.99	17.33	9.34	7.54	
135.0	3862.69	3781.69	3328.88	2512.69	1484.44	469.69	32.63	10.46	7.99	
180.0	3868.31	3733.31	3215.25	2374.31	1097.16	369.79	26.04	9.90	7.54	
225.0	3868.88	3724.31	3212.44	2356.88	1077.02	353.14	27.23	10.07	7.71	
270.0	3864.94	3696.75	3233.81	2396.81	1353.94	382.50	27.90	10.24	7.76	
315.0	3862.69	3581.44	2953.69	2034.56	973.74	135.56	15.53	8.89	7.14	
360.0	3869.44	3629.25	3065.63	2135.81	1146.38	313.88	16.37	9.23	7.26	
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	
0.0	6.41	6.02	5.79	5.63	5.51	5.46	5.34	5.34	5.29	
45.0	6.64	6.24	6.02	5.85	5.74	5.68	5.63	5.57	5.46	
90.0	6.69	6.30	6.08	5.91	5.79	5.79	5.74	5.51	5.46	
135.0	6.81	6.30	6.02	5.85	5.68	5.57	5.51	5.51	5.40	
180.0	6.53	6.08	5.79	5.63	5.46	5.40	5.40	5.34	5.34	
225.0	6.58	6.13	5.85	5.74	5.63	5.57	5.51	5.51	5.40	
270.0	6.69	6.19	5.96	5.79	5.68	5.68	5.63	5.57	5.46	
315.0	6.41	6.02	5.79	5.68	5.57	5.51	5.51	5.46	5.40	
360.0	6.41	6.02	5.79	5.63	5.51	5.46	5.34	5.34	5.29	
C/γ(°)	90.0									
0.0	5.29									
45.0	5.40									
90.0	5.40									
135.0	5.40									
180.0	5.29									
225.0	5.40									
270.0	5.46									
315.0	5.34									
360.0	5.29									