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Nata

LumCAT: 1-0920-M
Luminaire: 92.70.124.00
Report No: NATA0100
Test No: GC2019092112
LampCAT: BRIDGELUX V10B LES10
Lamp flux(lm): 1244.0
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 33.3700
Current(A): 0.2470
Power (W): 8.2400
PF: 0.0000
Ballast type: DC
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 953.01
Efficiency(%): 76.61%
Lumens(lm)/Power(W): 115.66
Central intensity(cd): 2988.422
Maximum intensity(cd): 2988.422
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=34.1
[C90/270]Total=34.1
Field angle(10%Imax): [C0/180]Total=49.6
[C90/270]Total=49.6
Maximum s/h(1/2): C0_180=0.57 C90_270=0.57
Maximum s/h(1/4): C0_180=0.54 C90_270=0.54
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 76.61%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.535%

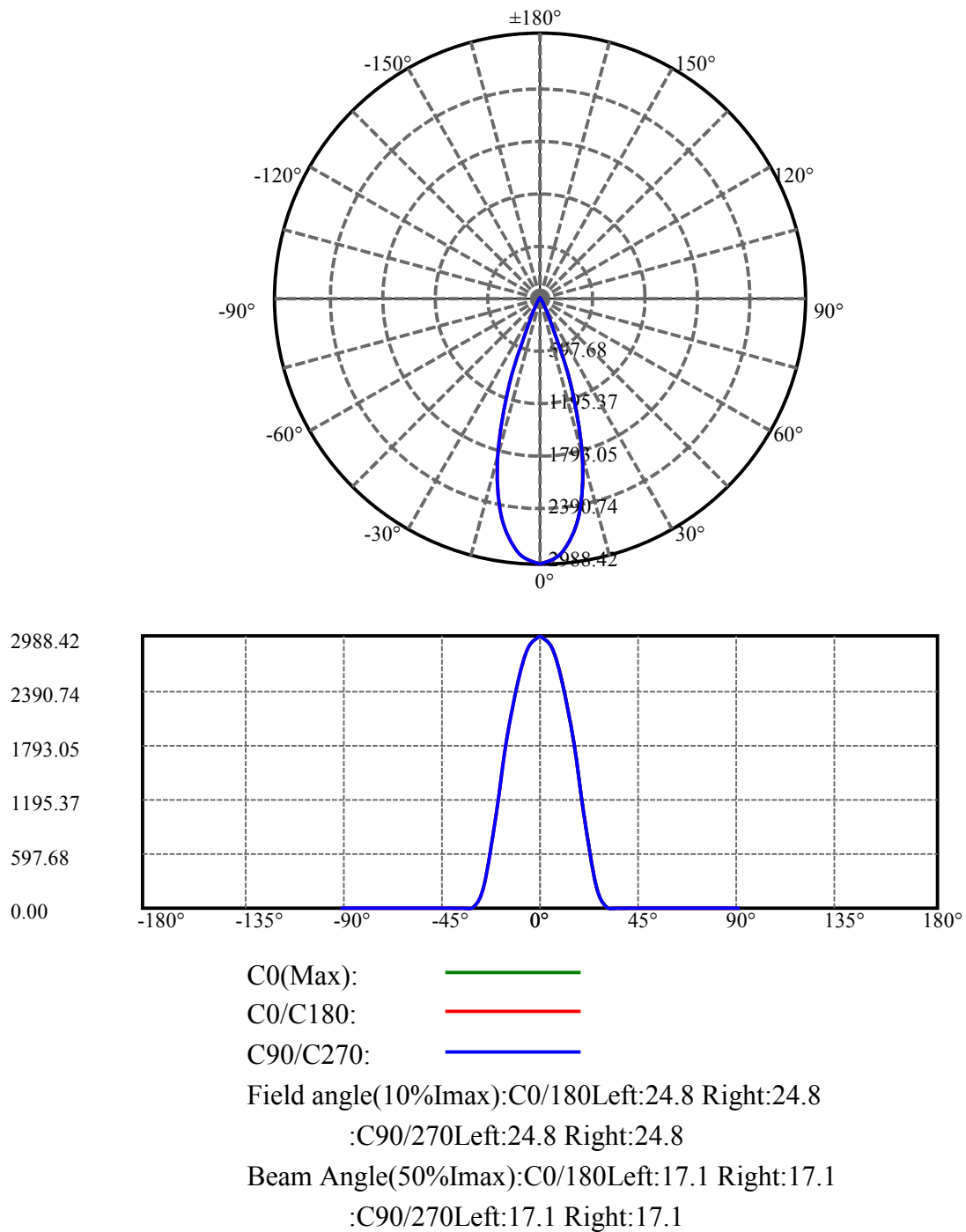
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2988.422	0.000	0	.000%	.000%
5.0	2861.578	69.935	69.935	5.622%	7.338%
10.0	2479.781	191.077	261.012	15.360%	27.388%
15.0	1824.328	255.317	516.329	20.524%	54.179%
20.0	1020.691	234.470	750.799	18.848%	78.782%
25.0	268.334	135.195	885.994	10.868%	92.968%
30.0	24.335	37.037	923.031	2.977%	96.855%
35.0	8.641	4.856	927.887	.390%	97.364%
40.0	6.455	2.519	930.406	.202%	97.629%
45.0	5.505	2.215	932.62	.178%	97.861%
50.0	5.034	2.130	934.75	.171%	98.084%
55.0	4.753	2.128	936.878	.171%	98.308%
60.0	4.613	2.165	939.043	.174%	98.535%
65.0	4.514	2.219	941.262	.178%	98.768%
70.0	4.451	2.270	943.532	.182%	99.006%
75.0	4.423	2.319	945.851	.186%	99.249%
80.0	4.402	2.361	948.212	.190%	99.497%
85.0	4.395	2.390	950.602	.192%	99.748%
90.0	4.380	2.403	953.005	.193%	100.000%

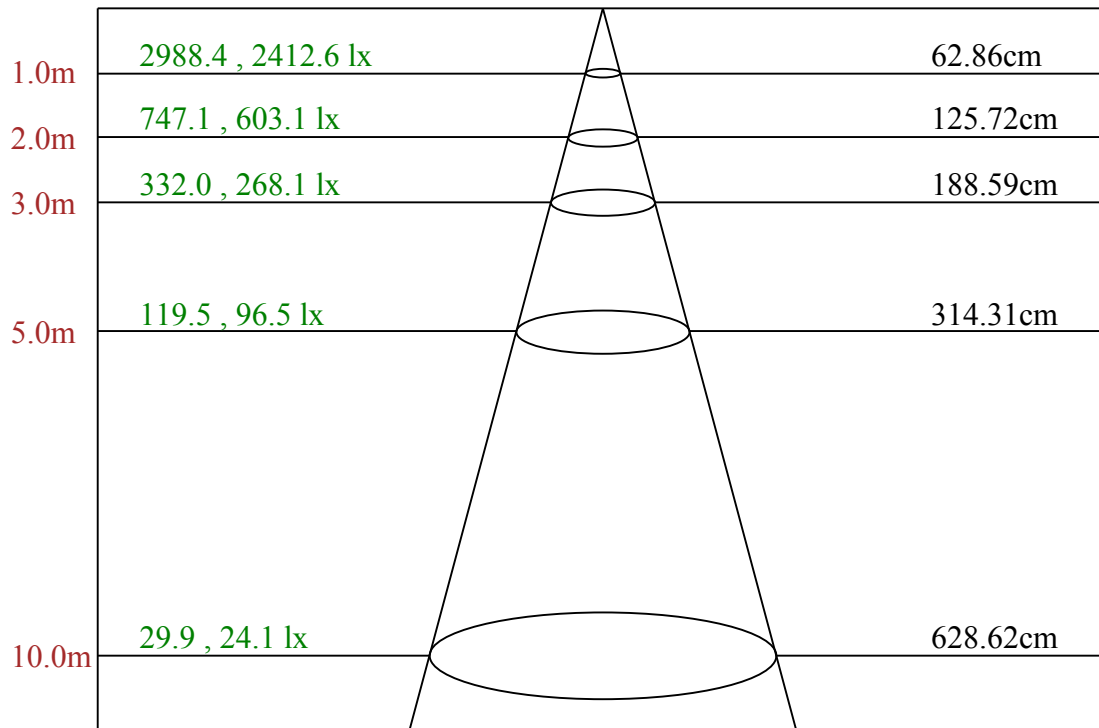
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	923.03	74.20%	96.85%
0-40	930.41	74.79%	97.63%
0-60	939.04	75.49%	98.53%
0-90	950.60	76.41%	99.75%
0-120	950.60	76.41%	99.75%
0-180	953.01	76.61%	100.00%
60-90	13.72	1.10%	1.44%
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%
0-20.43	762.40	61.29%	80.00%

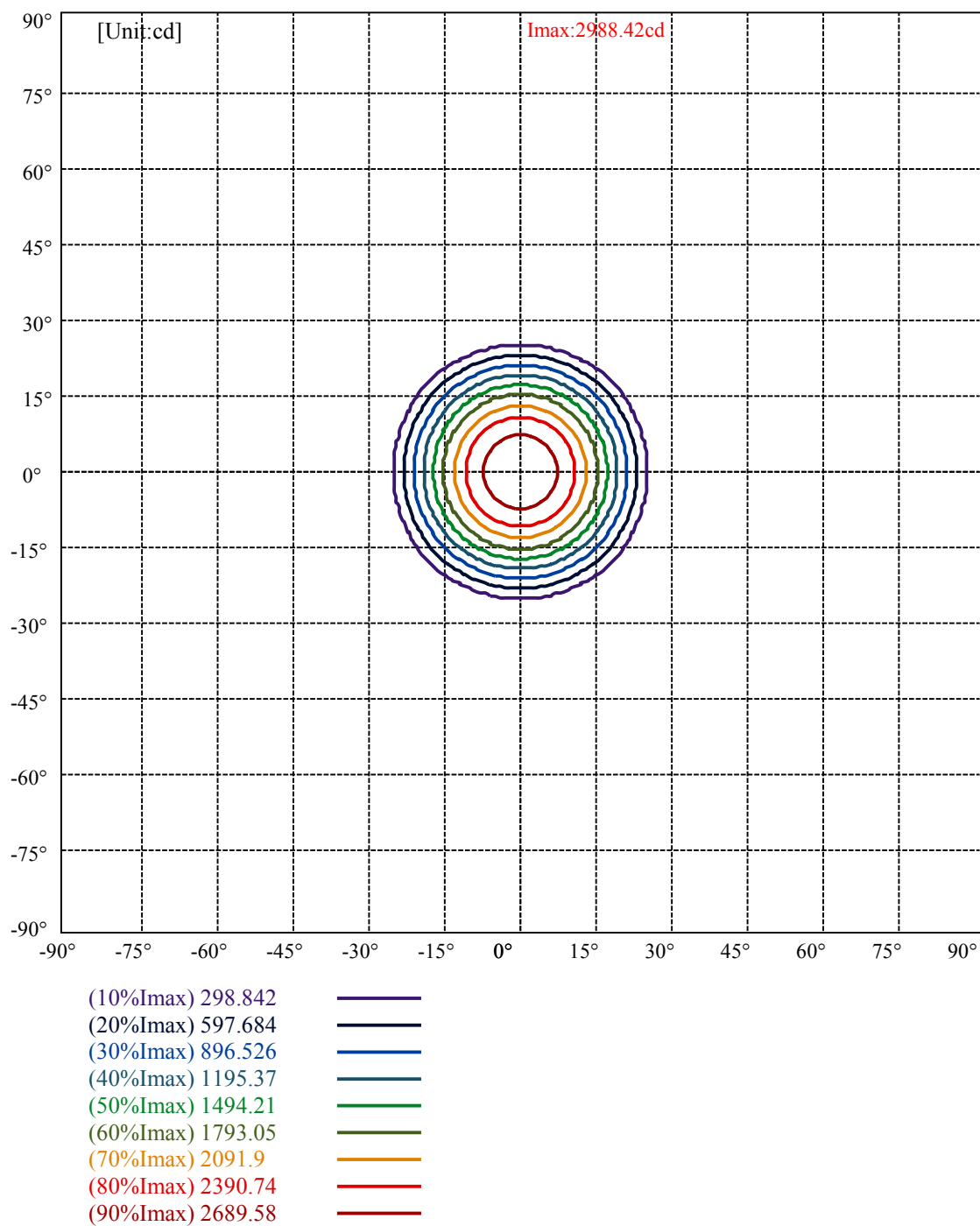
ZONAL LUMEN SUMMARY

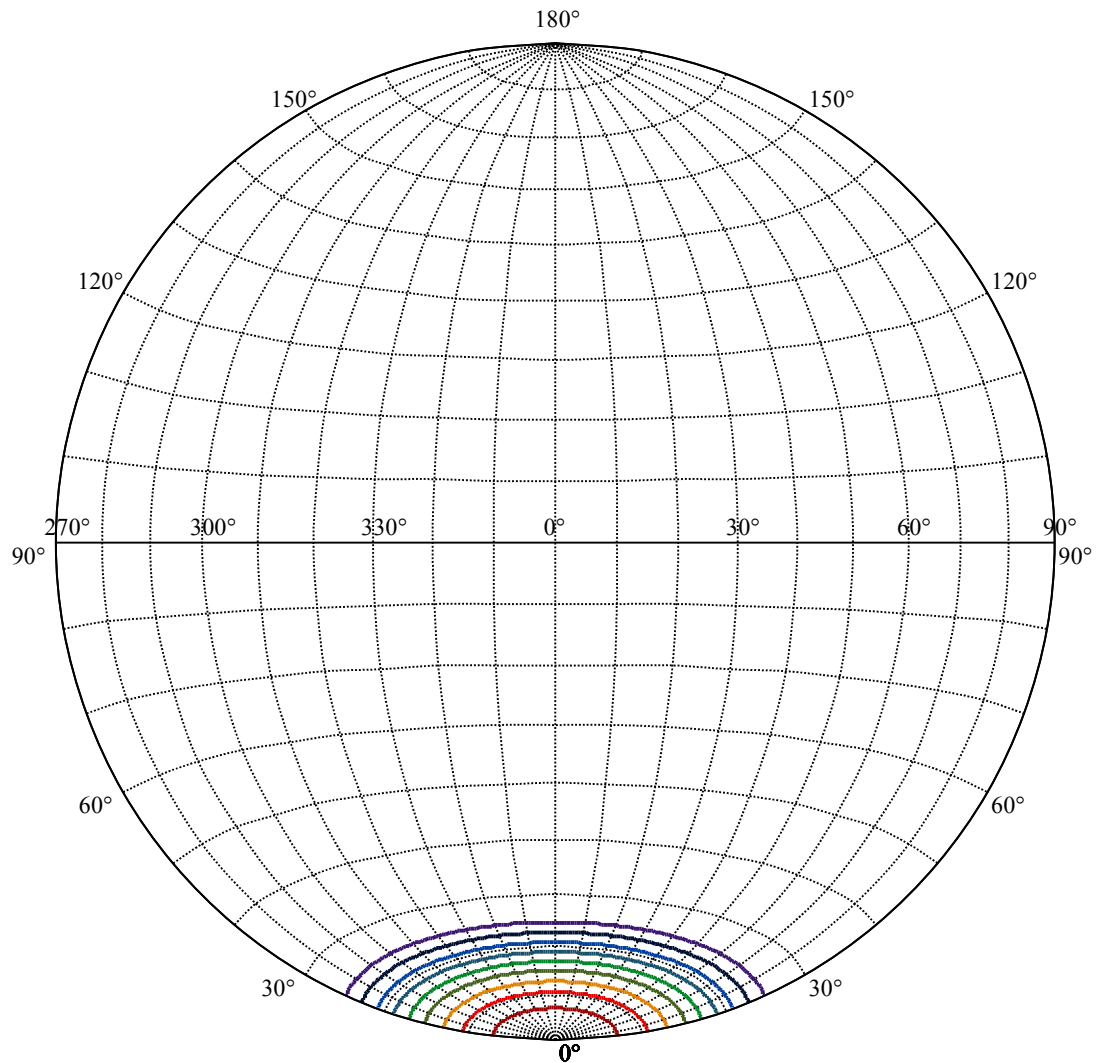
0-10	261.01
10-20	489.79
20-30	172.23
30-40	7.37
40-50	4.34
50-60	4.29
60-70	4.49
70-80	4.68
80-90	2.39
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C0 plane 34.90





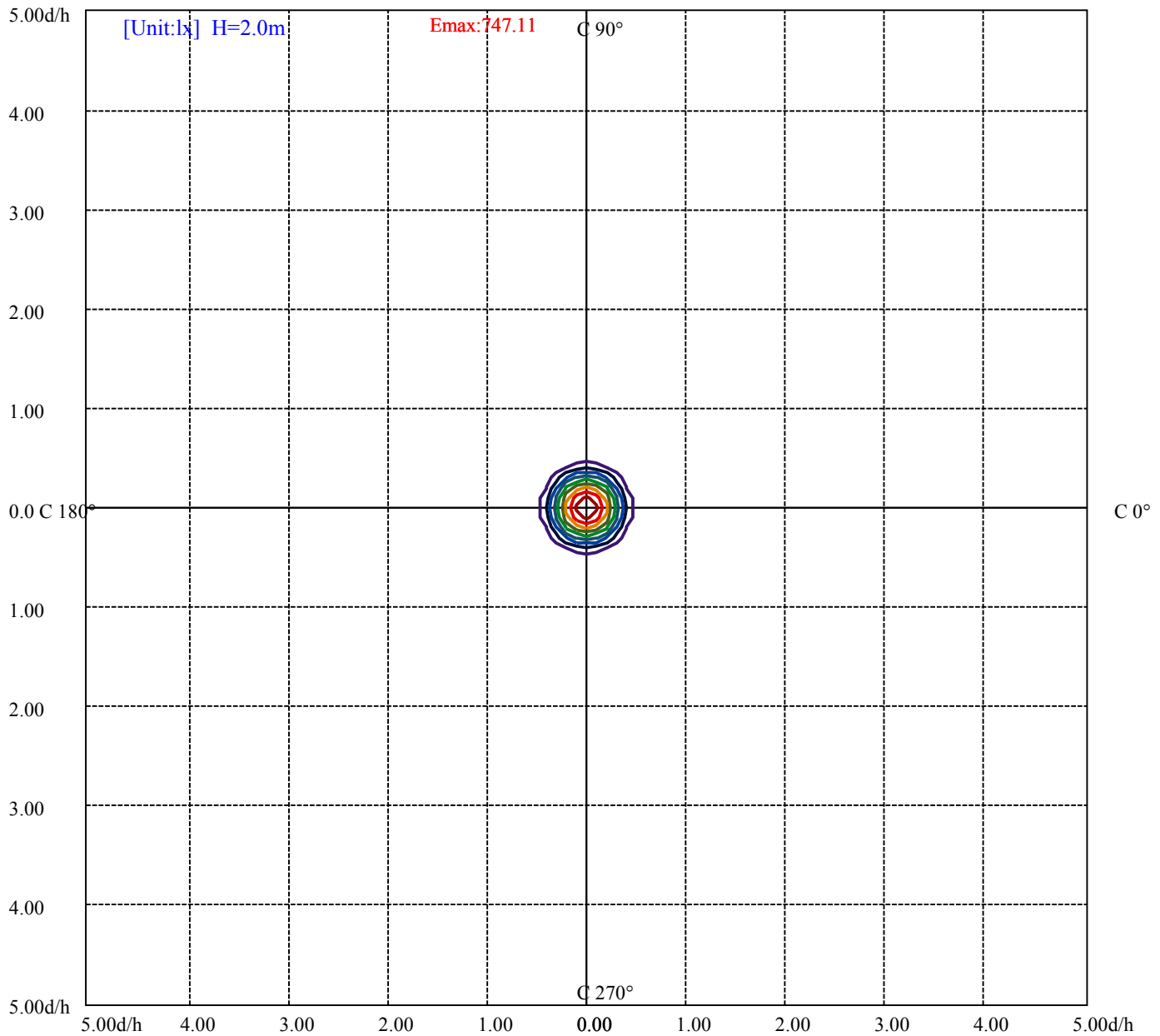
House

[Unit:cd]

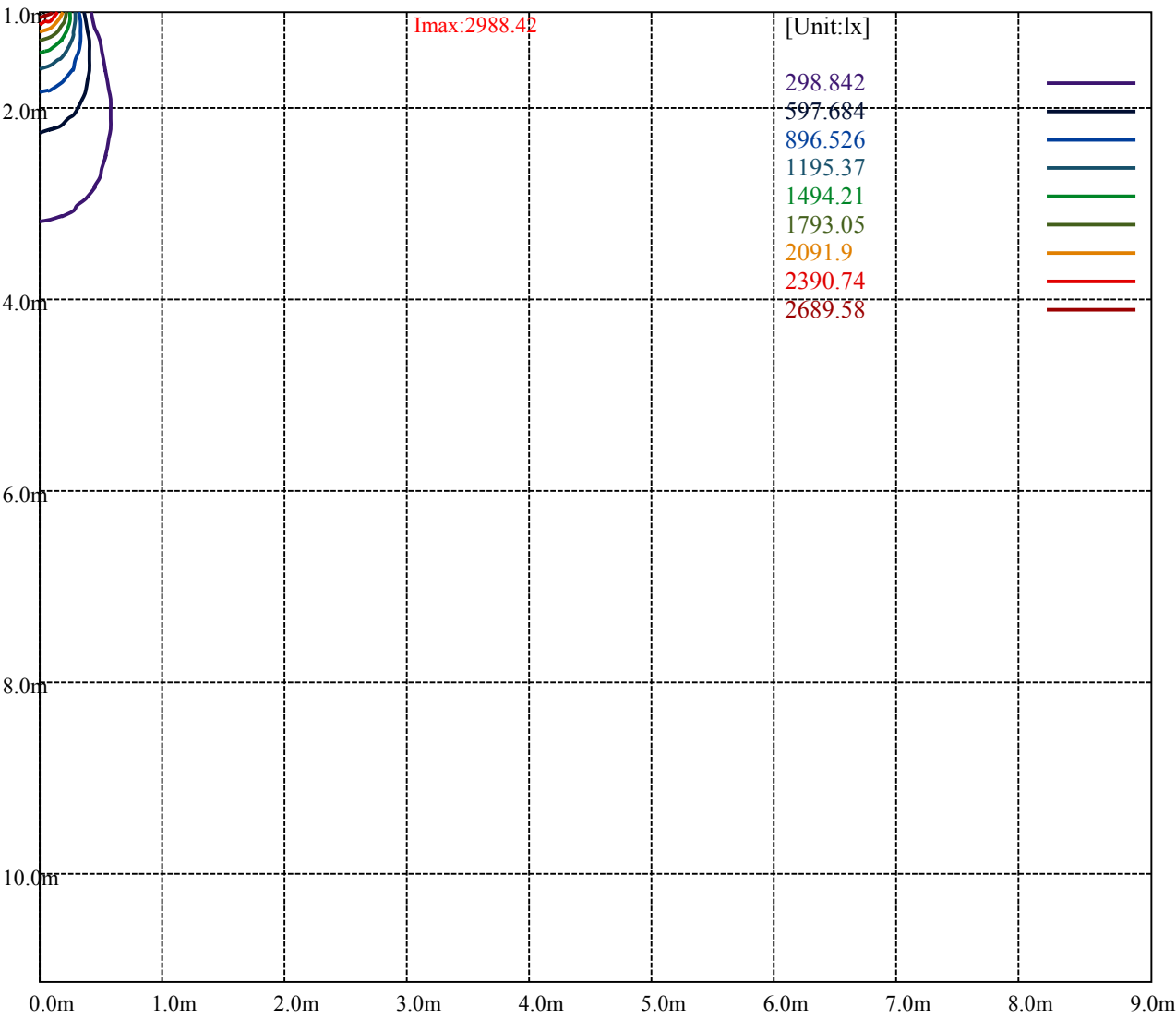
Road

Imax:2988.42

(10%Imax)	298.842	—
(20%Imax)	597.684	—
(30%Imax)	896.526	—
(40%Imax)	1195.37	—
(50%Imax)	1494.21	—
(60%Imax)	1793.05	—
(70%Imax)	2091.9	—
(80%Imax)	2390.74	—
(90%Imax)	2689.58	—



(10%Emax)	74.7105	—
(20%Emax)	149.421	—
(30%Emax)	224.1313	—
(40%Emax)	298.8425	—
(50%Emax)	373.5525	—
(60%Emax)	448.2625	—
(70%Emax)	522.9725	—
(80%Emax)	597.6825	—
(90%Emax)	672.395	—



Luminance Table

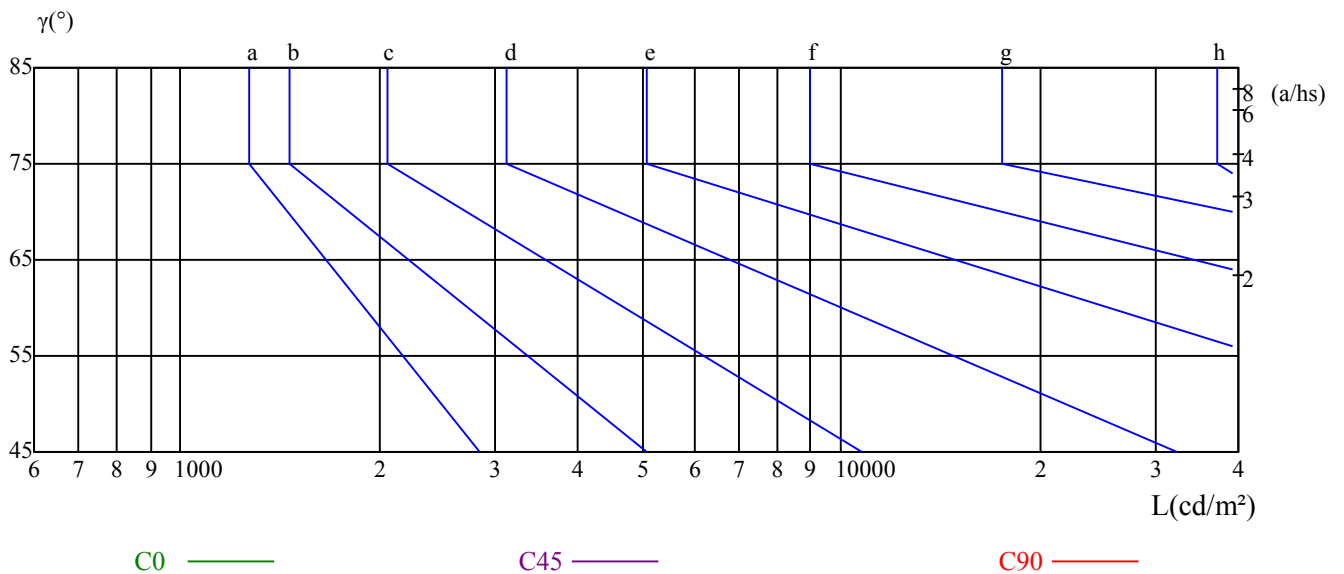
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

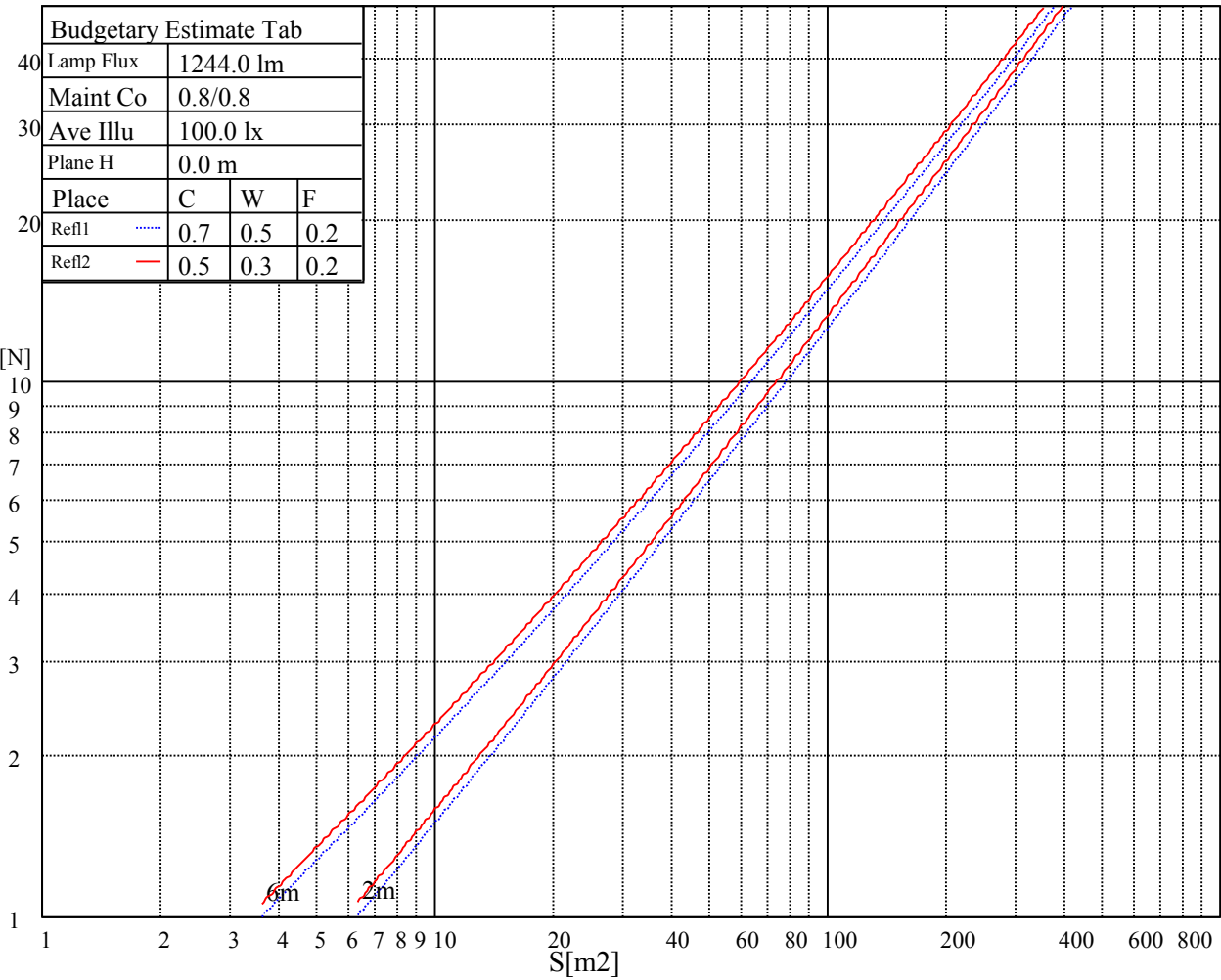
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

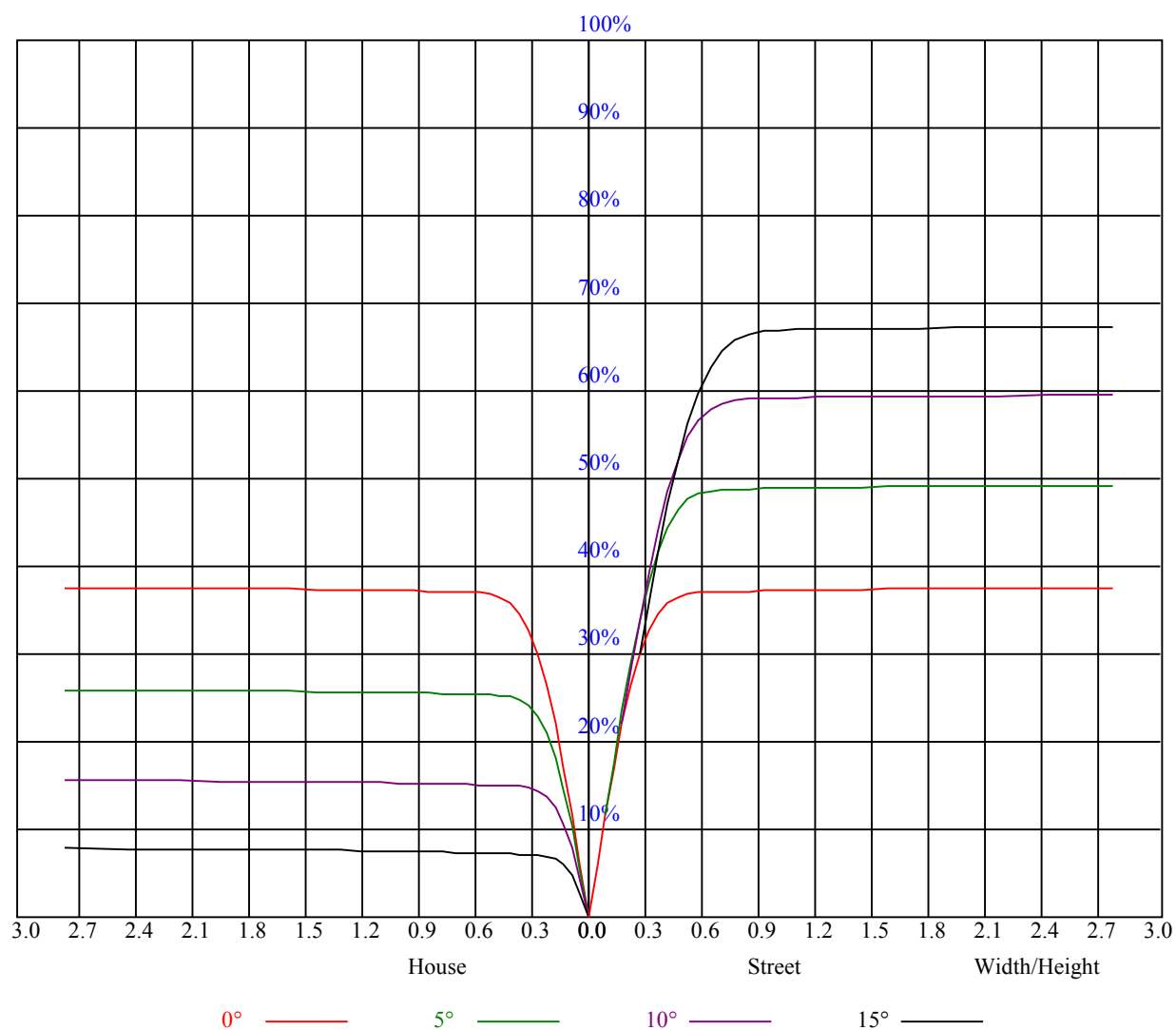
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

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	0.77
1	0.86	0.84	0.83	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76	0.75	0.75	0.73
2	0.82	0.79	0.77	0.80	0.78	0.76	0.78	0.76	0.75	0.76	0.74	0.73	0.74	0.73	0.72	0.70
3	0.78	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.73	0.72	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	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.64	0.62	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	0.60	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	0.58	0.62	0.60	0.58	0.57
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	0.57	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.57	0.55	0.59	0.57	0.55	0.54



Nata 1-0920-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	2985.75	2858.63	2492.44	1877.06	1077.19	308.25	25.59	8.83	6.47	
45.0	2989.13	2850.75	2494.69	1837.13	1034.44	288.00	26.94	9.00	6.69	
90.0	2988.00	2811.38	2385.56	1723.50	907.26	185.74	22.84	8.66	6.47	
135.0	2990.81	2889.00	2536.88	1882.13	1123.88	321.75	31.28	9.56	6.81	
180.0	2985.75	2865.94	2460.38	1777.50	952.43	236.19	22.39	8.33	6.41	
225.0	2989.13	2862.56	2485.69	1805.06	987.36	253.69	21.66	8.21	6.24	
270.0	2988.00	2909.25	2558.25	1968.19	1127.81	352.69	26.89	8.49	6.41	
315.0	2990.81	2845.13	2424.38	1724.06	955.18	200.36	17.10	8.04	6.13	
360.0	2985.75	2858.63	2492.44	1877.06	1077.19	308.25	25.59	8.83	6.47	
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	
0.0	5.57	5.06	4.73	4.61	4.50	4.44	4.44	4.39	4.39	
45.0	5.57	5.06	4.78	4.61	4.50	4.44	4.39	4.39	4.39	
90.0	5.57	5.06	4.78	4.61	4.56	4.50	4.50	4.50	4.39	
135.0	5.68	5.12	4.84	4.67	4.56	4.44	4.44	4.39	4.39	
180.0	5.46	5.06	4.73	4.61	4.50	4.44	4.39	4.39	4.39	
225.0	5.40	4.95	4.73	4.56	4.50	4.44	4.39	4.39	4.39	
270.0	5.46	5.01	4.73	4.61	4.50	4.44	4.44	4.39	4.44	
315.0	5.34	4.95	4.73	4.61	4.50	4.44	4.39	4.39	4.39	
360.0	5.57	5.06	4.73	4.61	4.50	4.44	4.44	4.39	4.39	
C/γ(°)	90.0									
0.0	4.39									
45.0	4.33									
90.0	4.39									
135.0	4.39									
180.0	4.39									
225.0	4.39									
270.0	4.39									
315.0	4.39									
360.0	4.39									