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Nata

LumCAT: 1436-N

Luminaire: 92.70.043.00+92.70.147.00

Report No: NATA0100

Test No: GC2018080607

LampCAT: LUMINUS CXM-6-AC30

Lamp flux(lm): 983.0

Number of Lamps: 1

Length(mm): 46

Phm Type: C

Voltage(V): 34.7000

Current(A): 0.2000

Power (W): 6.9400

PF: 0.0000

Ballast type: DC

Width(mm): 46

Height(mm): 0

Photometric Results

Lumens(lm): 798.01

Efficiency(%): 81.18%

Lumens(lm)/Power(W): 117.66

Central intensity(cd): 3226.305

Maximum intensity(cd): 3226.305

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=22.2

[C90/270]Total=22.2

Field angle(10%Imax): [C0/180]Total=47.2

[C90/270]Total=47.2

Maximum s/h(1/2): C0_180=0.38 C90_270=0.38

Maximum s/h(1/4): C0_180=0.38 C90_270=0.38

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 83.07%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 94.722%

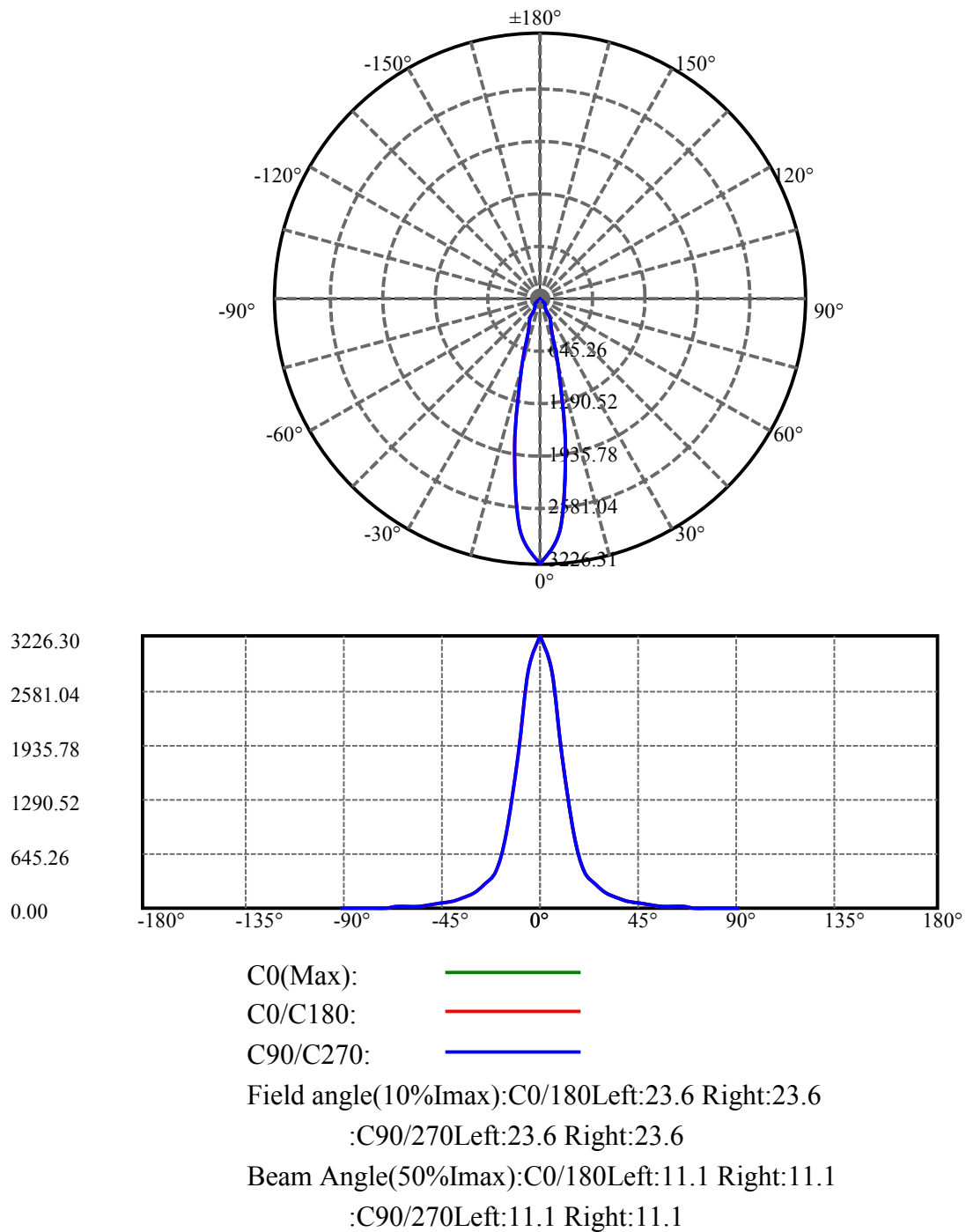
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3226.305	19.294	19.294	1.963%	2.418%
5.0	2805.124	134.010	153.304	13.633%	19.211%
10.0	1811.562	172.430	325.734	17.541%	40.818%
15.0	889.182	126.147	451.881	12.833%	56.626%
20.0	434.987	81.549	533.43	8.296%	66.845%
25.0	279.838	64.825	598.255	6.595%	74.968%
30.0	182.574	50.038	648.293	5.090%	81.238%
35.0	120.863	37.999	686.292	3.866%	86.000%
40.0	83.225	29.323	715.615	2.983%	89.674%
45.0	56.178	21.774	737.389	2.215%	92.403%
50.0	39.214	16.466	753.855	1.675%	94.466%
55.0	26.028	11.687	765.541	1.189%	95.931%
60.0	16.661	7.909	773.451	.805%	96.922%
65.0	11.507	5.716	779.167	.582%	97.638%
70.0	9.917	5.108	784.275	.520%	98.278%
75.0	8.802	4.660	788.935	.474%	98.862%
80.0	7.859	4.243	793.178	.432%	99.394%
85.0	7.102	3.878	797.056	.395%	99.880%
90.0	3.496	0.958	798.014	.097%	100.000%

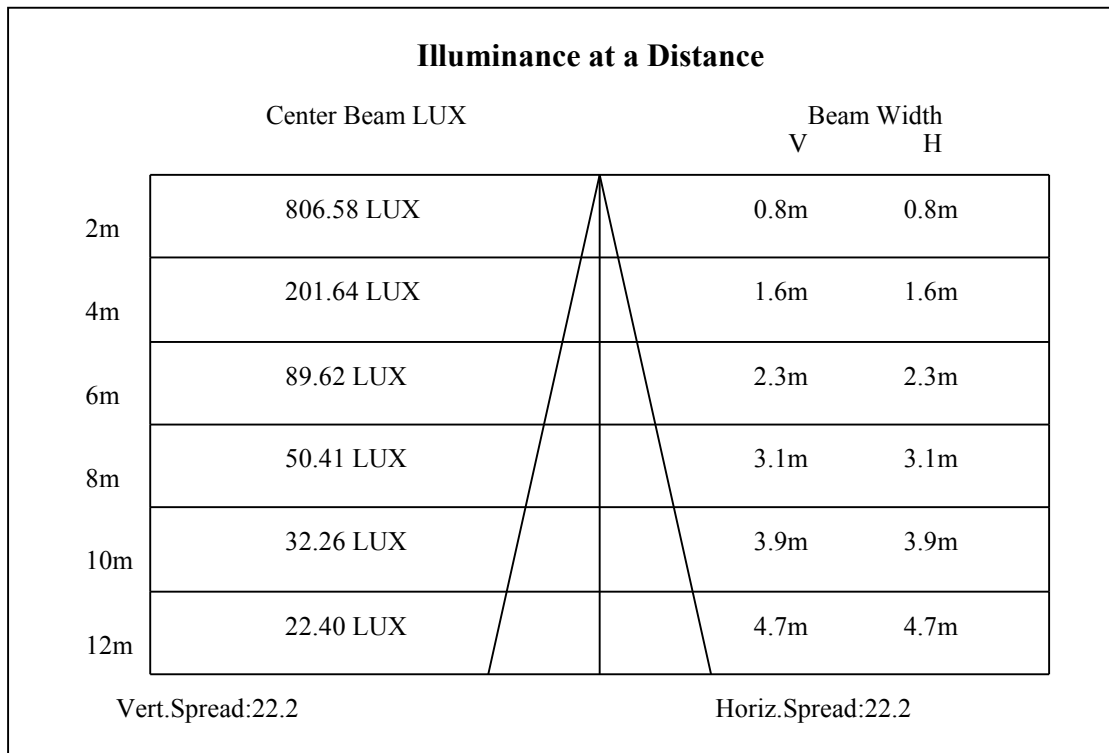
ZONAL LUMEN SUMMARY

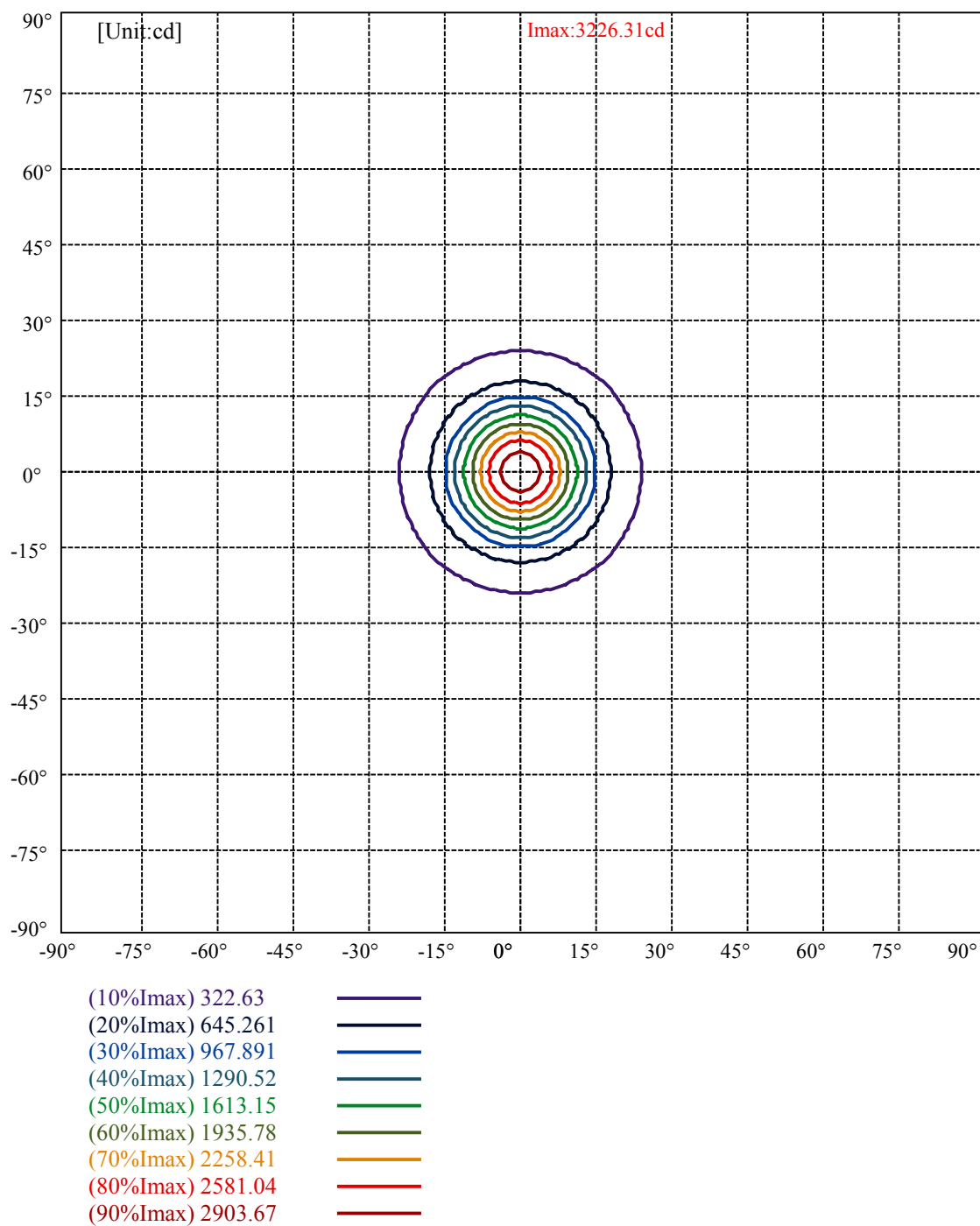
Zone	Lumens	%Lamp	%Fixt
0-30	648.29	65.95%	81.24%
0-40	715.61	72.80%	89.67%
0-60	773.45	78.68%	96.92%
0-90	797.06	81.08%	99.88%
0-120	797.06	81.08%	99.88%
0-180	798.01	81.18%	100.00%
60-90	31.51	3.21%	3.95%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.01	638.41	64.95%	80.00%

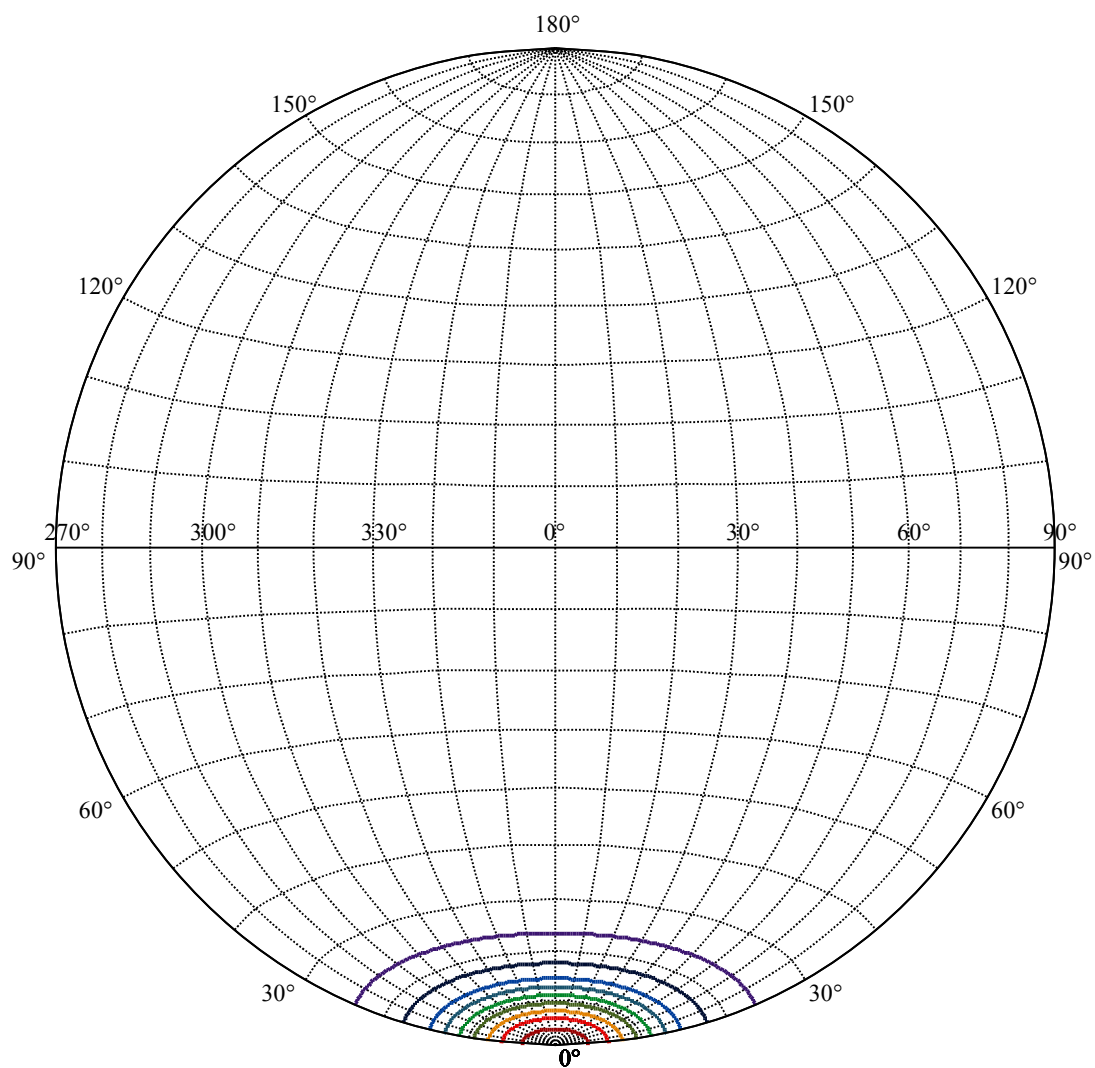
ZONAL LUMEN SUMMARY

0-10	325.73
10-20	207.70
20-30	114.86
30-40	67.32
40-50	38.24
50-60	19.60
60-70	10.82
70-80	8.90
80-90	3.88
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









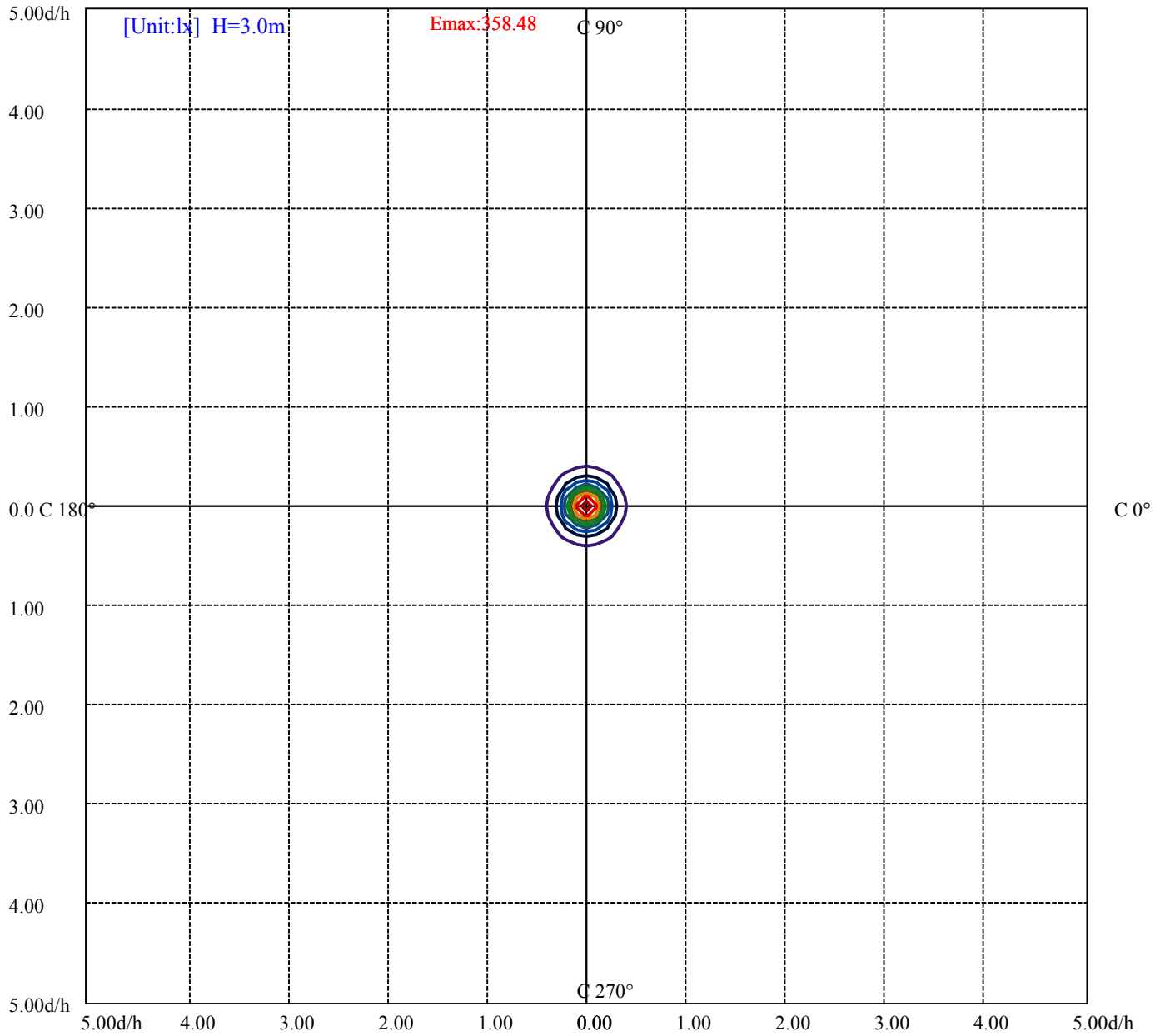
House

[Unit:cd]

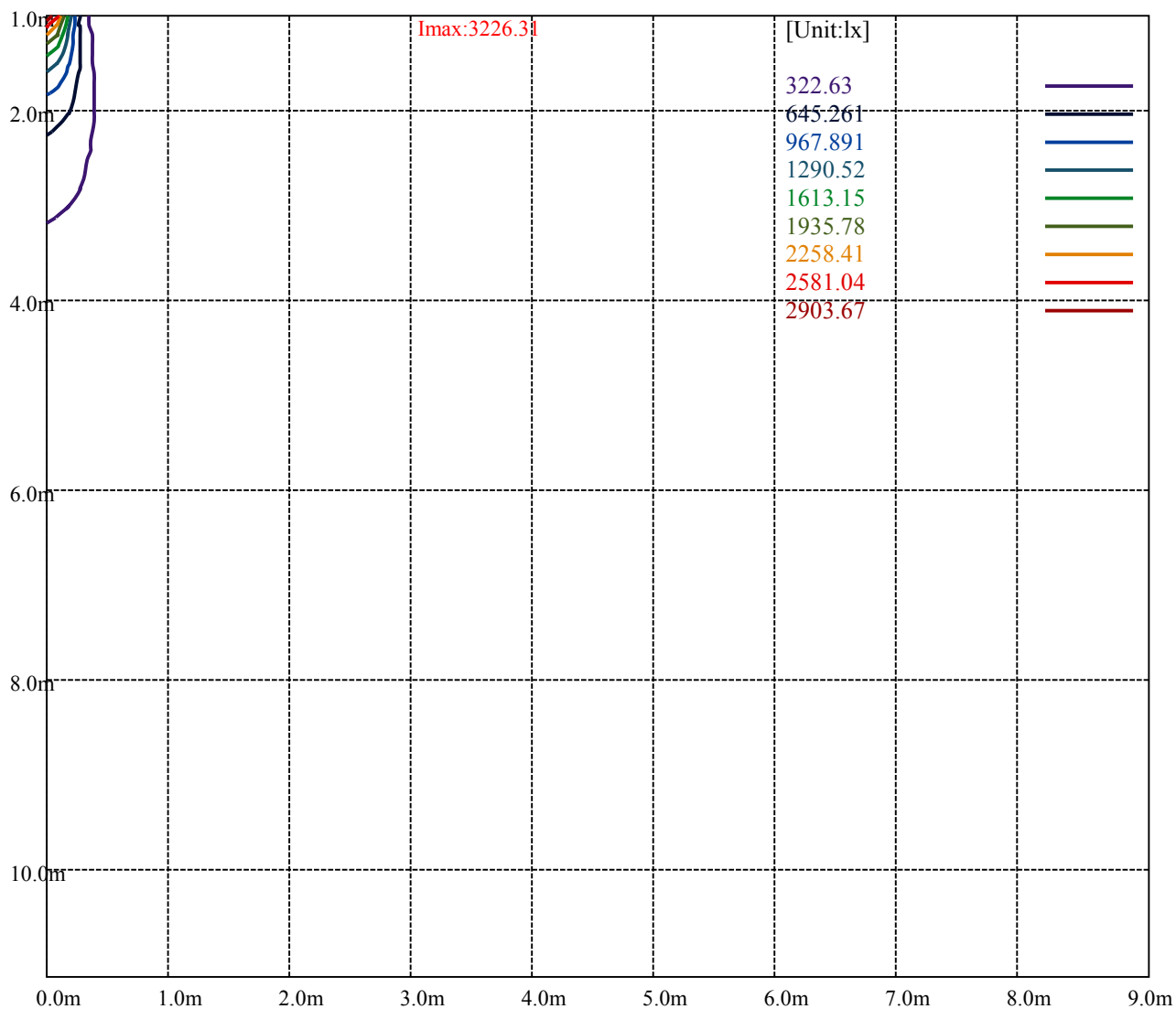
Road

Imax:3226.31

(10%Imax)	322.63	—
(20%Imax)	645.261	—
(30%Imax)	967.891	—
(40%Imax)	1290.52	—
(50%Imax)	1613.15	—
(60%Imax)	1935.78	—
(70%Imax)	2258.41	—
(80%Imax)	2581.04	—
(90%Imax)	2903.67	—



(10%Emax)	35.84767	—
(20%Emax)	71.69534	—
(30%Emax)	107.5431	—
(40%Emax)	143.3911	—
(50%Emax)	179.2389	—
(60%Emax)	215.0867	—
(70%Emax)	250.9333	—
(80%Emax)	286.7811	—
(90%Emax)	322.6289	—



Luminance Table

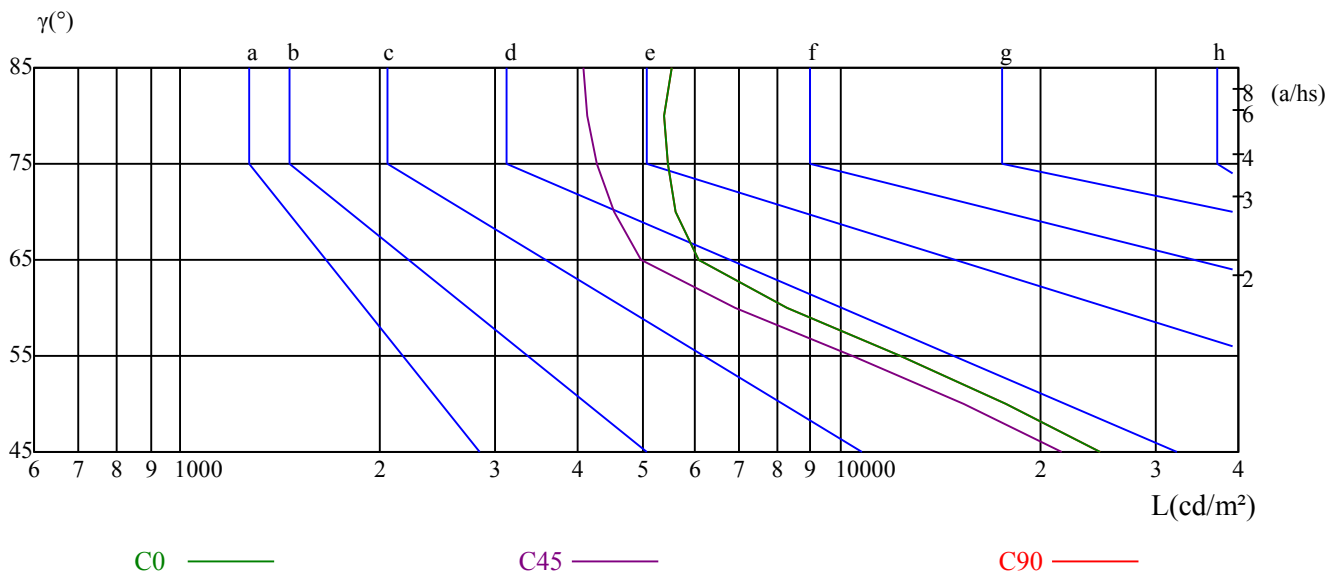
γ	45	50	55	60	65	70	75	80	85
C0	24673	17777	12289	8272	6073	5631	5453	5403	5530
C45	21605	15341	10442	6913	4983	4527	4282	4126	4082
C90	24673	17777	12289	8272	6073	5631	5453	5403	5530

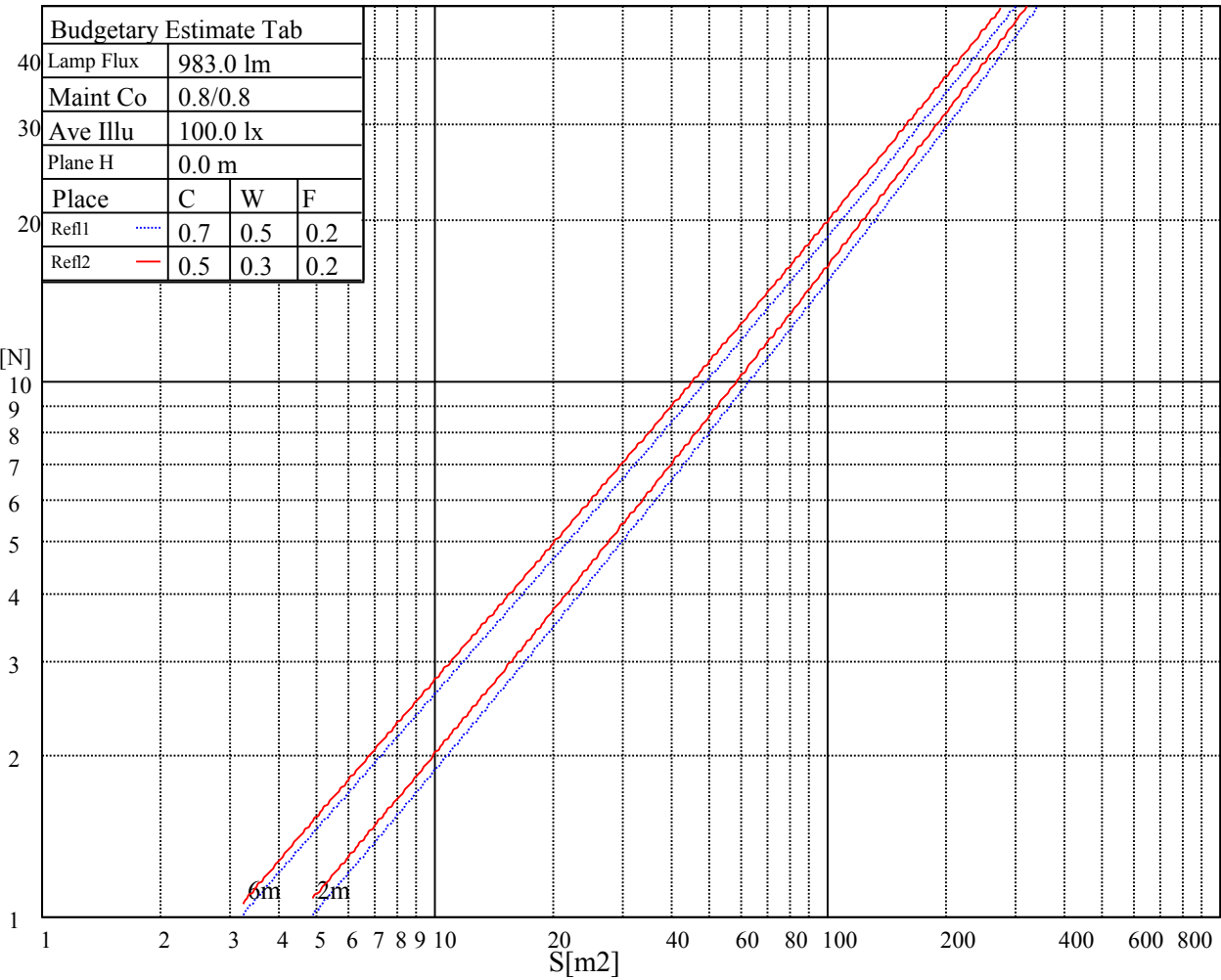
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
12867	12867	12867	16072	16072	16072	38511	38511	38511

Glare Table

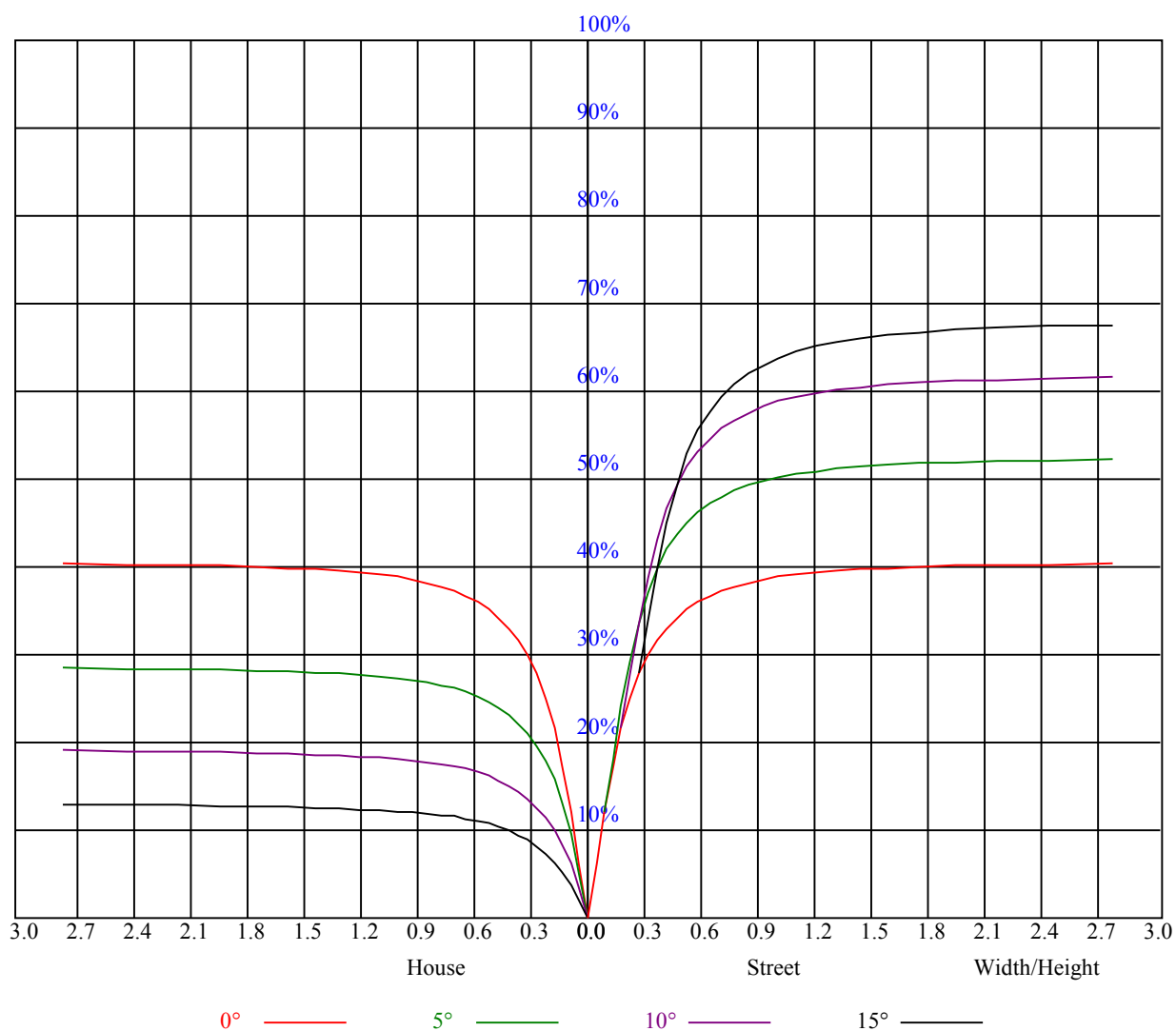
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

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	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.90	0.88	0.85	0.88	0.86	0.84	0.85	0.83	0.81	0.82	0.80	0.79	0.79	0.78	0.77	0.75
2	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.78	0.76	0.74	0.76	0.74	0.73	0.71
3	0.80	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.73	0.71	0.69	0.68
4	0.76	0.72	0.69	0.76	0.72	0.69	0.74	0.70	0.68	0.72	0.69	0.67	0.71	0.68	0.66	0.65
5	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.66	0.64	0.68	0.66	0.64	0.62
6	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.60
7	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.64	0.61	0.59	0.58
8	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.59	0.57	0.56
9	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.55
10	0.61	0.57	0.55	0.61	0.57	0.55	0.60	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.53



Nata 1426-N

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	3227.41	2713.73	1672.61	757.03	398.06	278.59	173.70	118.32	81.76		
45.0	3222.45	2863.48	1806.95	864.39	415.13	282.44	180.64	120.24	82.14		
90.0	3245.02	2832.65	1927.52	933.87	432.47	274.40	188.90	122.83	82.47		
135.0	3210.34	3034.71	2252.91	1200.78	579.19	333.09	218.24	145.02	98.22		
180.0	3227.41	2872.84	1928.08	968.88	477.06	291.69	191.60	127.13	88.53		
225.0	3222.45	2708.77	1760.70	823.20	405.66	261.19	170.56	110.99	79.28		
270.0	3245.02	2814.48	1844.39	894.67	409.62	278.03	172.33	112.70	79.72		
315.0	3210.34	2600.31	1299.33	670.64	362.71	239.28	164.62	109.67	73.67		
360.0	3227.41	2713.73	1672.61	757.03	398.06	278.59	173.70	118.32	81.76		
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	55.50	39.70	25.66	15.97	11.34	9.52	8.31	7.60	6.72		
45.0	56.76	38.81	25.33	16.68	11.67	10.02	9.25	8.75	7.60		
90.0	56.43	38.59	25.11	17.01	11.62	10.35	8.92	7.43	6.50		
135.0	65.19	44.82	30.72	19.60	12.88	10.57	9.30	8.04	7.38		
180.0	60.95	43.77	29.57	17.67	11.62	10.13	8.81	7.71	7.16		
225.0	54.56	38.21	25.82	16.19	11.01	9.63	8.81	8.42	7.65		
270.0	52.08	35.51	23.45	15.64	11.12	9.63	8.59	7.27	6.88		
315.0	47.95	34.30	22.57	14.53	10.79	9.47	8.42	7.65	6.94		
360.0	55.50	39.70	25.66	15.97	11.34	9.52	8.31	7.60	6.72		
C/ γ (°)	90.0										
0.0	3.41										
45.0	3.47										
90.0	3.41										
135.0	3.63										
180.0	3.63										
225.0	3.58										
270.0	3.41										
315.0	3.41										
360.0	3.41										