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Nata

Client:

LumCAT: CT01D03660AH

Luminaire:

Report No: GC2019091909

Voltage(V): 220.5000

Test No: NATA07

Current(A): 0.0420

LampCAT: TRIDONIC SLE G7 9MM

Power (W): 8.3400

Lamp flux(lm): 1030.0

PF: 0.8970

Number of Lamps: 1

Ballast type: AC

Length(mm): 36

Width(mm): 36

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 868.34, Efficiency(%): 84.31% , Luminous Efficacy(lm/W): 104.12

Central intensity(cd): 665.726, Maximum intensity(cd): 665.726

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=66.4

[C90/270]Total=66.4

Field angle(10%Imax): [C0/180]Total=108.8

[C90/270]Total=108.8

Maximum s/h(1/2): C0_180=0.98 C90_270=0.98

Maximum s/h(1/4): C0_180=0.99 C90_270=0.99

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.31%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 93.086%

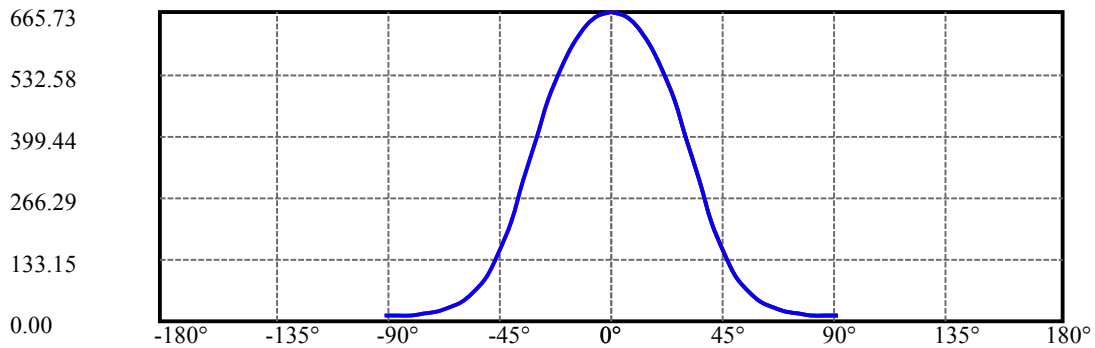
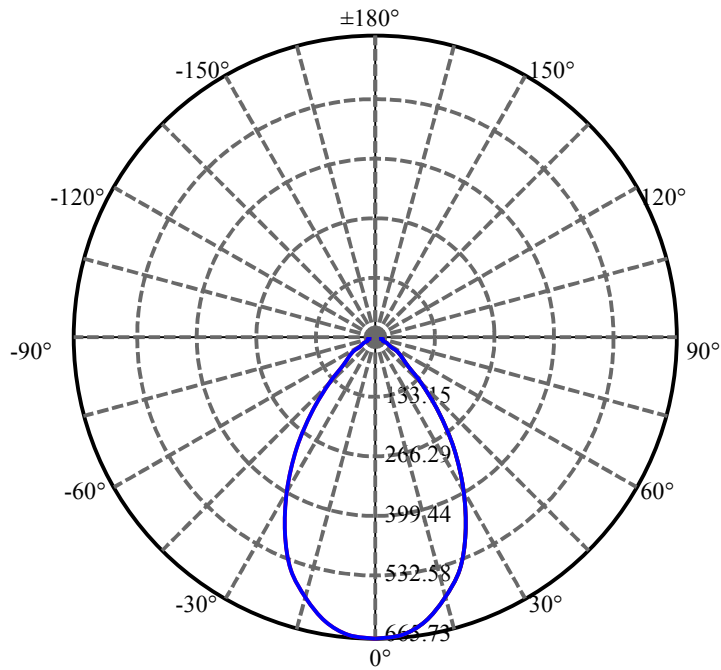
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	665.726	0.000	0	.000%	.000%
5.0	658.191	15.827	15.827	1.537%	1.823%
10.0	636.196	46.304	62.131	4.496%	7.155%
15.0	597.176	73.163	135.294	7.103%	15.581%
20.0	546.307	94.239	229.533	9.149%	26.433%
25.0	476.156	107.237	336.771	10.411%	38.783%
30.0	392.555	109.936	446.707	10.673%	51.444%
35.0	300.230	102.017	548.724	9.905%	63.192%
40.0	215.346	86.020	634.744	8.351%	73.098%
45.0	145.765	66.863	701.607	6.492%	80.798%
50.0	95.829	48.817	750.424	4.740%	86.420%
55.0	62.221	34.365	784.789	3.336%	90.378%
60.0	39.501	23.513	808.302	2.283%	93.086%
65.0	27.053	16.179	824.481	1.571%	94.949%
70.0	19.687	11.835	836.316	1.149%	96.312%
75.0	15.829	9.283	845.6	.901%	97.381%
80.0	14.054	7.996	853.596	.776%	98.302%
85.0	12.947	7.337	860.932	.712%	99.147%
90.0	14.118	7.411	868.343	.719%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	446.71	43.37%	51.44%
0-40	634.74	61.63%	73.10%
0-60	808.30	78.48%	93.09%
0-90	860.93	83.59%	99.15%
0-120	860.93	83.59%	99.15%
0-180	868.34	84.31%	100.00%
60-90	76.14	7.39%	8.77%
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%
0-44.48	694.67	67.44%	80.00%

ZONAL LUMEN SUMMARY

0-10	62.13
10-20	167.40
20-30	217.17
30-40	188.04
40-50	115.68
50-60	57.88
60-70	28.01
70-80	17.28
80-90	7.34
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: —————

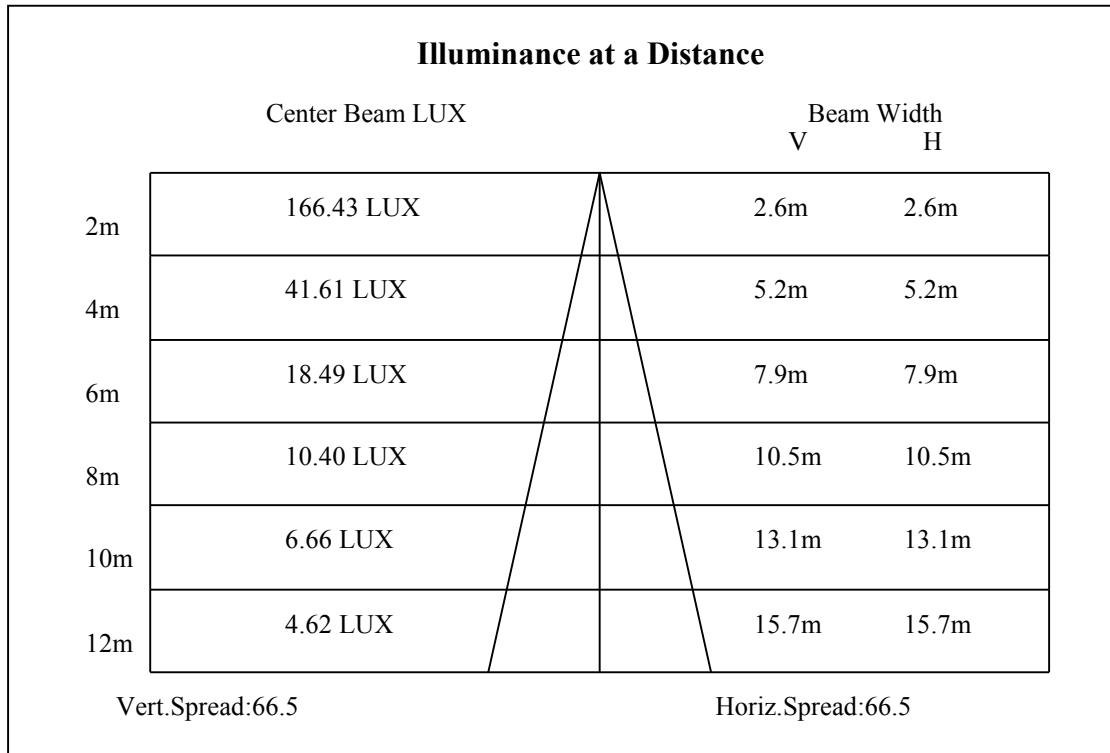
C90/C270: —————

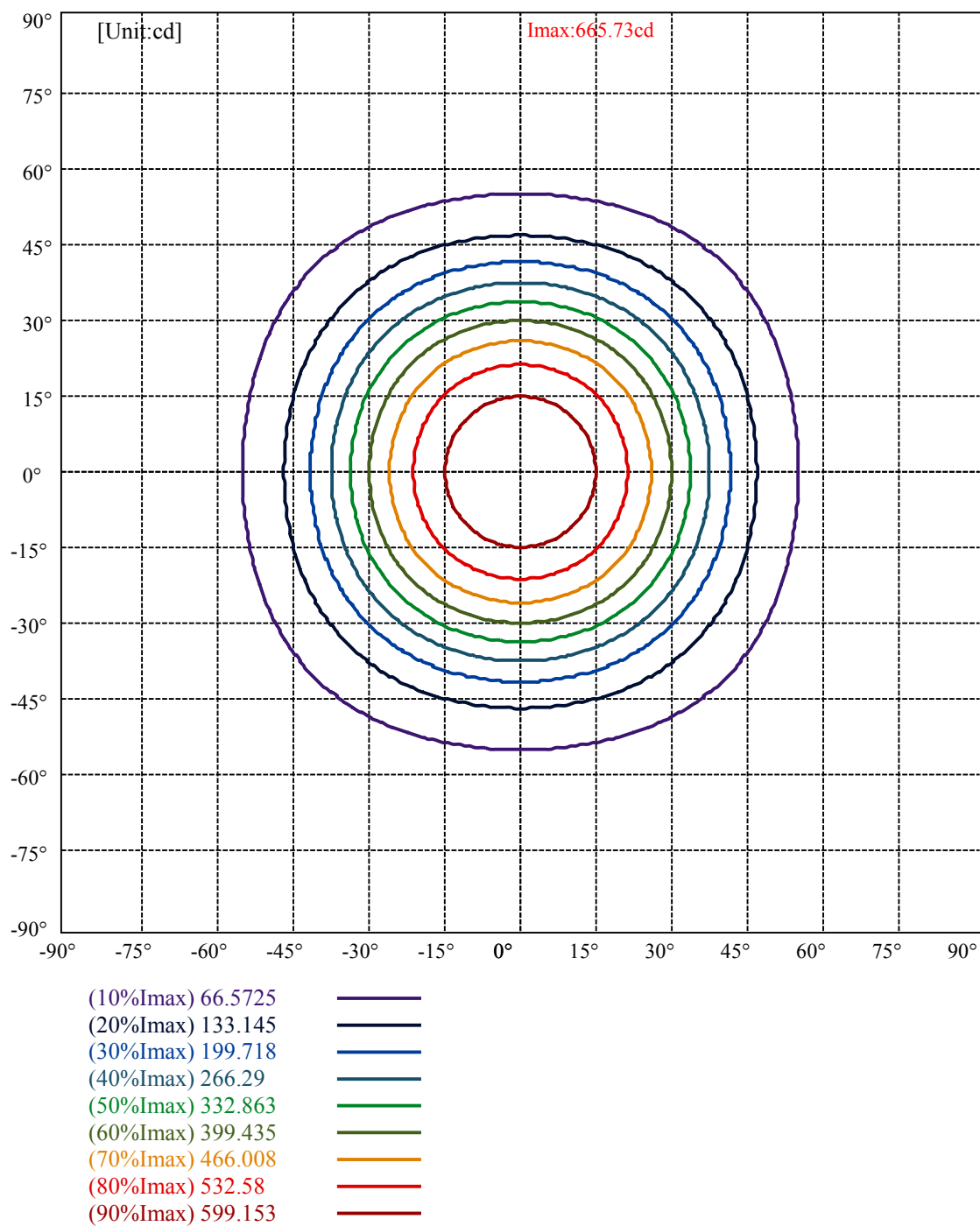
Field angle(10%Imax):C0/180Left:54.4 Right:54.4

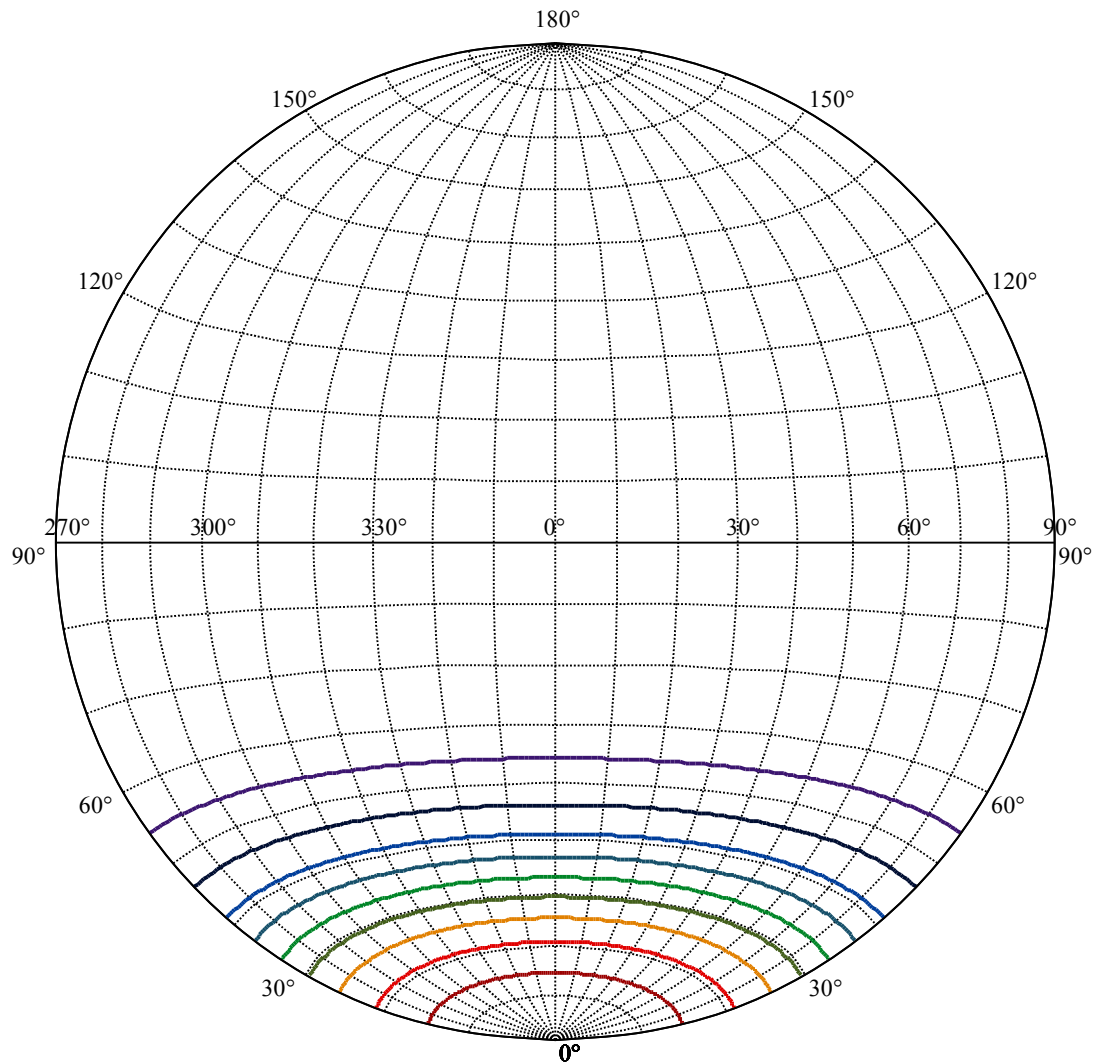
:C90/270Left:54.4 Right:54.4

Beam Angle(50%Imax):C0/180Left:33.2 Right:33.2

:C90/270Left:33.2 Right:33.2







House

[Unit:cd]

Road

Imax:665.73

(10%Imax) 66.5725

(20%Imax) 133.145

(30%Imax) 199.718

(40%Imax) 266.29

(50%Imax) 332.863

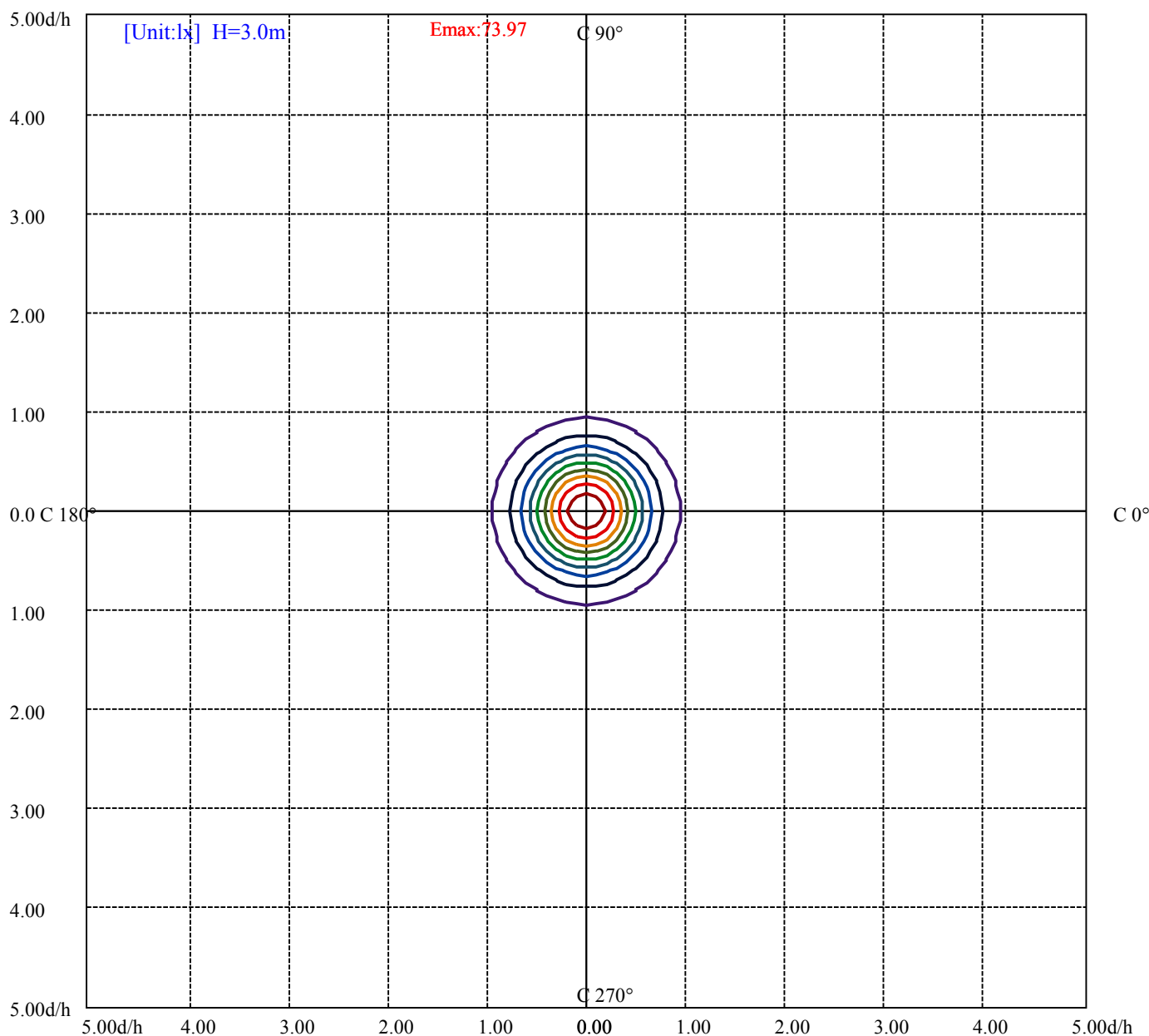
(60%Imax) 399.435

(70%Imax) 466.008

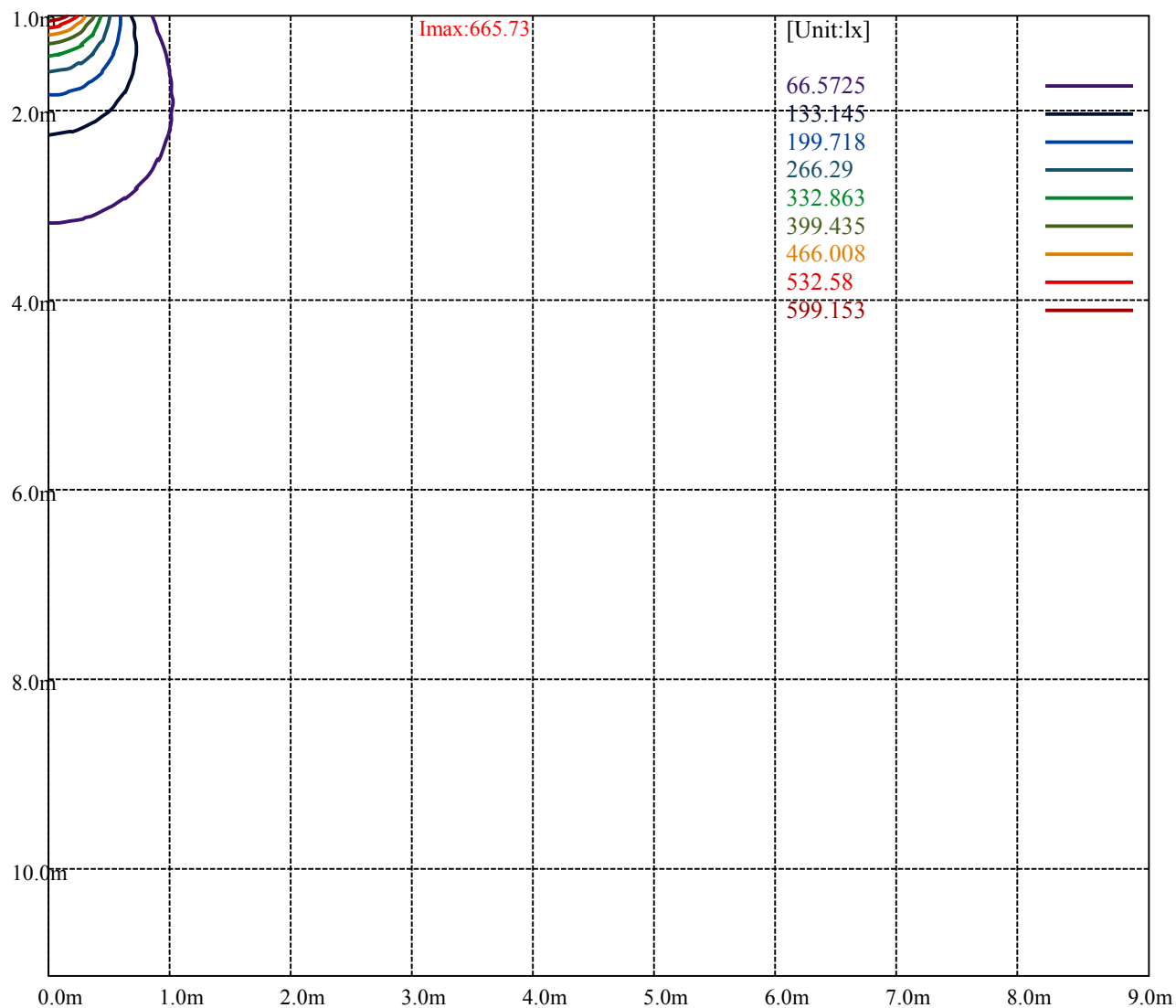
(80%Imax) 532.58

(90%Imax) 599.153





(10%Emax)	7.396945	—
(20%Emax)	14.79389	—
(30%Emax)	22.19089	—
(40%Emax)	29.58778	—
(50%Emax)	36.98478	—
(60%Emax)	44.38167	—
(70%Emax)	51.77867	—
(80%Emax)	59.17556	—
(90%Emax)	66.57256	—



Luminance Table

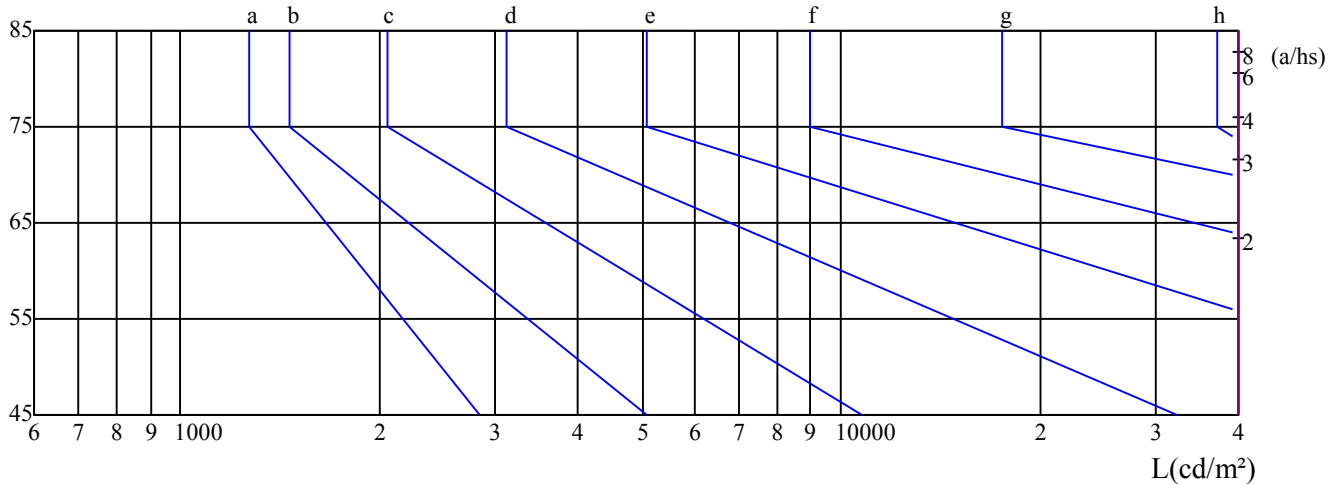
γ	45	50	55	60	65	70	75	80	85
C0	159060	115033	83703	60958	49393	44413	47191	62451	114618
C45	159060	115033	83703	60958	49393	44413	47191	62451	114618
C90	159060	115033	83703	60958	49393	44413	47191	62451	114618

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
49393	49393	49393	47191	47191	47191	114618	114618	114618

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

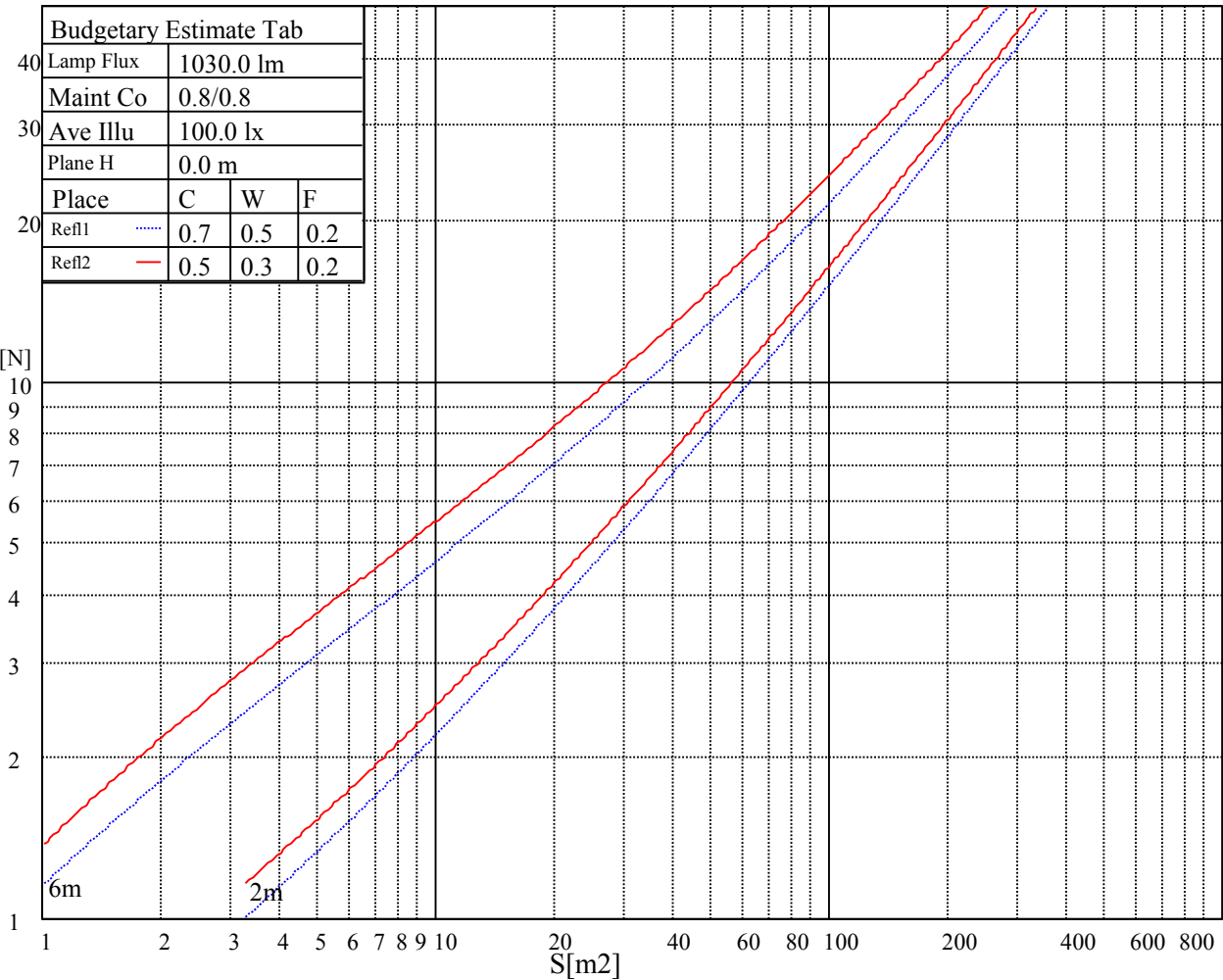
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

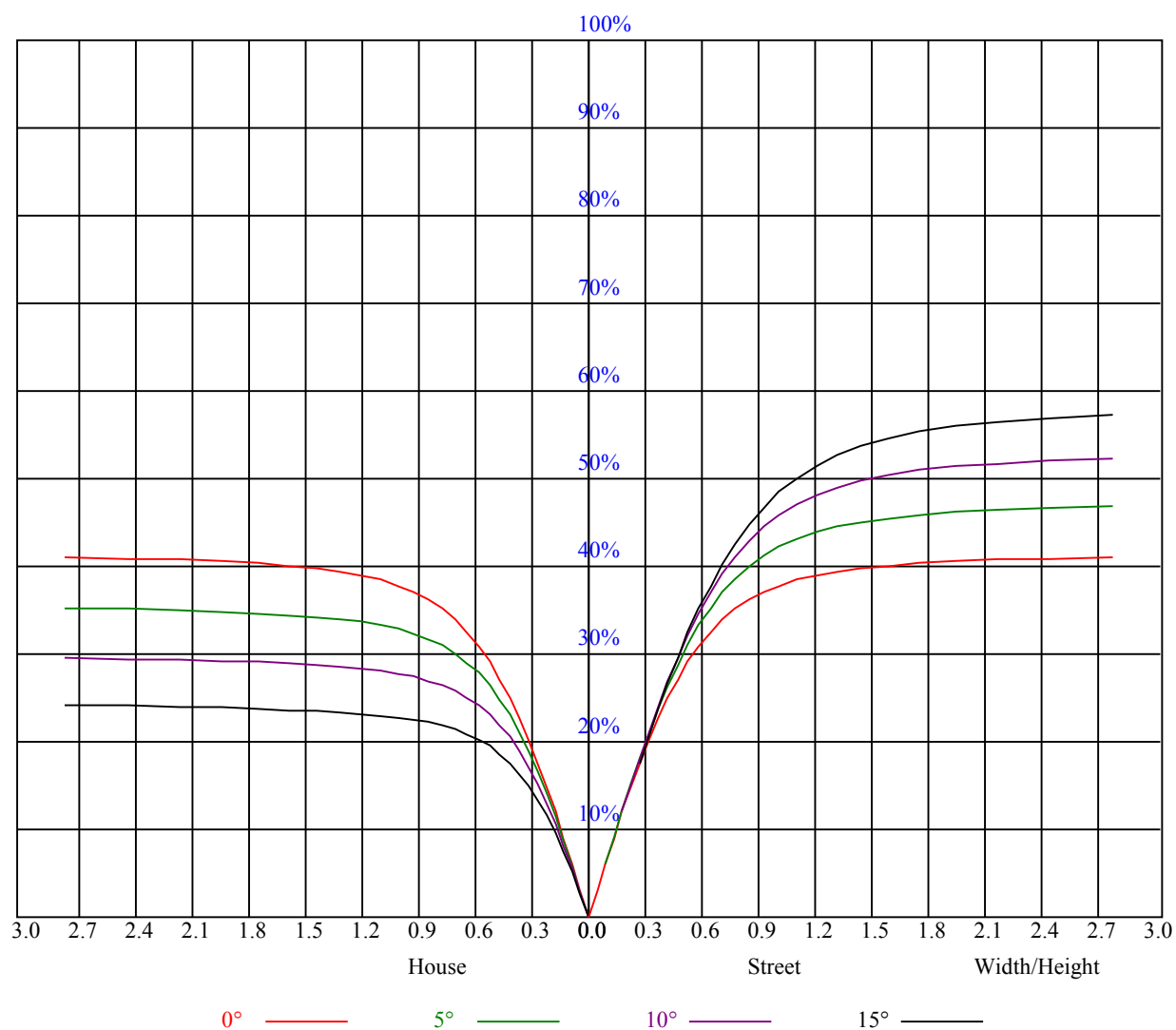
C0 ———

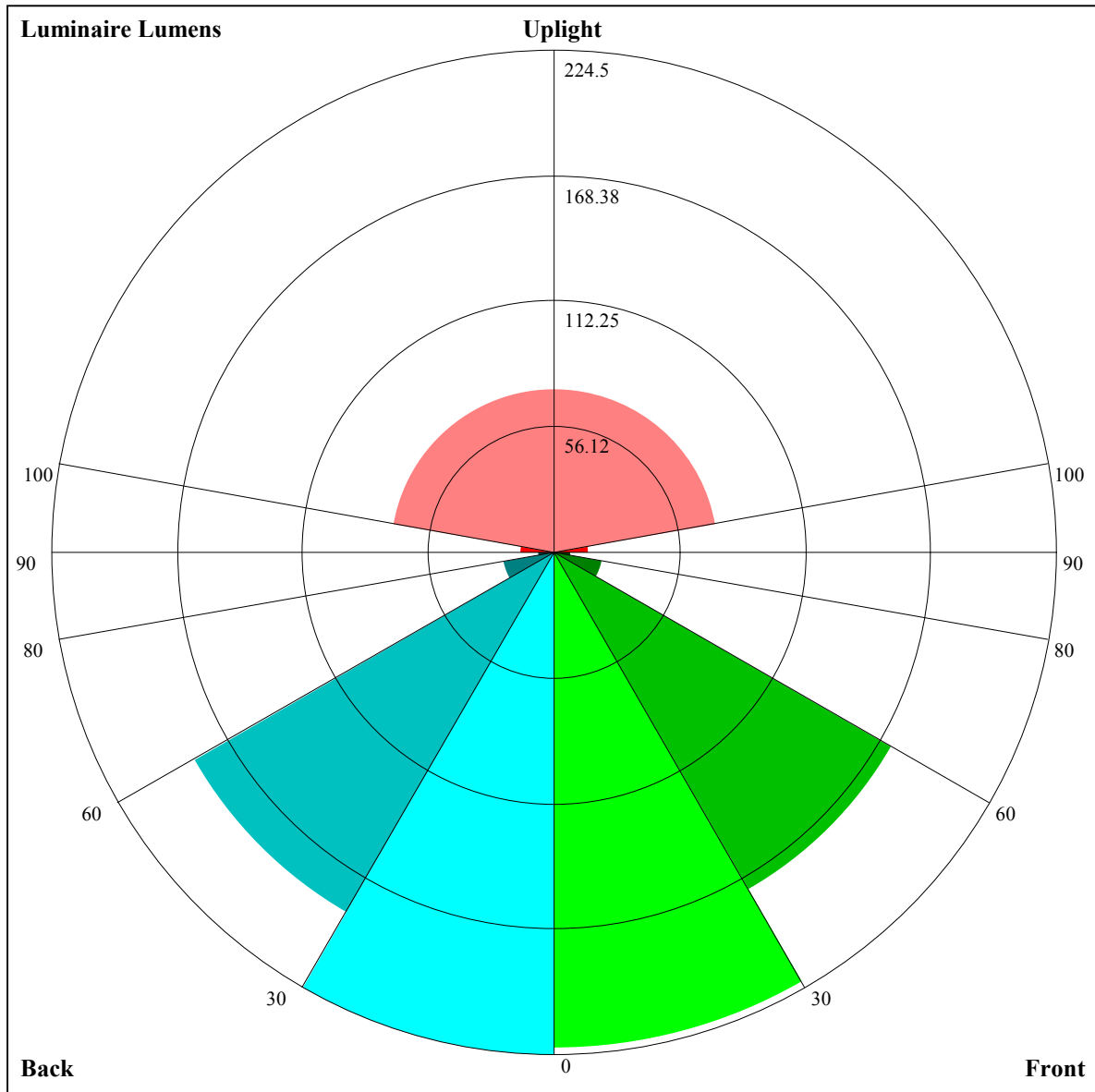
C45 ———

C90 ———



RHOC	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	1.00	1.00	1.00	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.84
1	0.91	0.88	0.86	0.89	0.87	0.84	0.86	0.84	0.82	0.82	0.81	0.79	0.79	0.78	0.77	0.75
2	0.83	0.78	0.75	0.81	0.77	0.74	0.78	0.75	0.72	0.76	0.73	0.71	0.73	0.71	0.69	0.68
3	0.75	0.70	0.66	0.74	0.69	0.65	0.72	0.68	0.64	0.70	0.66	0.63	0.68	0.65	0.62	0.61
4	0.69	0.63	0.59	0.68	0.63	0.59	0.66	0.62	0.58	0.64	0.60	0.57	0.63	0.59	0.57	0.55
5	0.64	0.58	0.53	0.63	0.57	0.53	0.61	0.56	0.52	0.60	0.55	0.52	0.58	0.55	0.51	0.50
6	0.59	0.53	0.48	0.58	0.52	0.48	0.57	0.52	0.48	0.55	0.51	0.48	0.54	0.50	0.47	0.46
7	0.55	0.49	0.44	0.54	0.48	0.44	0.53	0.48	0.44	0.52	0.47	0.44	0.51	0.47	0.43	0.42
8	0.51	0.45	0.41	0.50	0.45	0.41	0.49	0.44	0.40	0.48	0.44	0.40	0.47	0.43	0.40	0.39
9	0.47	0.42	0.38	0.47	0.41	0.38	0.46	0.41	0.37	0.45	0.41	0.37	0.44	0.40	0.37	0.36
10	0.44	0.39	0.35	0.44	0.39	0.35	0.43	0.38	0.35	0.43	0.38	0.35	0.42	0.38	0.35	0.33





Luminaire Lumens:

FL=222,FM=174.27,FH=21.94,FVH=7.54

BL=224.5,BM=185.64,BH=23.13,BVH=7.15

UL=15.4,UH=73.3

BUG Rating:B1-U2-G0

Intensity data(cd)										Appendix Page: 15 Total:15	
C/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	666.96	660.46	629.65	585.89	532.15	448.72	369.93	264.92	188.77		
45.0	664.36	673.78	673.36	639.99	587.51	523.48	449.93	340.88	259.67		
90.0	669.97	681.99	676.14	641.06	589.14	525.19	426.68	338.70	246.22		
135.0	663.29	670.39	663.85	638.05	596.05	533.45	458.79	379.72	289.09		
180.0	666.96	658.00	639.35	600.09	561.90	502.41	418.51	330.81	237.03		
225.0	661.02	634.24	597.40	543.15	489.83	415.91	327.93	235.68	158.89		
270.0	669.97	645.01	608.49	569.65	514.66	441.62	357.21	267.28	183.11		
315.0	663.29	641.67	601.34	559.53	499.21	418.47	331.46	243.85	160.00		
360.0	666.96	660.46	629.65	585.89	532.15	448.72	369.93	264.92	188.77		
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	127.42	83.99	52.02	34.15	24.55	17.87	15.41	13.78	14.25		
45.0	181.72	117.96	77.40	48.68	30.95	22.13	17.68	14.29	12.48		
90.0	161.62	107.47	70.30	43.16	28.96	21.11	15.87	14.25	12.67		
135.0	196.38	130.49	85.80	52.34	34.20	22.92	16.84	14.20	12.62		
180.0	158.14	105.89	72.06	43.85	30.95	22.69	18.05	15.45	12.81		
225.0	110.44	68.77	45.75	29.51	22.13	16.89	13.74	11.51	11.93		
270.0	123.29	79.40	51.14	34.71	23.85	17.68	14.94	13.41	12.76		
315.0	107.10	72.67	43.29	29.61	20.84	16.19	14.11	15.55	14.06		
360.0	127.42	83.99	52.02	34.15	24.55	17.87	15.41	13.78	14.25		
C/ γ (°)	90.0										
0.0	15.41										
45.0	13.27										
90.0	13.32										
135.0	14.06										
180.0	13.50										
225.0	12.62										
270.0	14.25										
315.0	16.52										
360.0	15.41										