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SOTEN

LumCAT: T1025	
Luminaire: 2-1837-A	
Report No:	Voltage(V): 230.2000
Test No:	Current(A): 0.1430
LampCAT: CLU038 1208 3000K Ra80	Power (W): 31.5700
Lamp flux(lm): 3723.0	PF: 0.9590
Number of Lamps: 1	Ballast type: Tridonic 35W 800mA
Length(mm): 90	Width(mm): 90
Phm Type: C	Height(mm): 62

Photometric Results

Lumens(lm): 3130.01
Efficiency(%): 84.07%
Lumens(lm)/Power(W): 99.15
Central intensity(cd): 3822.661
Maximum intensity(cd): 3822.661
Angle of maximum intensity: $C=0.0$ $\gamma=0.0$
Beam Angle(50%Imax): [C0/180]Total=56.9
[C90/270]Total=56.9
Field angle(10%Imax): [C0/180]Total=77.9
[C90/270]Total=77.9
Maximum s/h(1/2): C0_180=0.92 C90_270=0.92
Maximum s/h(1/4): C0_180=1.32 C90_270=0.86
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.07%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.008%

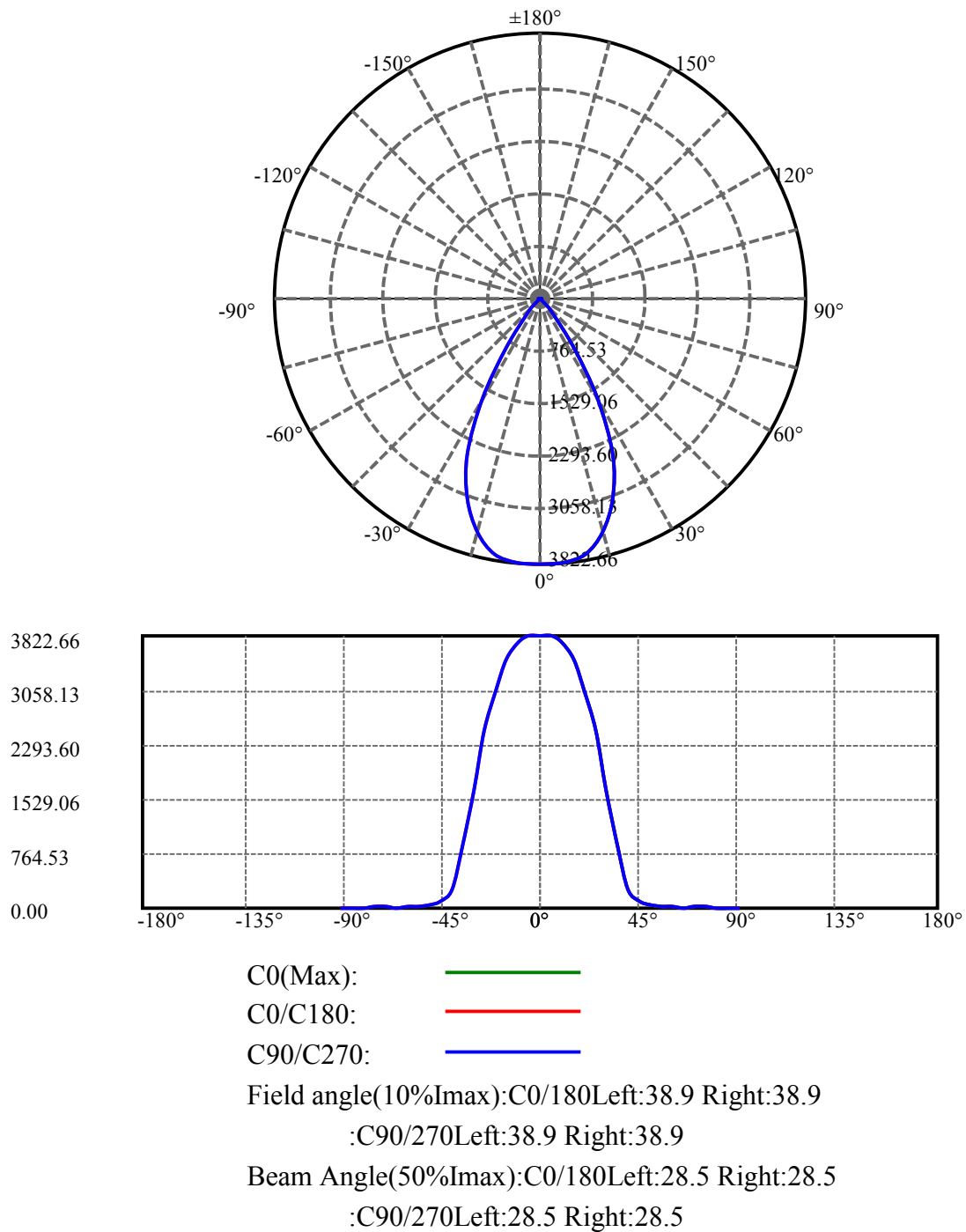
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3822.660	.000	.000	.000%	.000%
5.0	3816.072	91.319	91.319	2.453%	2.453%
10.0	3725.306	269.779	361.098	7.246%	9.699%
15.0	3479.323	427.374	788.471	11.479%	21.178%
20.0	3051.437	538.226	1326.698	14.457%	35.635%
25.0	2484.295	580.596	1907.294	15.595%	51.230%
30.0	1658.084	524.222	2431.516	14.081%	65.311%
35.0	859.204	370.688	2802.204	9.957%	75.267%
40.0	254.569	185.825	2988.029	4.991%	80.259%
45.0	92.992	64.354	3052.382	1.729%	81.987%
50.0	38.376	26.545	3078.927	.713%	82.700%
55.0	19.443	12.572	3091.499	.338%	83.038%
60.0	12.854	7.465	3098.964	.201%	83.238%
65.0	11.230	5.855	3104.819	.157%	83.396%
70.0	13.364	6.227	3111.046	.167%	83.563%
75.0	14.199	7.205	3118.251	.194%	83.756%
80.0	10.487	6.605	3124.856	.177%	83.934%
85.0	3.387	3.770	3128.626	.101%	84.035%
90.0	1.671	1.385	3130.011	.037%	84.072%

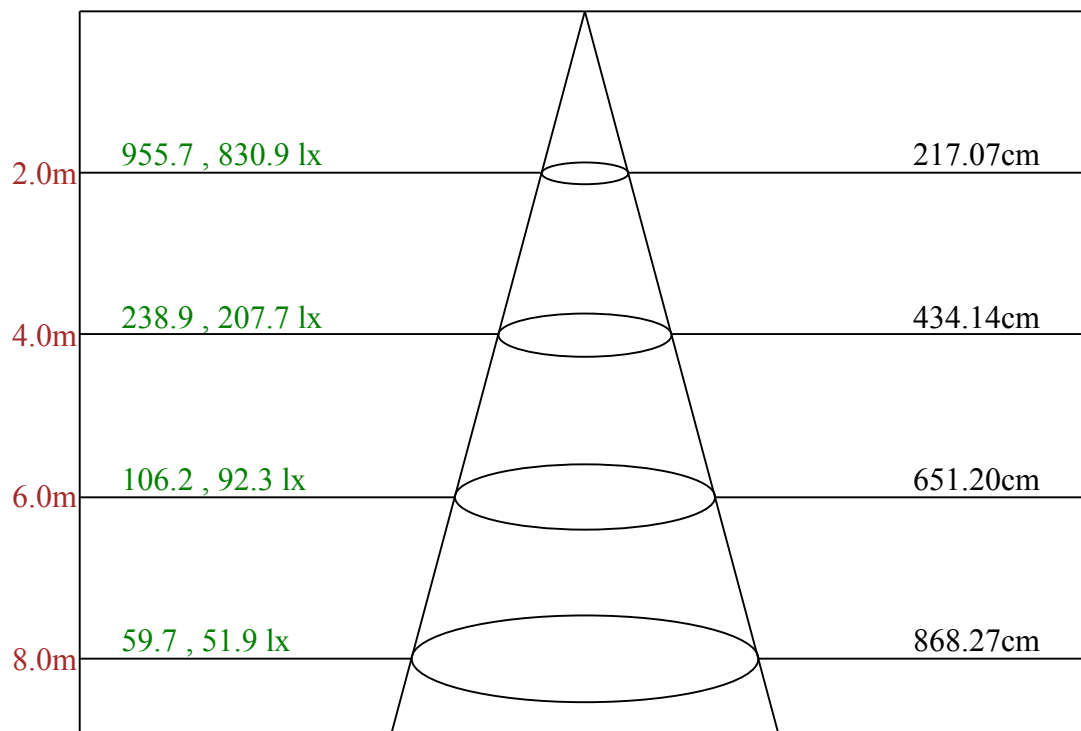
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2431.52	65.31%	77.68%
0-40	2988.03	80.26%	95.46%
0-60	3098.96	83.24%	99.01%
0-90	3128.63	84.04%	99.96%
0-120	3128.63	84.04%	99.96%
0-180	3130.01	84.07%	100.00%
60-90	37.13	1.00%	1.19%
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%
0-30.98	2504.01	67.26%	80.00%

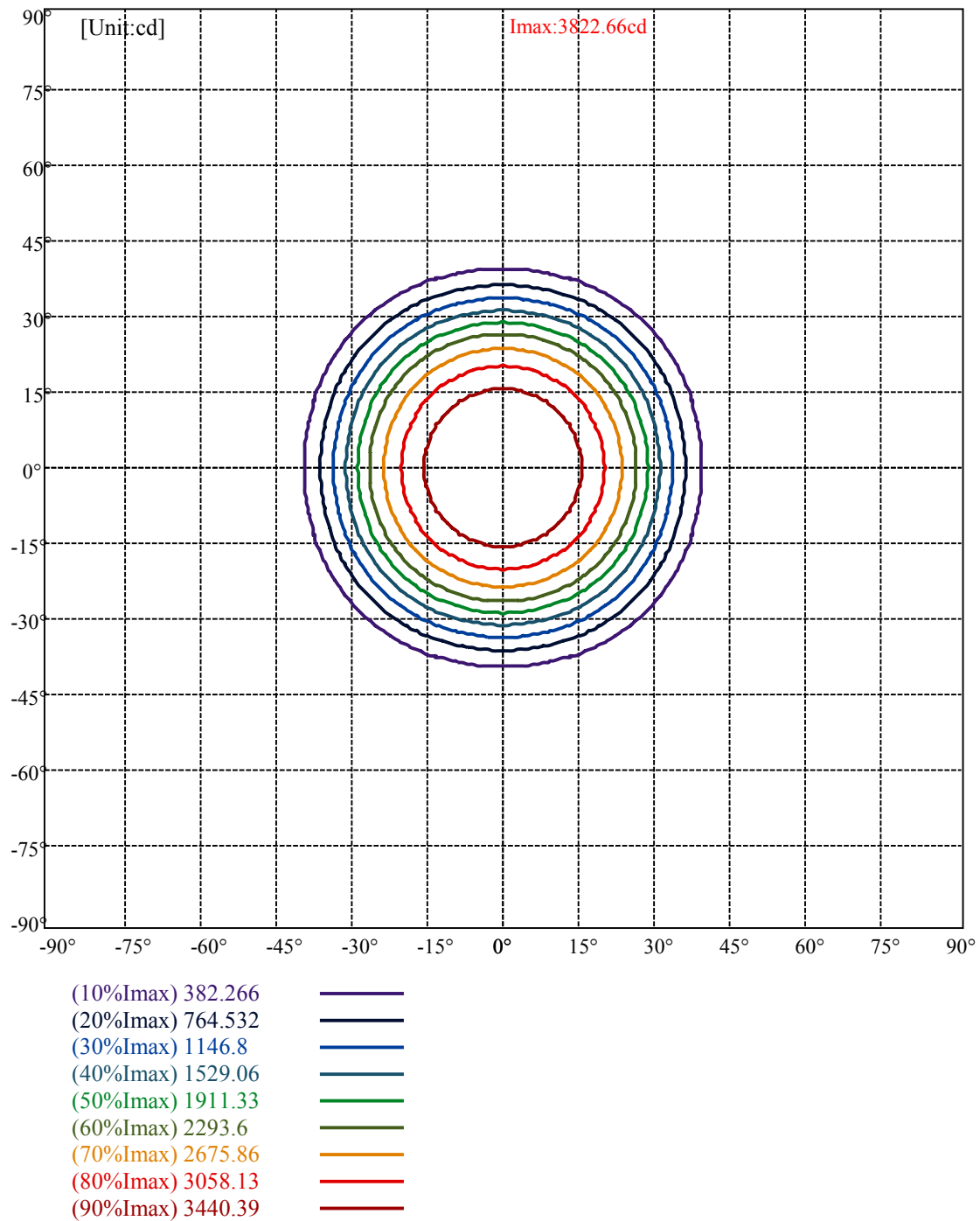
ZONAL LUMEN SUMMARY

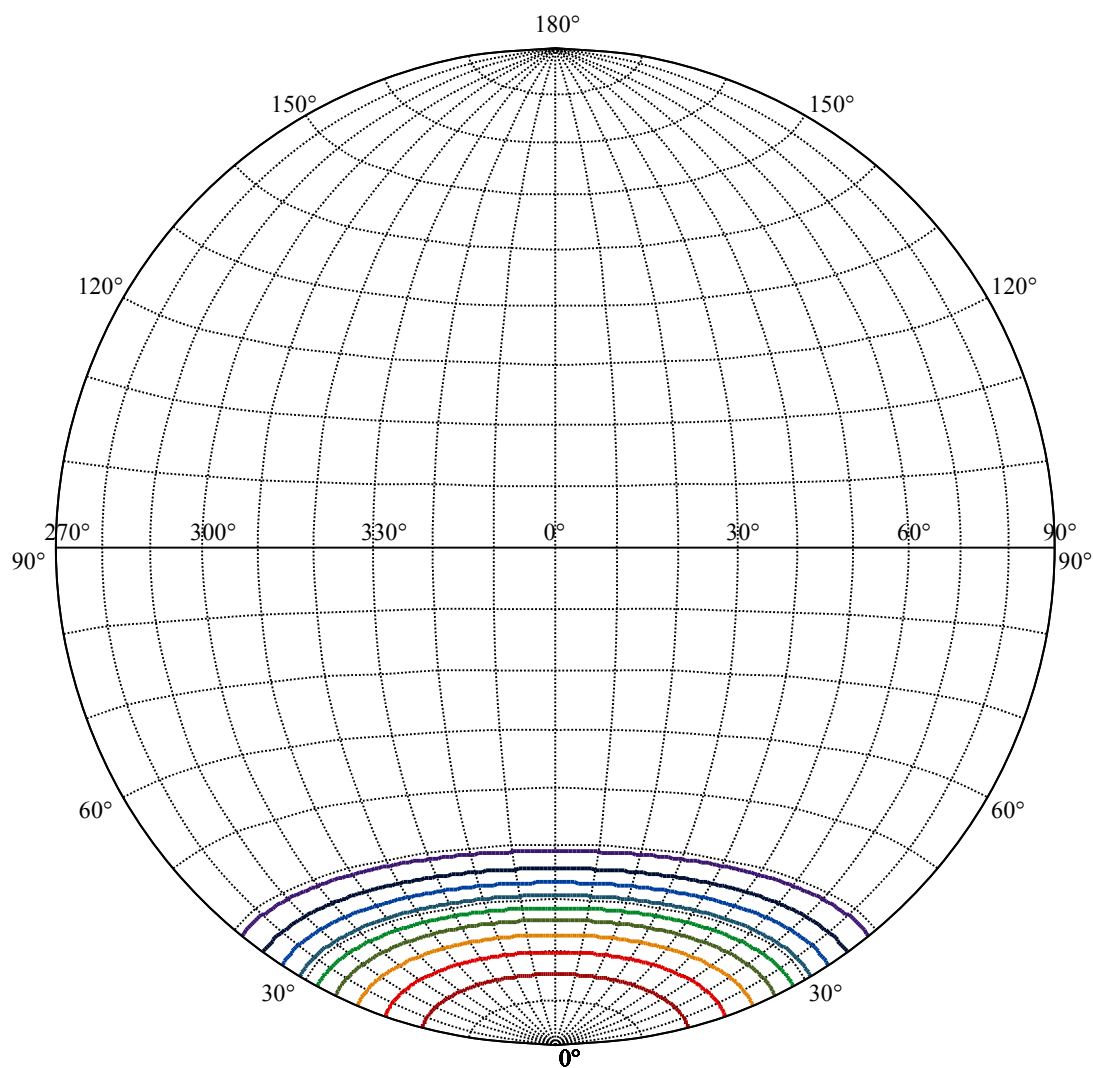
0-10	361.10
10-20	965.60
20-30	1104.82
30-40	556.51
40-50	90.90
50-60	20.04
60-70	12.08
70-80	13.81
80-90	3.77
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C0plane56.97





House

[Unit:cd]

Road

Imax:3822.66

(10%Imax) 382.266

(20%Imax) 764.532

(30%Imax) 1146.8

(40%Imax) 1529.06

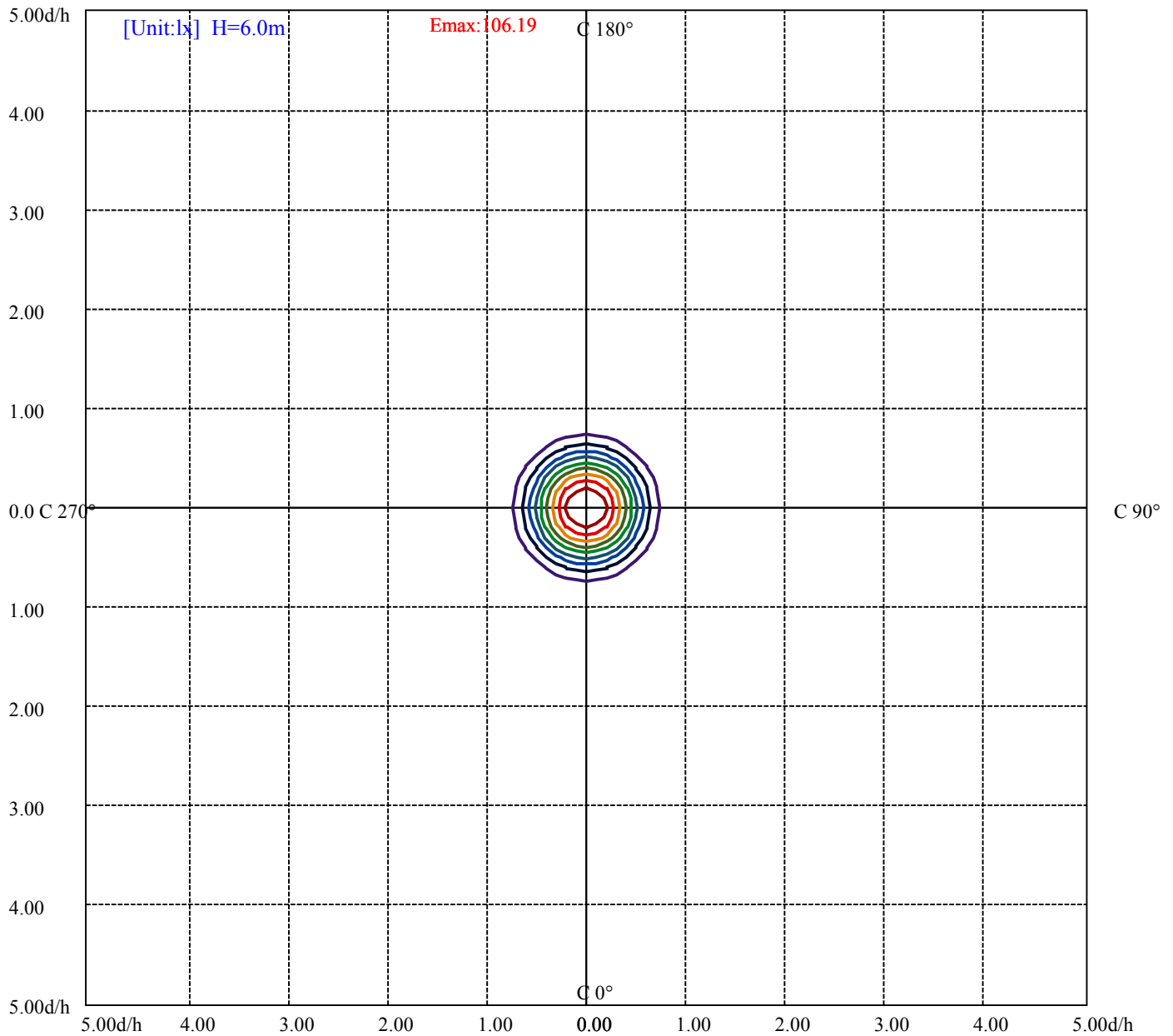
(50%Imax) 1911.33

(60%Imax) 2293.6

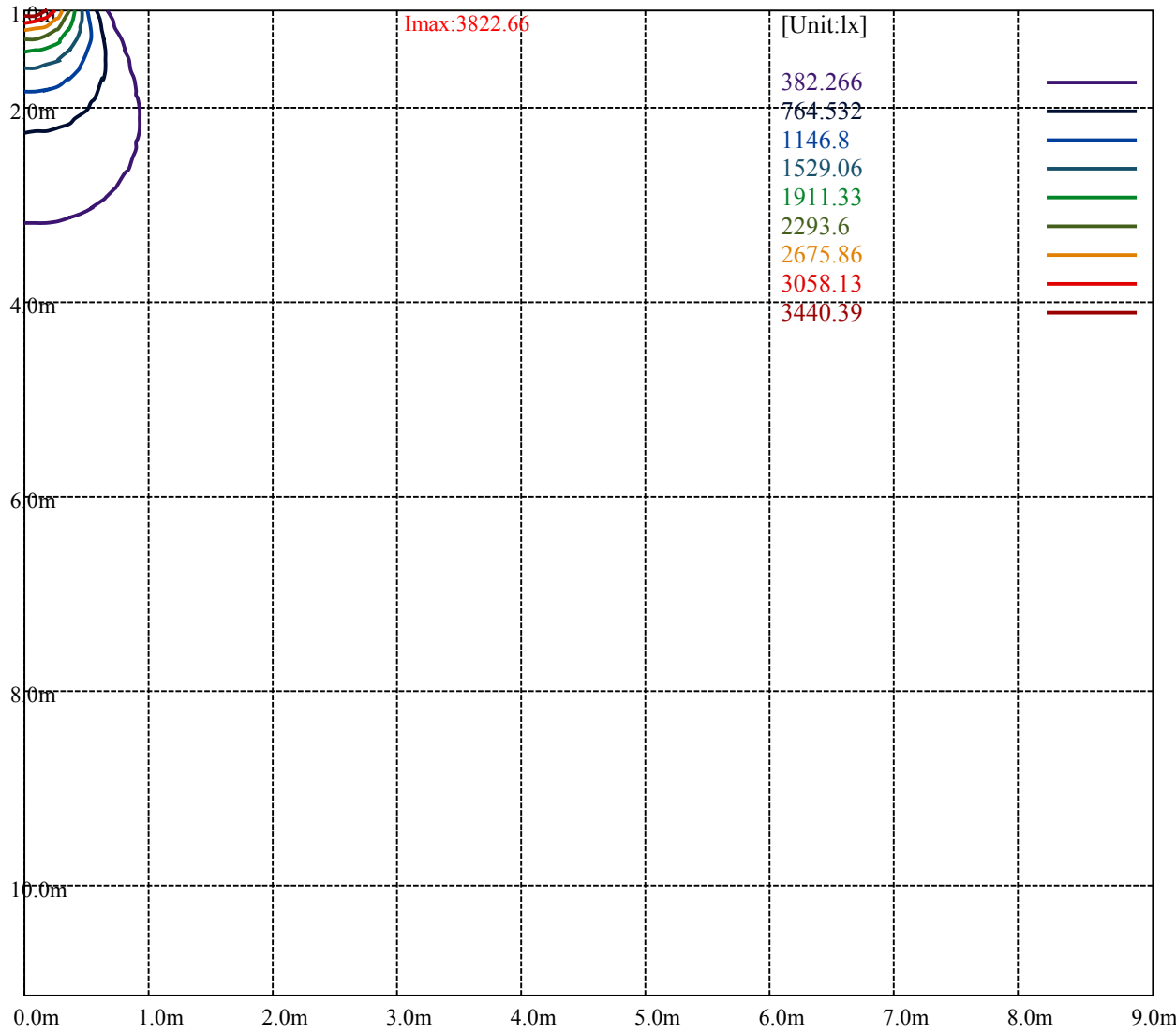
(70%Imax) 2675.86

(80%Imax) 3058.13

(90%Imax) 3440.39



(10%Emax)	10.6185	—
(20%Emax)	21.237	—
(30%Emax)	31.85556	—
(40%Emax)	42.47389	—
(50%Emax)	53.0925	—
(60%Emax)	63.71111	—
(70%Emax)	74.32944	—
(80%Emax)	84.94805	—
(90%Emax)	95.56638	—



Luminance Table

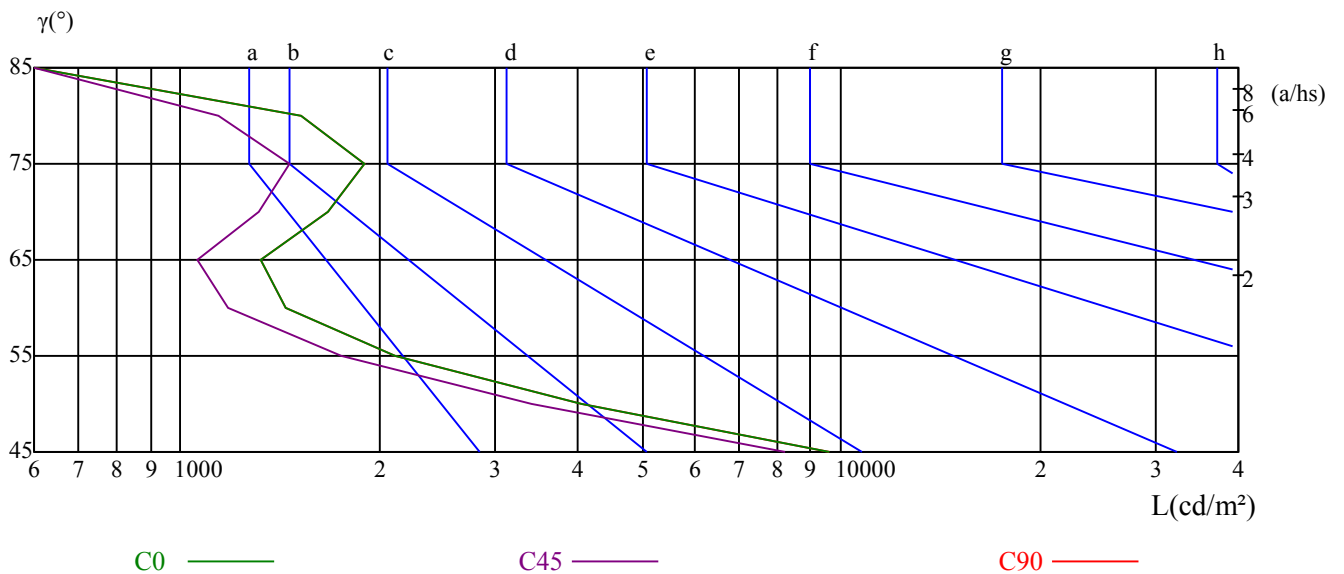
γ	45	50	55	60	65	70	75	80	85
C0	9613	4048	2110	1447	1324	1668	1897	1519	541
C45	8224	3411	1750	1181	1062	1312	1461	1143	395
C90	9613	4048	2110	1447	1324	1668	1897	1519	541

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
3280	3280	3280	6773	6773	6773	4798	4798	4798

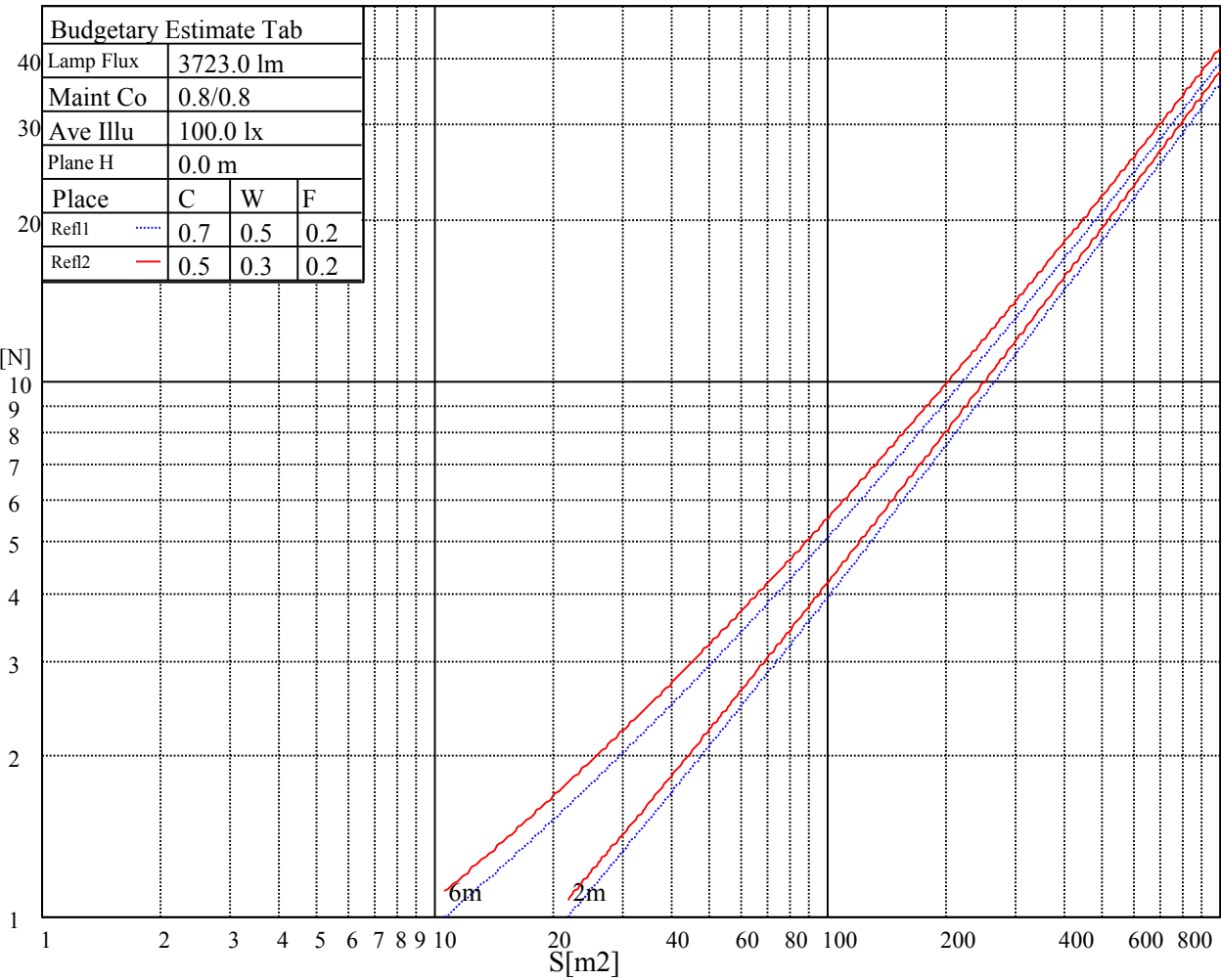
Glare Table

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

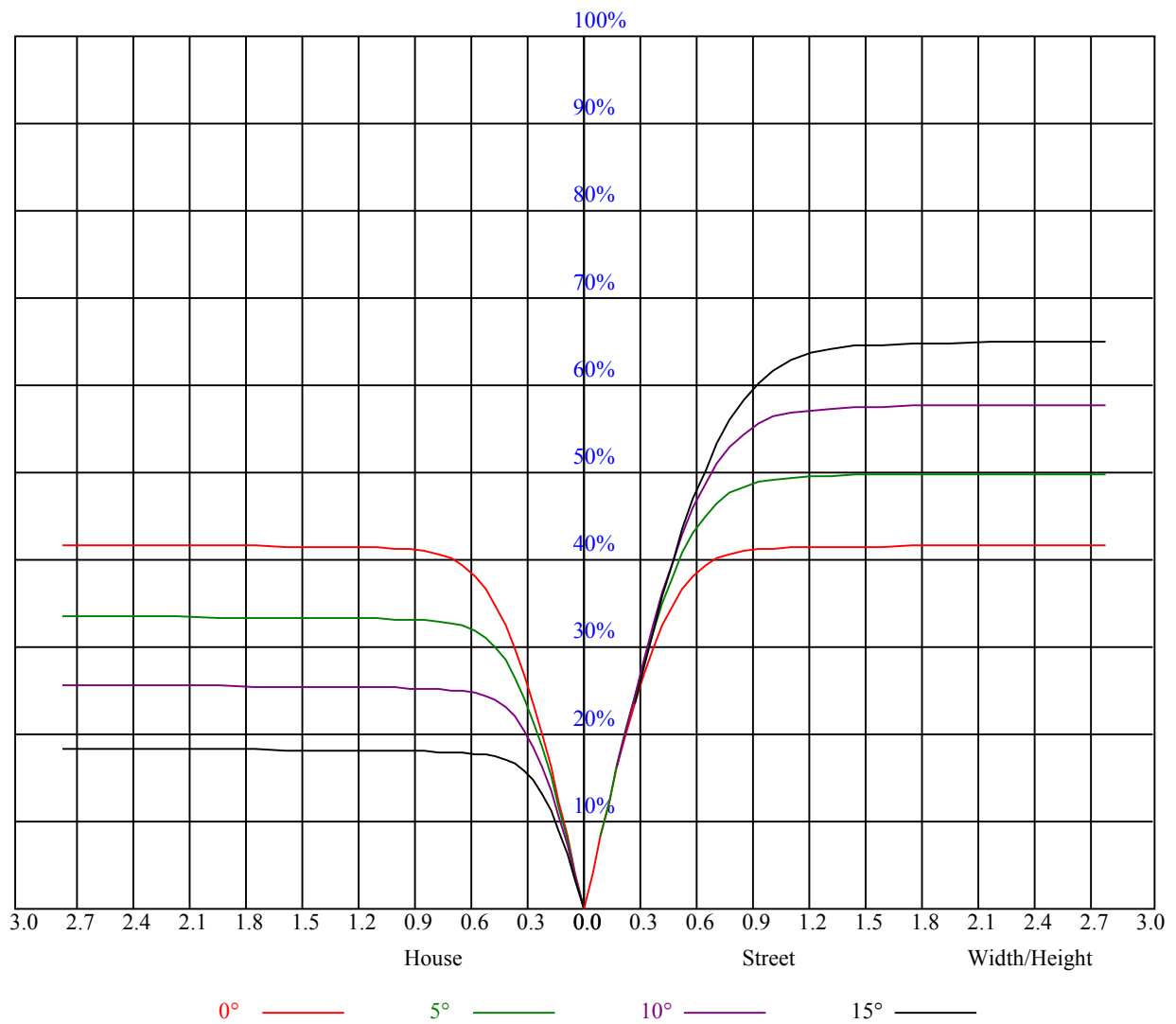
Luminance Limiting Curve



Illuminatin assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	11.8	12.6	12.1	12.8	13.0	11.8	12.6	12.1	12.8	13.0
	3H	11.7	12.4	12.0	12.7	12.9	11.7	12.4	12.0	12.7	12.9
	4H	11.5	12.2	11.9	12.5	12.8	11.5	12.2	11.9	12.5	12.8
	6H	11.6	12.2	12.0	12.5	12.8	11.6	12.2	12.0	12.5	12.8
	8H	11.6	12.2	12.0	12.5	12.9	11.6	12.2	12.0	12.5	12.9
	12H	11.4	11.9	11.9	12.3	12.7	11.4	11.9	11.9	12.3	12.7
4H	2H	11.5	12.1	11.8	12.4	12.7	11.5	12.1	11.8	12.4	12.7
	3H	11.3	11.8	11.7	12.2	12.6	11.3	11.8	11.7	12.2	12.6
	4H	11.4	11.9	11.8	12.3	12.7	11.4	11.9	11.8	12.3	12.7
	6H	11.5	12.0	11.9	12.4	12.8	11.5	12.0	11.9	12.4	12.8
	8H	11.3	11.6	11.8	12.1	12.6	11.3	11.6	11.8	12.1	12.6
	12H	11.4	11.6	11.9	12.1	12.6	11.4	11.6	11.9	12.1	12.6
8H	4H	11.3	11.5	11.7	12.0	12.5	11.3	11.5	11.7	12.0	12.5
	6H	11.4	11.6	11.9	12.1	12.6	11.4	11.6	11.9	12.1	12.6
	8H	11.4	11.7	11.9	12.2	12.7	11.4	11.7	11.9	12.2	12.7
	12H	11.5	11.7	12.0	12.2	12.7	11.5	11.7	12.0	12.2	12.7
12H	4H	11.3	11.5	11.8	12.0	12.5	11.3	11.5	11.8	12.0	12.5
	6H	11.4	11.7	11.9	12.1	12.6	11.4	11.7	11.9	12.1	12.6
	8H	11.5	11.7	12.0	12.2	12.7	11.5	11.7	12.0	12.2	12.7
Variation with the observer position at spacings:											
S = 1.0H		5.6/-9.8					5.6/-9.8				
S = 1.5H		8.3/-8.4					8.3/-8.4				
S = 2.0H		10.2/-7.9					10.2/-7.9				
Standard tables:		BK0					BK0				
Uncorrected UGR		-1.6					-1.6				



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	0.93	0.93	0.93	0.89	0.89	0.89	0.86	0.86	0.86	0.84
1	0.93	0.91	0.89	0.91	0.90	0.88	0.88	0.87	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79
2	0.87	0.84	0.81	0.86	0.83	0.80	0.83	0.80	0.78	0.80	0.78	0.77	0.78	0.76	0.75	0.74
3	0.81	0.77	0.74	0.80	0.77	0.74	0.78	0.75	0.72	0.76	0.74	0.71	0.74	0.72	0.70	0.69
4	0.76	0.72	0.69	0.76	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
5	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.61
6	0.68	0.63	0.59	0.67	0.63	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.57
7	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.60	0.57	0.55	0.54
8	0.61	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.57	0.54	0.52	0.51
9	0.57	0.53	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.55	0.52	0.49	0.55	0.51	0.49	0.48
10	0.54	0.50	0.47	0.54	0.50	0.47	0.53	0.49	0.46	0.53	0.49	0.46	0.52	0.49	0.46	0.45



SOTEN T1025

Intensity data(cd)

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	3822.66	3816.07	3725.31	3479.32	3051.44	2484.30	1658.08	859.20	254.57
45.0	3822.66	3816.07	3725.31	3479.32	3051.44	2484.30	1658.08	859.20	254.57
90.0	3822.66	3816.07	3725.31	3479.32	3051.44	2484.30	1658.08	859.20	254.57
135.0	3822.66	3816.07	3725.31	3479.32	3051.44	2484.30	1658.08	859.20	254.57
180.0	3822.66	3816.07	3725.31	3479.32	3051.44	2484.30	1658.08	859.20	254.57
225.0	3822.66	3816.07	3725.31	3479.32	3051.44	2484.30	1658.08	859.20	254.57
270.0	3822.66	3816.07	3725.31	3479.32	3051.44	2484.30	1658.08	859.20	254.57
315.0	3822.66	3816.07	3725.31	3479.32	3051.44	2484.30	1658.08	859.20	254.57
360.0	3822.66	3816.07	3725.31	3479.32	3051.44	2484.30	1658.08	859.20	254.57

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	92.99	38.38	19.44	12.85	11.23	13.36	14.20	10.49	3.39
45.0	92.99	38.38	19.44	12.85	11.23	13.36	14.20	10.49	3.39
90.0	92.99	38.38	19.44	12.85	11.23	13.36	14.20	10.49	3.39
135.0	92.99	38.38	19.44	12.85	11.23	13.36	14.20	10.49	3.39
180.0	92.99	38.38	19.44	12.85	11.23	13.36	14.20	10.49	3.39
225.0	92.99	38.38	19.44	12.85	11.23	13.36	14.20	10.49	3.39
270.0	92.99	38.38	19.44	12.85	11.23	13.36	14.20	10.49	3.39
315.0	92.99	38.38	19.44	12.85	11.23	13.36	14.20	10.49	3.39
360.0	92.99	38.38	19.44	12.85	11.23	13.36	14.20	10.49	3.39

C/γ(°)	90.0
0.0	1.67
45.0	1.67
90.0	1.67
135.0	1.67
180.0	1.67
225.0	1.67
270.0	1.67
315.0	1.67
360.0	1.67