



Bell-Southcn Testing Laboratory(Shenzhen)

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## SOLERGIE(QINGDAO) RENEWABLE ENERGY CO.,LTD

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LumCAT: SLD26-860

Luminaire: LED Panel Light

Report No: BSR1409150201-10

Voltage(V): 230.070

Test No: BSR1409150201-10

Current(A): 0.106

LampCAT:

Power (W): 23.980

Lamp flux(lm)

PF: 0.988

Number of Lamps: 1

Ballast type:

Length(mm): 600

Width(mm): 600

Phm Type: C

Height(mm): 10

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## Photometric Results

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Lumens(lm): 2190.00

Lumens(lm)/Power(W): 91.33

Central intensity(cd): 767.091

Maximum intensity(cd): 767.091

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Left=55.7 Right=55.7

[C90/270]Left=55.3 Right=55.3

Field angle(10%Imax): [C0/180]Left=82.3 Right=82.3

[C90/270]Left=82.3 Right=82.3

Maximum s/h: C0\_180=1.26 C90\_270=1.26

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 77.658%

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Zonal flux distribution table

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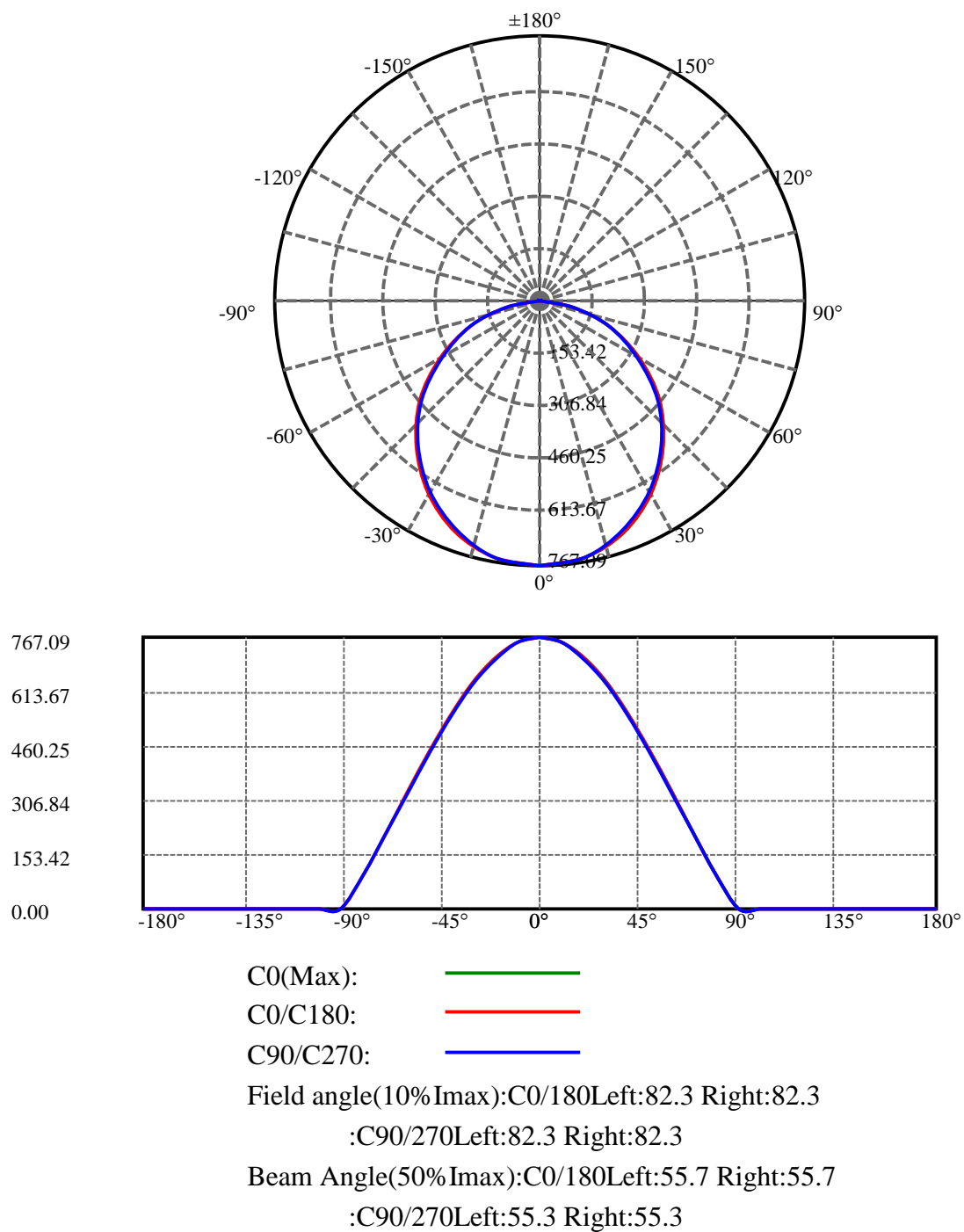
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	767.091	.000	.000	.000%	.000%
10.0	752.554	72.529	72.529	3.312%	3.312%
20.0	708.491	207.079	279.608	9.456%	12.767%
30.0	639.868	312.054	591.662	14.249%	27.017%
40.0	550.910	374.023	965.685	17.079%	44.095%
50.0	446.457	386.203	1351.888	17.635%	61.730%
60.0	331.140	348.815	1700.703	15.928%	77.658%
70.0	212.561	269.843	1970.546	12.322%	89.979%
80.0	99.603	165.121	2135.667	7.540%	97.519%
90.0	.000	54.337	2190.004	2.481%	100.000%
100.0	.000	.000	2190.004	.000%	100.000%
110.0	.000	.000	2190.004	.000%	100.000%
120.0	.000	.000	2190.004	.000%	100.000%
130.0	.000	.000	2190.004	.000%	100.000%
140.0	.000	.000	2190.004	.000%	100.000%
150.0	.000	.000	2190.004	.000%	100.000%
160.0	.000	.000	2190.004	.000%	100.000%
170.0	.000	.000	2190.004	.000%	100.000%
180.0	.000	.000	2190.004	.000%	100.000%

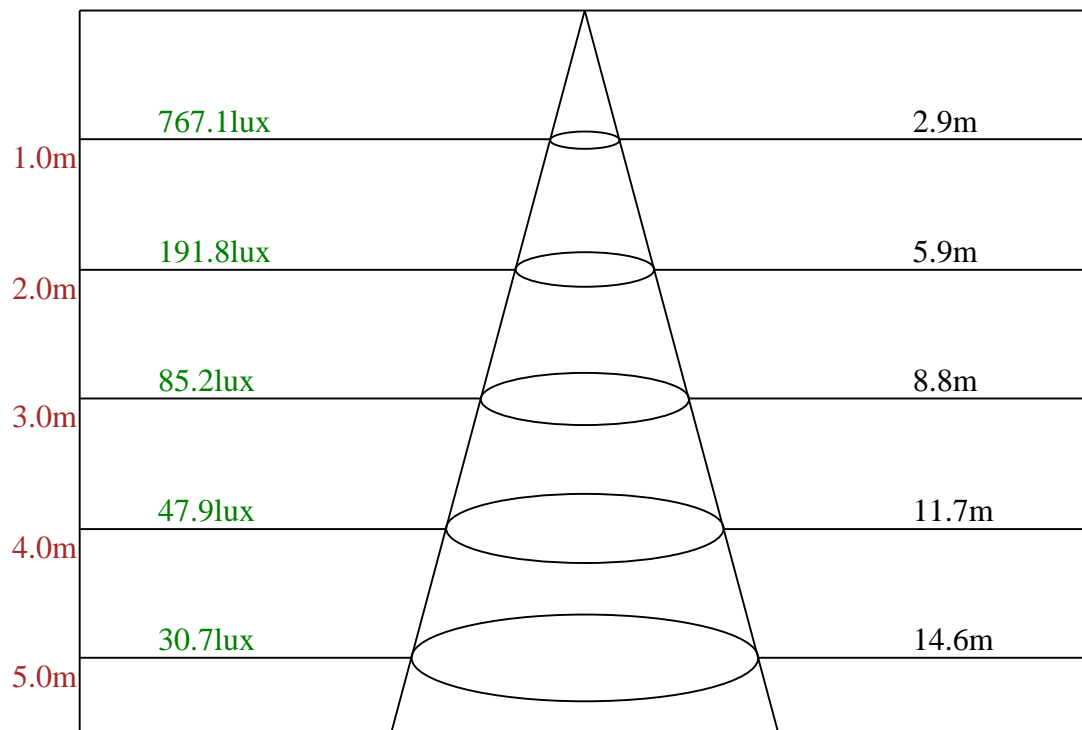
## ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	591.66	27.02%
0-40	965.69	44.10%
0-60	1700.70	77.66%
0-90	2190.00	100.00%
0-120	2190.00	100.00%
0-180	2190.00	100.00%
60-90	838.12	38.27%
90-120	0.00	0.00%
90-130	0.00	0.00%
90-150	0.00	0.00%
90-180	0.00	0.00%
0-61.90	1752.00	80.00%

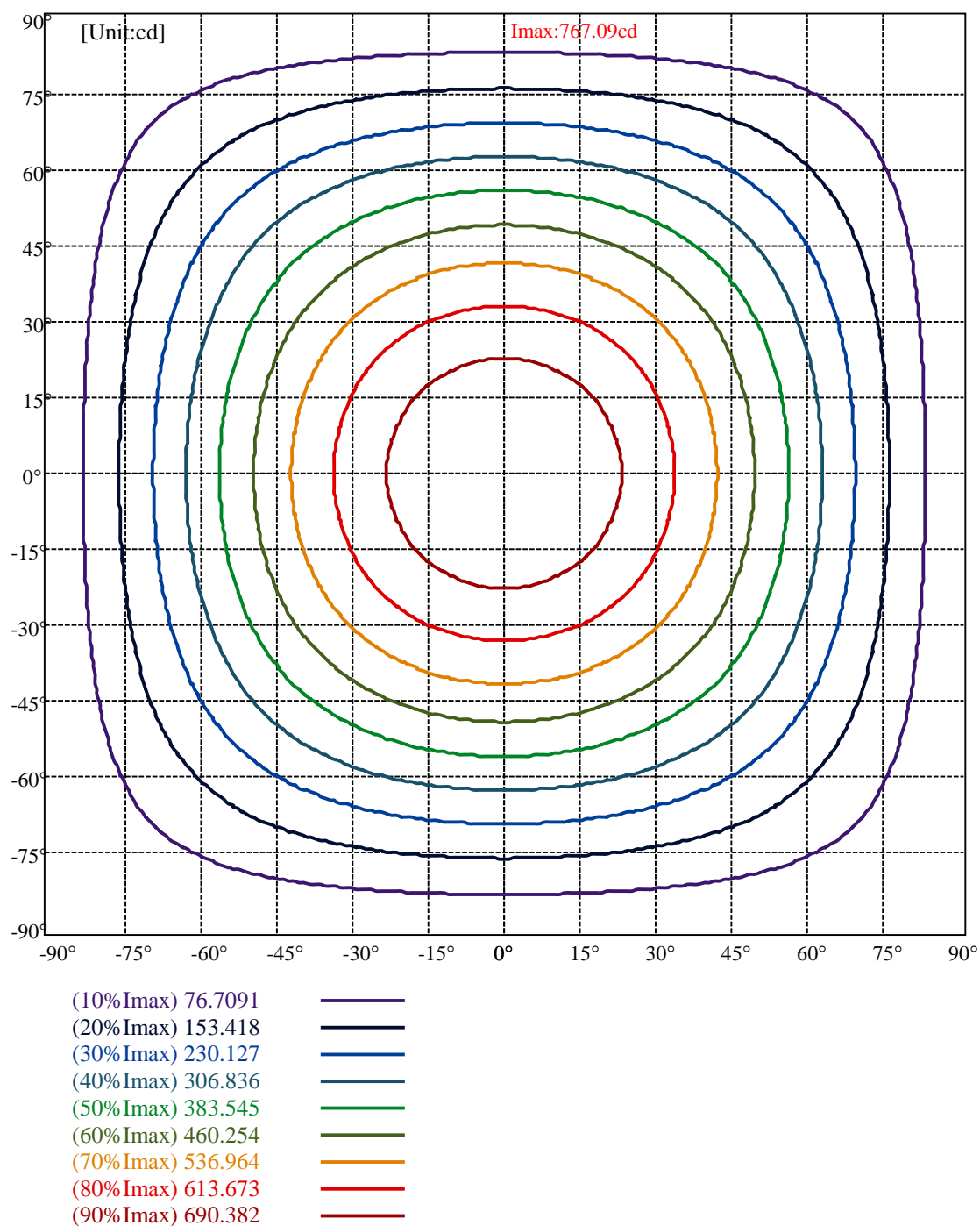
## ZONAL LUMEN SUMMARY

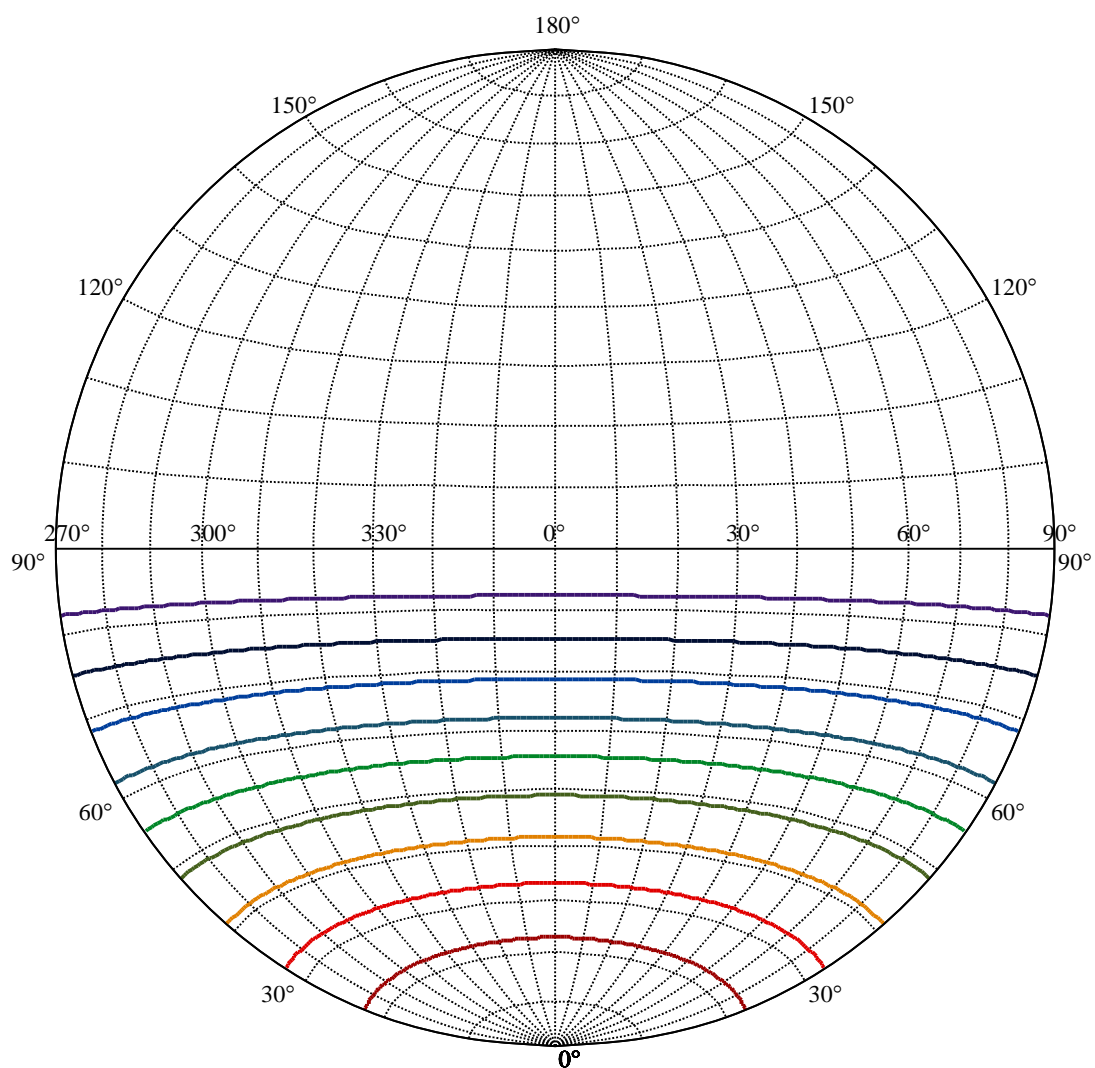
0-10	72.53
10-20	207.08
20-30	312.05
30-40	374.02
40-50	386.20
50-60	348.81
60-70	269.84
70-80	165.12
80-90	54.34
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Beam angle of C0plane111.35





Imax:767.09

(10%Imax) 76.7091

(20%Imax) 153.418

(30%Imax) 230.127

(40%Imax) 306.836

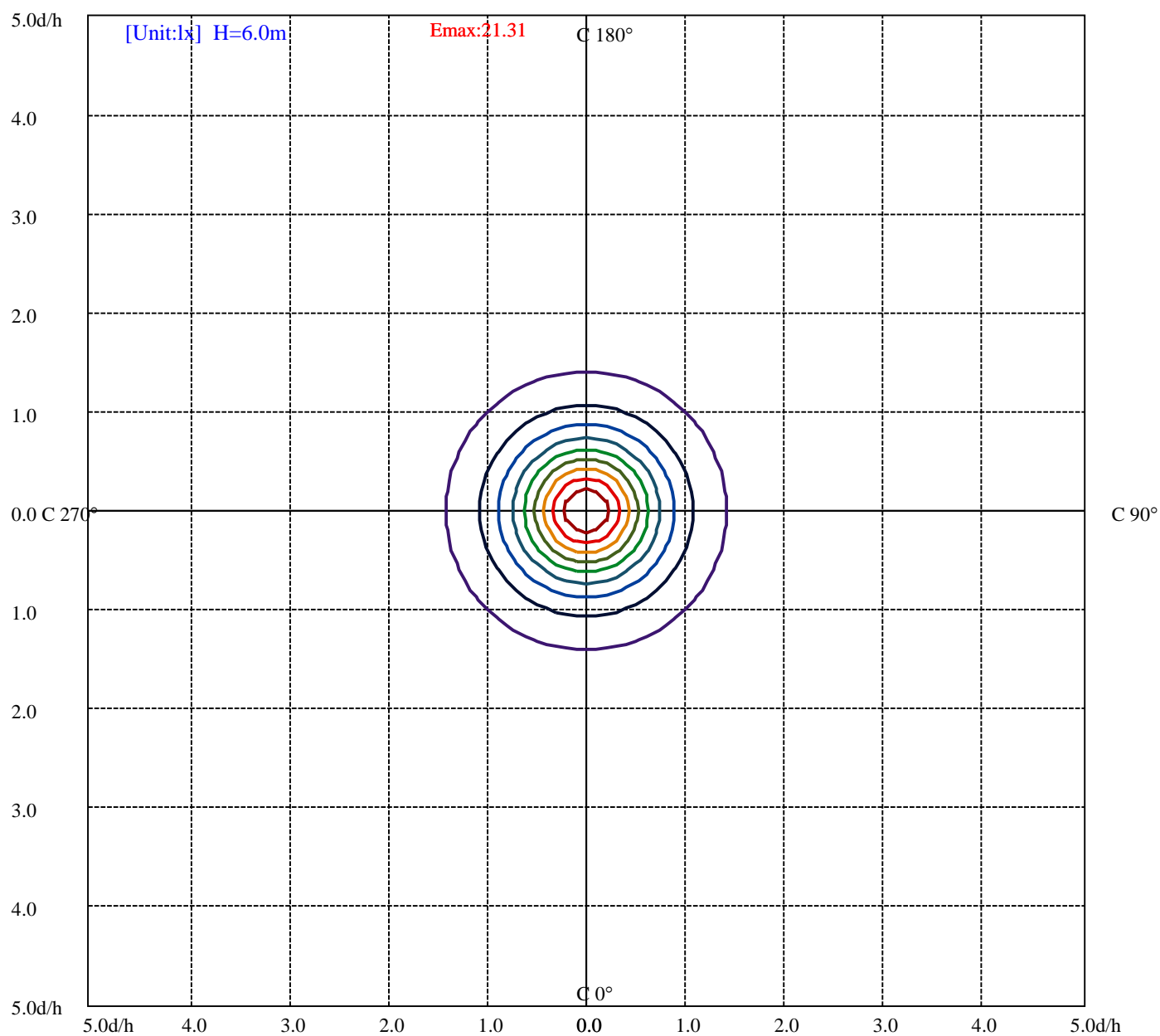
(50%Imax) 383.545

(60%Imax) 460.254

(70%Imax) 536.964

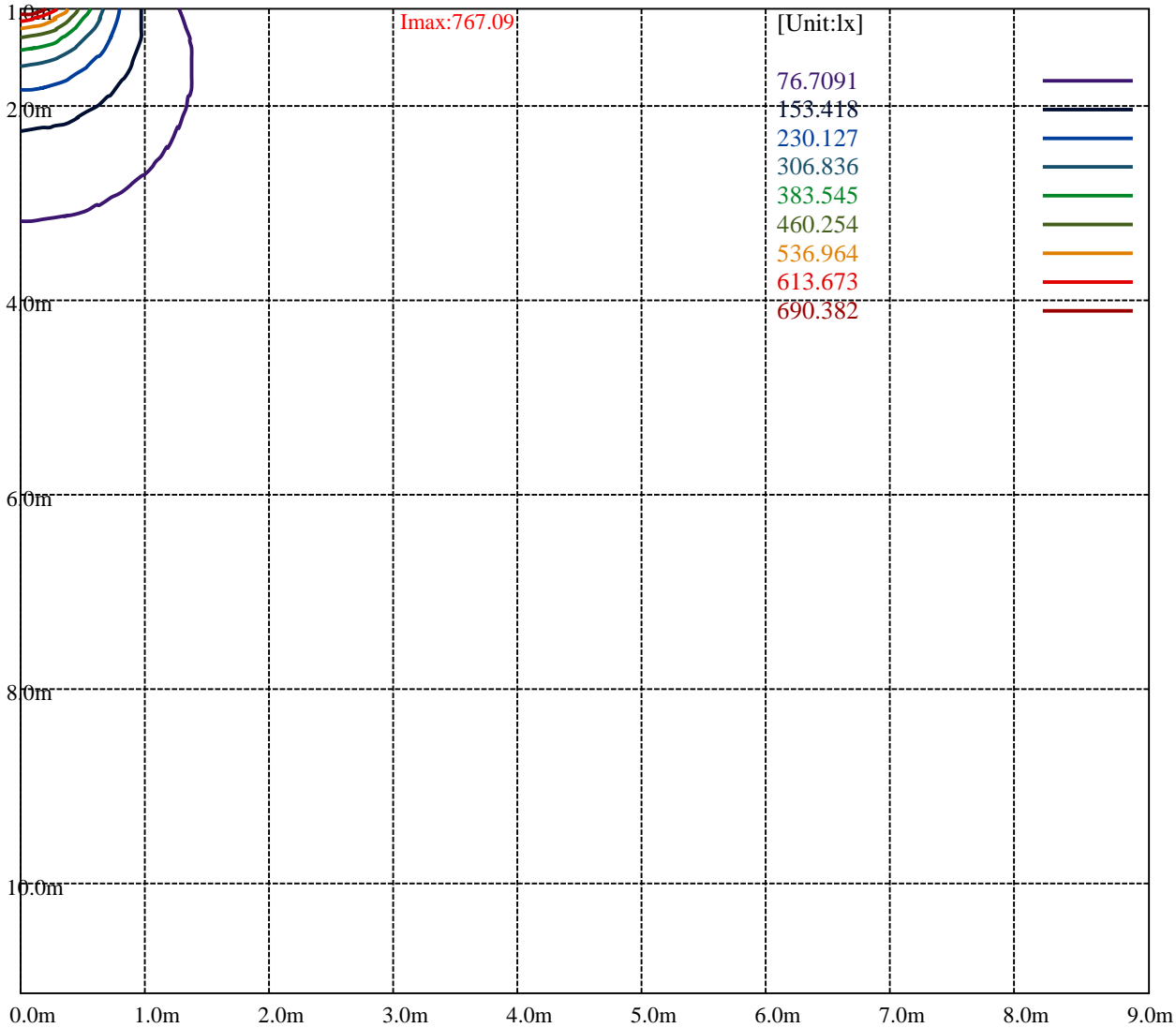
(80%Imax) 613.673

(90%Imax) 690.382



(10%Emax) 2.130808	—
(20%Emax) 4.261611	—
(30%Emax) 6.392416	—
(40%Emax) 8.523222	—
(50%Emax) 10.65403	—
(60%Emax) 12.78483	—
(70%Emax) 14.91564	—
(80%Emax) 17.04644	—
(90%Emax) 19.17728	—





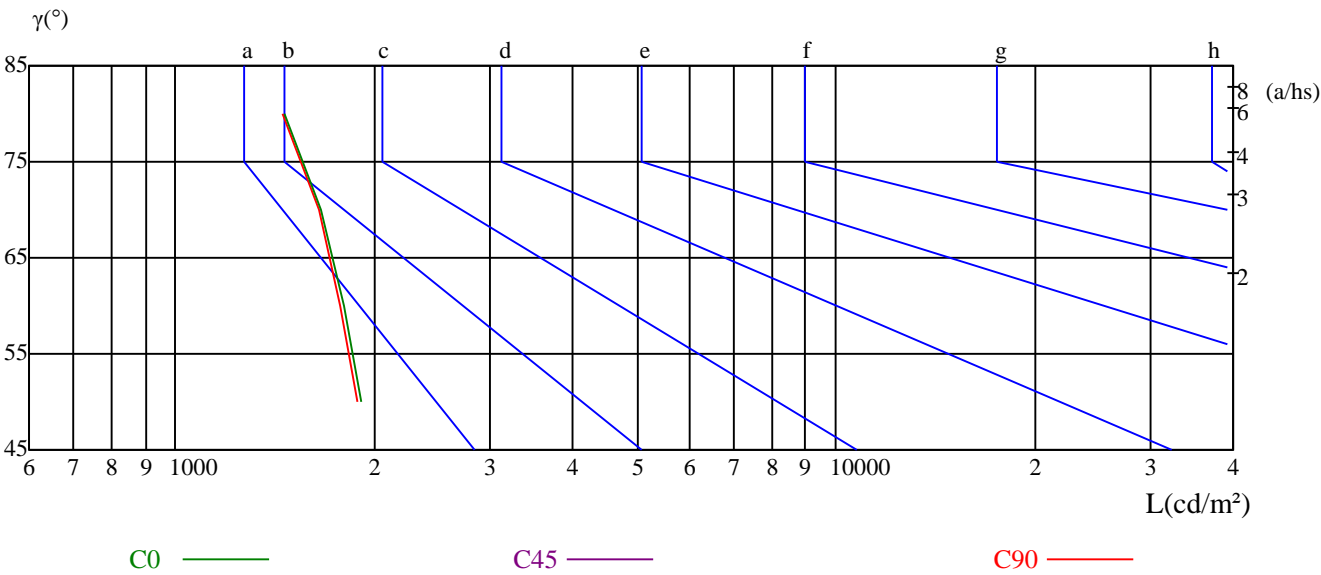
Luminance Table

$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	1906	0	1798	0	1661	0	1461	0
C45	0	0	0	0	0	0	0	0	0
C90	0	1888	0	1777	0	1647	0	1449	0

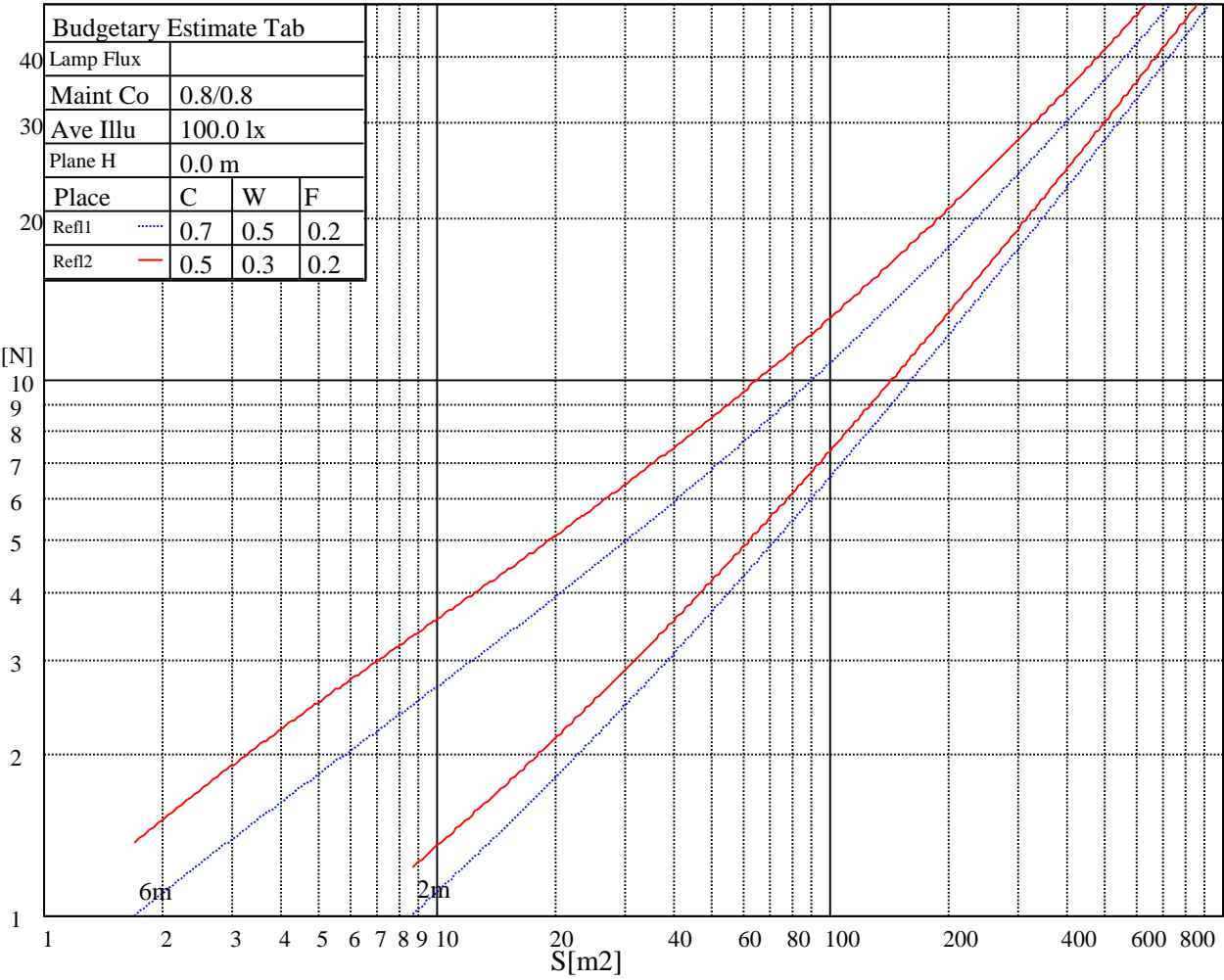
Glare Table

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

Luminance Limiting Curve



Illuminatin assessment acconding 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	12.0	13.4	12.3	13.6	13.9	11.9	13.3	12.2	13.6	13.8
	3H	13.7	14.9	14.0	15.2	15.5	13.6	14.9	13.9	15.1	15.4
	4H	14.2	15.3	14.6	15.6	15.9	14.2	15.2	14.5	15.6	15.9
	6H	14.8	15.9	15.2	16.2	16.6	14.8	15.8	15.2	16.2	16.5
	8H	15.1	16.1	15.5	16.5	16.8	15.0	16.1	15.4	16.4	16.8
	12H	15.1	15.9	15.5	16.3	16.7	15.0	15.8	15.5	16.2	16.6
4H	2H	12.5	13.6	12.9	13.9	14.2	12.5	13.5	12.8	13.9	14.2
	3H	14.4	15.2	14.8	15.6	16.0	14.3	15.1	14.8	15.5	15.9
	4H	15.3	16.1	15.7	16.5	16.9	15.2	16.0	15.7	16.4	16.8
	6H	16.0	16.8	16.4	17.2	17.6	16.0	16.8	16.4	17.2	17.6
	8H	16.2	16.6	16.7	17.1	17.6	16.1	16.6	16.6	17.1	17.6
	12H	16.4	16.9	16.9	17.3	17.8	16.3	16.8	16.8	17.3	17.8
8H	4H	15.6	16.0	16.1	16.5	17.0	15.5	16.0	16.0	16.5	17.0
	6H	16.5	16.9	16.9	17.4	17.9	16.4	16.9	16.9	17.4	17.9
	8H	16.8	17.3	17.3	17.8	18.3	16.8	17.3	17.3	17.7	18.2
	12H	17.2	17.6	17.7	18.1	18.6	17.1	17.6	17.6	18.1	18.6
12H	4H	15.6	16.1	16.1	16.6	17.1	15.6	16.0	16.1	16.5	17.0
	6H	16.6	17.0	17.1	17.5	18.0	16.5	17.0	17.0	17.5	18.0
	8H	17.0	17.5	17.5	17.9	18.5	17.0	17.4	17.5	17.9	18.4
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.2/-0.7				
S = 1.5H		0.6/-0.6					0.6/-0.6				
S = 2.0H		0.7/-0.7					0.7/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		1.2					1.2				
According 1000lm											



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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.03	0.99	0.95	1.01	0.97	0.93	0.97	0.94	0.90	0.93	0.90	0.88	0.89	0.87	0.85	0.83
2	0.90	0.83	0.77	0.88	0.82	0.76	0.84	0.79	0.74	0.81	0.77	0.73	0.78	0.74	0.71	0.69
3	0.79	0.71	0.64	0.77	0.70	0.63	0.74	0.68	0.62	0.71	0.66	0.61	0.69	0.64	0.60	0.58
4	0.70	0.61	0.54	0.68	0.60	0.54	0.66	0.59	0.53	0.64	0.57	0.52	0.61	0.56	0.51	0.49
5	0.62	0.53	0.46	0.61	0.53	0.46	0.59	0.51	0.46	0.57	0.50	0.45	0.55	0.49	0.45	0.43
6	0.56	0.47	0.41	0.55	0.47	0.40	0.53	0.46	0.40	0.52	0.45	0.40	0.50	0.44	0.39	0.37
7	0.51	0.42	0.36	0.50	0.42	0.36	0.48	0.41	0.35	0.47	0.40	0.35	0.46	0.40	0.35	0.33
8	0.46	0.38	0.32	0.46	0.38	0.32	0.44	0.37	0.32	0.43	0.36	0.31	0.42	0.36	0.31	0.29
9	0.43	0.34	0.29	0.42	0.34	0.29	0.41	0.34	0.28	0.40	0.33	0.28	0.39	0.33	0.28	0.26
10	0.39	0.31	0.26	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.30	0.26	0.36	0.30	0.26	0.24

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Intensity data(cd)

C/γ(°)

0.0

10.0

20.0

30.0

40.0

50.0

60.0

70.0

80.0

0.0

767.09

754.94

711.29

643.44

554.55

449.79

333.06

213.85

99.95

30.0

767.09

752.25

708.79

640.79

551.98

447.40

332.06

212.87

100.06

60.0

767.09

751.76

707.47

638.48

549.33

444.34

330.26

211.83

99.22

90.0

767.09

752.37

707.13

637.23

548.28

445.47

329.15

212.12

99.11

120.0

767.09

751.76

707.47

638.48

549.33

444.34

330.26

211.83

99.22

150.0

767.09

752.25

708.79

640.79

551.98

447.40

332.06

212.87

100.06

180.0

767.09

754.94

711.29

643.44

554.55

449.79

333.06

213.85

99.95

210.0

767.09

752.25

708.79

640.79

551.98

447.40

332.06

212.87

100.06

240.0

767.09

751.76

707.47

638.48

549.33

444.34

330.26

211.83

99.22

270.0

767.09

752.37

707.13

637.23

548.28

445.47

329.15

212.12

99.11

300.0

767.09

751.76

707.47

638.48

549.33

444.34

330.26

211.83

99.22

330.0

767.09

752.25

708.79

640.79

551.98

447.40

332.06

212.87

100.06

360.0

767.09

754.94

711.29

643.44

554.55

449.79

333.06

213.85

99.95

C/γ(°)

90.0

100.0

110.0

120.0

130.0

140.0

150.0

160.0

170.0

0.0

0.00

0.00

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0.00

360.0

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0.00

0.00

C/γ(°)

180.0

0.0

0.00

30.0

0.00

60.0

0.00

90.0

0.00

120.0

0.00

150.0

0.00

180.0

0.00

210.0

0.00

240.0

0.00

270.0

0.00

300.0

0.00

330.0

0.00

360.0

0.00

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