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Nata

Client:

LumCAT: 3-2117-N

Luminaire: 92.70.131.00

Report No:

Voltage(V): 34.0200

Test No: GC20190823010

Current(A): 0.4480

LampCAT: TRIDONIC SLE 15MM G7

Power (W): 15.2400

Lamp flux(lm): 2050.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 74

Width(mm): 74

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1658.21, Efficiency(%): 80.89% , Luminous Efficacy(lm/W): 108.81

Central intensity(cd): 4129.594, Maximum intensity(cd): 4129.594

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.6

[C90/270]Total=35.6

Field angle(10%Imax): [C0/180]Total=59.8

[C90/270]Total=59.8

Maximum s/h(1/2): C0_180=0.60 C90_270=0.60

Maximum s/h(1/4): C0_180=0.56 C90_270=0.56

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 80.89%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.771%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2019/8/23
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

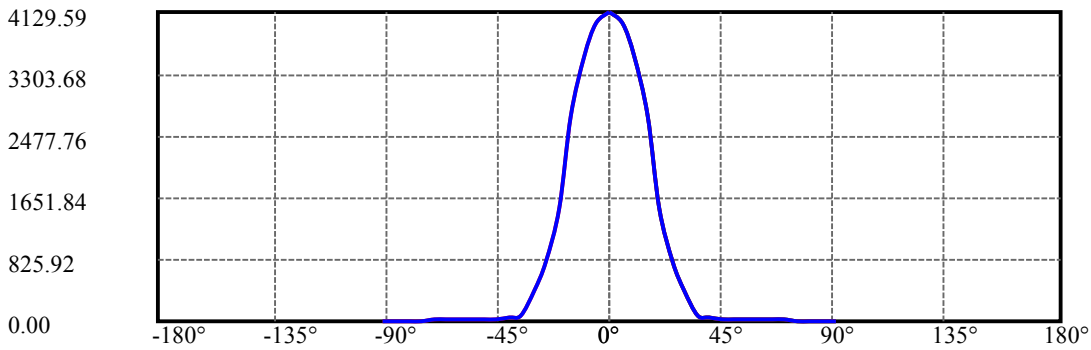
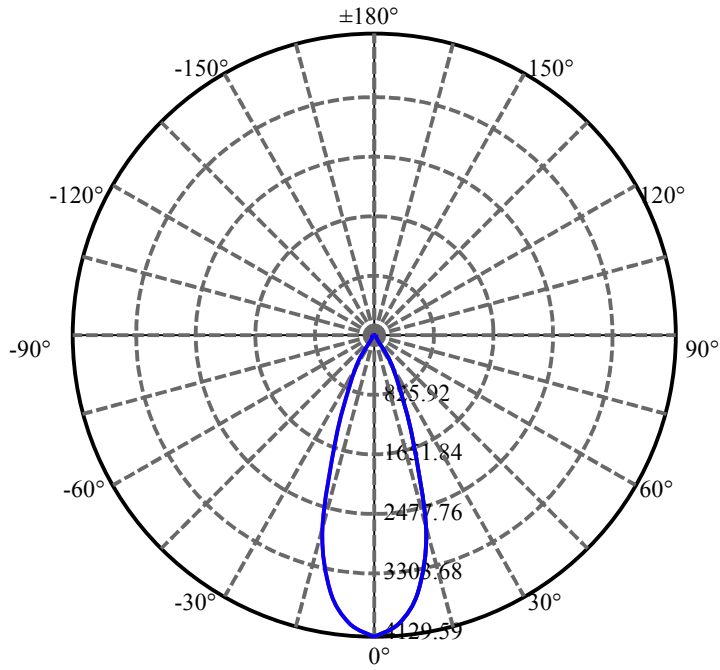
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4129.594	0.000	0	.000%	.000%
5.0	3972.656	96.860	96.86	4.725%	5.841%
10.0	3549.094	269.077	365.937	13.126%	22.068%
15.0	2740.008	373.065	739.002	18.198%	44.566%
20.0	1521.809	351.234	1090.236	17.133%	65.748%
25.0	797.857	243.290	1333.526	11.868%	80.420%
30.0	404.599	152.172	1485.697	7.423%	89.596%
35.0	85.584	72.183	1557.88	3.521%	93.949%
40.0	44.325	21.674	1579.555	1.057%	95.257%
45.0	30.087	13.778	1593.333	.672%	96.087%
50.0	22.922	10.711	1604.044	.522%	96.733%
55.0	18.788	9.069	1613.113	.442%	97.280%
60.0	16.411	8.136	1621.249	.397%	97.771%
65.0	14.534	7.523	1628.772	.367%	98.225%
70.0	13.057	6.986	1635.758	.341%	98.646%
75.0	11.742	6.482	1642.24	.316%	99.037%
80.0	10.392	5.923	1648.162	.289%	99.394%
85.0	9.176	5.317	1653.48	.259%	99.715%
90.0	8.107	4.732	1658.212	.231%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1485.70	72.47%	89.60%
0-40	1579.55	77.05%	95.26%
0-60	1621.25	79.09%	97.77%
0-90	1653.48	80.66%	99.71%
0-120	1653.48	80.66%	99.71%
0-180	1658.21	80.89%	100.00%
60-90	40.37	1.97%	2.43%
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%
0-24.86	1326.57	64.71%	80.00%

ZONAL LUMEN SUMMARY

0-10	365.94
10-20	724.30
20-30	395.46
30-40	93.86
40-50	24.49
50-60	17.21
60-70	14.51
70-80	12.40
80-90	5.32
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: ———

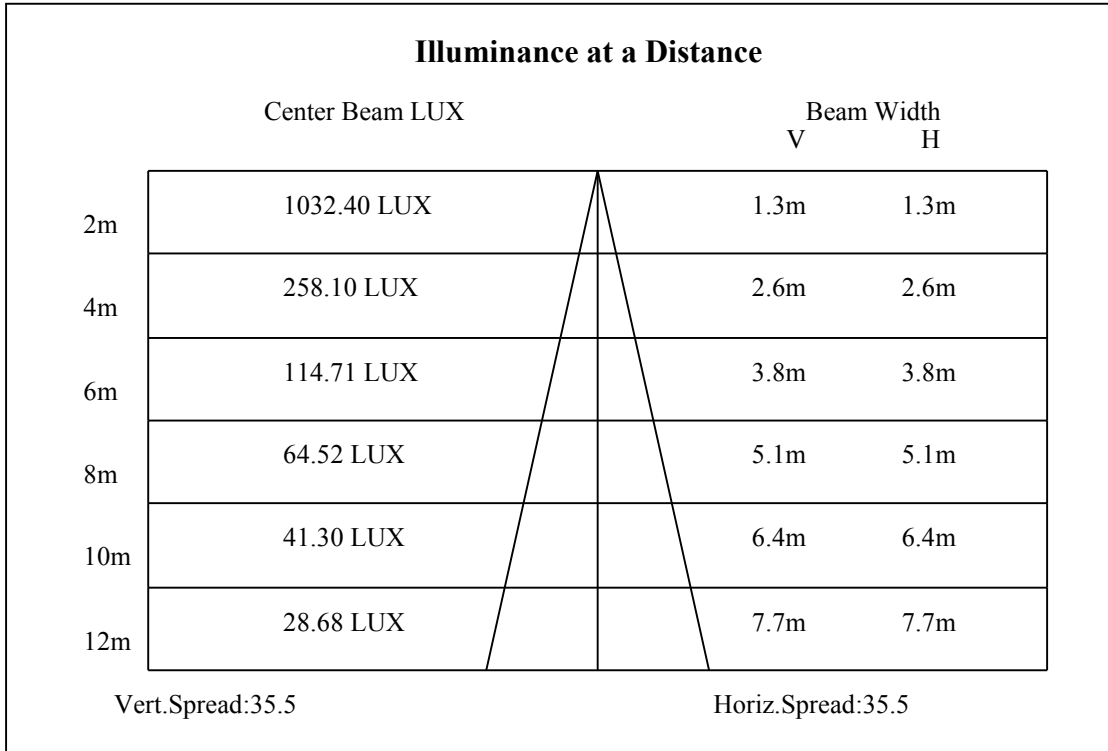
C90/C270: ———

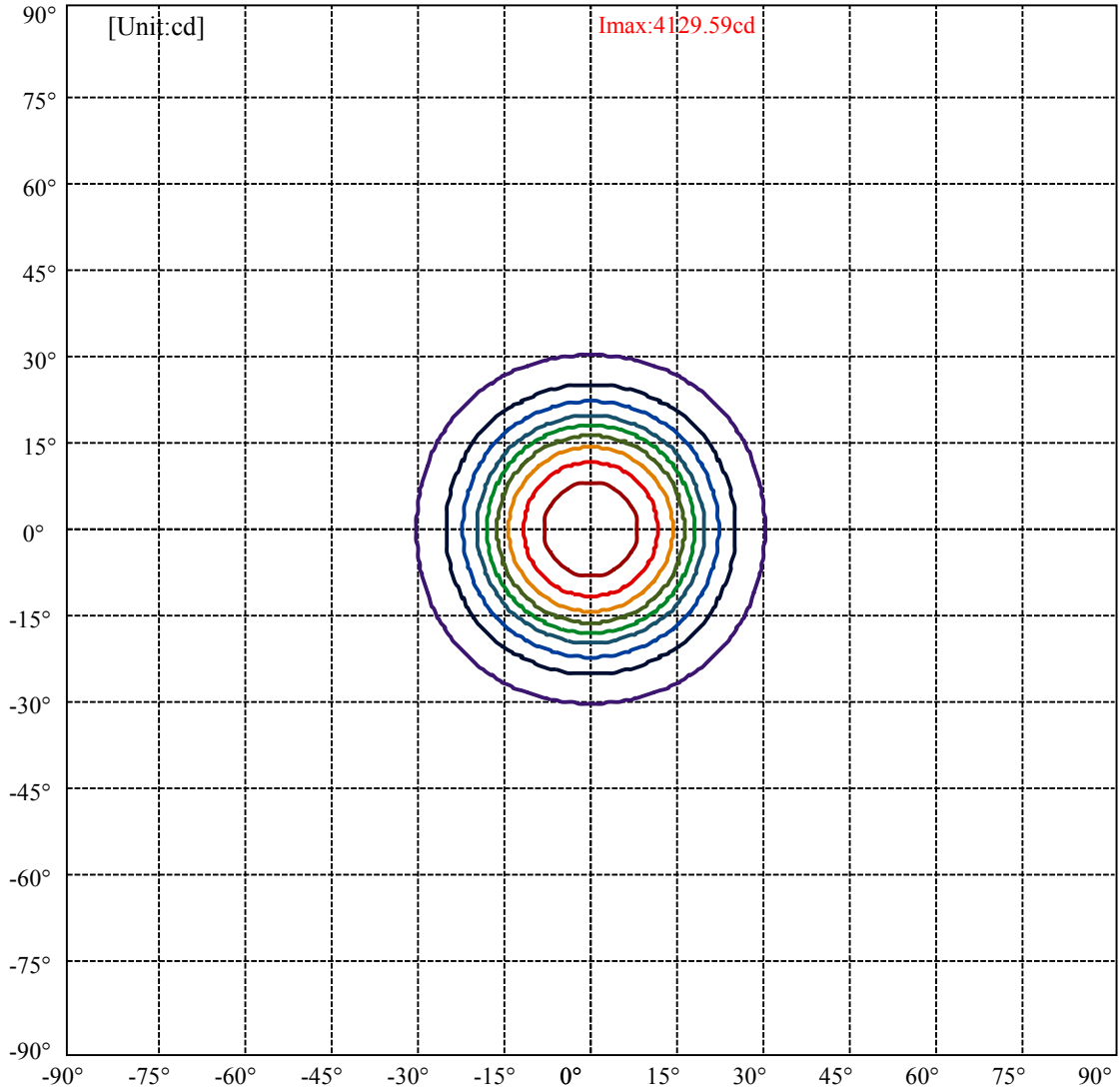
Field angle(10%Imax):C0/180Left:29.9 Right:29.9

:C90/270Left:29.9 Right:29.9

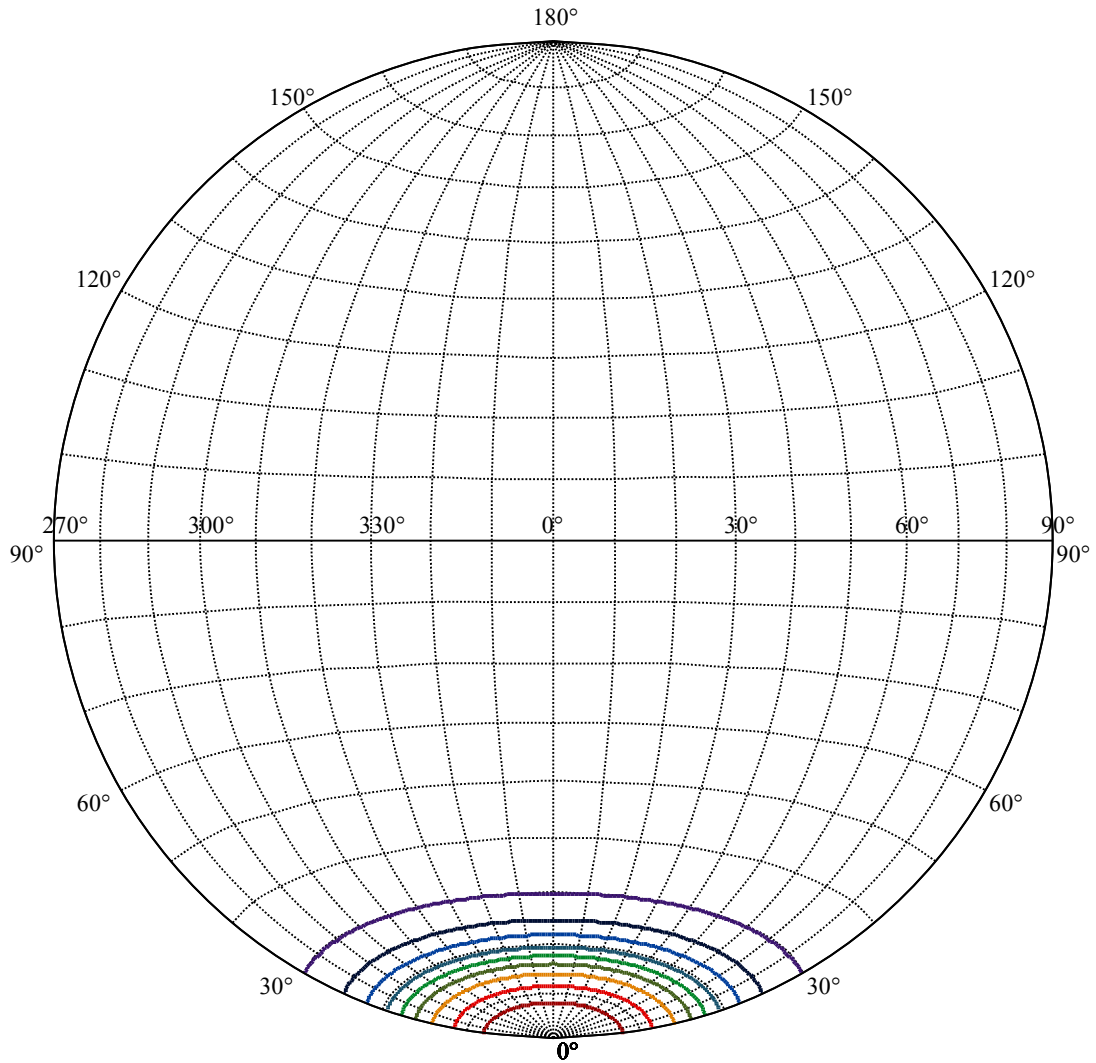
Beam Angle(50%Imax):C0/180Left:17.8 Right:17.8

:C90/270Left:17.8 Right:17.8





(10%Imax) 412.959	—
(20%Imax) 825.919	—
(30%Imax) 1238.88	—
(40%Imax) 1651.84	—
(50%Imax) 2064.8	—
(60%Imax) 2477.76	—
(70%Imax) 2890.72	—
(80%Imax) 3303.68	—
(90%Imax) 3716.63	—



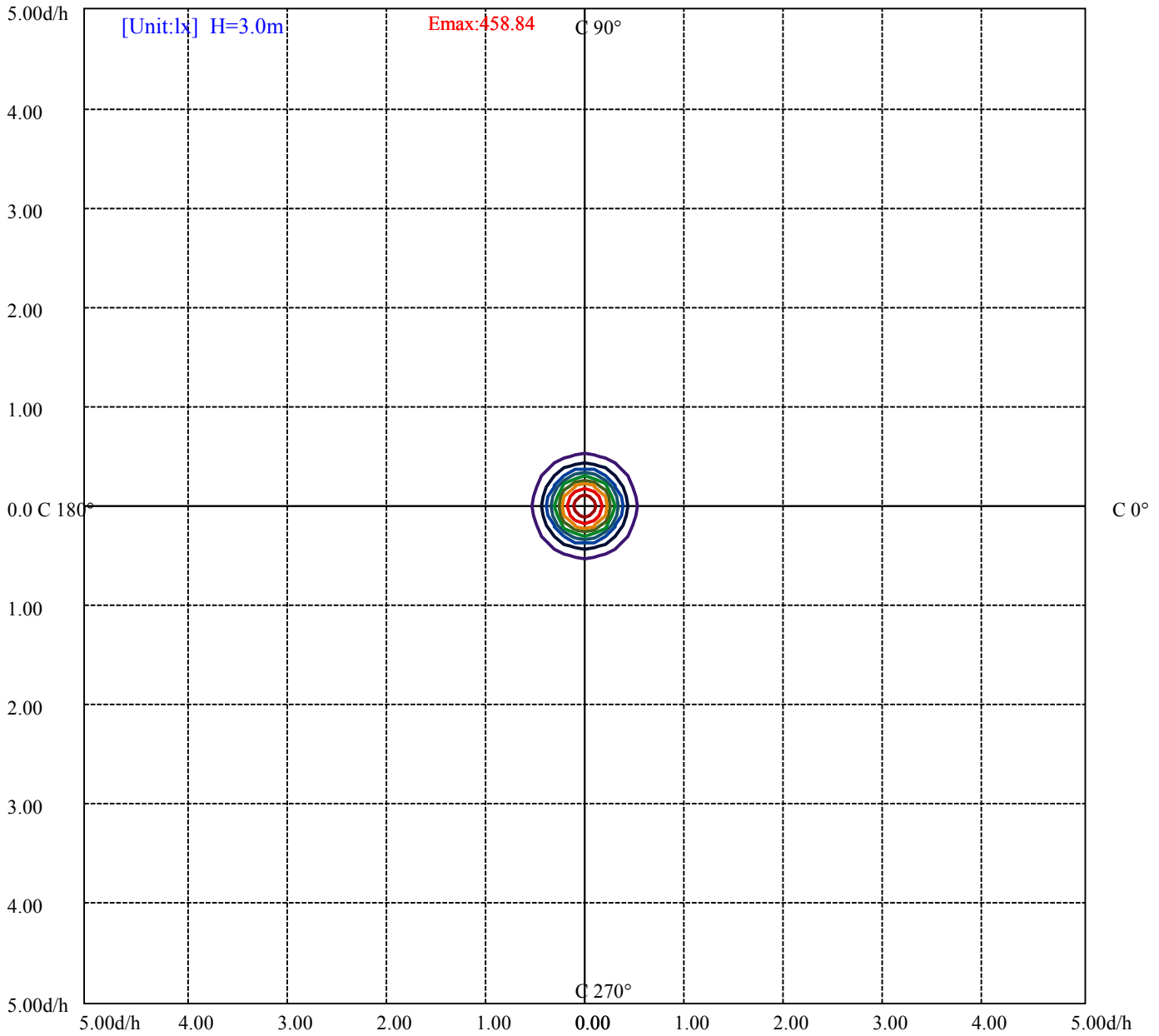
House

[Unit:cd]

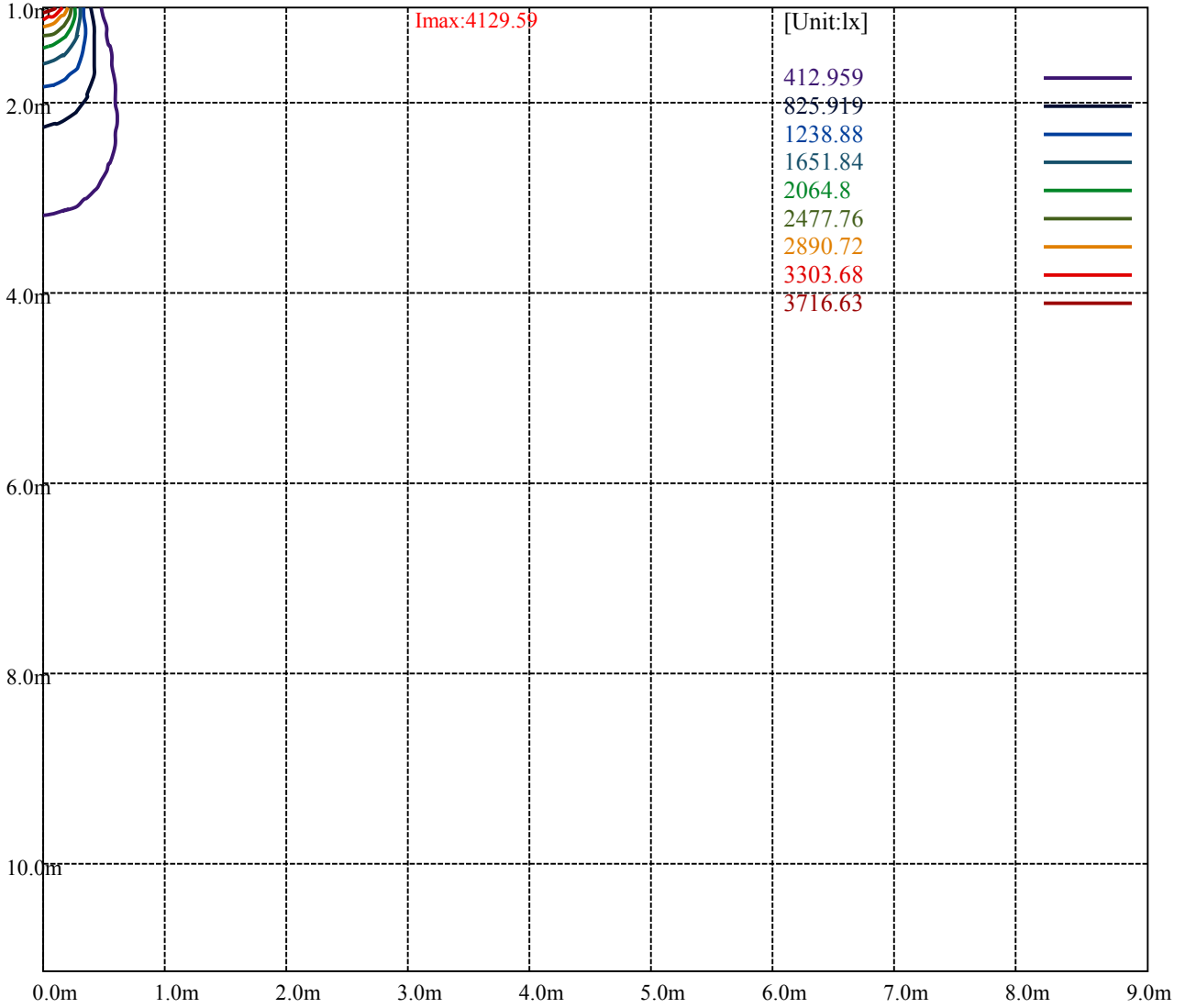
Road

Imax:4129.59

(10%Imax)	412.959	—
(20%Imax)	825.919	—
(30%Imax)	1238.88	—
(40%Imax)	1651.84	—
(50%Imax)	2064.8	—
(60%Imax)	2477.76	—
(70%Imax)	2890.72	—
(80%Imax)	3303.68	—
(90%Imax)	3716.63	—



- (10%Emax) 45.88433
- (20%Emax) 91.76867
- (30%Emax) 137.6533
- (40%Emax) 183.5378
- (50%Emax) 229.4211
- (60%Emax) 275.3055
- (70%Emax) 321.19
- (80%Emax) 367.0744
- (90%Emax) 412.9589



Luminance Table

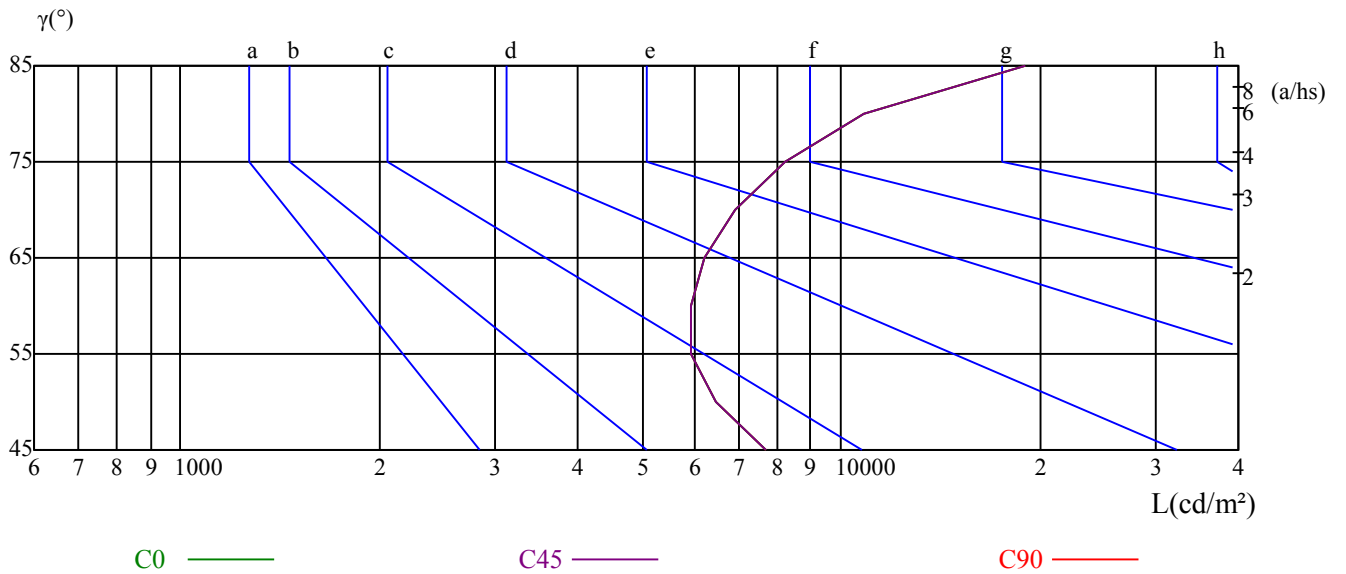
γ	45	50	55	60	65	70	75	80	85
C0	7707	6460	5933	5945	6229	6915	8218	10841	19071
C45	7707	6460	5933	5945	6229	6915	8218	10841	19071
C90	7707	6460	5933	5945	6229	6915	8218	10841	19071

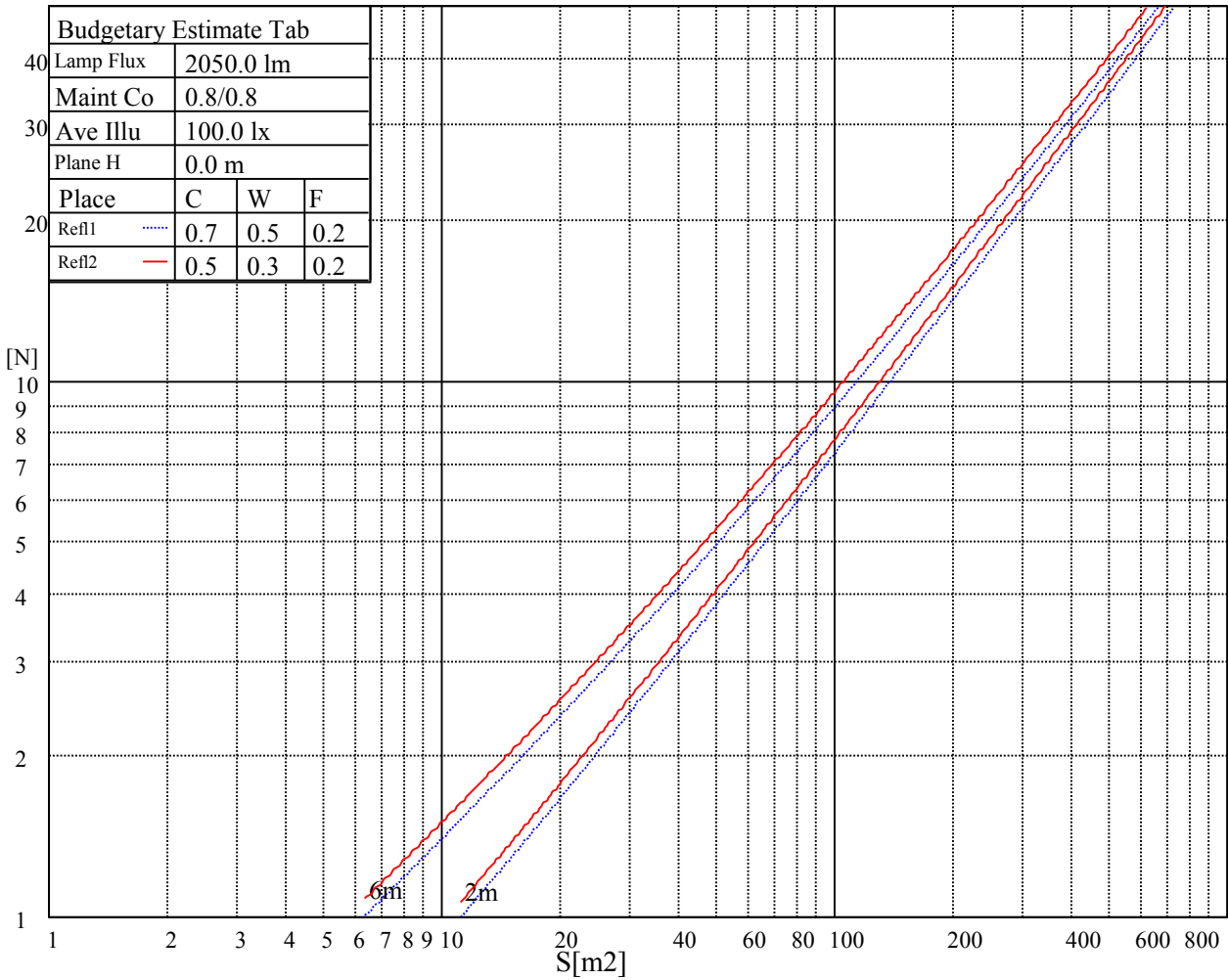
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6229	6229	6229	8218	8218	8218	19071	19071	19071

Glare Table

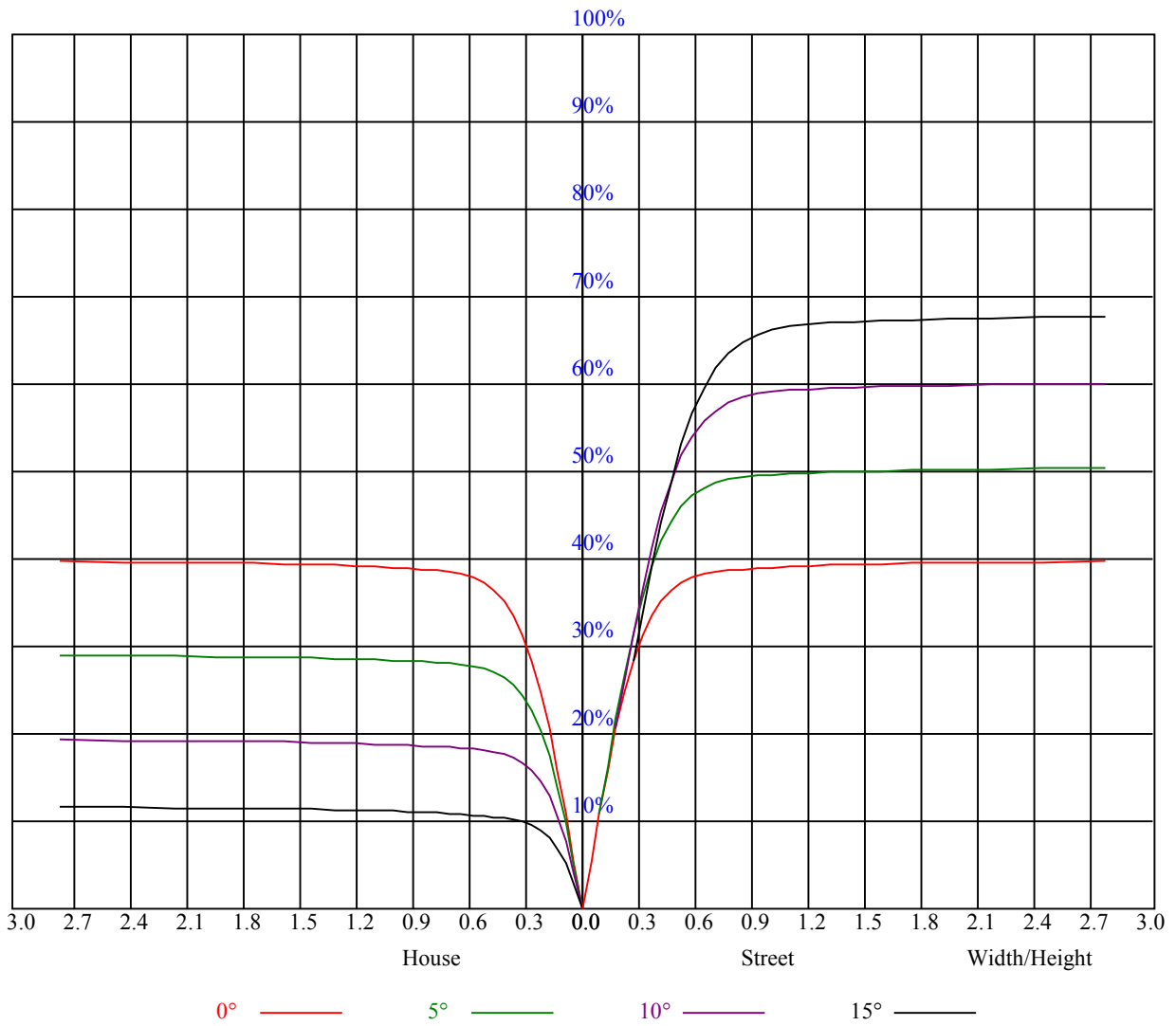
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

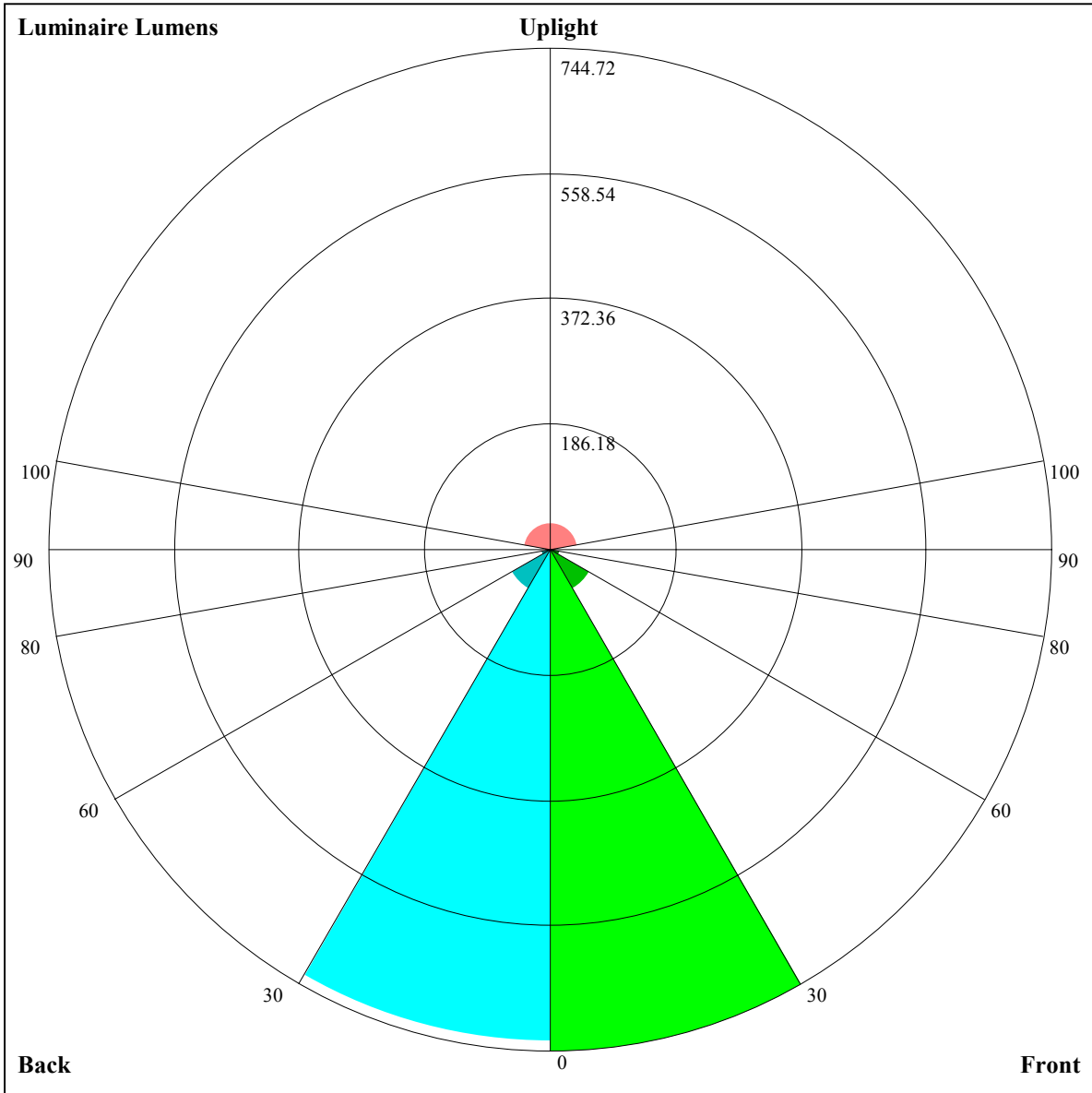
Luminance Limiting Curve





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	0.96	0.96	0.96	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.83	0.83	0.83	0.81
1	0.90	0.88	0.87	0.88	0.87	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.79	0.78	0.77
2	0.85	0.82	0.80	0.84	0.81	0.79	0.81	0.79	0.77	0.79	0.77	0.76	0.77	0.75	0.74	0.73
3	0.81	0.77	0.74	0.79	0.76	0.74	0.77	0.75	0.73	0.76	0.73	0.72	0.74	0.72	0.70	0.69
4	0.77	0.73	0.70	0.76	0.72	0.70	0.74	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.67	0.66
5	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.63
6	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.64	0.62	0.61
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	0.64	0.60	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.56
9	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.54
10	0.60	0.56	0.53	0.59	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.58	0.55	0.53	0.52





Luminaire Lumens:

FL=744.72,FM=67.77,FH=13.47,FVH=5.01

BL=729.68,BM=66.16,BH=13.43,BVH=5.04

UL=8.85,UH=42.09

BUG Rating:B2-U2-G0

Intensity data(cd)

C/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	4123.13	4048.88	3632.63	2828.25	1667.81	775.69	432.56	82.07	45.34
45.0	4122.00	4096.13	3744.56	2973.94	1863.56	879.75	485.44	126.28	50.74
90.0	4138.88	4019.06	3577.50	2805.75	1694.81	816.97	429.47	86.29	45.23
135.0	4134.38	4016.81	3669.19	2970.00	1879.88	910.69	515.81	112.33	46.74
180.0	4123.13	3896.44	3449.81	2674.13	1362.38	812.19	403.59	70.03	42.69
225.0	4122.00	3815.44	3342.38	2422.13	1091.25	654.81	275.79	67.27	40.78
270.0	4138.88	3940.88	3481.88	2714.06	1535.06	808.88	390.38	75.09	43.31
315.0	4134.38	3947.63	3494.81	2531.81	1079.72	723.88	303.75	65.31	39.77
360.0	4123.13	4048.88	3632.63	2828.25	1667.81	775.69	432.56	82.07	45.34
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	30.94	23.23	18.90	16.43	14.46	12.99	11.53	10.29	9.00
45.0	33.53	24.81	19.86	17.21	15.13	13.50	12.15	10.63	9.34
90.0	30.26	23.46	19.13	16.43	14.68	13.16	11.81	10.58	9.39
135.0	31.56	23.68	19.18	16.71	14.74	13.33	12.15	10.80	9.62
180.0	28.74	22.11	18.39	16.09	14.23	12.83	11.59	10.29	9.11
225.0	28.41	21.99	18.28	16.20	14.40	12.94	11.53	10.13	8.94
270.0	29.31	22.39	18.51	16.26	14.46	12.94	11.64	10.24	9.00
315.0	27.96	21.71	18.06	15.98	14.18	12.77	11.53	10.18	9.00
360.0	30.94	23.23	18.90	16.43	14.46	12.99	11.53	10.29	9.00
C/ γ (°)	90.0								
0.0	7.99								
45.0	8.16								
90.0	8.27								
135.0	8.33								
180.0	8.04								
225.0	8.04								
270.0	8.04								
315.0	7.99								
360.0	7.99								