
Americanlite

LumCAT: AL674930

Luminaire:

Report No:

Test No: BG6-223595-01

LampCAT:

Lamp flux(lm): -1.0

Number of Lamps: 1

Length(mm): 547

Phm Type: C

Voltage(V): 120.0200

Current(A): 0.3360

Power (W): 39.9400

PF: 0.9906

Ballast type:

Width(mm): 547

Height(mm): 0

Photometric Results

Lumens(lm): 5180.00

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 129.69

Central intensity(cd): 1793.771

Maximum intensity(cd): 1793.771

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=112.8

[C90/270]Total=113.2

Field angle(10%Imax): [C0/180]Total=162.4

[C90/270]Total=163.2

Maximum s/h(1/2): C0_180=1.26 C90_270=1.26

Maximum s/h(1/4): C0_180=1.38 C90_270=1.38

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.34%

Down flux rate of LUM(%): 99.66%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 77.890%

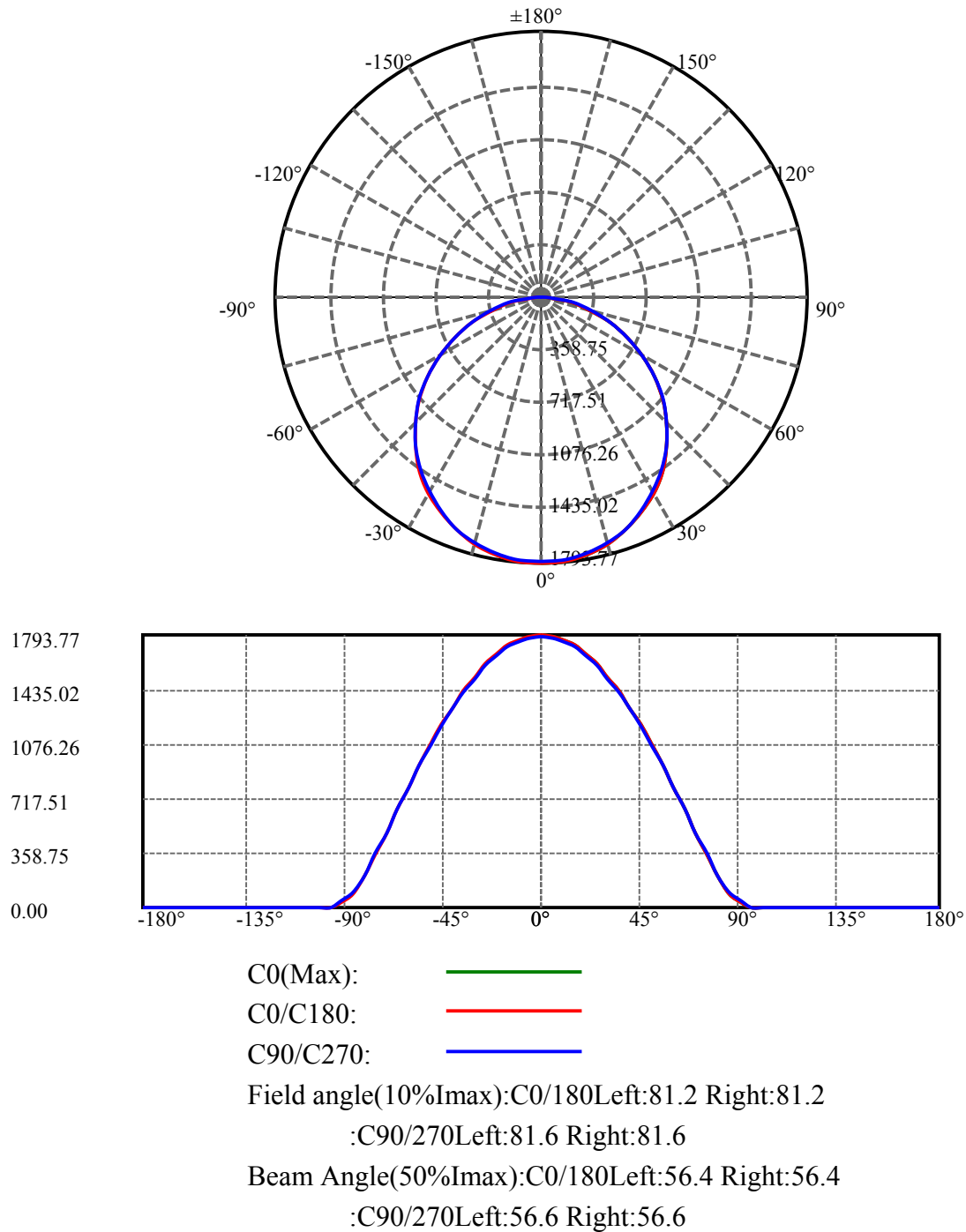
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1784.038	.000	.000	.000%	.000%
5.0	1775.772	42.557	42.557	.000%	.000%
10.0	1752.530	126.219	168.775	.000%	.000%
15.0	1714.427	205.658	374.433	.000%	.000%
20.0	1662.177	278.280	652.712	.000%	.000%
25.0	1594.820	341.599	994.311	.000%	.000%
30.0	1513.485	393.359	1387.670	.000%	.000%
35.0	1419.937	431.967	1819.636	.000%	.000%
40.0	1314.233	456.176	2275.812	.000%	.000%
45.0	1197.294	465.030	2740.842	.000%	.000%
50.0	1070.848	458.311	3199.153	.000%	.000%
55.0	935.289	436.201	3635.354	.000%	.000%
60.0	792.459	399.364	4034.718	.000%	.000%
65.0	644.275	349.273	4383.991	.000%	.000%
70.0	495.583	288.619	4672.610	.000%	.000%
75.0	348.695	220.681	4893.291	.000%	.000%
80.0	212.253	150.094	5043.385	.000%	.000%
85.0	94.769	83.425	5126.810	.000%	.000%
90.0	34.796	35.476	5162.286	.000%	.000%
95.0	1.146	9.841	5172.127	.000%	.000%
100.0	.864	.546	5172.674	.000%	.000%
105.0	.770	.437	5173.111	.000%	.000%
110.0	1.240	.525	5173.636	.000%	.000%
115.0	.977	.561	5174.198	.000%	.000%
120.0	1.184	.525	5174.723	.000%	.000%
125.0	1.465	.612	5175.335	.000%	.000%
130.0	1.672	.682	5176.018	.000%	.000%
135.0	1.597	.661	5176.678	.000%	.000%
140.0	1.635	.598	5177.277	.000%	.000%
145.0	1.898	.589	5177.866	.000%	.000%
150.0	1.860	.553	5178.419	.000%	.000%
155.0	1.916	.478	5178.897	.000%	.000%
160.0	1.747	.384	5179.281	.000%	.000%
165.0	1.898	.300	5179.582	.000%	.000%
170.0	1.992	.231	5179.813	.000%	.000%
175.0	2.010	.143	5179.956	.000%	.000%
180.0	1.992	.048	5180.004	.000%	.000%

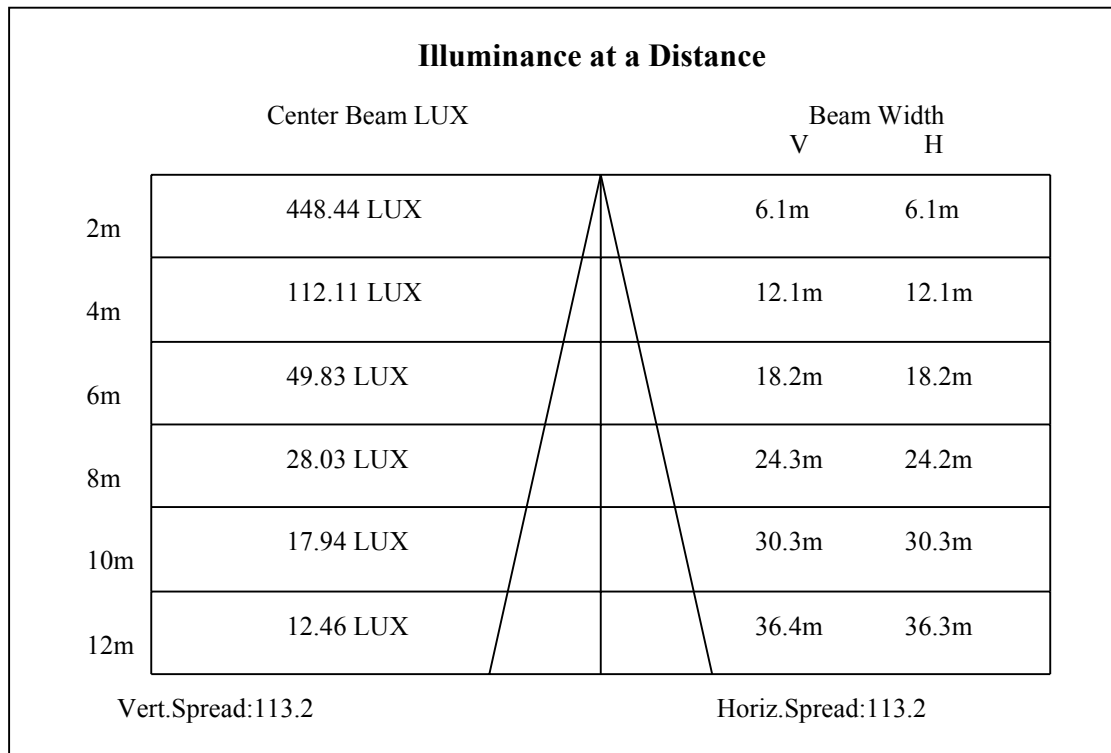
ZONAL LUMEN SUMMARY

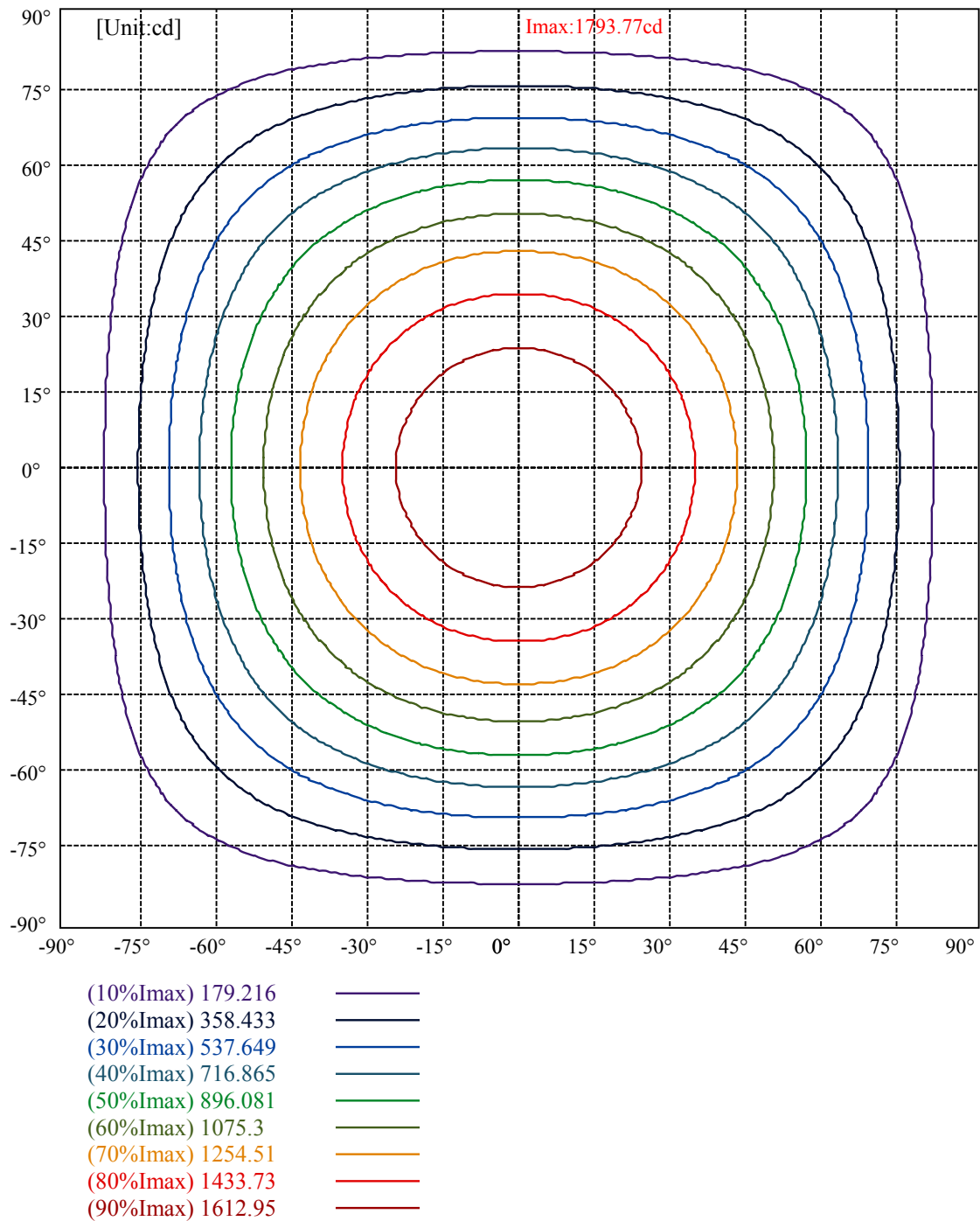
Zone	Lumens	%Lamp	%Fixt
0-30	1387.67	N.A.	26.79%
0-40	2275.81	N.A.	43.93%
0-60	4034.72	N.A.	77.89%
0-90	5162.29	N.A.	99.66%
0-120	5174.72	N.A.	99.90%
0-180	5180.00	N.A.	100.00%
60-90	1526.93	N.A.	29.48%
90-120	47.91	N.A.	0.92%
90-130	49.21	N.A.	0.95%
90-150	51.61	N.A.	1.00%
90-180	53.15	N.A.	1.03%
0-61.56	4144.00	N.A.	80.00%

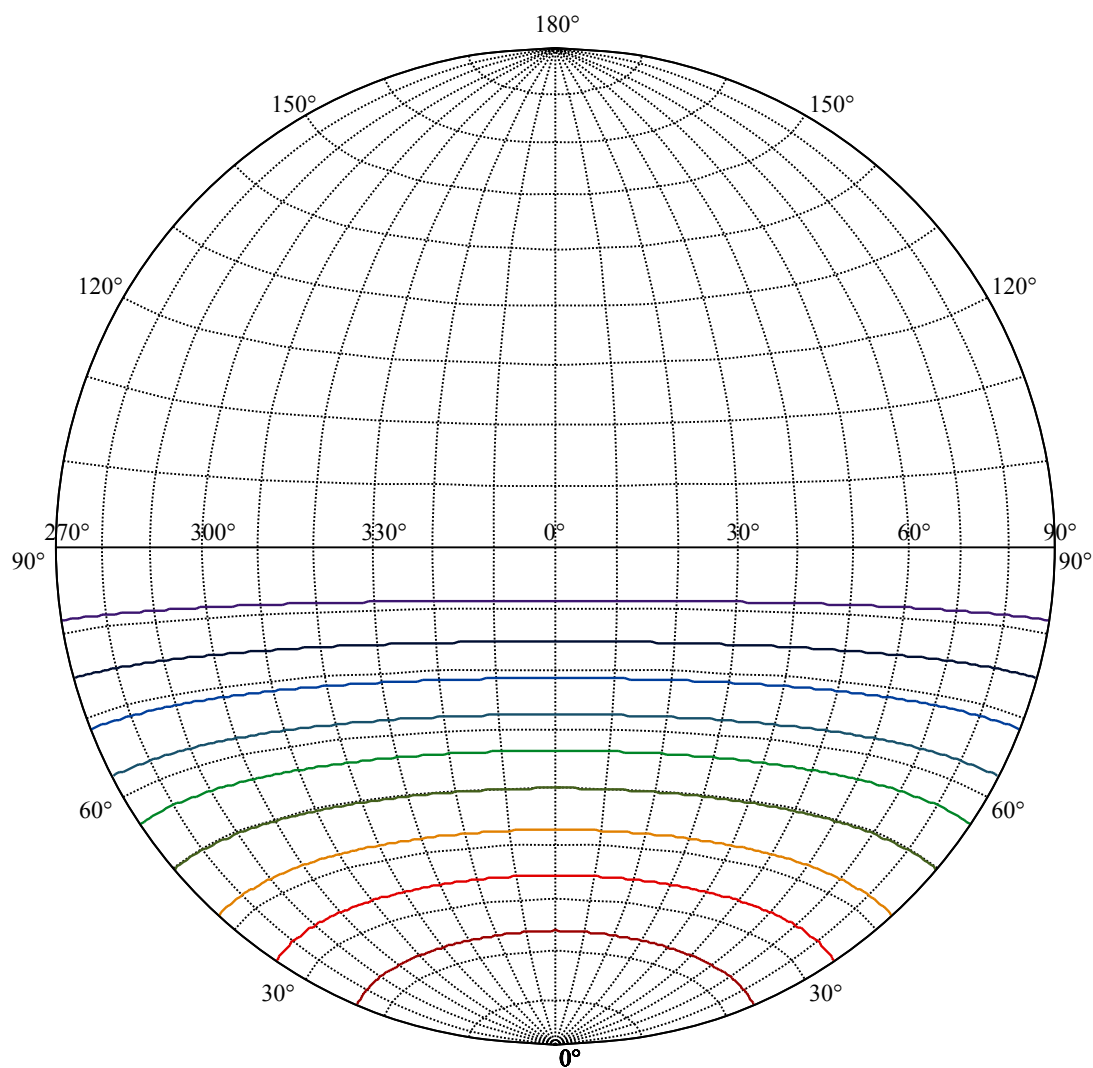
ZONAL LUMEN SUMMARY

0-10	168.77
10-20	483.94
20-30	734.96
30-40	888.14
40-50	923.34
50-60	835.57
60-70	637.89
70-80	370.77
80-90	118.90
90-100	10.39
100-110	0.96
110-120	1.09
120-130	1.29
130-140	1.26
140-150	1.14
150-160	0.86
160-170	0.53
170-180	0.14









House

[Unit:cd]

Road

Imax:1793.77

(10%Imax) 179.377

(20%Imax) 358.754

(30%Imax) 538.131

(40%Imax) 717.508

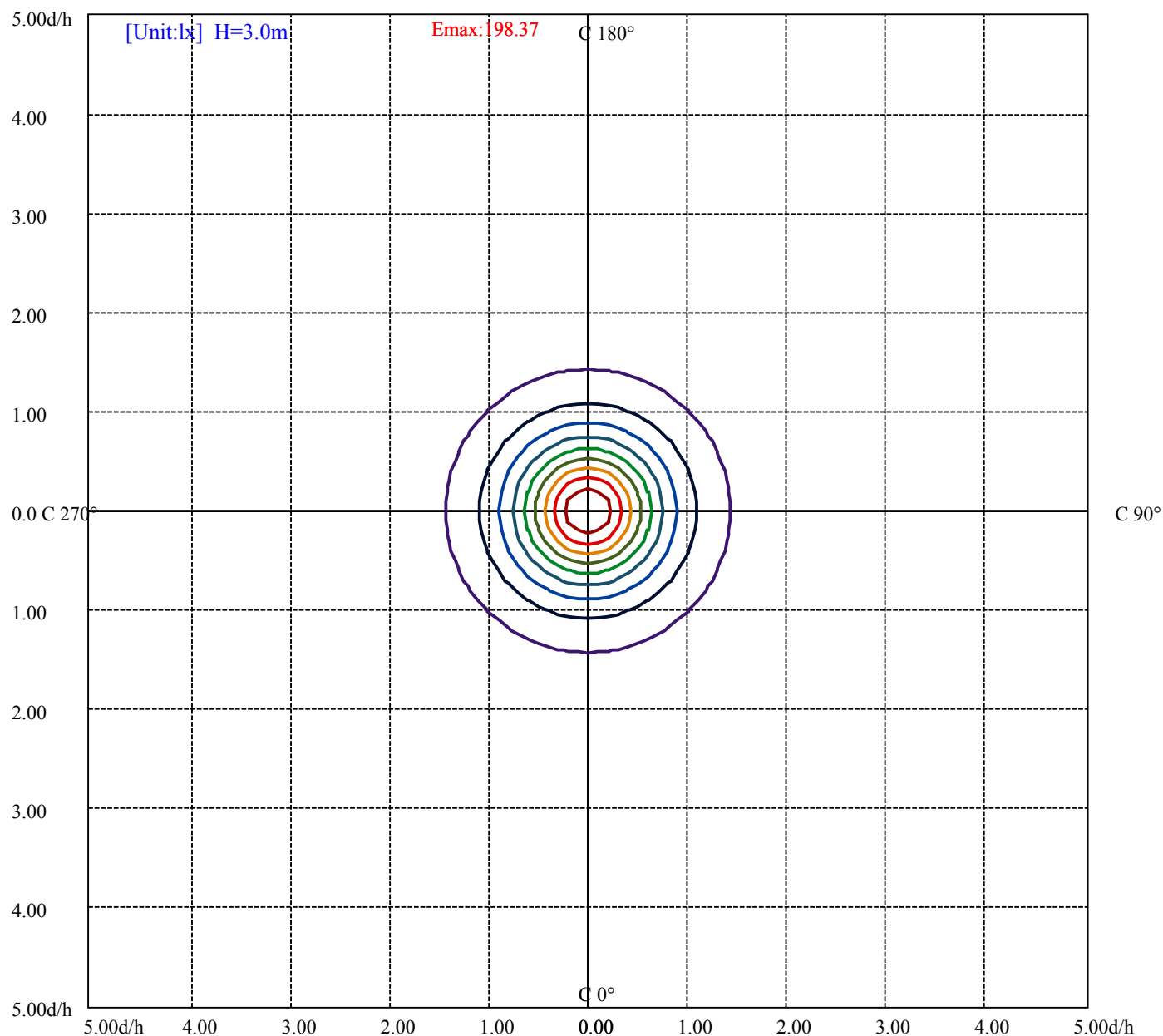
(50%Imax) 896.885

(60%Imax) 1076.26

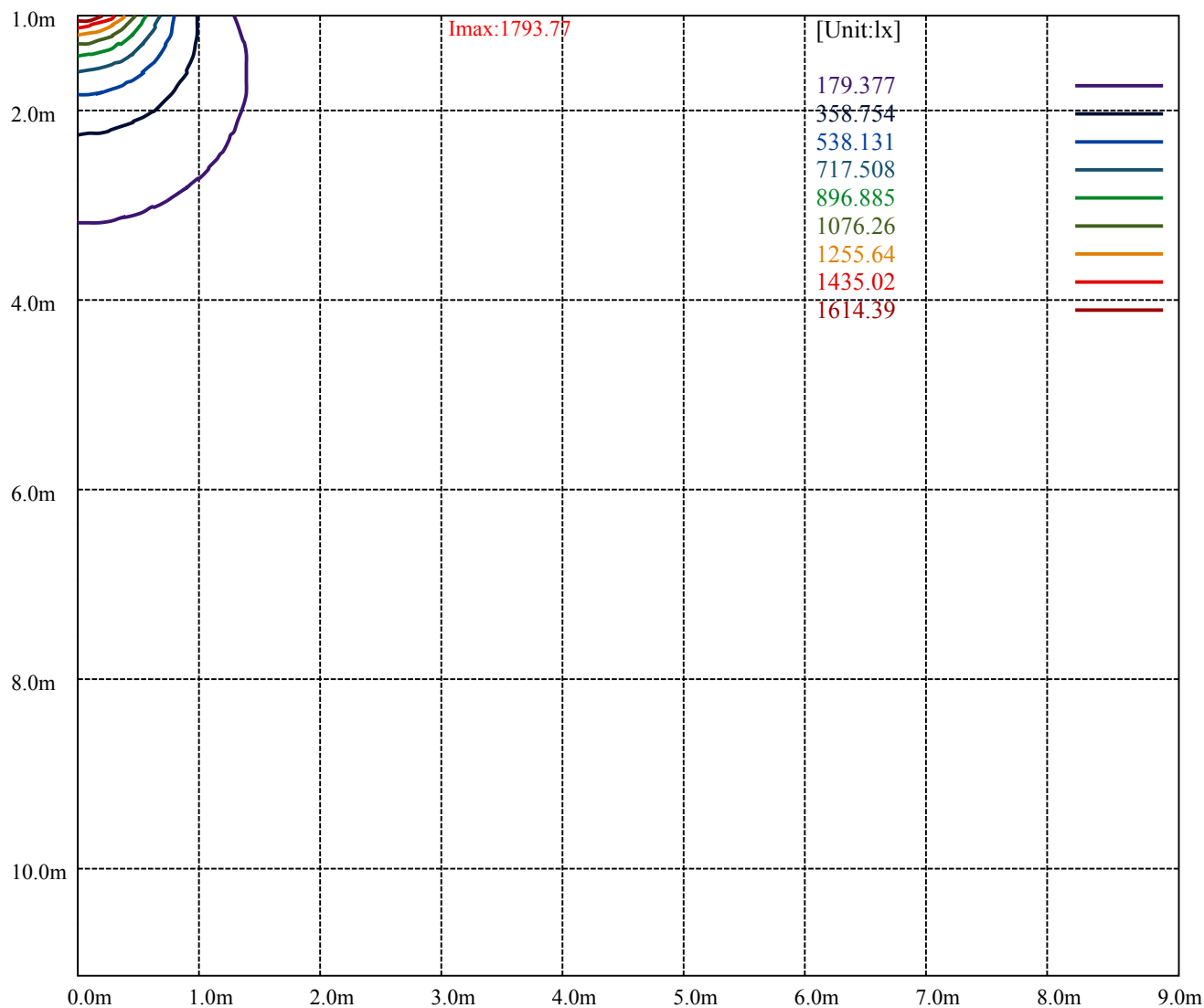
(70%Imax) 1255.64

(80%Imax) 1435.02

(90%Imax) 1614.39



(10%Emax)	19.83722	—
(20%Emax)	39.67456	—
(30%Emax)	59.51178	—
(40%Emax)	79.349	—
(50%Emax)	99.18633	—
(60%Emax)	119.0233	—
(70%Emax)	138.8611	—
(80%Emax)	158.6978	—
(90%Emax)	178.5356	—



Luminance Table

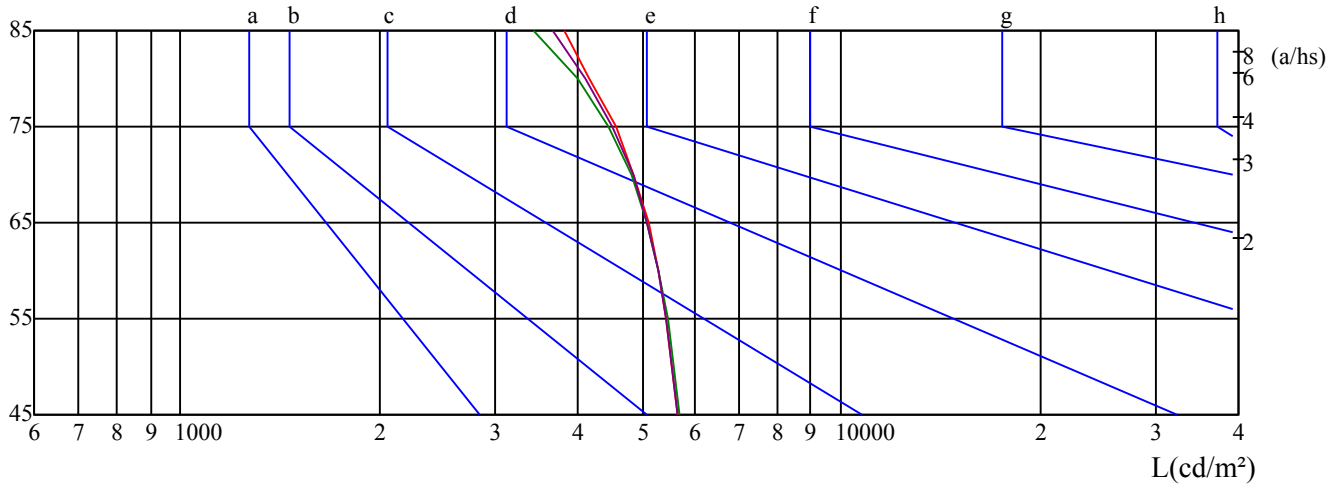
γ	45	50	55	60	65	70	75	80	85
C0	5689	5597	5459	5301	5085	4829	4458	3991	3412
C45	5650	5557	5445	5292	5091	4849	4497	4099	3660
C90	5647	5561	5449	5304	5114	4843	4559	4153	3804

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
5085	5114	5091	4458	4559	4497	3412	3804	3660

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

 $\gamma(^{\circ})$ 

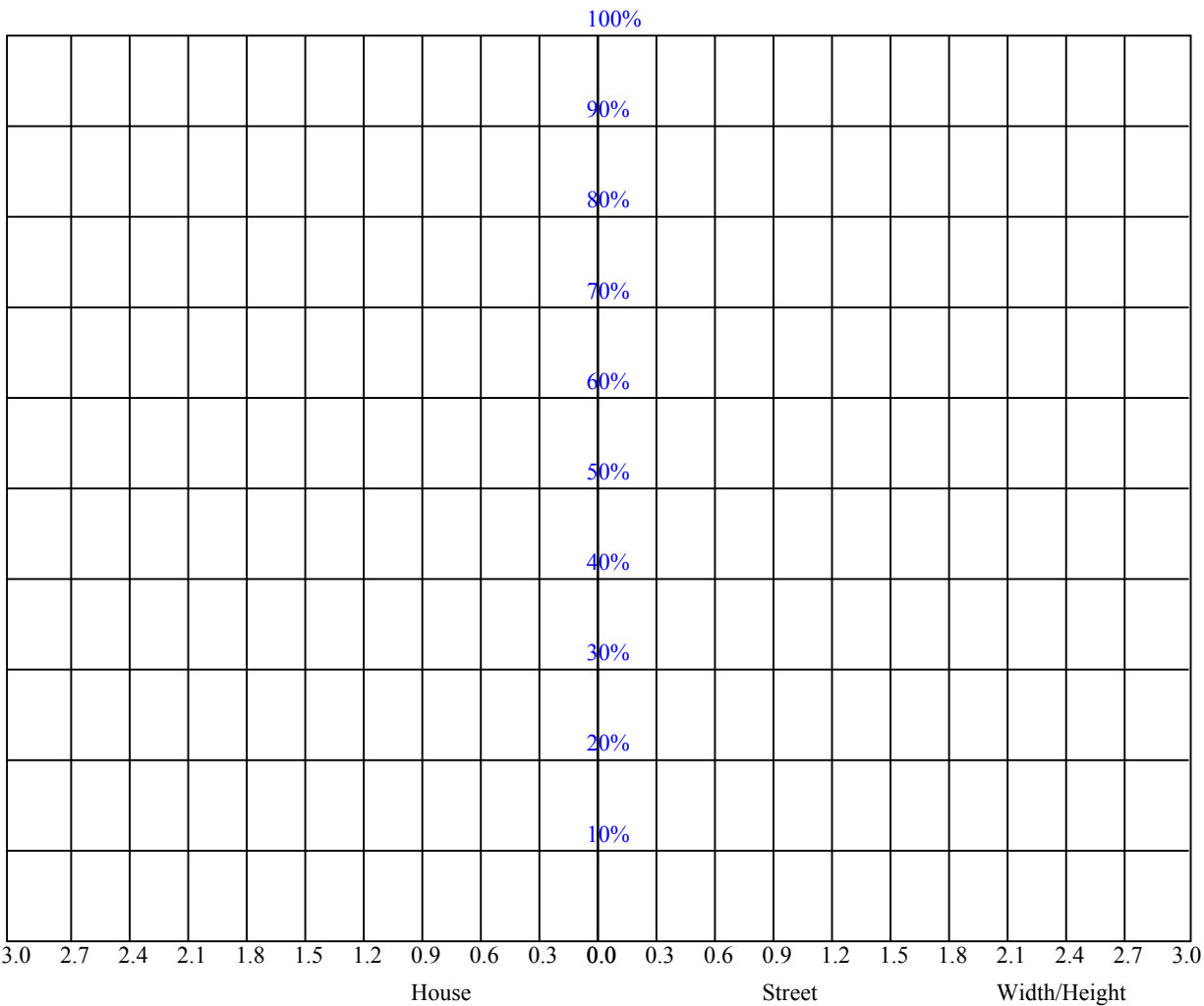
C0 ———

C45 ———

C90 ———

Illumination 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	12.32	13.96	12.68	14.28	14.59	12.32	13.97	12.68	14.28	14.60
	3H	14.14	15.64	14.52	15.96	16.32	14.14	15.63	14.51	15.96	16.32
	4H	14.84	16.25	15.24	16.60	16.97	14.82	16.22	15.21	16.57	16.95
	6H	15.37	16.67	15.78	17.04	17.43	15.32	16.62	15.73	16.99	17.38
	8H	15.55	16.80	15.97	17.18	17.58	15.48	16.73	15.90	17.12	17.51
	12H	15.78	16.98	16.21	17.36	17.79	15.68	16.88	16.11	17.26	17.69
4H	2H	12.96	14.36	13.35	14.71	15.09	12.96	14.37	13.36	14.71	15.09
	3H	15.01	16.19	15.42	16.59	16.99	15.00	16.18	15.41	16.58	16.98
	4H	15.83	16.90	16.26	17.32	17.75	15.81	16.88	16.24	17.29	17.73
	6H	16.39	17.32	16.84	17.76	18.22	16.34	17.27	16.79	17.71	18.17
	8H	16.63	17.50	17.09	17.95	18.41	16.56	17.44	17.02	17.88	18.34
	12H	16.88	17.67	17.36	18.15	18.62	16.78	17.57	17.26	18.05	18.52
8H	4H	16.16	17.03	16.62	17.48	17.94	16.13	17.01	16.59	17.45	17.92
	6H	16.85	17.58	17.34	18.07	18.54	16.80	17.53	17.29	18.02	18.49
	8H	17.17	17.83	17.68	18.33	18.82	17.10	17.76	17.61	18.26	18.75
	12H	17.93	18.51	18.43	19.00	19.56	17.83	18.41	18.34	18.90	19.46
12H	4H	16.19	16.98	16.67	17.46	17.93	16.17	16.96	16.65	17.44	17.90
	6H	18.02	17.59	17.45	18.05	18.59	17.97	17.54	17.40	18.00	18.54
	8H	17.30	17.88	17.81	18.37	18.93	17.23	17.81	17.74	18.30	18.86
Variation with the observer position at spacings:											
S = 1.0H		0.3/-0.6					0.3/-0.6				
S = 1.5H		0.6/-0.6					0.6/-0.6				
S = 2.0H		0.7/-0.7					0.7/-0.7				
Standard tables:		BK4					BK4				
Uncorrected UGR		4.8					4.7				

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 RHOF=20 CU															
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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	1793.77	1785.73	1762.13	1723.95	1670.97	1601.60	1519.61	1426.12	1319.93
45.0	1785.35	1772.35	1749.58	1711.74	1659.02	1592.66	1512.55	1418.83	1313.39
90.0	1781.00	1772.65	1748.83	1710.28	1659.70	1592.36	1509.24	1415.97	1310.23
135.0	1776.04	1772.35	1749.58	1711.74	1659.02	1592.66	1512.55	1418.83	1313.39
180.0	1793.77	1785.73	1762.13	1723.95	1670.97	1601.60	1519.61	1426.12	1319.93
225.0	1785.35	1772.35	1749.58	1711.74	1659.02	1592.66	1512.55	1418.83	1313.39
270.0	1781.00	1772.65	1748.83	1710.28	1659.70	1592.36	1509.24	1415.97	1310.23
315.0	1776.04	1772.35	1749.58	1711.74	1659.02	1592.66	1512.55	1418.83	1313.39
360.0	1793.77	1785.73	1762.13	1723.95	1670.97	1601.60	1519.61	1426.12	1319.93
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1203.59	1076.43	936.94	793.02	643.02	494.21	345.26	207.35	88.98
45.0	1195.40	1068.73	934.54	791.67	643.73	496.24	348.23	212.95	95.45
90.0	1194.80	1069.51	935.14	793.47	646.62	495.64	353.07	215.77	99.20
135.0	1195.40	1068.73	934.54	791.67	643.73	496.24	348.23	212.95	95.45
180.0	1203.59	1076.43	936.94	793.02	643.02	494.21	345.26	207.35	88.98
225.0	1195.40	1068.73	934.54	791.67	643.73	496.24	348.23	212.95	95.45
270.0	1194.80	1069.51	935.14	793.47	646.62	495.64	353.07	215.77	99.20
315.0	1195.40	1068.73	934.54	791.67	643.73	496.24	348.23	212.95	95.45
360.0	1203.59	1076.43	936.94	793.02	643.02	494.21	345.26	207.35	88.98
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	30.14	0.98	0.75	0.68	0.98	0.83	0.98	1.50	1.65
45.0	34.91	1.20	0.90	0.86	1.28	1.05	1.20	1.43	1.65
90.0	39.23	1.20	0.90	0.68	1.43	0.98	1.35	1.50	1.73
135.0	34.91	1.20	0.90	0.86	1.28	1.05	1.20	1.43	1.65
180.0	30.14	0.98	0.75	0.68	0.98	0.83	0.98	1.50	1.65
225.0	34.91	1.20	0.90	0.86	1.28	1.05	1.20	1.43	1.65
270.0	39.23	1.20	0.90	0.68	1.43	0.98	1.35	1.50	1.73
315.0	34.91	1.20	0.90	0.86	1.28	1.05	1.20	1.43	1.65
360.0	30.14	0.98	0.75	0.68	0.98	0.83	0.98	1.50	1.65
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	1.50	1.58	1.73	1.88	2.03	1.50	1.80	1.95	1.88
45.0	1.62	1.62	1.88	1.92	1.88	1.84	1.95	2.07	2.14
90.0	1.65	1.73	2.10	1.73	1.88	1.80	1.88	1.88	1.88
135.0	1.62	1.62	1.88	1.92	1.88	1.84	1.95	2.07	2.14
180.0	1.50	1.58	1.73	1.88	2.03	1.50	1.80	1.95	1.88
225.0	1.62	1.62	1.88	1.92	1.88	1.84	1.95	2.07	2.14
270.0	1.65	1.73	2.10	1.73	1.88	1.80	1.88	1.88	1.88
315.0	1.62	1.62	1.88	1.92	1.88	1.84	1.95	2.07	2.14
360.0	1.50	1.58	1.73	1.88	2.03	1.50	1.80	1.95	1.88
C/ γ (°)	180.0								
0.0	1.80								
45.0	2.10								
90.0	1.95								
135.0	2.10								
180.0	1.80								
225.0	2.10								
270.0	1.95								
315.0	2.10								
360.0	1.80								