



Anbotek Compliance Laboratory Ltd

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SHENZHEN TIANYA LIGHTING CO., LTD.

LumCAT: 40W-C

Luminaire:

Report No:

Voltage(V): 120.1100

Test No:

Current(A): 0.3460

LampCAT:

Power (W): 38.4600

Lamp flux(lm)

PF: 0.9244

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 3770.27

Lumens(lm)/Power(W): 98.03

Central intensity(cd): 1158.561

Maximum intensity(cd): 1182.399

Angle of maximum intensity: C=0.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=92.8

[C90/270]Total=92.1

Field angle(10%Imax): [C0/180]Total=210.7

[C90/270]Total=211.2

Maximum s/h(1/2): C0_180=1.16 C90_270=1.16

Maximum s/h(1/4): C0_180=1.25 C90_270=1.23

Up flux rate of LUM(%): 13.72%

Down flux rate of LUM(%): 86.28%

CIE Type : Semidirect lighting

Output flux ratio in π solid angle : 59.910%

Equipment:
Temperature(°C): 25.0

Date: 2016-3-3
Humidity(%): 60.0%

Operator: Felix
Distance(m): 12.78

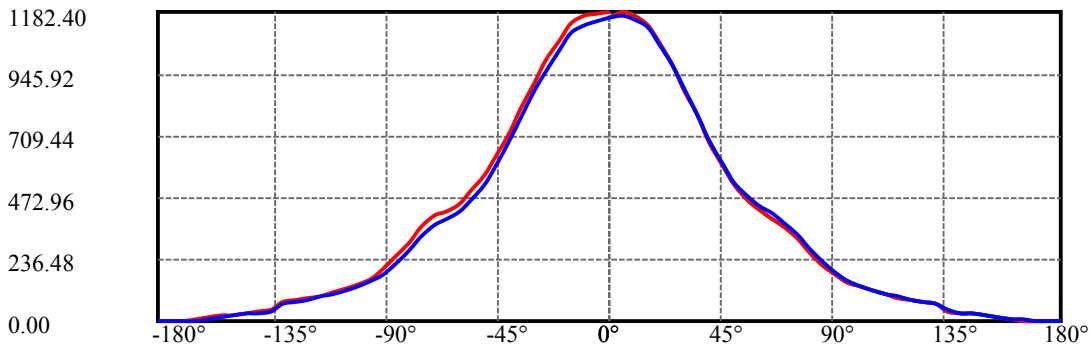
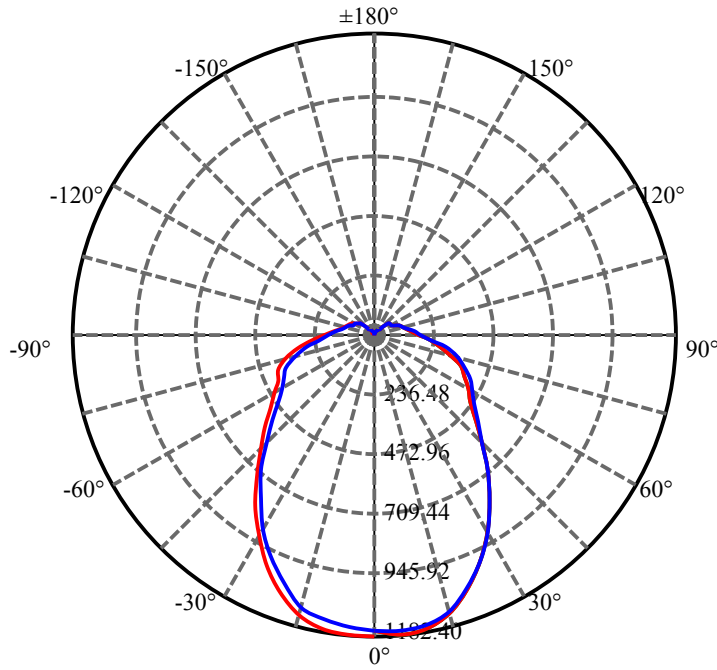
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
0.0	1161.643	.000	.000	.000%	.000%	.000%
5.0	1161.857	27.777	27.777	.737%	.737%	.737%
10.0	1148.653	82.654	110.431	2.192%	2.929%	2.929%
15.0	1116.376	134.360	244.791	3.564%	6.493%	6.493%
20.0	1054.987	178.951	423.742	4.746%	11.239%	11.239%
25.0	972.842	212.682	636.424	5.641%	16.880%	16.880%
30.0	886.228	235.267	871.691	6.240%	23.120%	23.120%
35.0	787.919	246.530	1118.220	6.539%	29.659%	29.659%
40.0	691.304	246.797	1365.017	6.546%	36.205%	36.205%
45.0	601.312	239.338	1604.356	6.348%	42.553%	42.553%
50.0	527.749	228.143	1832.499	6.051%	48.604%	48.604%
55.0	471.972	217.372	2049.871	5.765%	54.369%	54.369%
60.0	431.797	208.904	2258.775	5.541%	59.910%	59.910%
65.0	401.092	202.477	2461.252	5.370%	65.281%	65.281%
70.0	373.990	196.256	2657.508	5.205%	70.486%	70.486%
75.0	330.315	184.094	2841.601	4.883%	75.369%	75.369%
80.0	277.742	162.699	3004.300	4.315%	79.684%	79.684%
85.0	226.802	137.097	3141.397	3.636%	83.320%	83.320%
90.0	181.382	111.764	3253.161	2.964%	86.285%	86.285%
95.0	152.555	91.435	3344.596	2.425%	88.710%	88.710%
100.0	132.279	77.396	3421.992	2.053%	90.763%	90.763%
105.0	117.809	66.917	3488.909	1.775%	92.537%	92.537%
110.0	105.176	58.285	3547.194	1.546%	94.083%	94.083%
115.0	93.023	50.185	3597.379	1.331%	95.414%	95.414%
120.0	83.186	42.837	3640.216	1.136%	96.551%	96.551%
125.0	74.777	36.513	3676.728	.968%	97.519%	97.519%
130.0	66.002	30.610	3707.338	.812%	98.331%	98.331%
135.0	41.981	21.819	3729.158	.579%	98.910%	98.910%
140.0	32.062	13.710	3742.867	.364%	99.273%	99.273%
145.0	28.011	10.023	3752.890	.266%	99.539%	99.539%
150.0	23.592	7.599	3760.489	.202%	99.741%	99.741%
155.0	17.511	5.202	3765.691	.138%	99.879%	99.879%
160.0	9.796	2.864	3768.555	.076%	99.955%	99.955%
165.0	4.255	1.158	3769.713	.031%	99.985%	99.985%
170.0	2.031	.373	3770.085	.010%	99.995%	99.995%
175.0	1.867	.139	3770.225	.004%	99.999%	99.999%
180.0	1.776	.044	3770.268	.001%	100.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	871.69	23.12%
0-40	1365.02	36.20%
0-60	2258.78	59.91%
0-90	3253.16	86.28%
0-120	3640.22	96.55%
0-180	3770.27	100.00%
60-90	1203.29	31.92%
90-120	498.82	13.23%
90-130	565.94	15.01%
90-150	619.09	16.42%
90-180	628.83	16.68%
0-80.43	3016.22	80.00%

ZONAL LUMEN SUMMARY

0-10	110.43
10-20	313.31
20-30	447.95
30-40	493.33
40-50	467.48
50-60	426.28
60-70	398.73
70-80	346.79
80-90	248.86
90-100	168.83
100-110	125.20
110-120	93.02
120-130	67.12
130-140	35.53
140-150	17.62
150-160	8.07
160-170	1.53
170-180	0.14



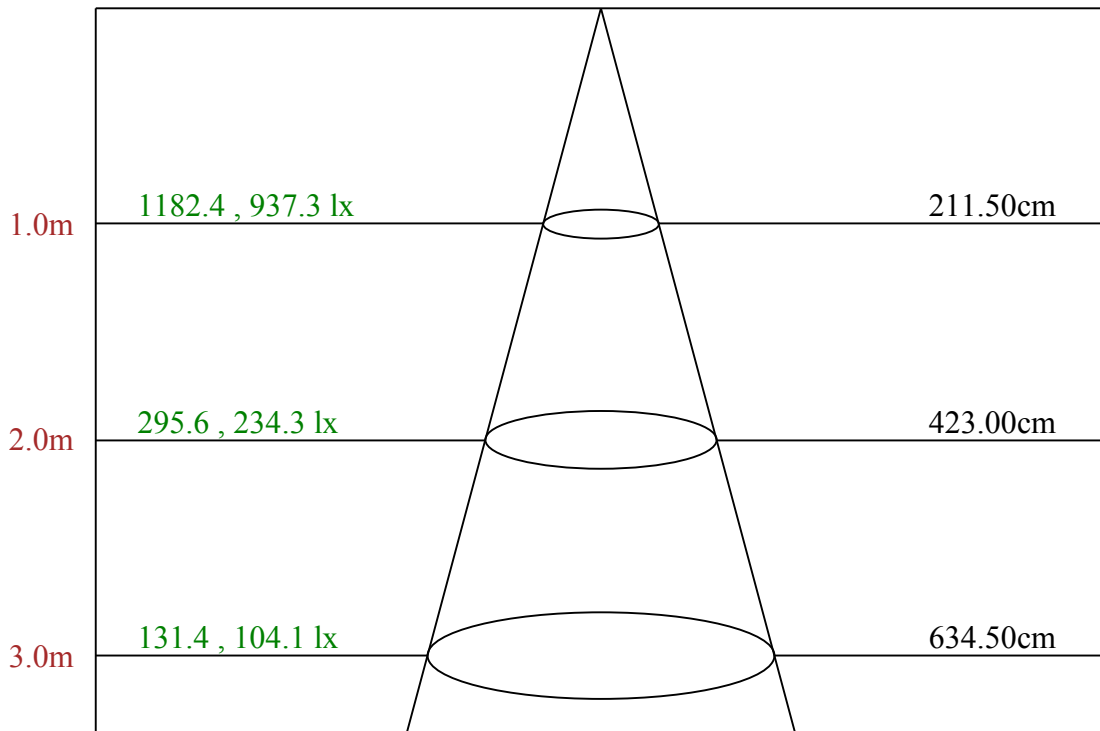
C0(Max): ———

C0/C180: ———

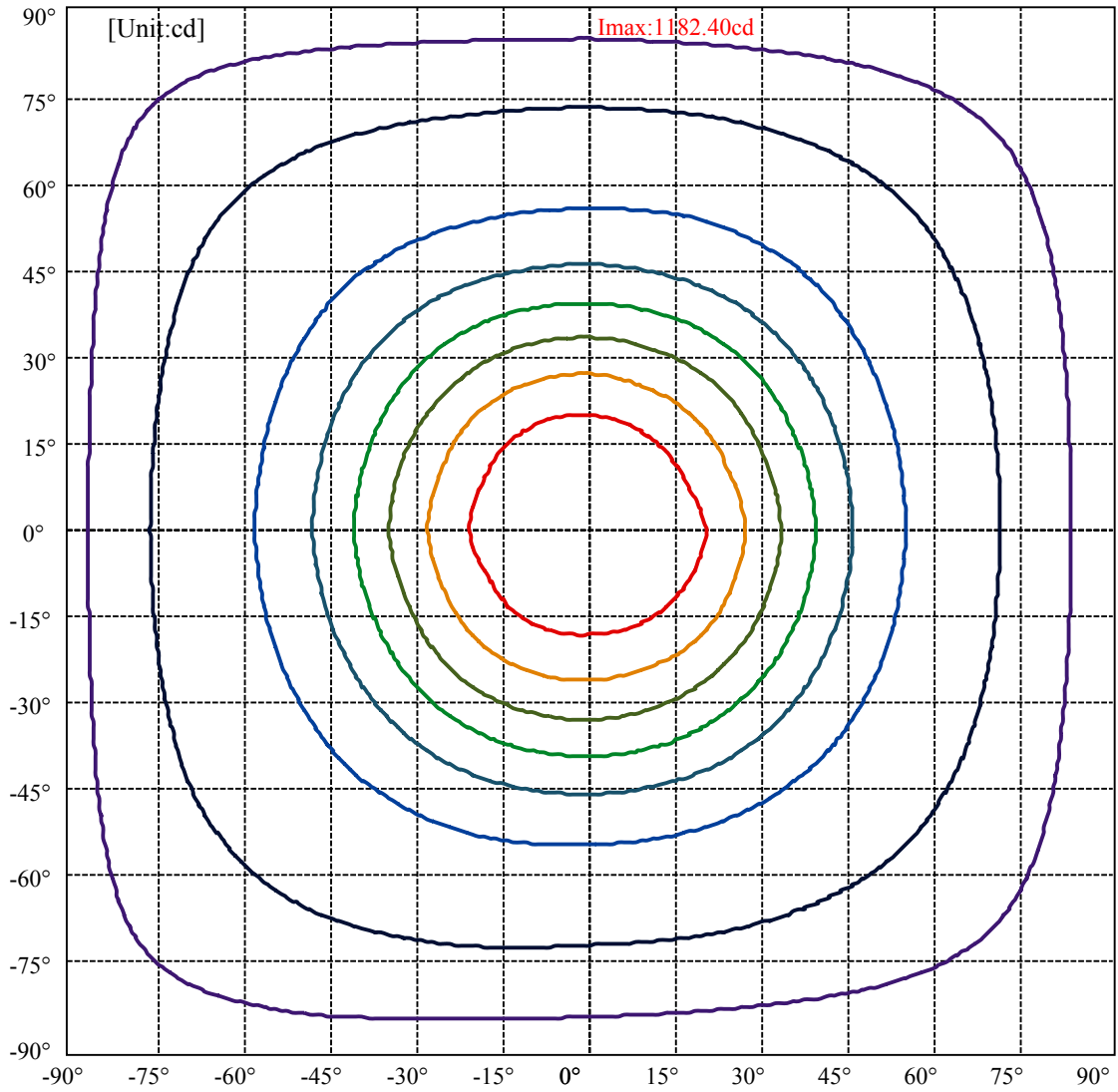
C90/C270: ———









Field angle(10%Imax):C0/180Left:111.6 Right:99.1
:C90/270Left:110.5 Right:100.7

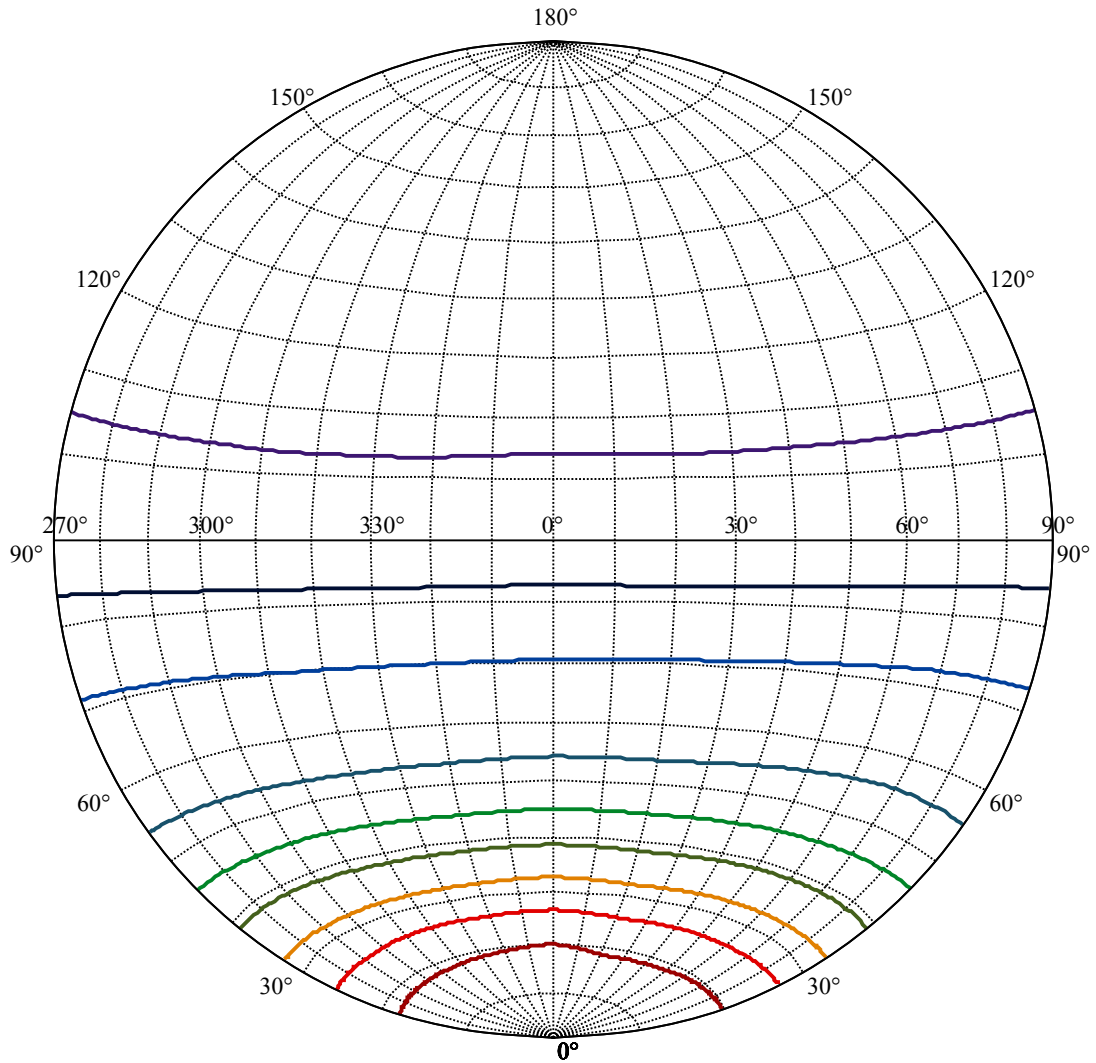
Beam Angle(50%Imax):C0/180Left:52.7 Right:40.2
:C90/270Left:50.9 Right:41.2



Max , Ave Beam angle of C0plane93.15



(10%Imax) 236.48	
(20%Imax) 354.72	
(30%Imax) 472.959	
(40%Imax) 591.199	
(50%Imax) 709.439	
(60%Imax) 827.679	
(70%Imax) 945.919	
(80%Imax) 1064.16	












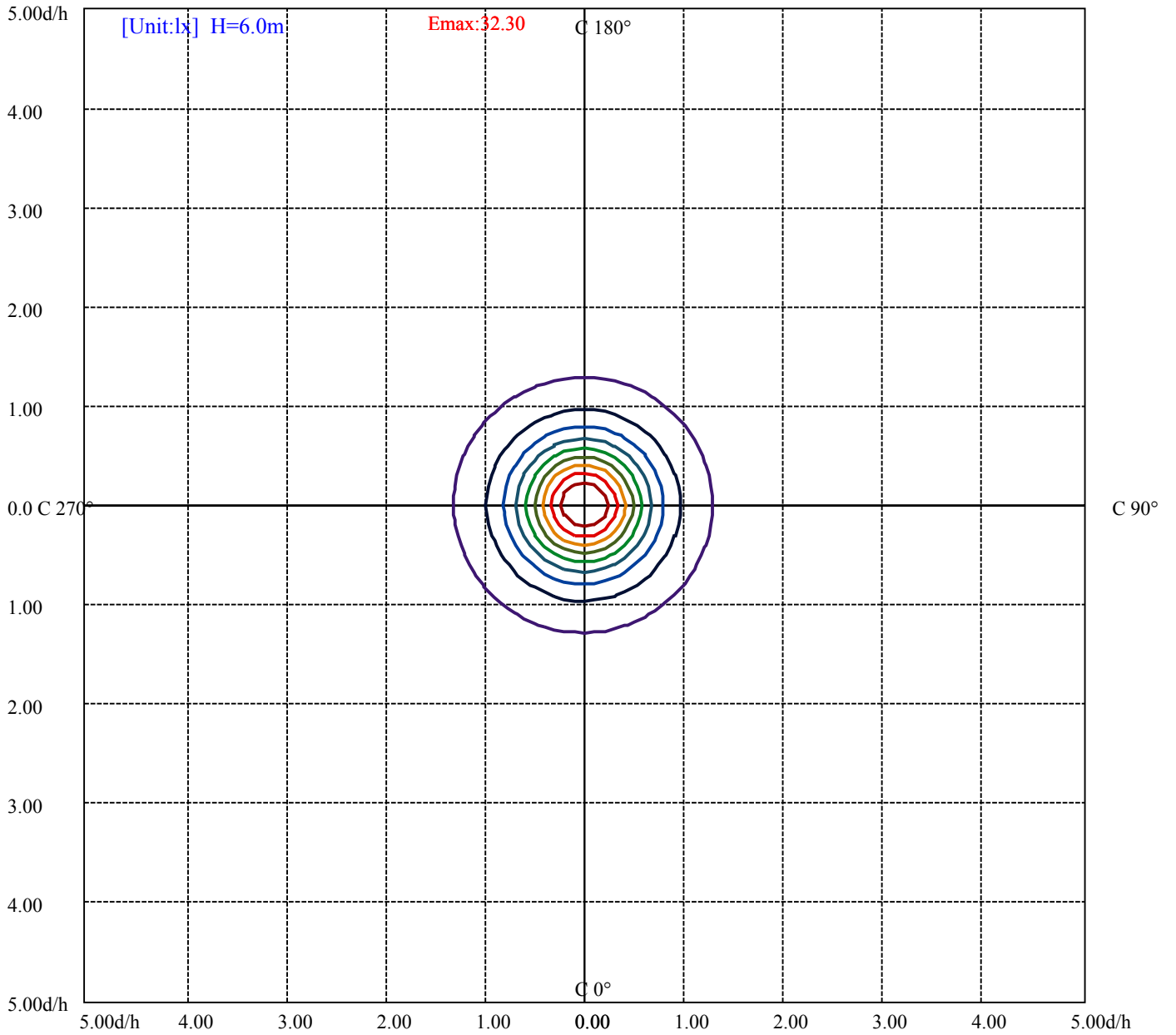
House

[Unit:cd]

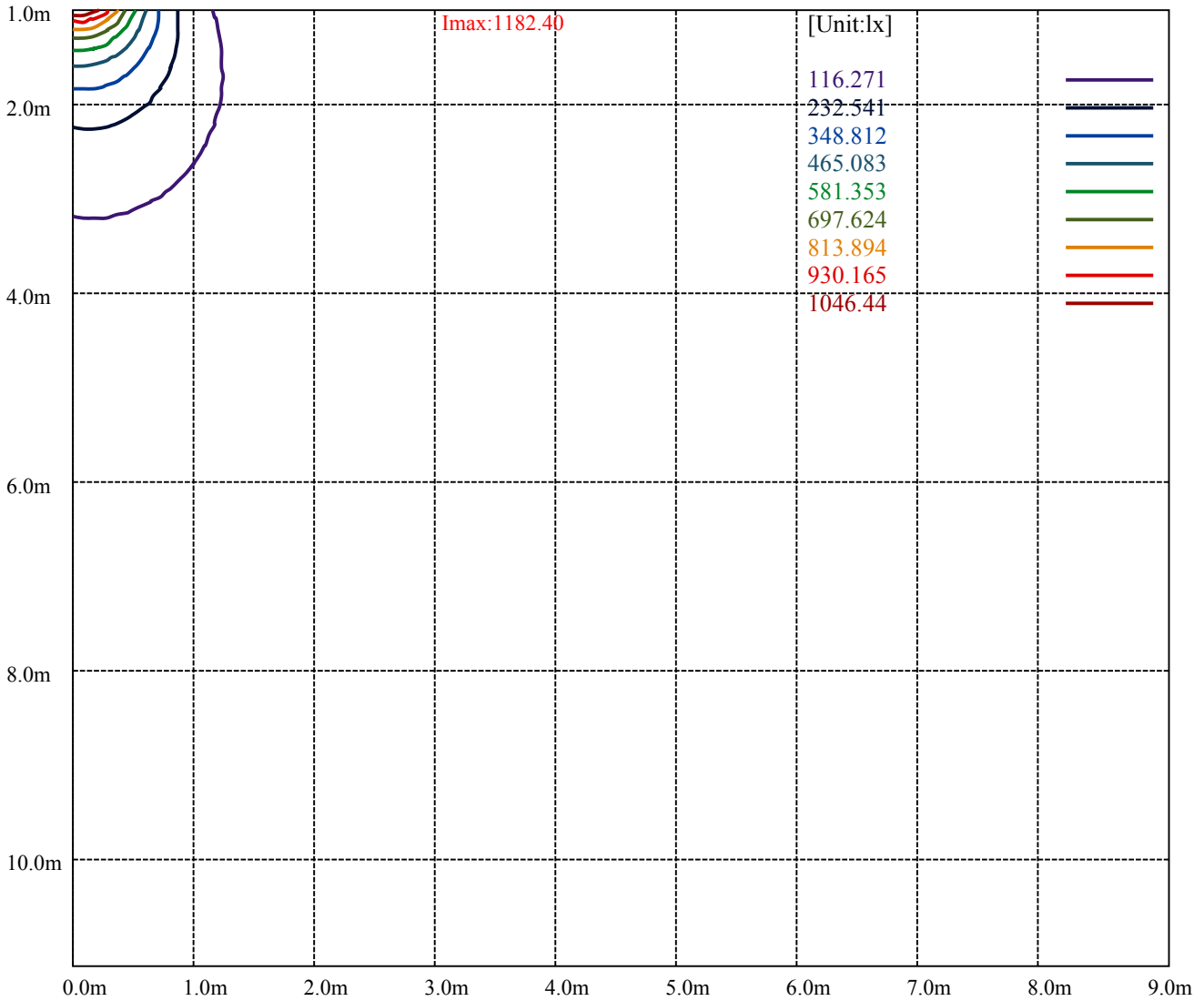
Road

I_{max}:1182.40

(10%I _{max}) 118.24	
(20%I _{max}) 236.48	
(30%I _{max}) 354.72	
(40%I _{max}) 472.959	
(50%I _{max}) 591.199	
(60%I _{max}) 709.439	
(70%I _{max}) 827.679	
(80%I _{max}) 945.919	
(90%I _{max}) 1064.16	



- (10%Emax) 3.229722
- (20%Emax) 6.459472
- (30%Emax) 9.689195
- (40%Emax) 12.91894
- (50%Emax) 16.14867
- (60%Emax) 19.37842
- (70%Emax) 22.60814
- (80%Emax) 25.83786
- (90%Emax) 29.0675



Luminance Table

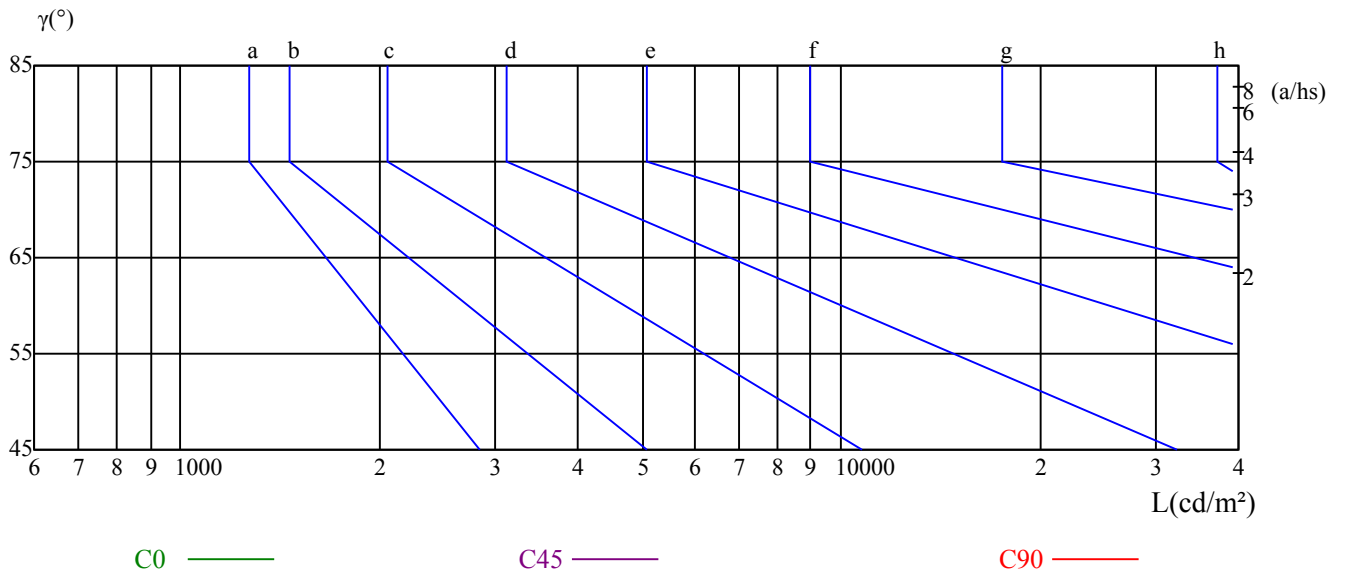
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

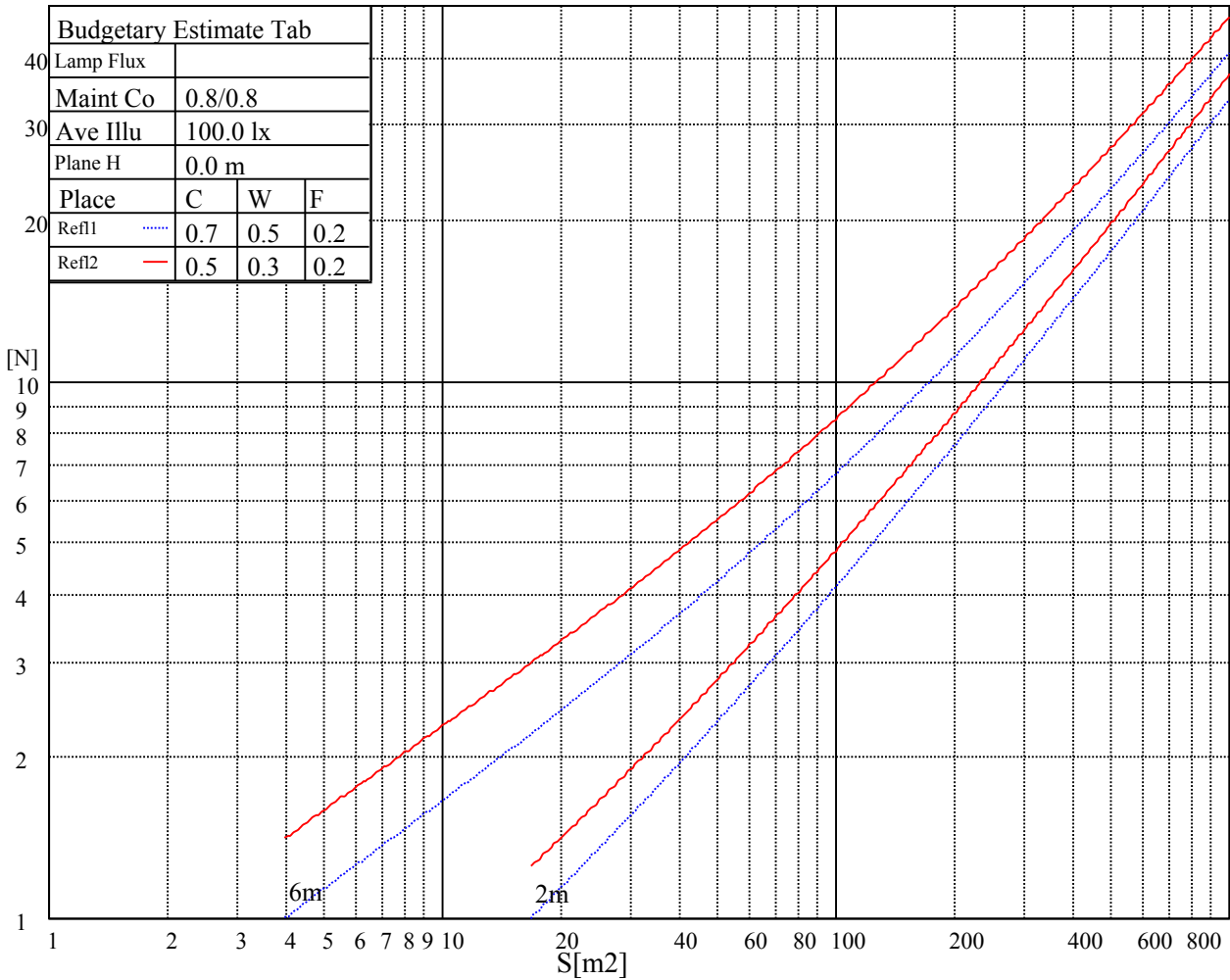
L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

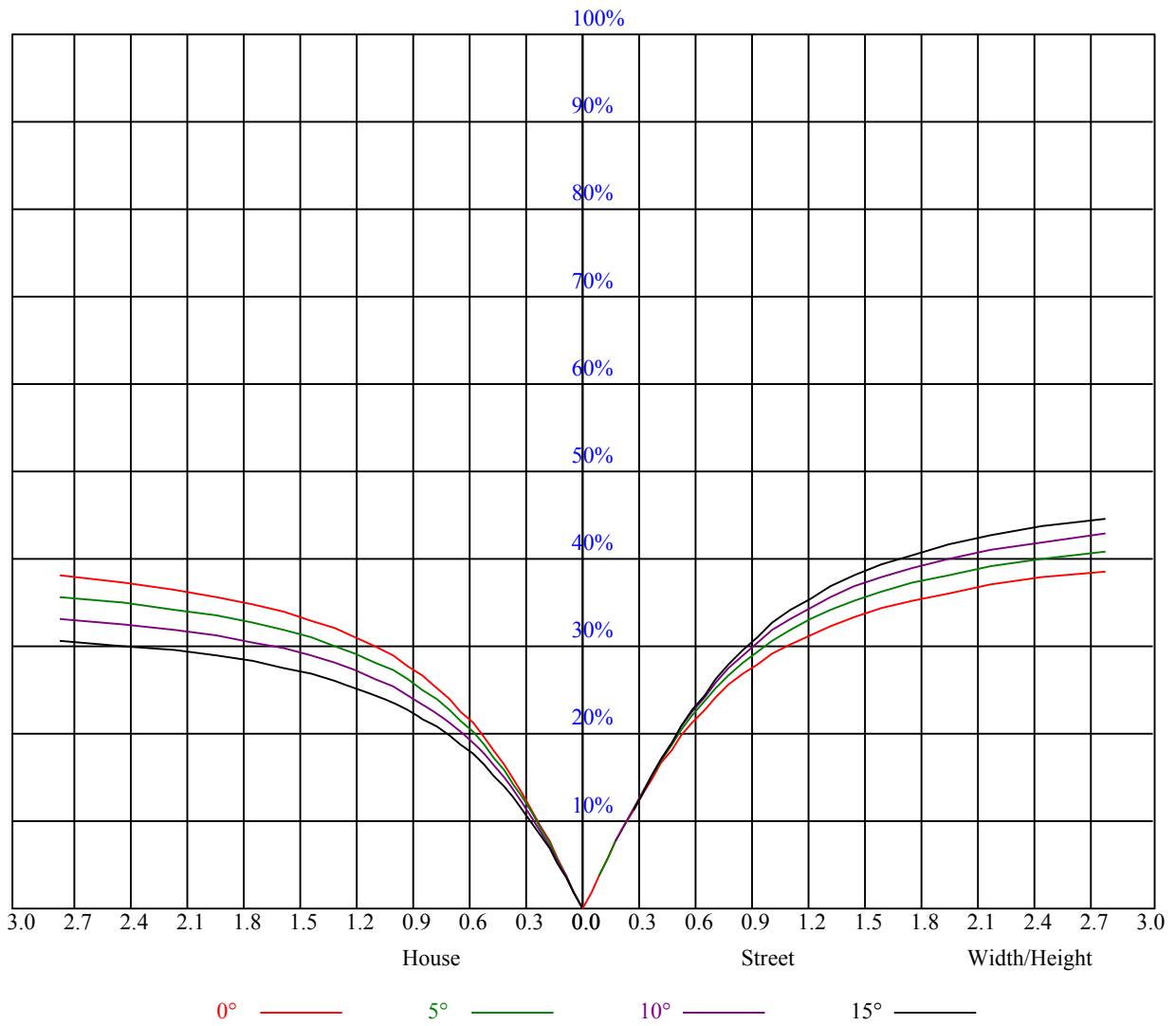
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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 RHOF=20 CU															
0	1.16	1.16	1.16	1.11	1.11	1.11	1.03	1.03	1.03	0.96	0.96	0.96	0.89	0.89	0.89	0.86
1	0.98	0.93	0.88	0.94	0.89	0.85	0.87	0.83	0.80	0.81	0.78	0.75	0.75	0.73	0.71	0.67
2	0.84	0.77	0.70	0.81	0.74	0.69	0.75	0.70	0.65	0.70	0.65	0.61	0.65	0.61	0.58	0.55
3	0.74	0.65	0.58	0.71	0.63	0.57	0.66	0.59	0.54	0.61	0.56	0.51	0.57	0.53	0.49	0.46
4	0.65	0.56	0.49	0.63	0.55	0.48	0.59	0.52	0.46	0.55	0.49	0.44	0.51	0.46	0.42	0.39
5	0.58	0.49	0.42	0.56	0.48	0.42	0.53	0.45	0.40	0.49	0.43	0.38	0.46	0.41	0.36	0.34
6	0.53	0.44	0.37	0.51	0.42	0.36	0.48	0.40	0.35	0.45	0.38	0.34	0.42	0.36	0.32	0.30
7	0.48	0.39	0.33	0.46	0.38	0.32	0.44	0.36	0.31	0.41	0.35	0.30	0.38	0.33	0.29	0.27
8	0.44	0.35	0.29	0.42	0.34	0.29	0.40	0.33	0.28	0.38	0.31	0.27	0.35	0.30	0.26	0.24
9	0.40	0.32	0.26	0.39	0.31	0.26	0.37	0.30	0.25	0.35	0.29	0.24	0.33	0.27	0.23	0.22
10	0.37	0.29	0.24	0.36	0.29	0.24	0.34	0.27	0.23	0.32	0.26	0.22	0.31	0.25	0.21	0.20



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	1158.56	1182.40	1166.89	1127.54	1065.17	978.47	883.45	787.29	685.90
22.5	1158.40	1160.03	1144.85	1109.58	1043.46	960.03	872.19	769.82	676.75
45.0	1159.38	1161.50	1148.44	1110.07	1046.40	962.96	881.49	778.96	684.10
67.5	1161.01	1165.42	1151.70	1117.25	1054.72	965.74	882.96	782.39	688.02
90.0	1157.58	1166.07	1153.50	1121.17	1061.09	978.31	891.78	788.10	688.02
112.5	1160.36	1162.32	1154.32	1124.93	1070.23	984.35	896.02	797.41	696.51
135.0	1159.38	1163.30	1154.81	1128.85	1070.23	989.25	903.21	800.02	705.16
157.5	1167.87	1166.89	1157.58	1128.19	1065.82	986.31	901.74	809.82	709.08
180.0	1179.79	1177.83	1168.03	1135.38	1074.97	995.78	908.76	818.31	718.39
202.5	1158.40	1152.03	1137.99	1109.91	1054.23	978.80	890.96	795.45	698.79
225.0	1159.38	1154.15	1134.23	1110.40	1053.09	974.88	893.08	791.69	694.06
247.5	1161.01	1148.93	1136.19	1107.30	1046.72	966.23	880.84	787.78	691.45
270.0	1157.58	1148.28	1134.07	1103.54	1035.62	958.23	878.55	780.43	688.51
292.5	1160.36	1152.03	1137.99	1101.25	1040.84	954.64	868.92	776.51	686.92
315.0	1159.38	1160.52	1144.03	1109.74	1043.62	963.78	872.51	769.33	676.26
337.5	1167.87	1168.03	1153.83	1116.93	1053.58	967.70	873.17	773.41	675.94
360.0	1158.56	1182.40	1166.89	1127.54	1065.17	978.47	883.45	787.29	685.90
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	593.65	523.12	464.18	425.32	392.34	359.19	312.66	263.35	213.56
22.5	588.59	517.24	462.54	425.15	396.91	361.32	314.13	259.76	214.21
45.0	594.14	518.87	472.67	436.75	406.21	369.15	317.23	265.15	218.45
67.5	594.95	525.73	477.56	442.46	411.60	376.83	328.83	274.13	224.33
90.0	601.00	526.87	474.30	441.48	411.60	377.64	333.89	280.66	230.54
112.5	604.10	532.26	476.26	435.44	407.36	376.66	333.89	282.13	230.86
135.0	616.34	541.73	483.44	439.36	409.48	384.99	340.91	287.84	234.29
157.5	623.69	547.12	488.67	442.46	410.79	391.19	352.50	292.42	240.33
180.0	630.38	556.59	496.01	450.95	419.44	401.81	360.83	302.87	248.50
202.5	609.98	534.71	480.01	438.05	409.81	387.77	349.07	297.97	242.95
225.0	604.59	530.14	474.30	434.95	403.28	383.19	342.87	293.72	240.50
247.5	599.69	529.16	471.36	431.85	401.32	377.32	336.50	285.23	229.88
270.0	597.08	519.69	461.56	420.91	389.23	365.56	322.78	271.19	222.86
292.5	590.38	518.05	457.64	416.01	385.15	361.81	317.89	263.84	217.15
315.0	588.42	511.52	454.22	412.58	380.74	354.78	311.19	262.37	210.62
337.5	584.02	511.20	456.83	415.03	382.21	354.62	309.89	261.23	209.80
360.0	593.65	523.12	464.18	425.32	392.34	359.19	312.66	263.35	213.56
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	173.23	146.94	129.80	115.76	103.02	91.76	82.29	74.61	64.98
22.5	173.88	146.62	128.49	114.78	102.21	90.45	80.98	73.14	66.29
45.0	177.64	149.56	130.45	116.25	104.00	92.25	82.29	73.96	63.19
67.5	178.13	151.02	131.11	117.72	104.17	92.41	82.61	73.80	64.82
90.0	183.35	155.27	133.88	118.70	104.66	92.57	82.45	73.47	66.45
112.5	185.80	156.25	134.53	118.70	105.80	92.90	82.78	74.61	67.10
135.0	186.78	154.62	134.37	119.51	107.10	94.53	85.06	76.74	68.90
157.5	189.23	157.72	136.17	120.33	107.92	96.17	86.37	78.21	69.23
180.0	197.39	162.29	138.45	121.96	110.04	98.13	87.51	79.19	71.19
202.5	191.84	159.35	137.15	120.66	109.06	95.68	84.57	75.59	67.59
225.0	188.41	158.53	136.00	120.49	107.92	94.53	83.92	75.10	66.78
247.5	183.84	153.80	133.55	119.02	106.94	94.04	83.27	74.78	64.82
270.0	177.96	151.02	130.94	117.88	104.98	92.57	83.43	74.61	64.49
292.5	174.37	147.60	129.15	115.76	103.02	91.27	81.80	73.80	64.82
315.0	170.62	145.31	126.21	113.80	101.06	90.12	81.31	72.49	62.37
337.5	169.64	144.98	126.21	113.64	100.90	88.98	80.33	72.33	63.02
360.0	173.23	146.94	129.80	115.76	103.02	91.76	82.29	74.61	64.98

Intensity data(cd)

Page: 16 Total:16

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	39.02	31.35	27.27	22.69	16.00	8.00	2.94	1.80	1.80
22.5	40.00	32.00	27.92	23.02	16.82	8.98	3.59	2.29	2.12
45.0	40.98	32.33	28.25	23.84	17.31	9.31	4.25	2.29	1.96
67.5	46.86	32.33	28.90	24.16	17.80	10.12	4.57	2.29	2.29
90.0	45.72	32.98	28.90	24.33	18.29	10.61	4.90	2.12	1.96
112.5	44.08	32.98	28.57	24.16	18.61	11.59	5.55	2.45	1.80
135.0	47.51	33.14	28.08	24.16	19.27	11.76	5.88	2.45	1.96
157.5	49.47	32.98	28.57	24.49	19.27	12.08	6.04	2.29	1.80
180.0	46.70	33.80	29.23	25.14	19.76	11.92	6.04	2.29	1.80
202.5	40.65	32.33	28.57	24.33	18.12	10.45	4.41	1.80	1.63
225.0	40.16	32.65	28.90	24.16	17.63	9.80	4.08	1.80	1.80
247.5	39.51	32.16	28.41	23.84	16.98	9.47	3.92	1.80	1.80
270.0	38.37	31.18	27.43	23.02	16.49	8.49	3.43	1.80	1.80
292.5	37.72	30.53	26.61	22.37	15.84	8.49	3.27	1.63	1.80
315.0	37.55	30.04	26.12	21.88	16.16	8.00	2.61	1.80	1.80
337.5	37.39	30.20	26.45	21.88	15.84	7.67	2.61	1.63	1.80
360.0	39.02	31.35	27.27	22.69	16.00	8.00	2.94	1.80	1.80
C/γ(°)	180.0								
0.0	1.80								
22.5	1.80								
45.0	1.80								
67.5	1.80								
90.0	1.80								
112.5	1.63								
135.0	1.80								
157.5	1.80								
180.0	1.80								
202.5	1.80								
225.0	1.80								
247.5	1.80								
270.0	1.80								
292.5	1.63								
315.0	1.80								
337.5	1.80								
360.0	1.80								