
P.Q.L., INC - 91411/DUAL POWER-SAFETY COATED

Client:

LumCAT: /

Luminaire: /

Report No:

Test No:

LampCAT: 18.5WT8/40K/FR/V5/2500Lm

Lamp flux(lm): -1.0

Number of Lamps: 2

Length(mm): 1200

Phm Type: C

Voltage(V):

Current(A):

Power (W): 37.4000

PF:

Ballast type:

Width(mm): 270

Height(mm): 100

Photometric Results

Lumens(lm): 4152.84

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 111.04

Central intensity(cd): 1242.077

Maximum intensity(cd): 1242.077

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=133.0

[C90/270]Total=111.4

Field angle(10%Imax): [C0/180]Total=170.8

[C90/270]Total=166.8

Maximum s/h(1/2): C0_180=1.34 C90_270=1.23

Maximum s/h(1/4): C0_180=1.53 C90_270=1.37

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 1.77%

Down flux rate of LUM(%): 98.23%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 71.195%

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Zonal flux distribution table

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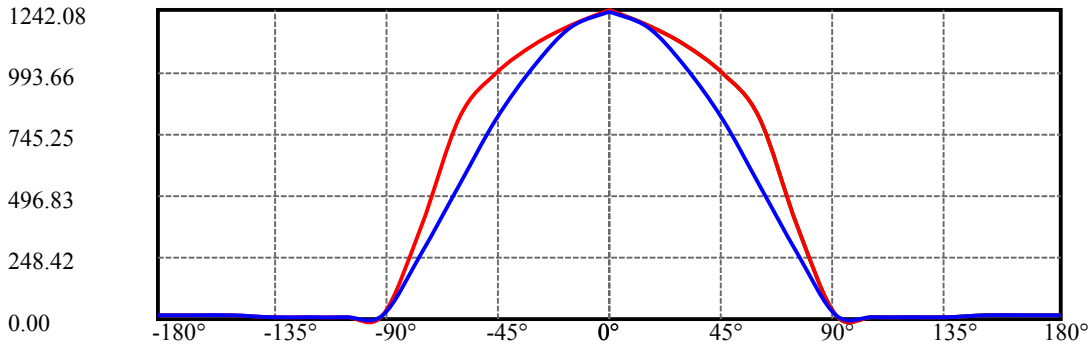
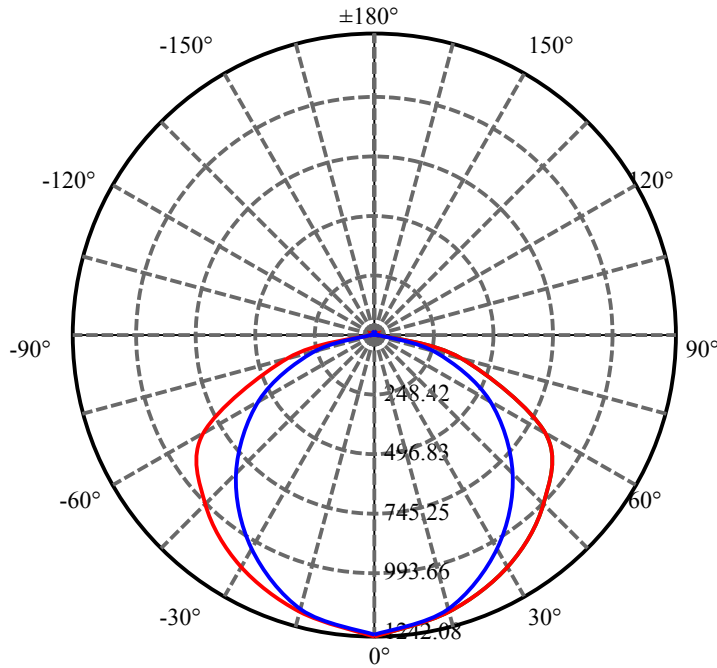
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1239.071	0.000	0	.000%	.000%
15.0	1175.939	258.520	258.52	.000%	6.225%
30.0	1050.997	698.916	957.436	.000%	23.055%
45.0	893.659	970.884	1928.32	.000%	46.434%
60.0	686.793	1028.313	2956.633	.000%	71.195%
75.0	373.509	803.383	3760.016	.000%	90.541%
90.0	19.003	319.153	4079.169	.000%	98.226%
105.0	10.232	23.770	4102.939	.000%	98.798%
120.0	9.872	15.232	4118.171	.000%	99.165%
135.0	10.599	13.319	4131.49	.000%	99.486%
150.0	11.620	11.093	4142.583	.000%	99.753%
165.0	12.462	7.558	4150.141	.000%	99.935%
180.0	12.764	2.700	4152.842	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	957.44	N.A.	23.05%
0-40	957.44	N.A.	23.05%
0-60	2956.63	N.A.	71.20%
0-90	4079.17	N.A.	98.23%
0-120	4118.17	N.A.	99.17%
0-180	4152.84	N.A.	100.00%
60-90	2150.85	N.A.	51.79%
90-120	358.16	N.A.	8.62%
90-130	358.16	N.A.	8.62%
90-150	382.57	N.A.	9.21%
90-180	390.13	N.A.	9.39%
0-66.83	3322.27	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	0.00
10-20	258.52
20-30	698.92
30-40	0.00
40-50	970.88
50-60	1028.31
60-70	0.00
70-80	803.38
80-90	319.15
90-100	0.00
100-110	23.77
110-120	15.23
120-130	0.00
130-140	13.32
140-150	11.09
150-160	0.00
160-170	7.56
170-180	0.00



C0(Max): —————

C0/C180: —————

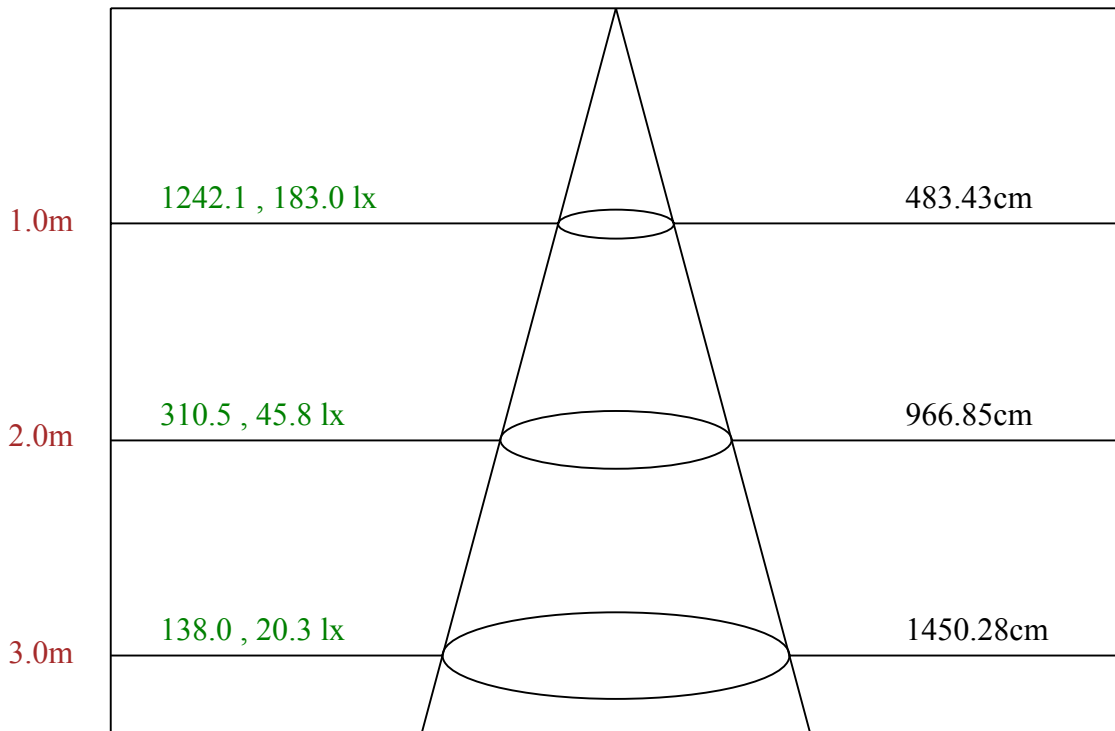
C90/C270: —————

Field angle(10%Imax):C0/180Left:85.4 Right:85.4

:C90/270Left:83.4 Right:83.4

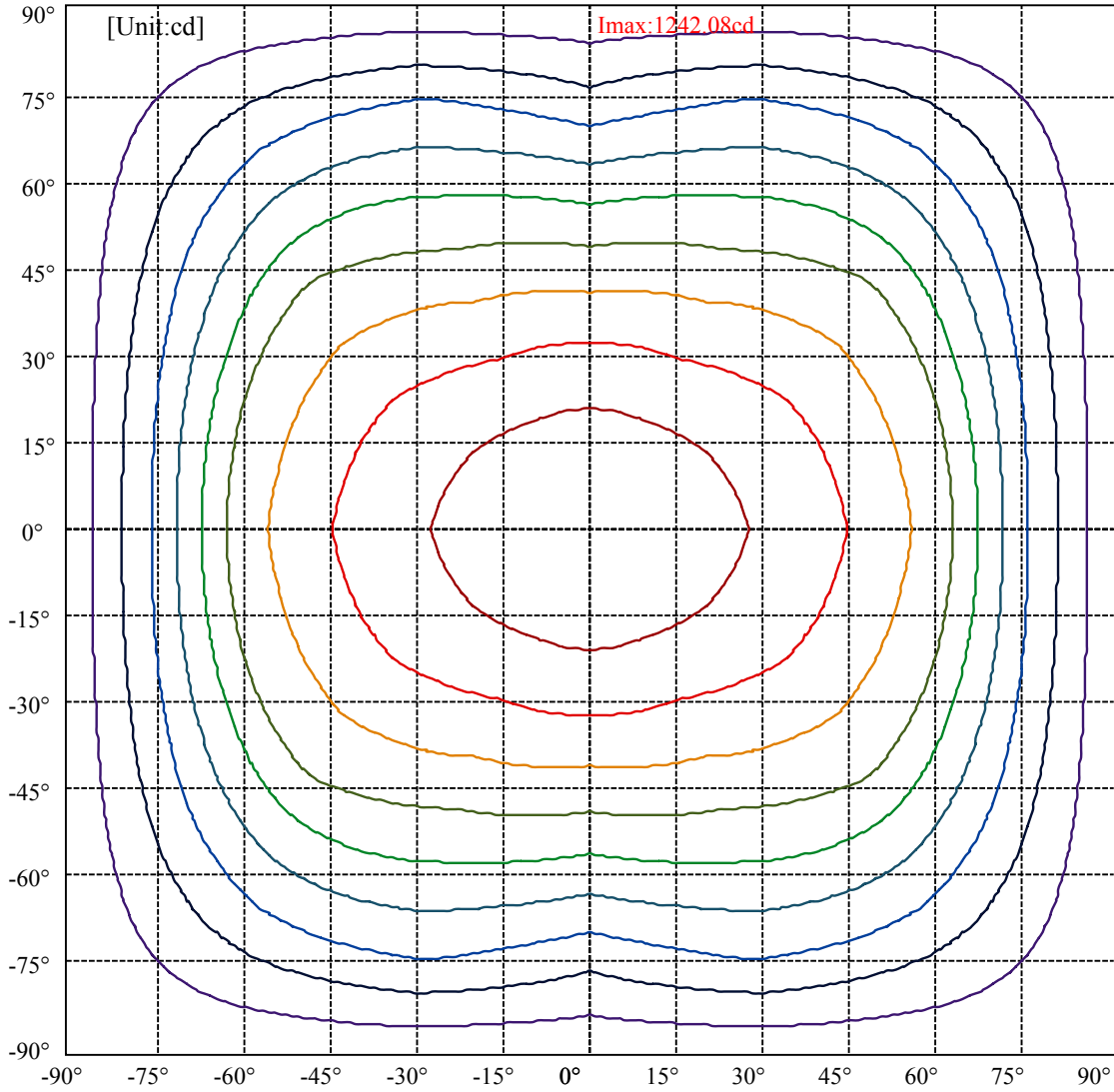
Beam Angle(50%Imax):C0/180Left:66.5 Right:66.5

:C90/270Left:55.7 Right:55.7

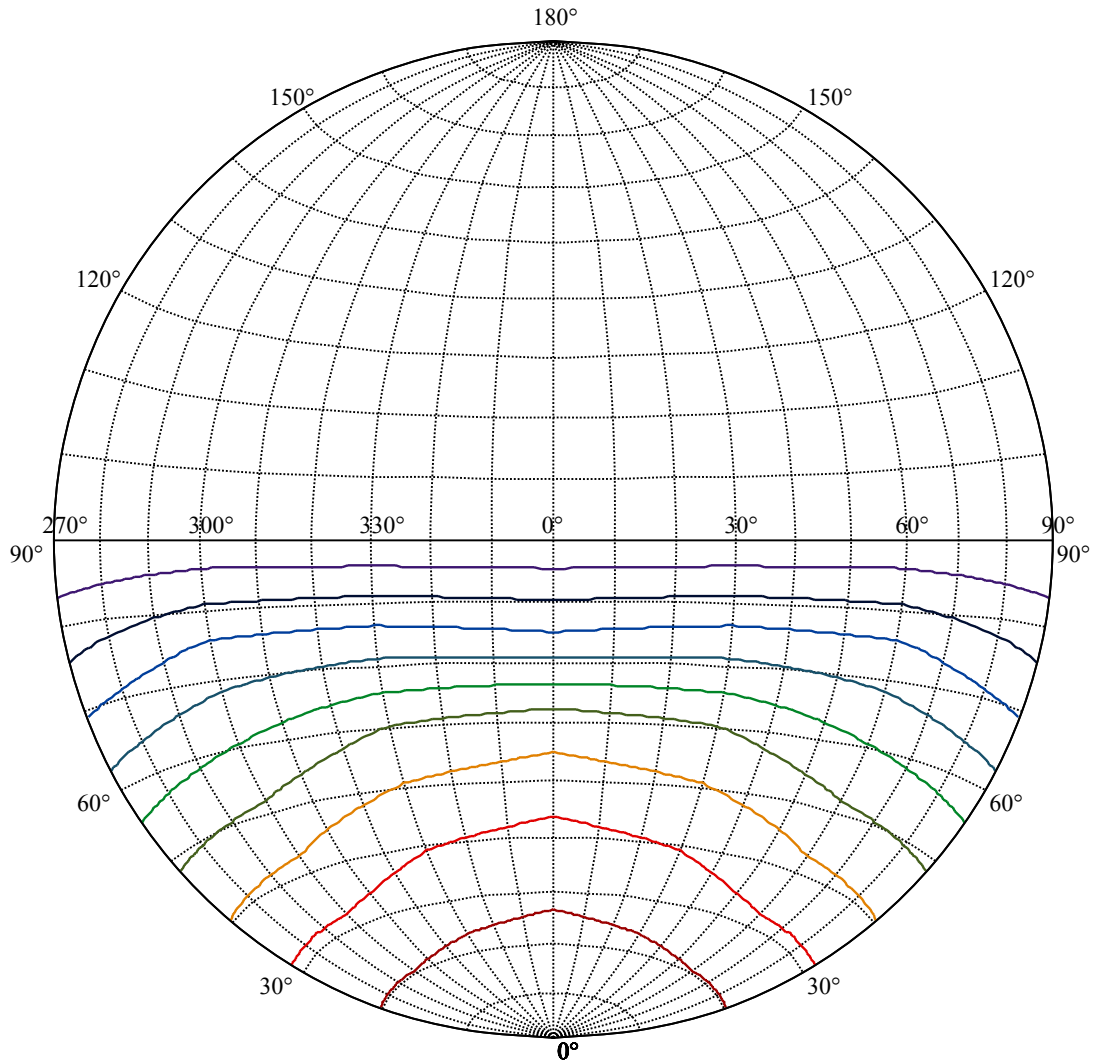


Max , Ave

Beam angle of C0 plane 135.05



(10%I _{max}) 123.81	—
(20%I _{max}) 247.621	—
(30%I _{max}) 371.431	—
(40%I _{max}) 495.242	—
(50%I _{max}) 619.052	—
(60%I _{max}) 742.863	—
(70%I _{max}) 866.673	—
(80%I _{max}) 990.484	—
(90%I _{max}) 1114.29	—



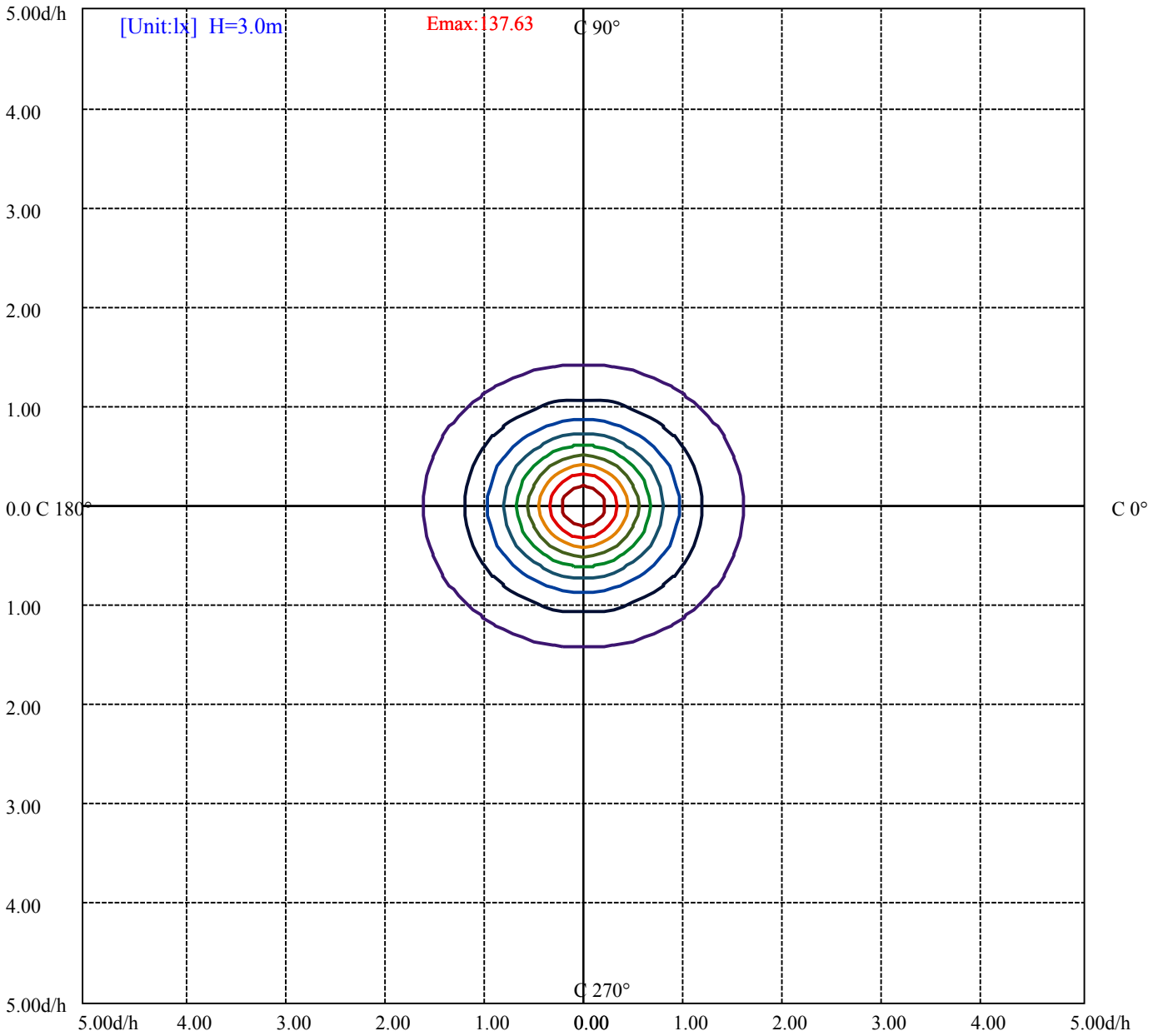
House

[Unit:cd]

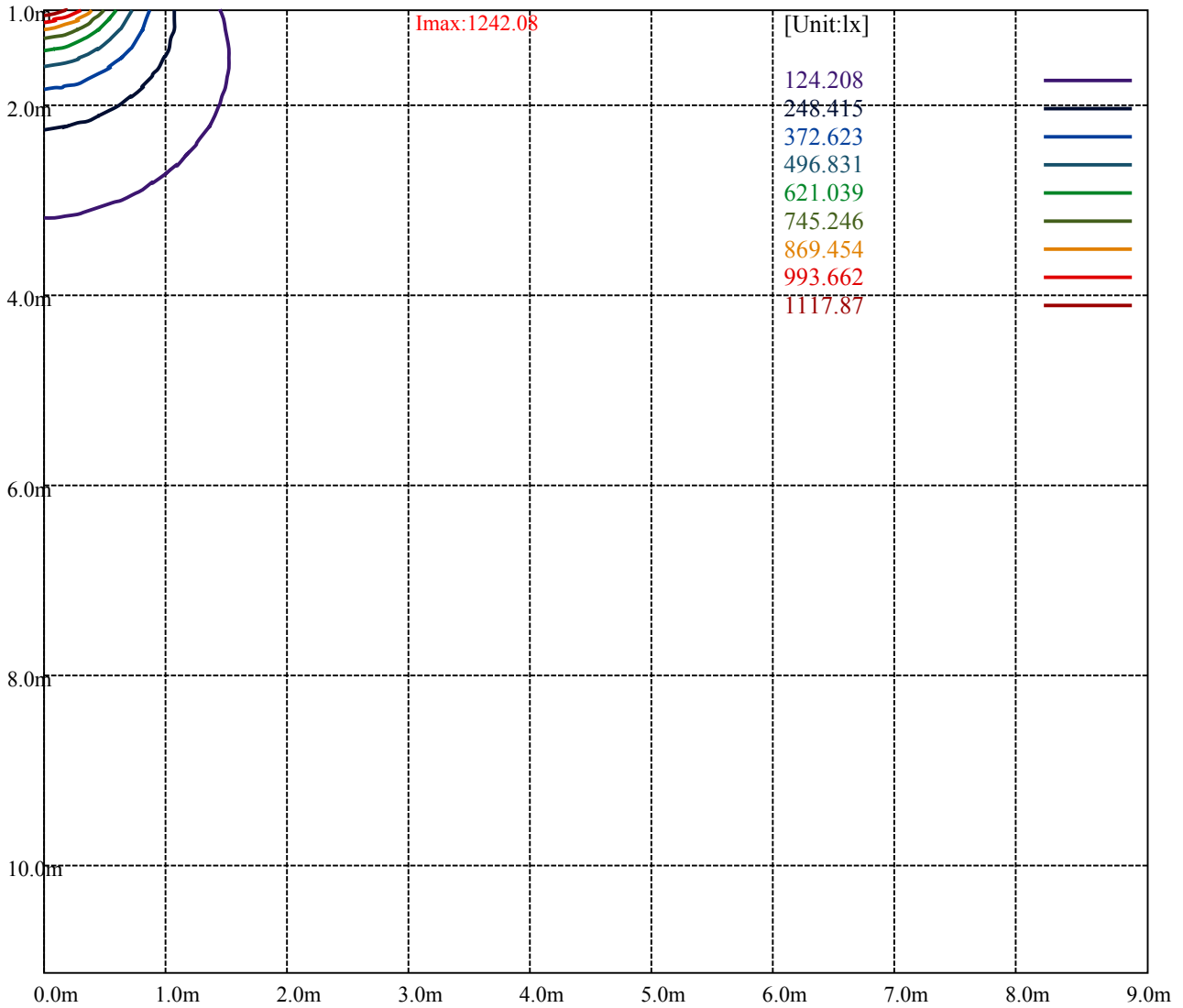
Road

Imax:1242.08

(10%Imax) 124.208	—
(20%Imax) 248.415	—
(30%Imax) 372.623	—
(40%Imax) 496.831	—
(50%Imax) 621.039	—
(60%Imax) 745.246	—
(70%Imax) 869.454	—
(80%Imax) 993.662	—
(90%Imax) 1117.87	—



(10%Emax) 13.76278	—
(20%Emax) 27.52567	—
(30%Emax) 41.28844	—
(40%Emax) 55.05122	—
(50%Emax) 68.814	—
(60%Emax) 82.57689	—
(70%Emax) 96.33967	—
(80%Emax) 110.1024	—
(90%Emax) 123.8656	—



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Luminance Limiting Curve(no luminous side)

Luminance Table

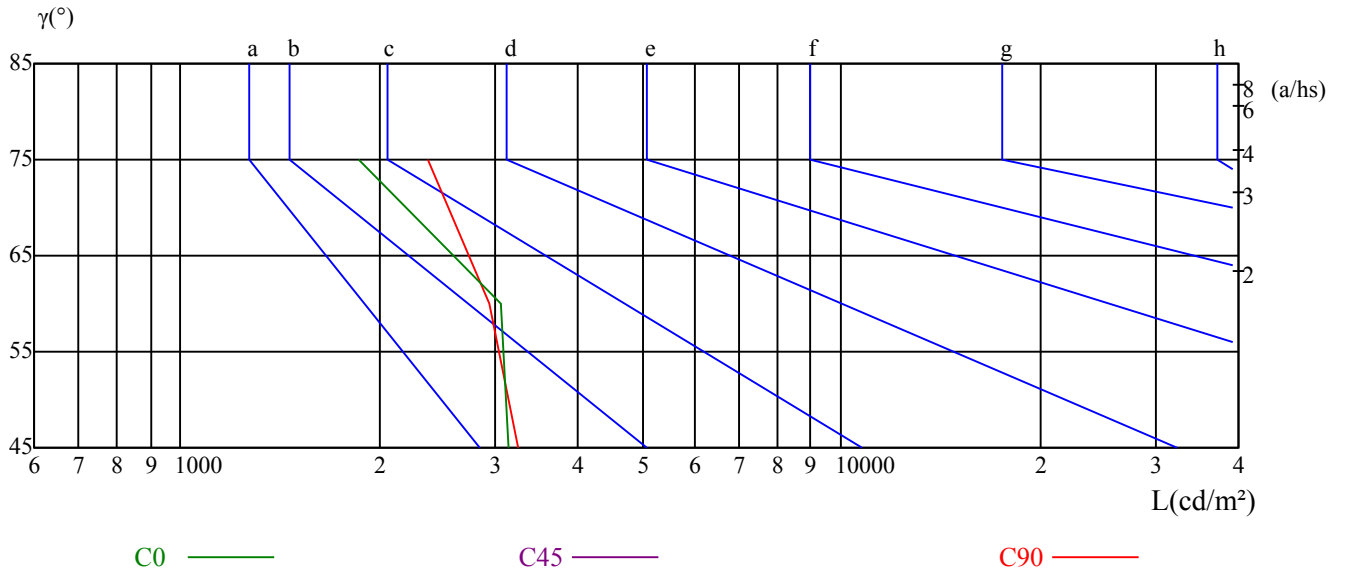
γ	45	50	55	60	65	70	75	80	85
C0	3134	0	0	3051	0	0	1865	0	0
C45	0	0	0	0	0	0	0	0	0
C90	3238	0	0	2932	0	0	2375	0	0

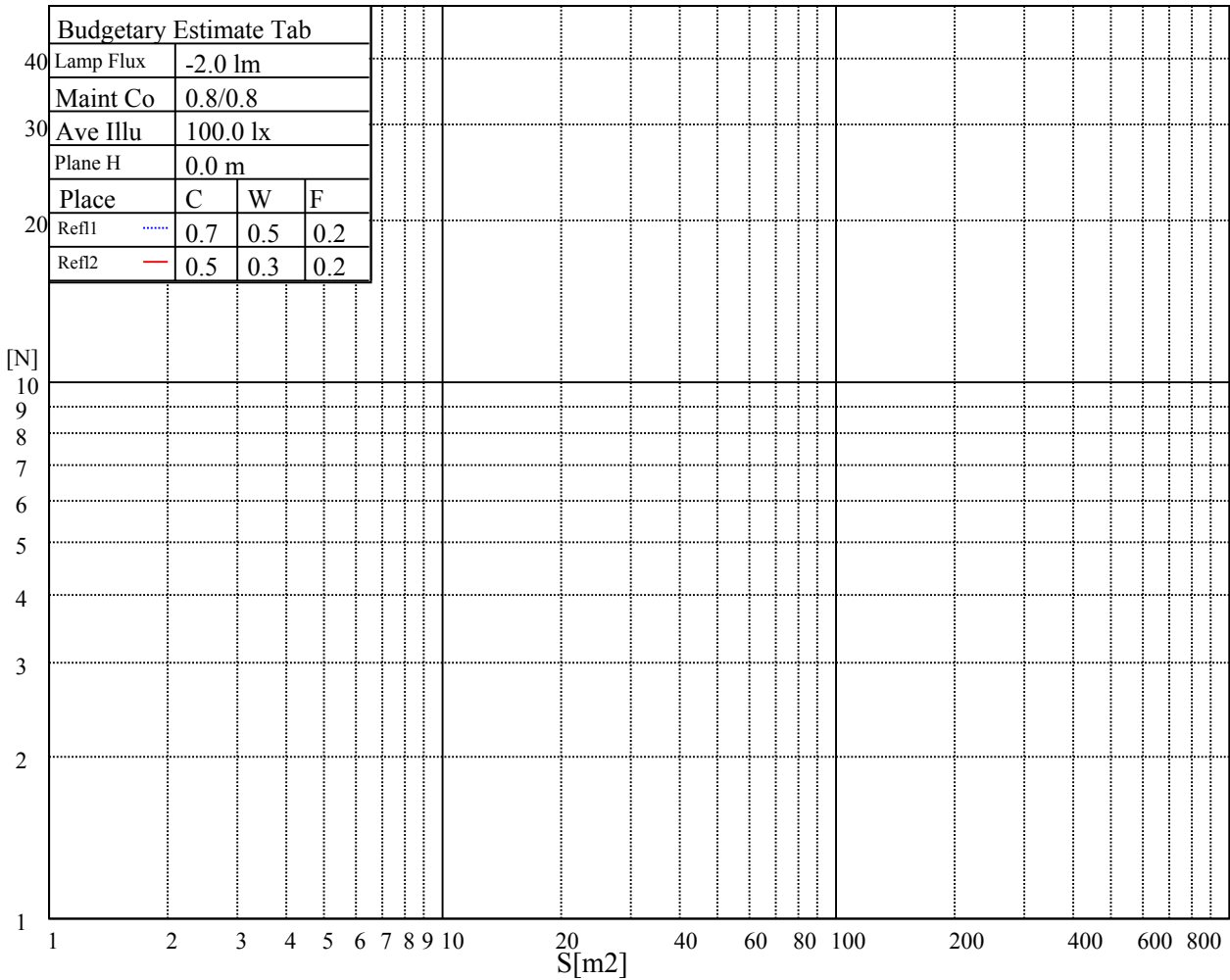
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	4443	3113	0	0	0	0

Glare Table

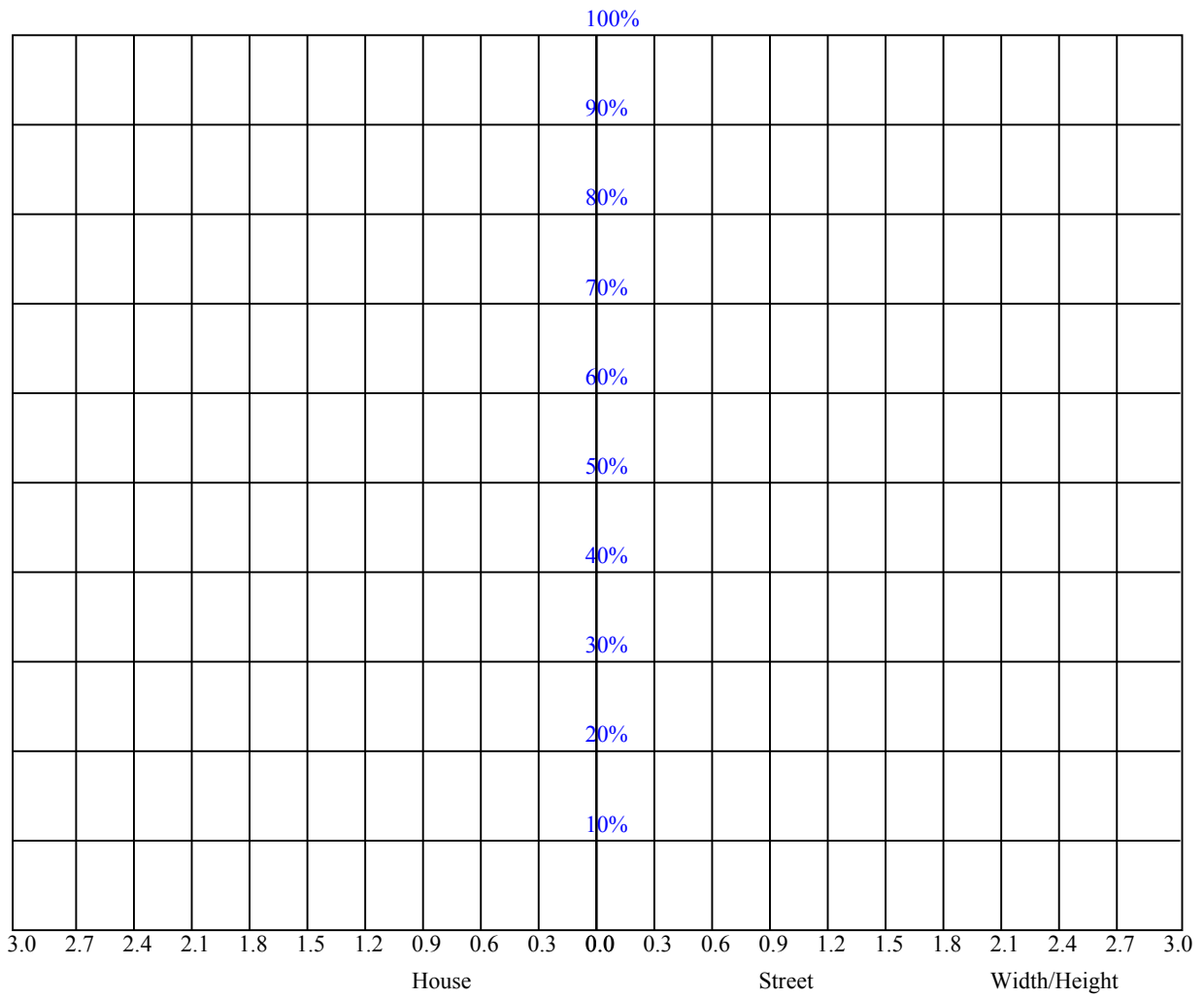
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

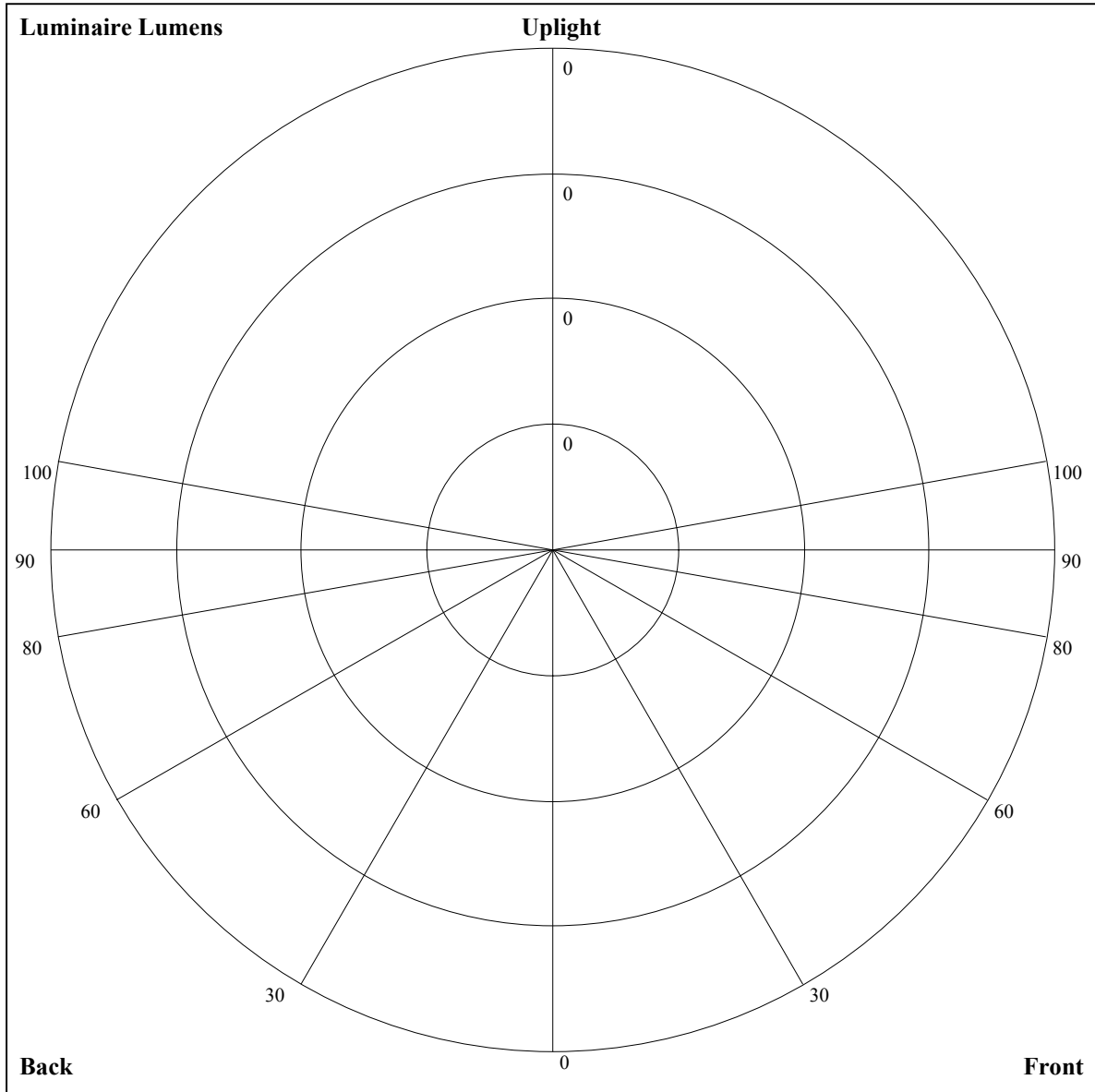
Luminance Limiting Curve





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	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





Luminaire Lumens:

FL=0,FM=0,FH=0,FVH=0

BL=0,BM=0,BH=0,BVH=0

UL=0,UH=0

BUG Rating:B0-U0-G0

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Intensity data(cd)

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C/γ(°)	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0
0.0	1242.08	1189.93	1114.88	1005.84	833.03	379.78	13.12	9.61	9.42
30.0	1239.18	1184.71	1086.80	964.33	773.02	424.20	15.24	10.40	10.35
60.0	1238.13	1170.87	1022.45	849.65	635.14	394.77	24.91	11.19	10.21
90.0	1236.94	1178.96	1029.73	820.75	563.45	283.20	21.73	9.61	10.08
120.0	1238.13	1174.26	1024.14	841.64	632.78	394.50	29.68	11.45	10.35
150.0	1239.97	1183.01	1073.80	949.88	761.33	482.16	21.07	10.40	10.48
180.0	1242.08	1175.05	1085.37	961.97	789.70	365.33	12.59	10.00	10.35
210.0	1239.18	1171.26	1057.16	927.16	733.36	408.69	14.71	9.87	9.68
240.0	1238.13	1174.13	1022.45	836.78	627.79	389.90	29.81	11.19	9.68
270.0	1236.94	1165.00	1004.38	786.73	523.66	238.91	10.87	8.95	9.15
300.0	1238.13	1169.17	1020.76	841.11	625.03	387.41	22.39	10.40	9.29
330.0	1239.97	1174.92	1070.03	938.06	743.21	333.26	11.93	9.74	9.42
360.0	1242.08	1189.93	1114.88	1005.84	833.03	379.78	13.12	9.61	9.42
C/γ(°)	135.0	150.0	165.0	180.0					
0.0	10.05	11.20	12.29	12.92					
30.0	11.11	11.99	12.55	12.65					
60.0	11.11	11.99	12.55	12.65					
90.0	10.97	11.99	12.68	12.65					
120.0	11.11	11.99	12.68	12.79					
150.0	11.24	12.13	12.81	12.92					
180.0	11.24	12.26	12.81	12.92					
210.0	10.18	11.20	12.29	12.65					
240.0	10.18	11.20	12.15	12.65					
270.0	10.05	11.20	12.15	12.65					
300.0	9.92	11.07	12.29	12.79					
330.0	10.05	11.20	12.29	12.92					
360.0	10.05	11.20	12.29	12.92					