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LumCAT: 3335-1 30W 3000K 595 UGR 160LM

Luminaire:

Report No:

Voltage(V): 230.1000

Test No: BG6-243785-01

Current(A): 0.1400

LampCAT:

Power (W): 30.7300

Lamp flux(lm)

PF: 0.9514

Number of Lamps: 1

Ballast type:

Length(mm): 554

Width(mm): 554

Phm Type: C

Height(mm): 0

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### Photometric Results

Lumens(lm): 4732.69

Lumens(lm)/Power(W): 154.01

Central intensity(cd): 2345.044

Maximum intensity(cd): 2345.044

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

Beam Angle(50%Imax): [C0/180]Total=81.5

[C90/270]Total=88.6

Field angle(10%Imax): [C0/180]Total=141.6

[C90/270]Total=139.3

Maximum s/h(1/2): C0\_180=1.21 C90\_270=1.23

Maximum s/h(1/4): C0\_180=1.17 C90\_270=1.23

Up flux rate of LUM(%): 0.27%

Down flux rate of LUM(%): 99.73%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 86.967%

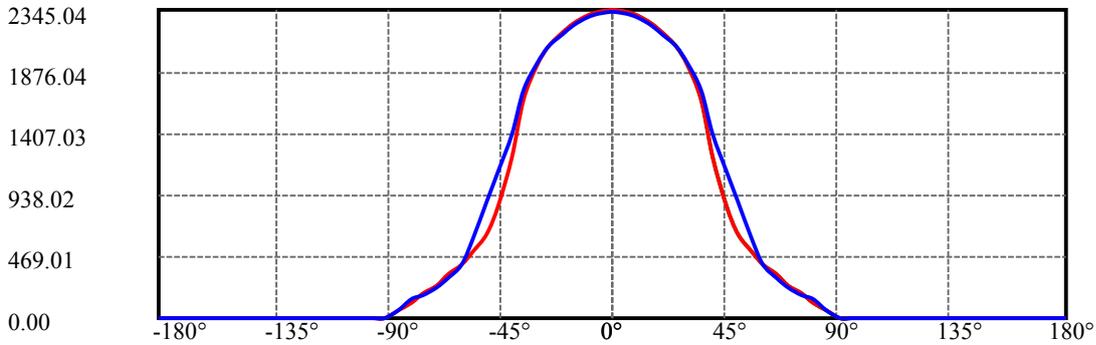
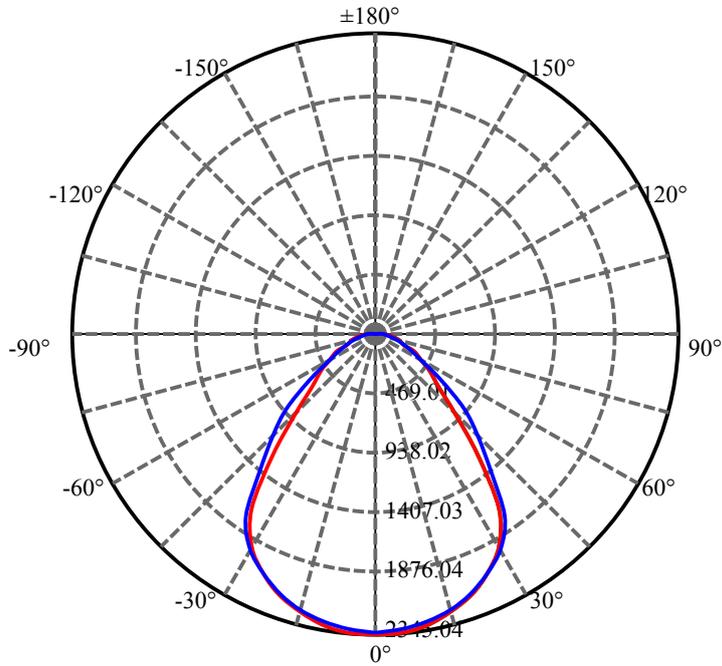
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2332.707	.000	.000	.000%	.000%
5.0	2320.370	55.626	55.626	1.175%	1.175%
10.0	2286.232	164.793	220.419	3.482%	4.657%
15.0	2232.849	268.069	488.488	5.664%	10.322%
20.0	2160.348	362.061	850.549	7.650%	17.972%
25.0	2061.800	442.825	1293.374	9.357%	27.328%
30.0	1922.438	504.209	1797.583	10.654%	37.982%
35.0	1696.506	532.915	2330.498	11.260%	49.243%
40.0	1312.179	501.977	2832.474	10.607%	59.849%
45.0	983.960	425.149	3257.623	8.983%	68.832%
50.0	749.431	350.257	3607.880	7.401%	76.233%
55.0	552.377	283.056	3890.936	5.981%	82.214%
60.0	420.831	224.954	4115.891	4.753%	86.967%
65.0	333.944	183.487	4299.378	3.877%	90.844%
70.0	255.127	149.157	4448.534	3.152%	93.996%
75.0	190.548	116.492	4565.026	2.461%	96.457%
80.0	127.870	85.200	4650.226	1.800%	98.257%
85.0	62.847	51.822	4702.048	1.095%	99.352%
90.0	2.725	17.954	4720.002	.379%	99.732%
95.0	1.606	1.186	4721.188	.025%	99.757%
100.0	1.415	.821	4722.009	.017%	99.774%
105.0	1.310	.729	4722.738	.015%	99.790%
110.0	1.289	.679	4723.417	.014%	99.804%
115.0	1.394	.679	4724.097	.014%	99.818%
120.0	1.775	.770	4724.867	.016%	99.835%
125.0	1.817	.830	4725.697	.018%	99.852%
130.0	2.218	.877	4726.574	.019%	99.871%
135.0	2.429	.939	4727.513	.020%	99.891%
140.0	2.429	.900	4728.413	.019%	99.910%
145.0	2.789	.871	4729.284	.018%	99.928%
150.0	3.000	.852	4730.136	.018%	99.946%
155.0	2.979	.757	4730.893	.016%	99.962%
160.0	3.021	.629	4731.522	.013%	99.975%
165.0	2.958	.493	4732.015	.010%	99.986%
170.0	3.190	.365	4732.379	.008%	99.993%
175.0	3.359	.234	4732.613	.005%	99.998%
180.0	3.422	.081	4732.695	.002%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	1797.58	37.98%
0-40	2832.47	59.85%
0-60	4115.89	86.97%
0-90	4720.00	99.73%
0-120	4724.87	99.83%
0-180	4732.69	100.00%
60-90	829.07	17.52%
90-120	22.82	0.48%
90-130	24.53	0.52%
90-150	28.09	0.59%
90-180	30.57	0.65%
0-53.15	3786.16	80.00%

## ZONAL LUMEN SUMMARY

0-10	220.42
10-20	630.13
20-30	947.03
30-40	1034.89
40-50	775.41
50-60	508.01
60-70	332.64
70-80	201.69
80-90	69.78
90-100	2.01
100-110	1.41
110-120	1.45
120-130	1.71
130-140	1.84
140-150	1.72
150-160	1.39
160-170	0.86
170-180	0.23



C0(Max): —————

C0/C180: —————

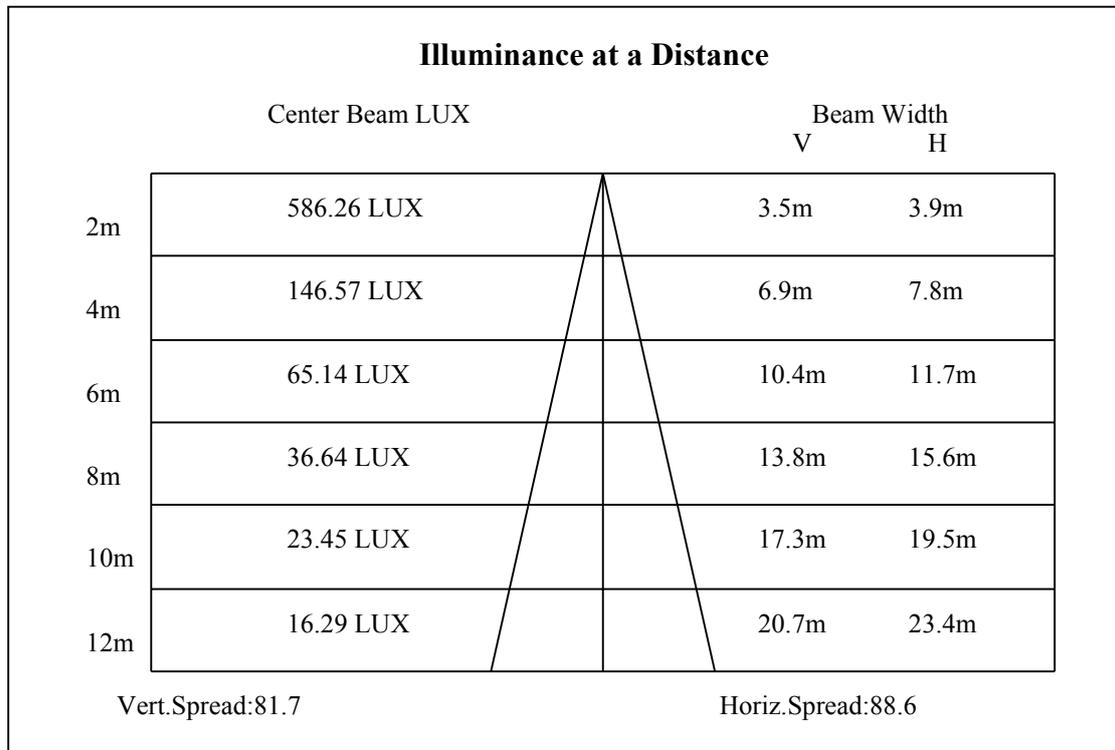
C90/C270: —————

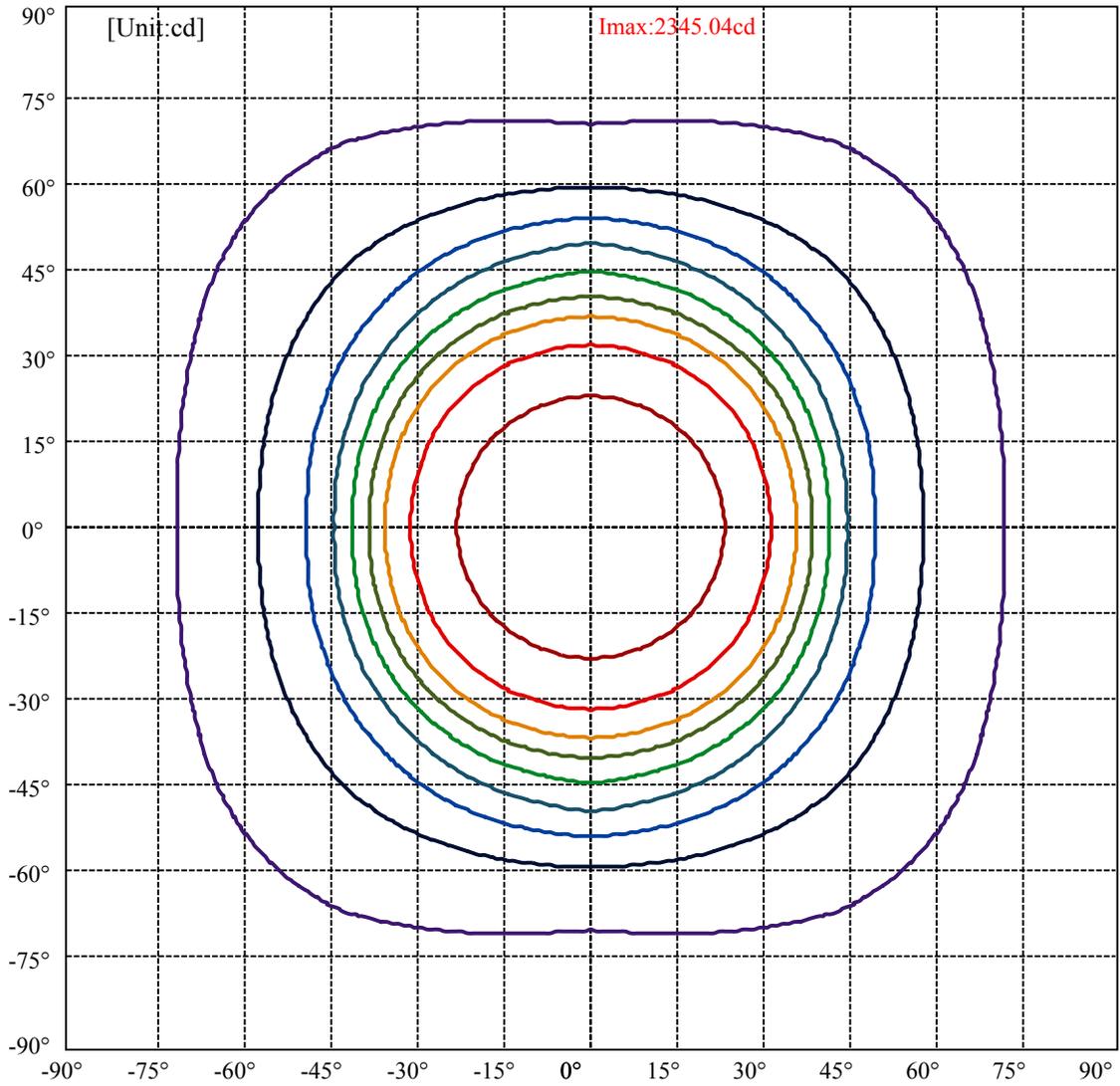
Field angle(10%Imax):C0/180Left:70.8 Right:70.8

:C90/270Left:69.7 Right:69.7

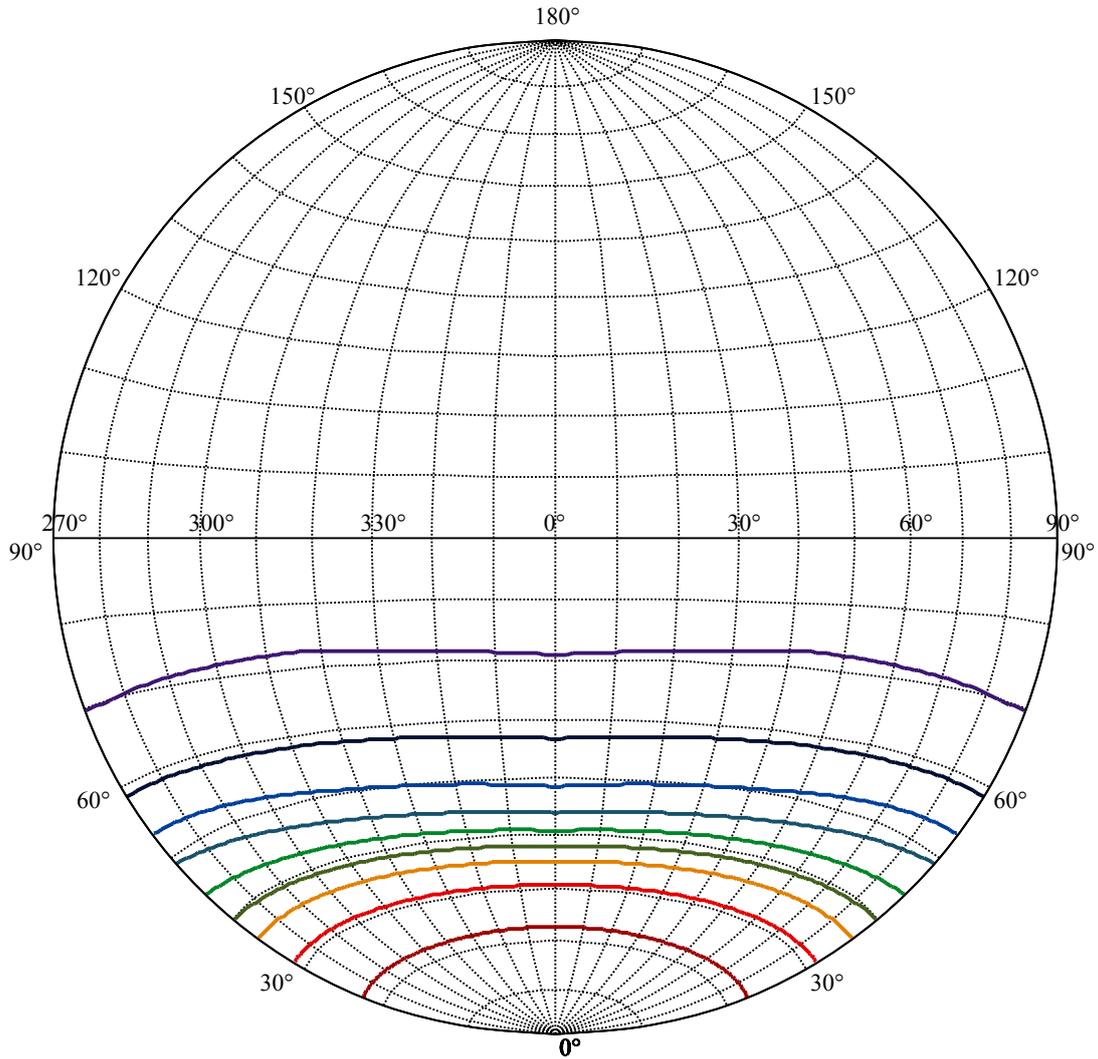
Beam Angle(50%Imax):C0/180Left:40.7 Right:40.7

:C90/270Left:44.3 Right:44.3





(10%Imax) 234.259	—
(20%Imax) 468.519	—
(30%Imax) 702.778	—
(40%Imax) 937.037	—
(50%Imax) 1171.3	—
(60%Imax) 1405.56	—
(70%Imax) 1639.82	—
(80%Imax) 1874.07	—
(90%Imax) 2108.33	—



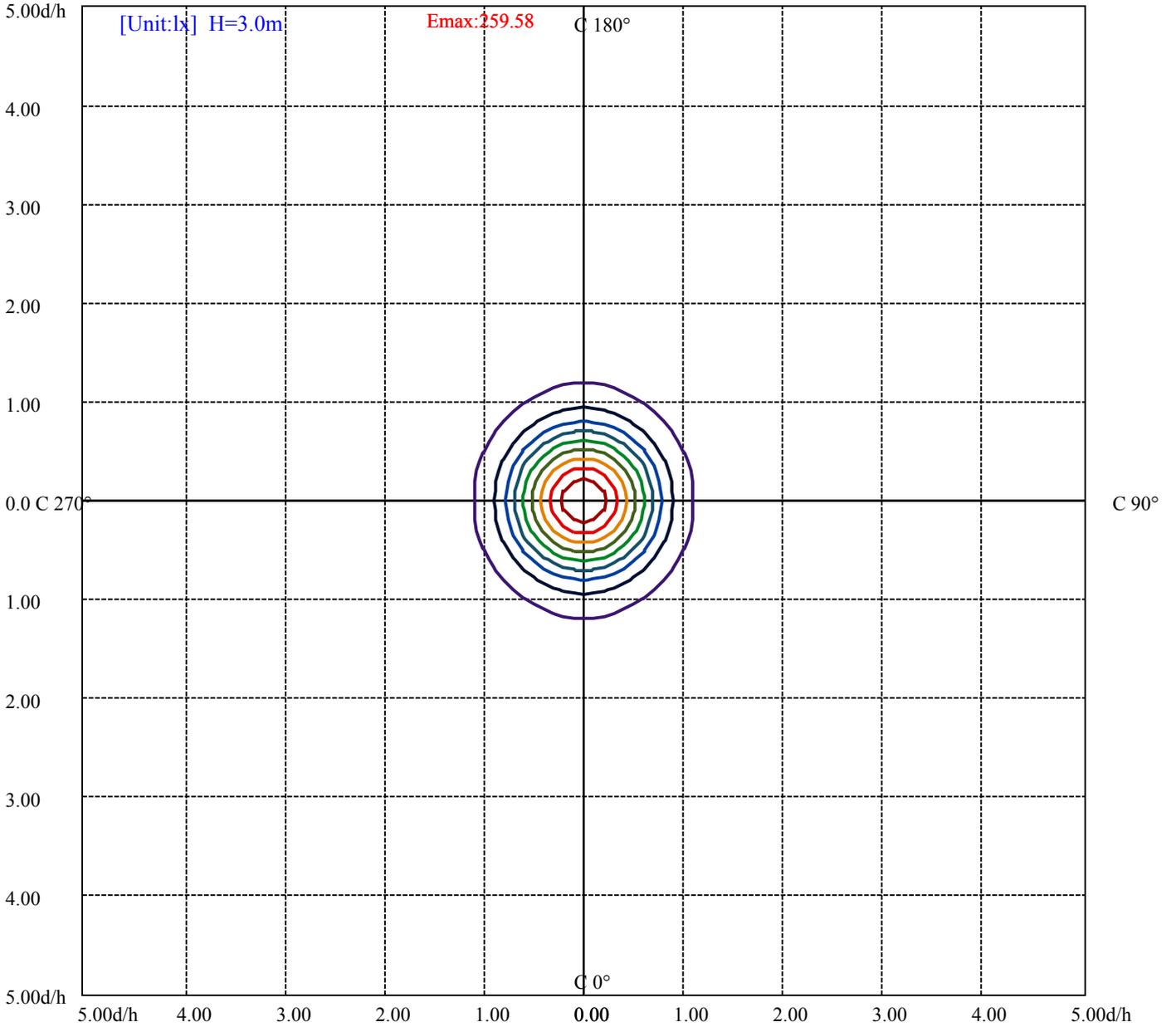
House

[Unit:cd]

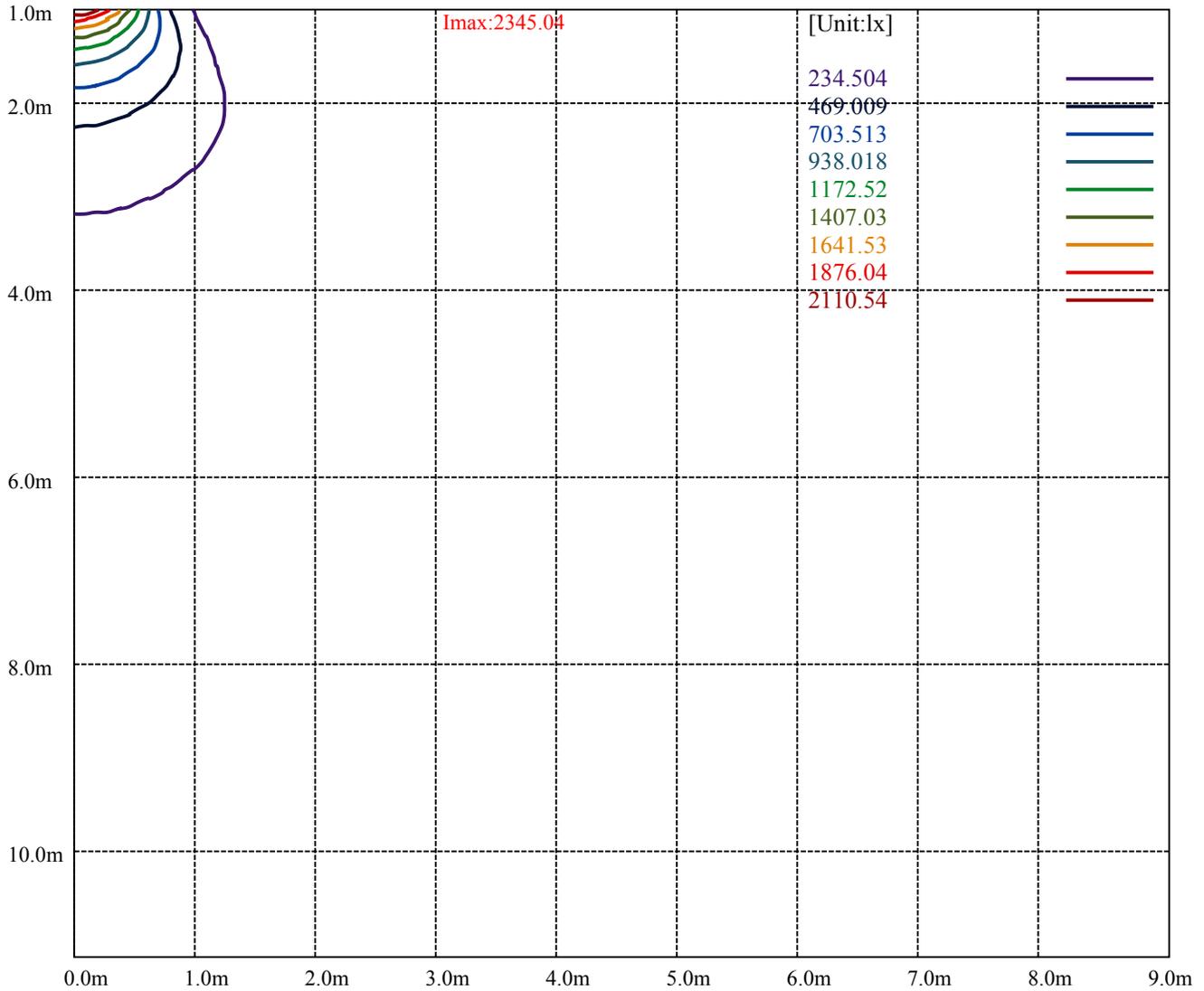
Road

**I<sub>max</sub>:2345.04**

(10%I <sub>max</sub> ) 234.504	—
(20%I <sub>max</sub> ) 469.009	—
(30%I <sub>max</sub> ) 703.513	—
(40%I <sub>max</sub> ) 938.018	—
(50%I <sub>max</sub> ) 1172.52	—
(60%I <sub>max</sub> ) 1407.03	—
(70%I <sub>max</sub> ) 1641.53	—
(80%I <sub>max</sub> ) 1876.04	—
(90%I <sub>max</sub> ) 2110.54	—



(10%Emax) 25.95833	—
(20%Emax) 51.91678	—
(30%Emax) 77.87511	—
(40%Emax) 103.8336	—
(50%Emax) 129.7922	—
(60%Emax) 155.75	—
(70%Emax) 181.7089	—
(80%Emax) 207.6667	—
(90%Emax) 233.6255	—



Luminance Table

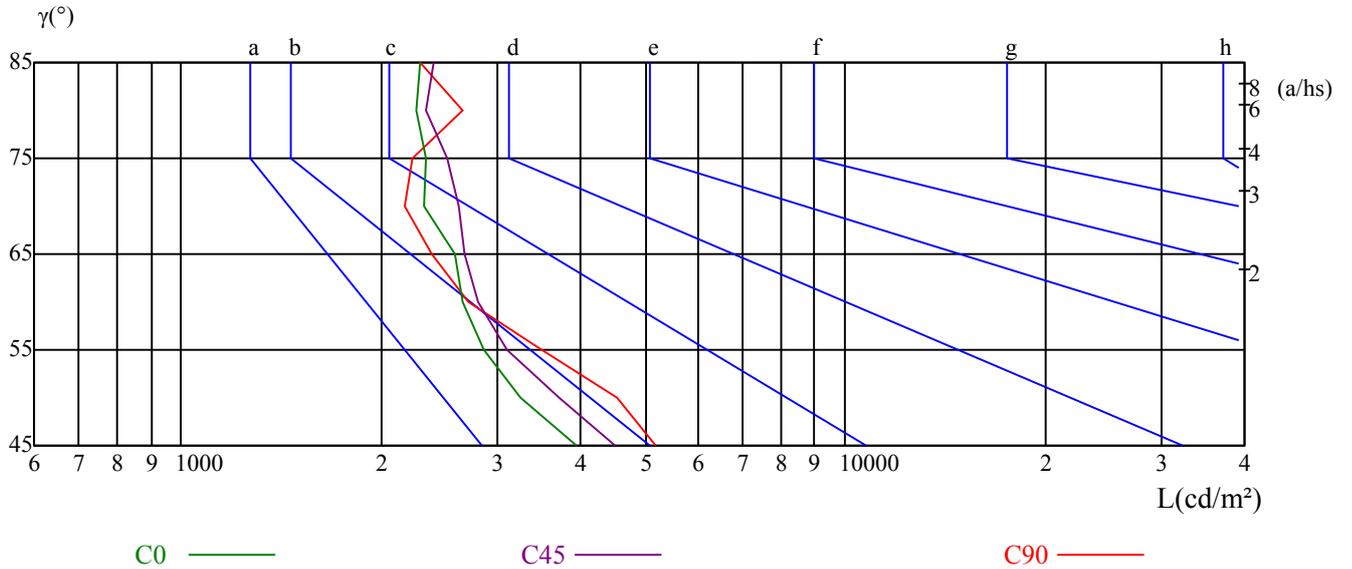
$\gamma$	45	50	55	60	65	70	75	80	85
C0	3942	3244	2857	2660	2581	2323	2339	2263	2297
C45	4505	3707	3102	2803	2663	2617	2513	2339	2406
C90	5183	4537	3491	2704	2391	2165	2231	2656	2290

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
2581	2391	2663	2339	2231	2513	2297	2290	2406

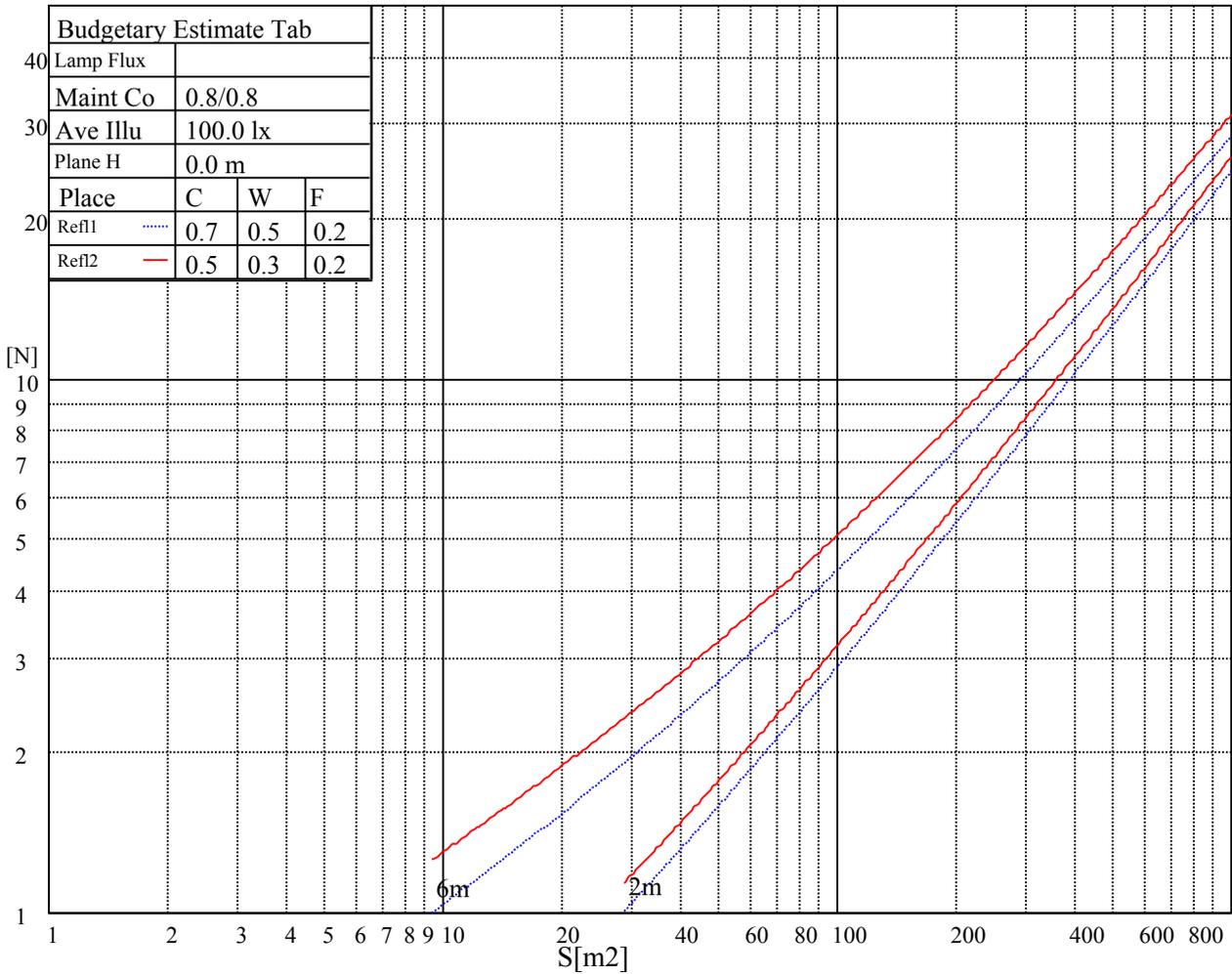
Glare Table

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

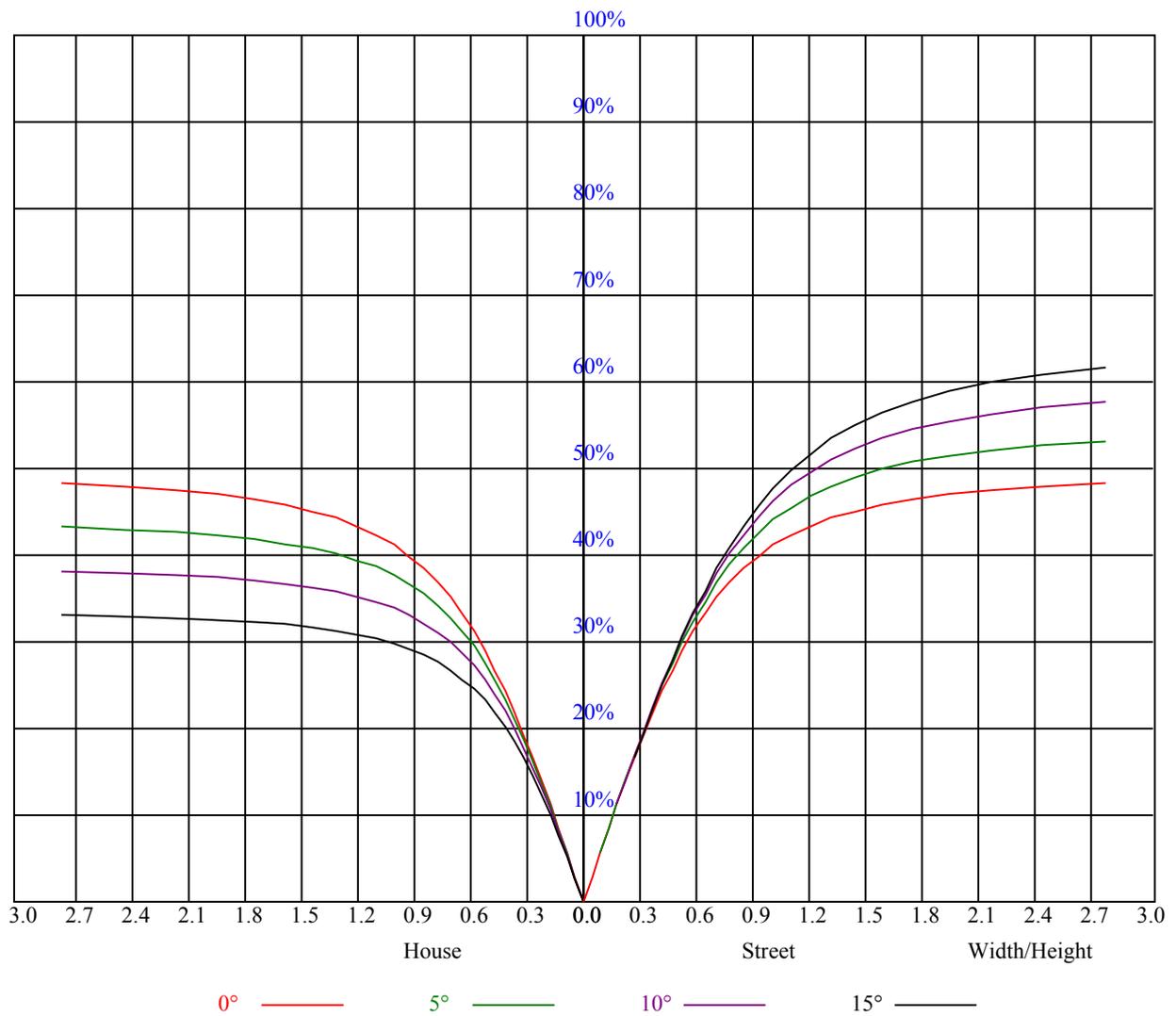
Luminance Limiting Curve



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	9.34	10.78	9.71	11.09	11.40	8.87	10.30	9.23	10.62	10.93
	3H	10.68	11.96	11.06	12.29	12.66	10.52	11.81	10.90	12.14	12.50
	4H	11.28	12.48	11.68	12.83	13.21	11.20	12.41	11.60	12.76	13.14
	6H	11.91	13.02	12.32	13.39	13.78	11.76	12.87	12.17	13.24	13.63
	8H	12.16	13.22	12.59	13.61	14.01	11.96	13.02	12.39	13.41	13.81
	12H	12.46	13.48	12.90	13.86	14.29	12.25	13.26	12.68	13.64	14.07
4H	2H	9.85	11.05	10.25	11.40	11.78	9.47	10.67	9.87	11.02	11.40
	3H	11.47	12.47	11.88	12.87	13.28	11.37	12.38	11.79	12.78	13.18
	4H	12.22	13.13	12.66	13.54	13.98	12.20	13.10	12.63	13.52	13.96
	6H	12.87	13.65	13.33	14.10	14.56	12.77	13.55	13.23	14.00	14.46
	8H	13.20	13.93	13.66	14.38	14.84	13.04	13.77	13.50	14.22	14.69
	12H	13.52	14.18	14.01	14.66	15.13	13.35	14.00	13.83	14.48	14.95
8H	4H	12.56	13.29	13.02	13.74	14.21	12.53	13.27	13.00	13.71	14.18
	6H	13.37	13.98	13.87	14.47	14.95	13.26	13.87	13.76	14.37	14.84
	8H	13.80	14.34	14.31	14.85	15.34	13.63	14.18	14.15	14.69	15.18
	12H	14.54	15.03	15.06	15.52	16.09	14.41	14.89	14.92	15.38	15.95
12H	4H	12.59	13.25	13.07	13.73	14.20	12.57	13.23	13.05	13.71	14.18
	6H	14.25	14.00	13.98	14.47	15.01	14.15	13.90	13.88	14.37	14.91
	8H	13.93	14.42	14.45	14.91	15.48	13.78	14.26	14.29	14.76	15.32
Variation with the observer position at spacings:											
S = 1.0H	0.3/-0.7					0.5/-0.7					
S = 1.5H	0.8/-1.2					1.0/-1.0					
S = 2.0H	1.7/-1.3					1.4/-1.1					
Standard tables:	BK3					BK4					
Uncorrected UGR	1.2					1.3					



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	1.19	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	1.06	1.02	0.99	1.04	1.00	0.97	1.00	0.97	0.94	0.96	0.93	0.91	0.92	0.90	0.89	0.87
2	0.95	0.89	0.84	0.93	0.87	0.83	0.89	0.85	0.81	0.86	0.82	0.79	0.83	0.80	0.77	0.75
3	0.85	0.78	0.72	0.83	0.77	0.71	0.80	0.75	0.70	0.78	0.73	0.69	0.75	0.71	0.68	0.66
4	0.76	0.69	0.63	0.75	0.68	0.62	0.73	0.66	0.61	0.70	0.65	0.61	0.68	0.64	0.60	0.58
5	0.69	0.61	0.55	0.68	0.61	0.55	0.66	0.59	0.54	0.64	0.58	0.54	0.62	0.57	0.53	0.51
6	0.63	0.55	0.49	0.62	0.55	0.49	0.60	0.54	0.49	0.59	0.53	0.48	0.57	0.52	0.48	0.46
7	0.58	0.50	0.44	0.57	0.49	0.44	0.56	0.49	0.44	0.54	0.48	0.43	0.53	0.47	0.43	0.41
8	0.53	0.45	0.40	0.53	0.45	0.40	0.51	0.45	0.40	0.50	0.44	0.39	0.49	0.43	0.39	0.37
9	0.49	0.42	0.37	0.49	0.41	0.36	0.48	0.41	0.36	0.46	0.40	0.36	0.45	0.40	0.36	0.34
10	0.46	0.38	0.33	0.45	0.38	0.33	0.44	0.38	0.33	0.43	0.37	0.33	0.42	0.37	0.33	0.31



## 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	2345.04	2332.79	2299.58	2244.15	2168.10	2067.55	1917.98	1657.89	1227.45
45.0	2336.26	2317.29	2282.47	2229.70	2157.62	2057.87	1920.64	1697.23	1313.21
90.0	2327.30	2314.12	2280.40	2227.84	2158.05	2063.91	1930.49	1733.69	1394.84
135.0	2322.23	2317.29	2282.47	2229.70	2157.62	2057.87	1920.64	1697.23	1313.21
180.0	2345.04	2332.79	2299.58	2244.15	2168.10	2067.55	1917.98	1657.89	1227.45
225.0	2336.26	2317.29	2282.47	2229.70	2157.62	2057.87	1920.64	1697.23	1313.21
270.0	2327.30	2314.12	2280.40	2227.84	2158.05	2063.91	1930.49	1733.69	1394.84
315.0	2322.23	2317.29	2282.47	2229.70	2157.62	2057.87	1920.64	1697.23	1313.21
360.0	2345.04	2332.79	2299.58	2244.15	2168.10	2067.55	1917.98	1657.89	1227.45

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	855.56	640.00	502.86	408.14	334.79	243.87	185.82	120.58	61.43
45.0	977.71	731.35	546.04	430.11	345.44	274.67	199.59	124.68	64.35
90.0	1124.86	895.02	614.57	414.98	310.12	227.31	177.20	141.54	61.26
135.0	977.71	731.35	546.04	430.11	345.44	274.67	199.59	124.68	64.35
180.0	855.56	640.00	502.86	408.14	334.79	243.87	185.82	120.58	61.43
225.0	977.71	731.35	546.04	430.11	345.44	274.67	199.59	124.68	64.35
270.0	1124.86	895.02	614.57	414.98	310.12	227.31	177.20	141.54	61.26
315.0	977.71	731.35	546.04	430.11	345.44	274.67	199.59	124.68	64.35
360.0	855.56	640.00	502.86	408.14	334.79	243.87	185.82	120.58	61.43

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	2.87	2.37	1.44	0.93	1.35	1.44	1.86	1.86	2.20
45.0	3.17	1.35	1.31	1.35	1.31	1.31	1.65	1.73	2.28
90.0	1.69	1.35	1.61	1.61	1.18	1.52	1.94	1.94	2.11
135.0	3.17	1.35	1.31	1.35	1.31	1.31	1.65	1.73	2.28
180.0	2.87	2.37	1.44	0.93	1.35	1.44	1.86	1.86	2.20
225.0	3.17	1.35	1.31	1.35	1.31	1.31	1.65	1.73	2.28
270.0	1.69	1.35	1.61	1.61	1.18	1.52	1.94	1.94	2.11
315.0	3.17	1.35	1.31	1.35	1.31	1.31	1.65	1.73	2.28
360.0	2.87	2.37	1.44	0.93	1.35	1.44	1.86	1.86	2.20

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	2.37	2.45	2.70	2.79	2.70	2.96	2.54	3.30	3.46
45.0	2.49	2.32	2.66	2.96	3.13	3.04	3.08	3.04	3.42
90.0	2.37	2.62	3.13	3.30	2.96	3.04	3.13	3.38	3.13
135.0	2.49	2.32	2.66	2.96	3.13	3.04	3.08	3.04	3.42
180.0	2.37	2.45	2.70	2.79	2.70	2.96	2.54	3.30	3.46
225.0	2.49	2.32	2.66	2.96	3.13	3.04	3.08	3.04	3.42
270.0	2.37	2.62	3.13	3.30	2.96	3.04	3.13	3.38	3.13
315.0	2.49	2.32	2.66	2.96	3.13	3.04	3.08	3.04	3.42
360.0	2.37	2.45	2.70	2.79	2.70	2.96	2.54	3.30	3.46

C/γ(°)	180.0
0.0	3.55
45.0	3.46
90.0	3.21
135.0	3.46
180.0	3.55
225.0	3.46
270.0	3.21
315.0	3.46
360.0	3.55