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Nata

Client:

LumCAT: 3-1940-M

Luminaire:

Report No:

Voltage(V): 32.9100

Test No: GC2019081203

Current(A): 0.2970

LampCAT: TRIDONIC SLE G7 17MM

Power (W): 9.7700

Lamp flux(lm): 1190.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 78

Width(mm): 78

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1024.89, Efficiency(%): 86.13% , Luminous Efficacy(lm/W): 104.90

Central intensity(cd): 2057.625, Maximum intensity(cd): 2057.625

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=38.6

[C90/270]Total=38.6

Field angle(10%Imax): [C0/180]Total=68.4

[C90/270]Total=68.4

Maximum s/h(1/2): C0_180=0.64 C90_270=0.64

Maximum s/h(1/4): C0_180=0.63 C90_270=0.63

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 86.13%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.351%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2019/8/12
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

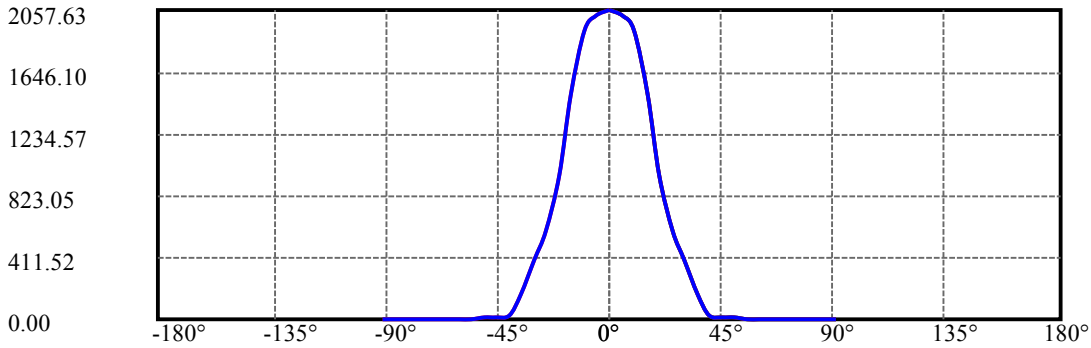
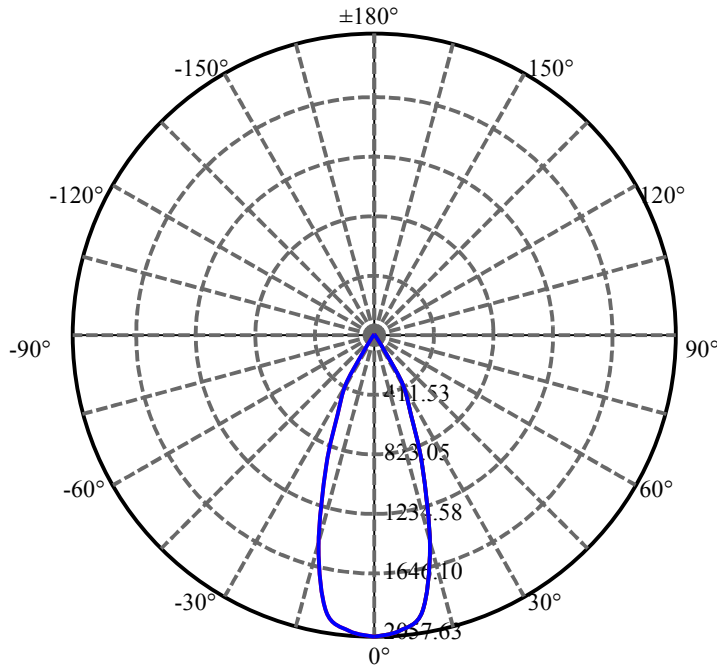
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2057.625	0.000	0	.000%	.000%
5.0	2023.734	48.791	48.791	4.100%	4.761%
10.0	1916.227	140.945	189.736	11.844%	18.513%
15.0	1490.337	202.075	391.811	16.981%	38.230%
20.0	954.780	201.512	593.323	16.934%	57.892%
25.0	591.799	162.208	755.531	13.631%	73.718%
30.0	391.071	124.383	879.914	10.452%	85.855%
35.0	168.202	82.357	962.271	6.921%	93.890%
40.0	19.596	31.333	993.603	2.633%	96.948%
45.0	9.267	5.344	998.948	.449%	97.469%
50.0	7.151	3.317	1002.265	.279%	97.793%
55.0	6.335	2.932	1005.198	.246%	98.079%
60.0	5.752	2.794	1007.991	.235%	98.351%
65.0	5.407	2.713	1010.704	.228%	98.616%
70.0	5.773	2.831	1013.535	.238%	98.892%
75.0	6.145	3.115	1016.65	.262%	99.196%
80.0	5.041	2.993	1019.643	.252%	99.488%
85.0	4.880	2.696	1022.339	.227%	99.751%
90.0	4.430	2.549	1024.888	.214%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	879.91	73.94%	85.85%
0-40	993.60	83.50%	96.95%
0-60	1007.99	84.71%	98.35%
0-90	1022.34	85.91%	99.75%
0-120	1022.34	85.91%	99.75%
0-180	1024.89	86.13%	100.00%
60-90	17.14	1.44%	1.67%
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%
0-27.59	819.91	68.90%	80.00%

ZONAL LUMEN SUMMARY

0-10	189.74
10-20	403.59
20-30	286.59
30-40	113.69
40-50	8.66
50-60	5.73
60-70	5.54
70-80	6.11
80-90	2.70
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: —————

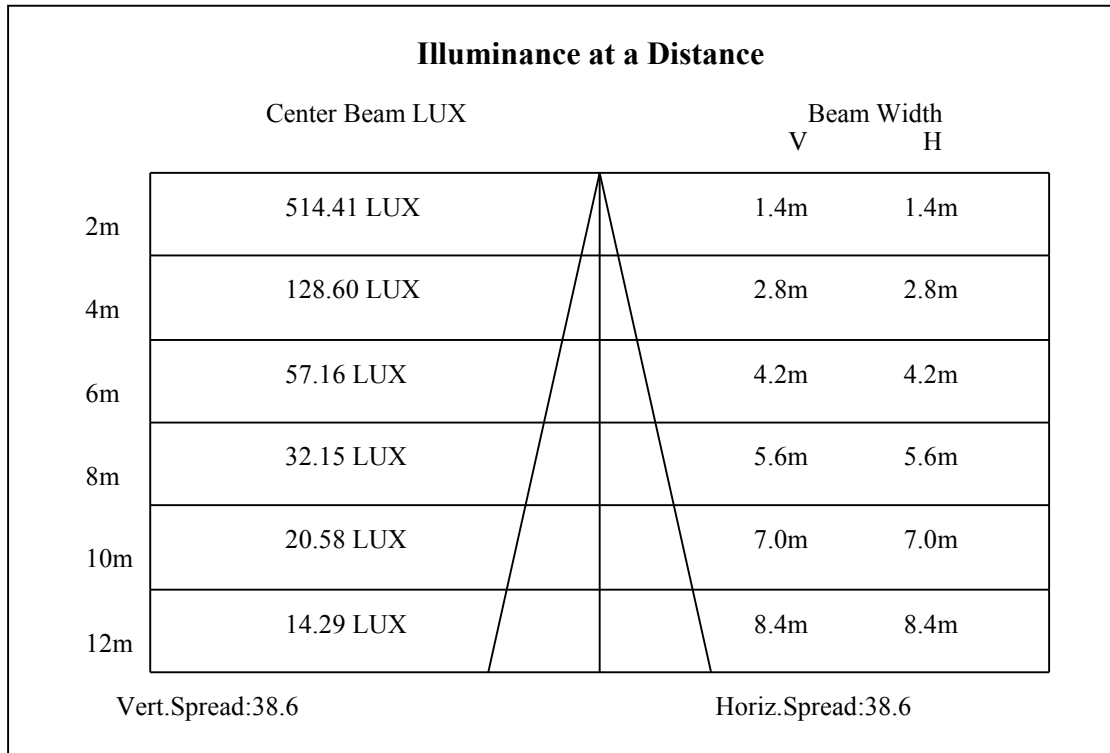
C90/C270: —————

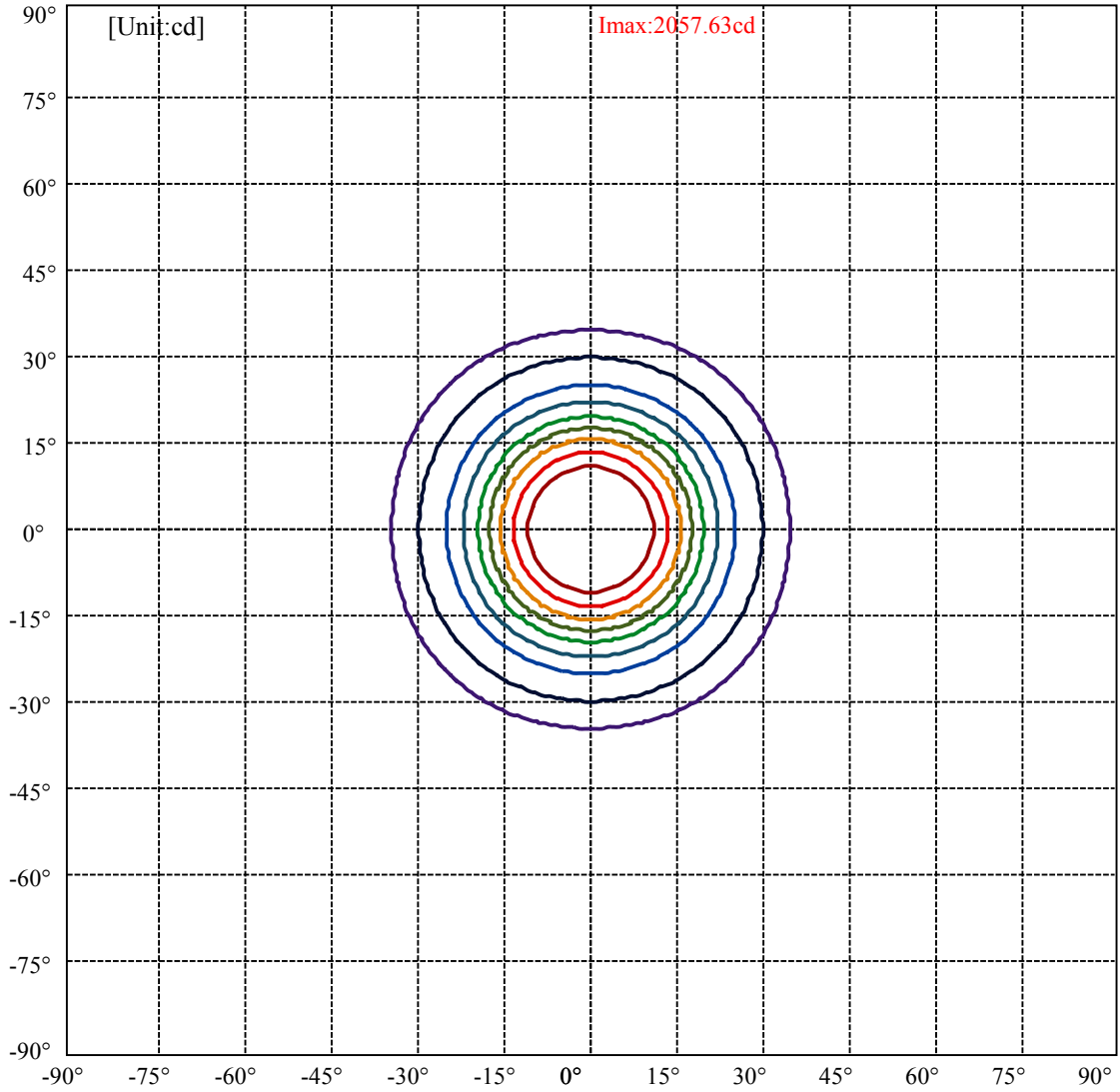
Field angle(10%Imax):C0/180Left:34.2 Right:34.2

:C90/270Left:34.2 Right:34.2

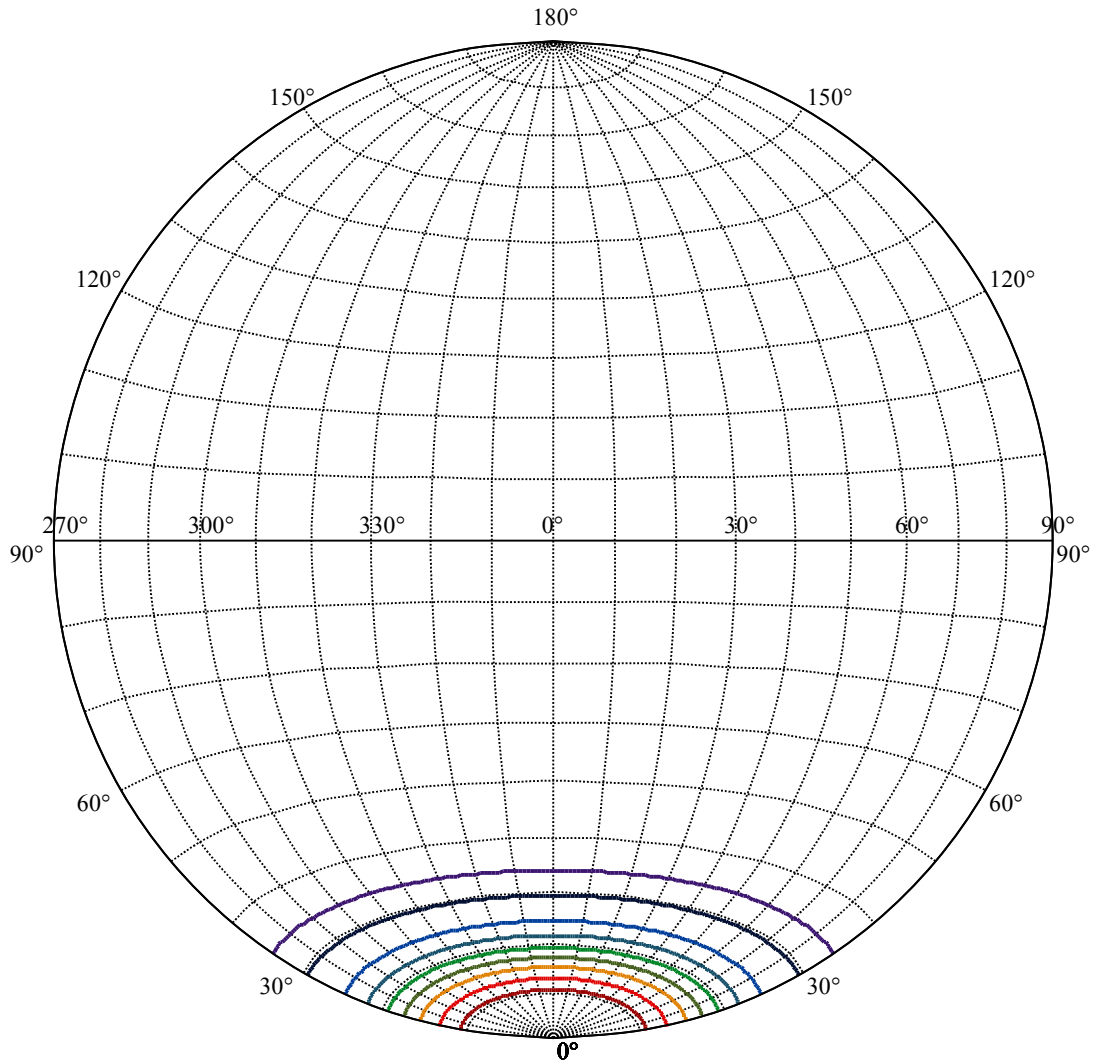
Beam Angle(50%Imax):C0/180Left:19.3 Right:19.3

:C90/270Left:19.3 Right:19.3





(10%Imax) 205.762	—
(20%Imax) 411.525	—
(30%Imax) 617.287	—
(40%Imax) 823.05	—
(50%Imax) 1028.81	—
(60%Imax) 1234.57	—
(70%Imax) 1440.34	—
(80%Imax) 1646.1	—
(90%Imax) 1851.86	—



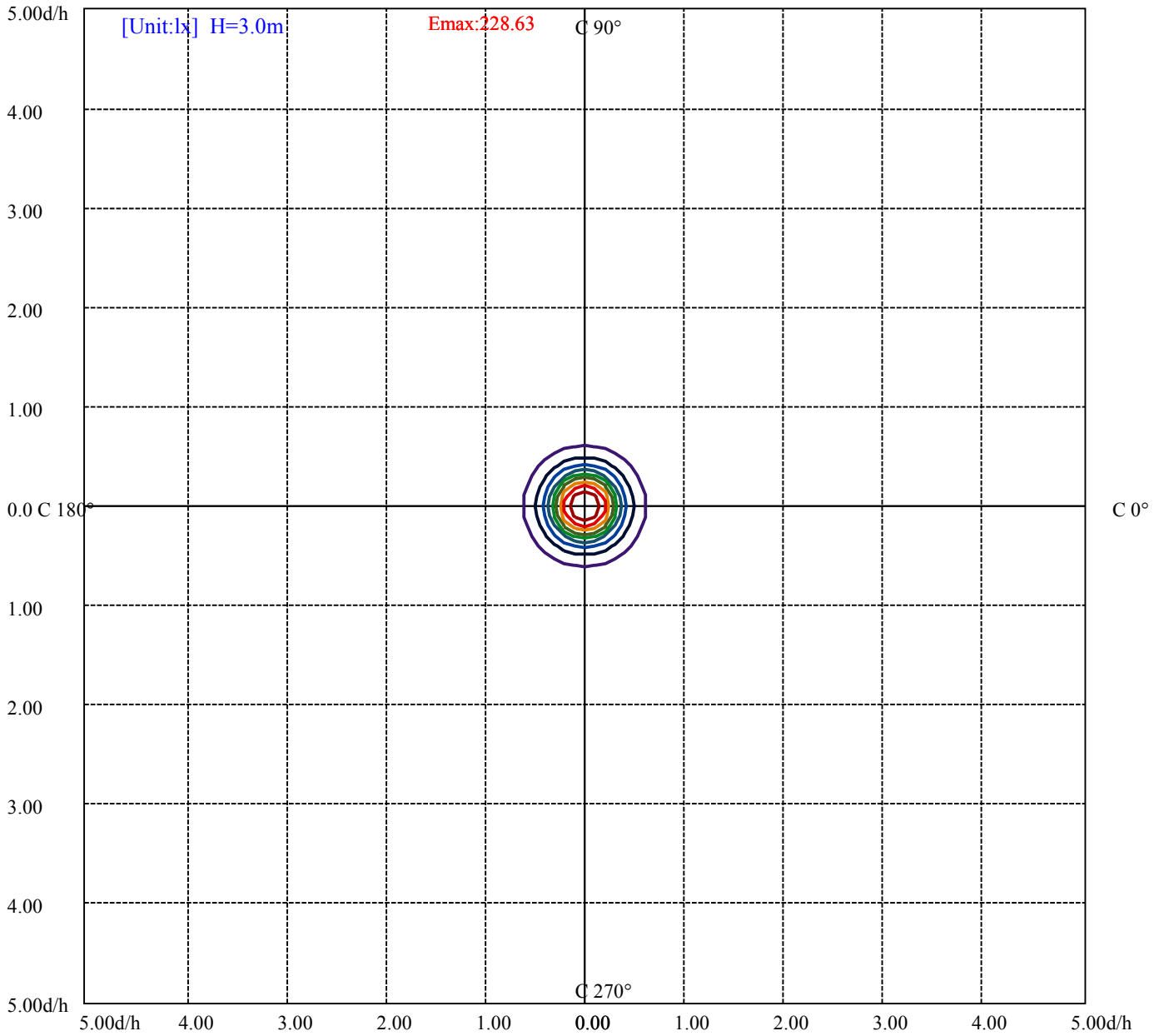
House

[Unit:cd]

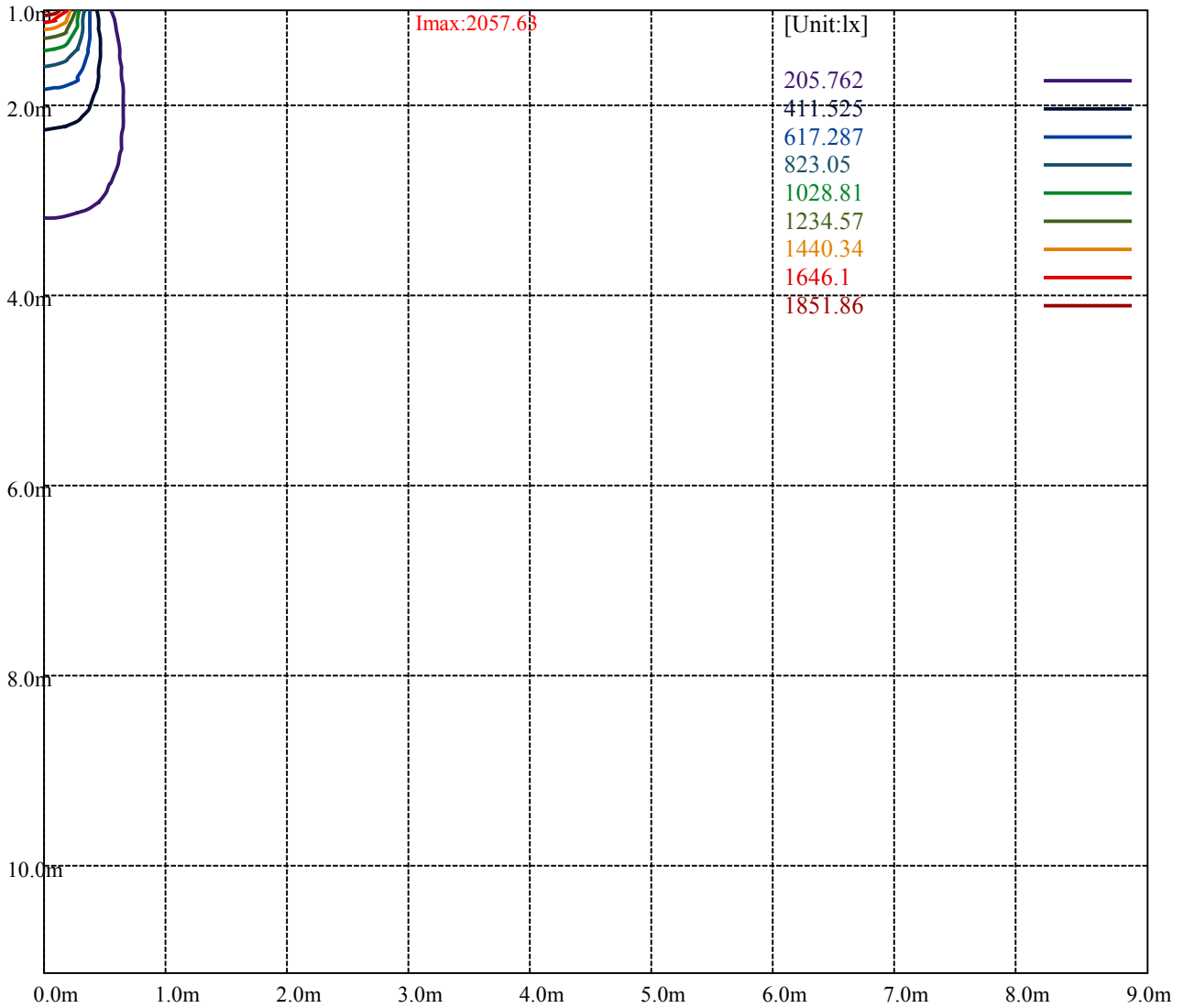
Road

Imax:2057.63

(10%Imax) 205.762	—
(20%Imax) 411.525	—
(30%Imax) 617.287	—
(40%Imax) 823.05	—
(50%Imax) 1028.81	—
(60%Imax) 1234.57	—
(70%Imax) 1440.34	—
(80%Imax) 1646.1	—
(90%Imax) 1851.86	—



- (10%Emax) 22.86244
- (20%Emax) 45.725
- (30%Emax) 68.58744
- (40%Emax) 91.45
- (50%Emax) 114.3122
- (60%Emax) 137.1744
- (70%Emax) 160.0378
- (80%Emax) 182.9
- (90%Emax) 205.7622



Luminance Table

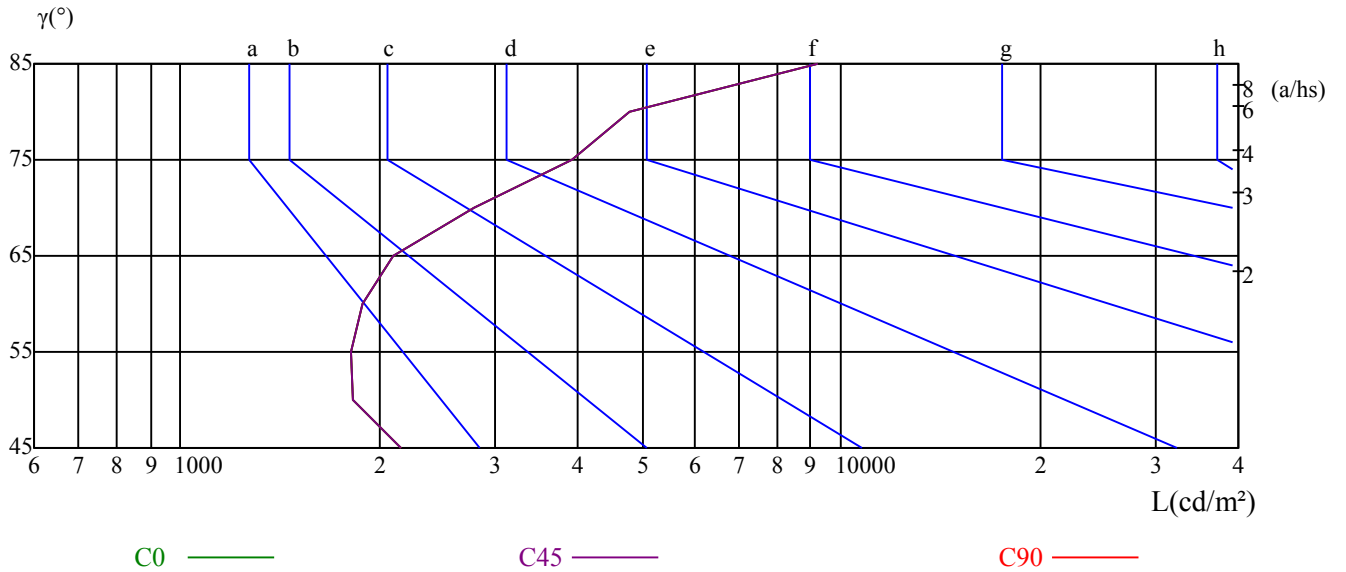
γ	45	50	55	60	65	70	75	80	85
C0	2154	1829	1815	1891	2103	2774	3903	4772	9203
C45	2154	1829	1815	1891	2103	2774	3903	4772	9203
C90	2154	1829	1815	1891	2103	2774	3903	4772	9203

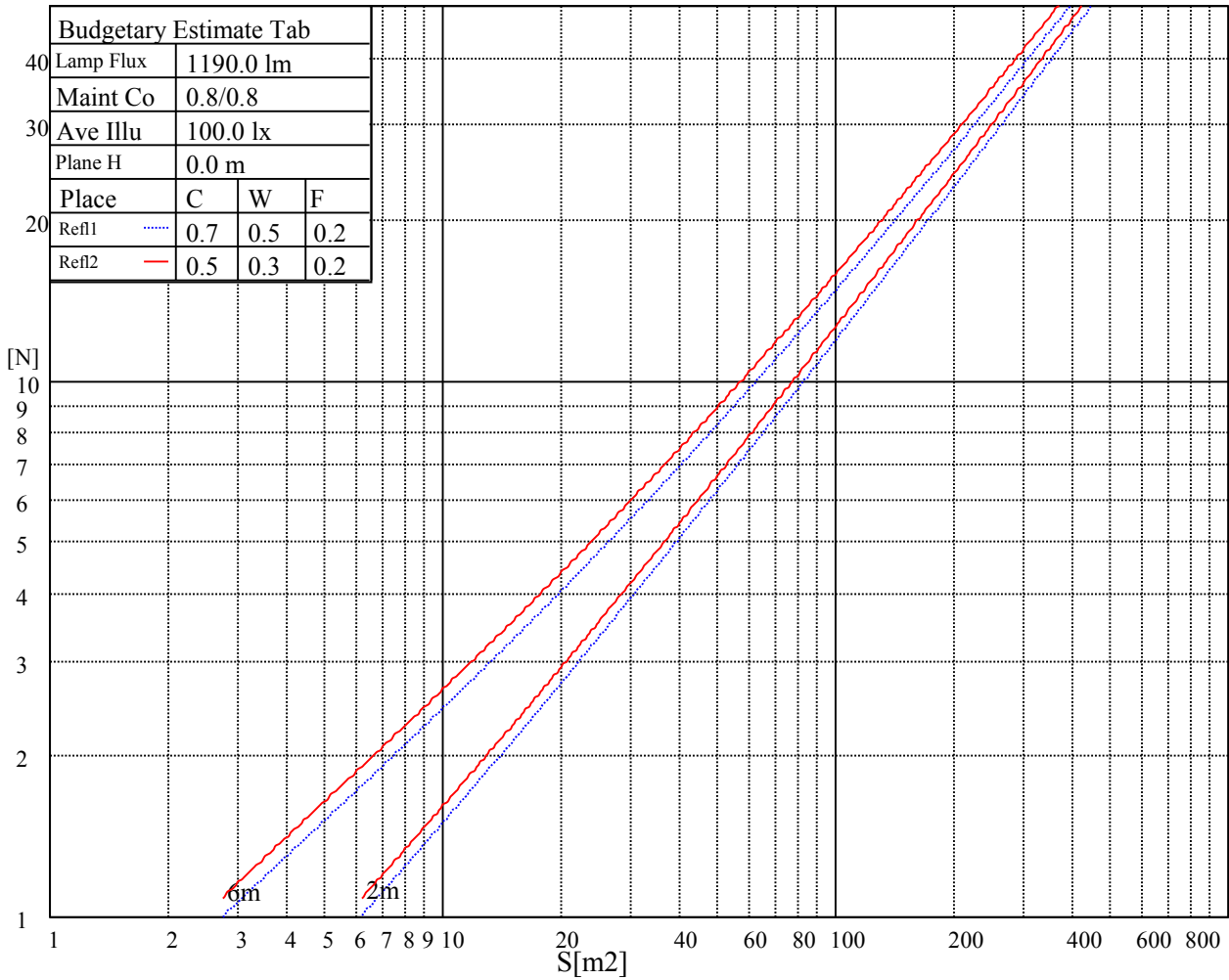
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2103	2103	2103	3903	3903	3903	9203	9203	9203

Glare Table

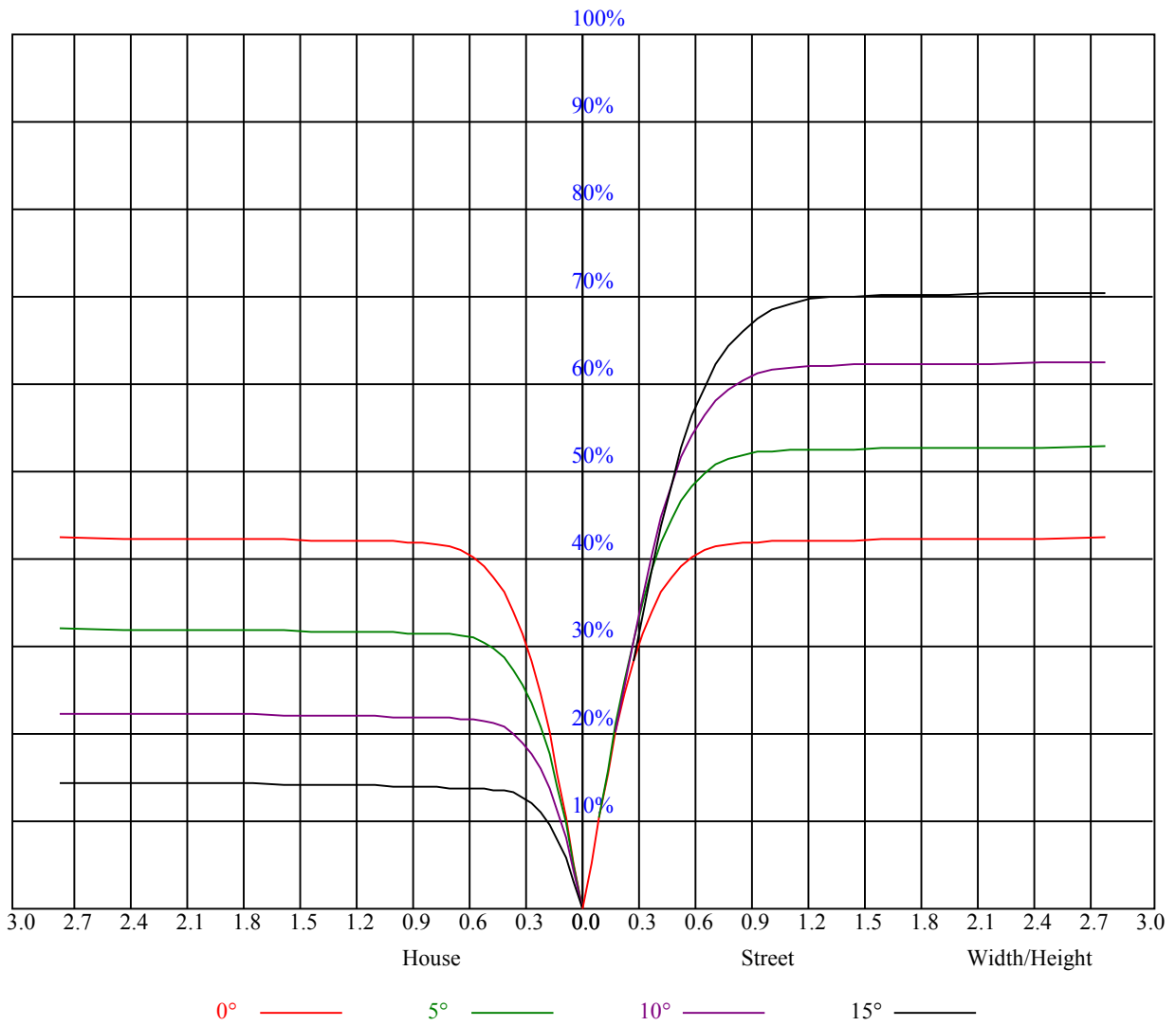
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

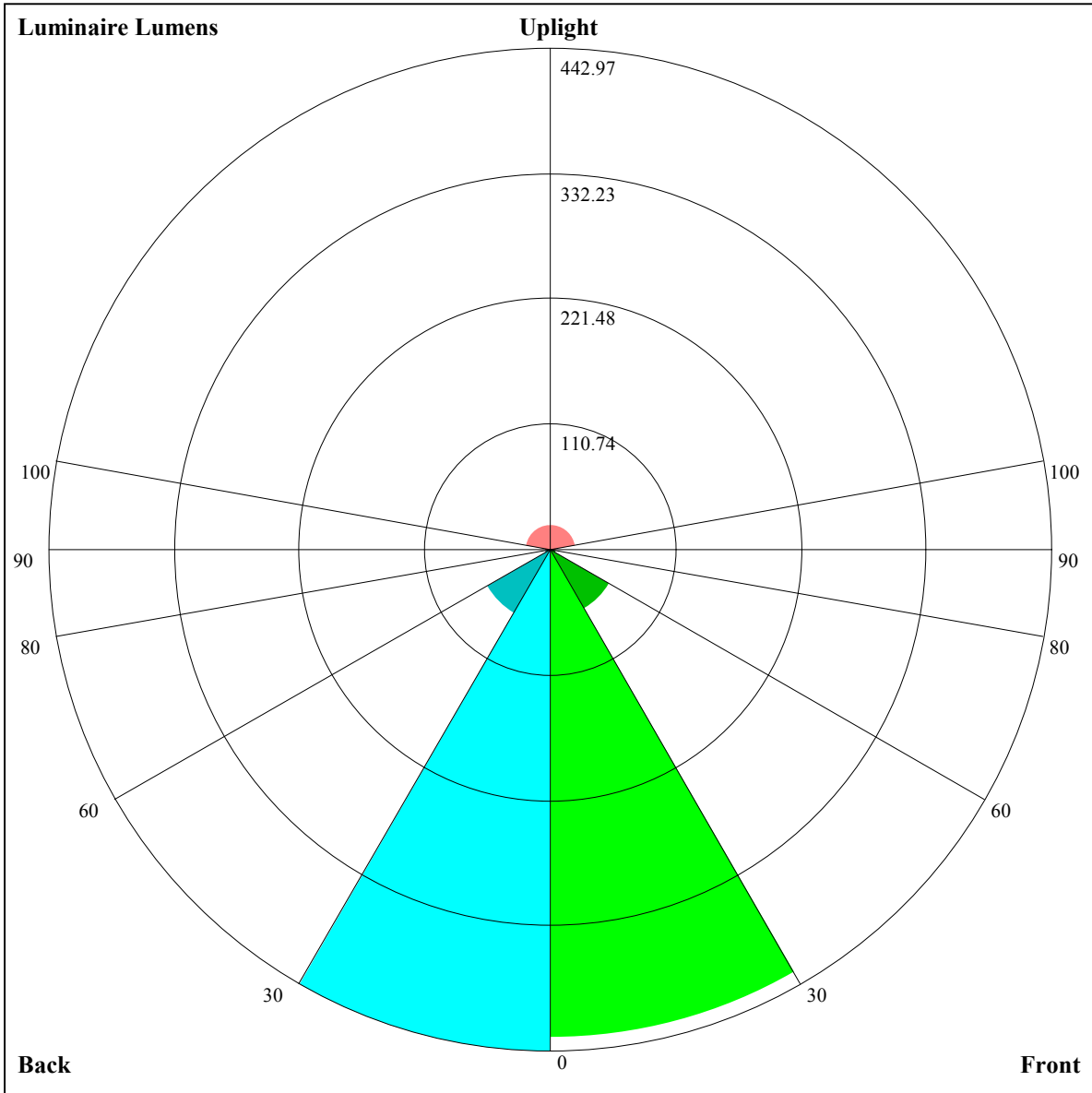
Luminance Limiting Curve





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	1.03	1.03	1.03	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.96	0.94	0.92	0.94	0.92	0.91	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.84	0.83	0.81
2	0.90	0.87	0.84	0.89	0.86	0.83	0.86	0.84	0.82	0.83	0.82	0.80	0.81	0.80	0.78	0.77
3	0.85	0.81	0.78	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.77	0.75	0.78	0.76	0.74	0.73
4	0.81	0.77	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.74	0.71	0.75	0.72	0.70	0.69
5	0.77	0.72	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
6	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.63
7	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.60
8	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.58	0.57
9	0.64	0.59	0.56	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55
10	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.60	0.56	0.54	0.59	0.56	0.53	0.53





Luminaire Lumens:

FL=430.75,FM=60.15,FH=5.45,FVH=2.57

BL=442.97,BM=65.58,BH=6.15,BVH=2.66

UL=4.83,UH=23

BUG Rating:B1-U2-G0

Nata 3-1940-M

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	2061.00	2043.56	1937.81	1532.81	909.56	562.50	376.31	145.24	13.50
45.0	2050.31	2087.44	2046.94	1643.63	1037.25	639.56	438.75	229.89	26.49
90.0	2071.13	2095.88	2003.63	1592.44	994.16	615.77	435.43	186.53	19.69
135.0	2048.06	2061.00	1978.88	1664.44	1146.94	684.56	456.19	293.63	41.74
180.0	2061.00	1980.56	1887.19	1527.75	969.19	613.41	414.00	163.35	17.83
225.0	2050.31	1940.06	1810.69	1407.94	880.26	558.68	348.64	111.15	12.09
270.0	2071.13	1976.63	1848.94	1447.31	899.44	563.06	357.19	122.18	13.56
315.0	2048.06	2004.75	1815.75	1106.38	801.45	496.86	302.06	93.66	11.87
360.0	2061.00	2043.56	1937.81	1532.81	909.56	562.50	376.31	145.24	13.50
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	8.83	7.03	6.24	5.63	5.29	5.06	5.51	4.84	4.73
45.0	10.01	7.31	6.41	5.85	5.40	5.18	5.06	5.06	4.84
90.0	9.79	7.26	6.36	5.74	5.29	5.06	5.12	4.84	4.73
135.0	10.35	7.43	6.53	5.85	5.40	5.12	4.95	4.89	4.84
180.0	9.51	7.26	6.53	5.96	5.68	6.24	7.88	5.57	5.18
225.0	8.61	7.14	6.41	5.96	5.79	8.10	9.28	5.57	5.12
270.0	8.94	7.03	6.24	5.63	5.34	6.58	6.64	4.89	4.95
315.0	8.10	6.75	5.96	5.40	5.06	4.84	4.73	4.67	4.67
360.0	8.83	7.03	6.24	5.63	5.29	5.06	5.51	4.84	4.73
C/ γ (°)	90.0								
0.0	4.39								
45.0	4.44								
90.0	4.44								
135.0	4.44								
180.0	4.39								
225.0	4.44								
270.0	4.44								
315.0	4.44								
360.0	4.39								