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Nata

Client:

LumCAT: 3-1945-M

Luminaire:

Report No:

Voltage(V): 32.9400

Test No: GC2019081302

Current(A): 0.2970

LampCAT: TRIDONIC SLE G7 17MM

Power (W): 9.7800

Lamp flux(lm): 1190.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 86

Width(mm): 86

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1034.41, Efficiency(%): 86.93% , Luminous Efficacy(lm/W): 105.77

Central intensity(cd): 1390.219, Maximum intensity(cd): 1390.219

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=55.0

[C90/270]Total=55.0

Field angle(10%Imax): [C0/180]Total=74.8

[C90/270]Total=74.8

Maximum s/h(1/2): C0_180=0.87 C90_270=0.87

Maximum s/h(1/4): C0_180=0.82 C90_270=0.82

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 86.93%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.108%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2019/8/13
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

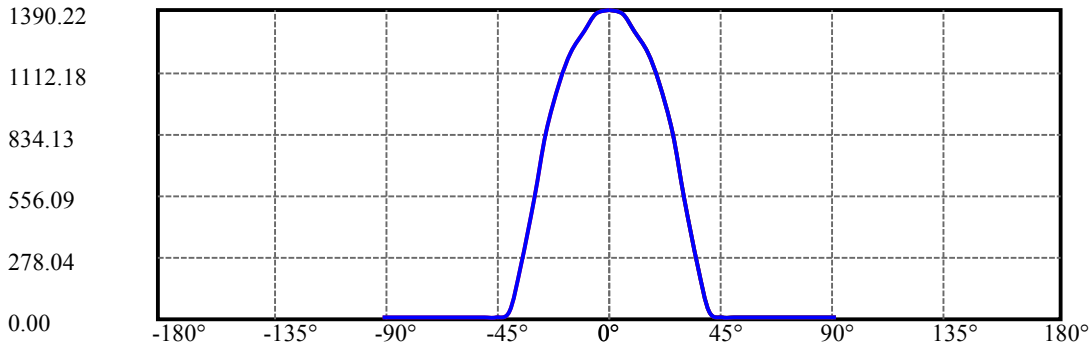
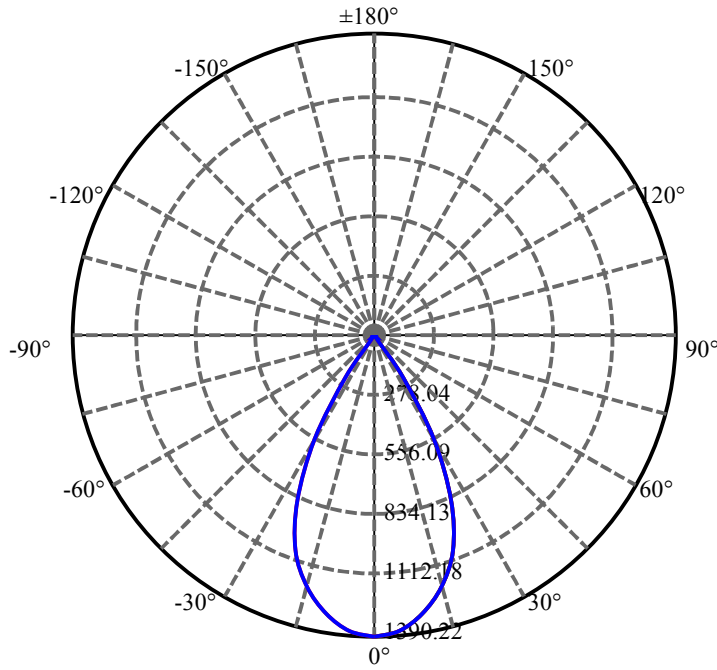
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1390.219	0.000	0	.000%	.000%
5.0	1371.023	33.010	33.01	2.774%	3.191%
10.0	1299.516	95.534	128.543	8.028%	12.427%
15.0	1198.167	148.161	276.704	12.450%	26.750%
20.0	1058.597	185.989	462.693	15.629%	44.730%
25.0	838.955	199.018	661.712	16.724%	63.970%
30.0	547.847	175.501	837.212	14.748%	80.936%
35.0	238.064	115.731	952.943	9.725%	92.124%
40.0	32.379	45.121	998.065	3.792%	96.486%
45.0	9.893	7.827	1005.892	.658%	97.243%
50.0	6.912	3.396	1009.287	.285%	97.571%
55.0	6.096	2.828	1012.116	.238%	97.845%
60.0	5.702	2.727	1014.843	.229%	98.108%
65.0	6.026	2.851	1017.694	.240%	98.384%
70.0	8.585	3.700	1021.394	.311%	98.742%
75.0	7.671	4.249	1025.643	.357%	99.152%
80.0	5.140	3.428	1029.07	.288%	99.484%
85.0	4.971	2.747	1031.818	.231%	99.749%
90.0	4.500	2.593	1034.411	.218%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	837.21	70.35%	80.94%
0-40	998.06	83.87%	96.49%
0-60	1014.84	85.28%	98.11%
0-90	1031.82	86.71%	99.75%
0-120	1031.82	86.71%	99.75%
0-180	1034.41	86.93%	100.00%
60-90	19.70	1.66%	1.90%
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%
0-29.72	827.53	69.54%	80.00%

ZONAL LUMEN SUMMARY

0-10	128.54
10-20	334.15
20-30	374.52
30-40	160.85
40-50	11.22
50-60	5.56
60-70	6.55
70-80	7.68
80-90	2.75
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: —————

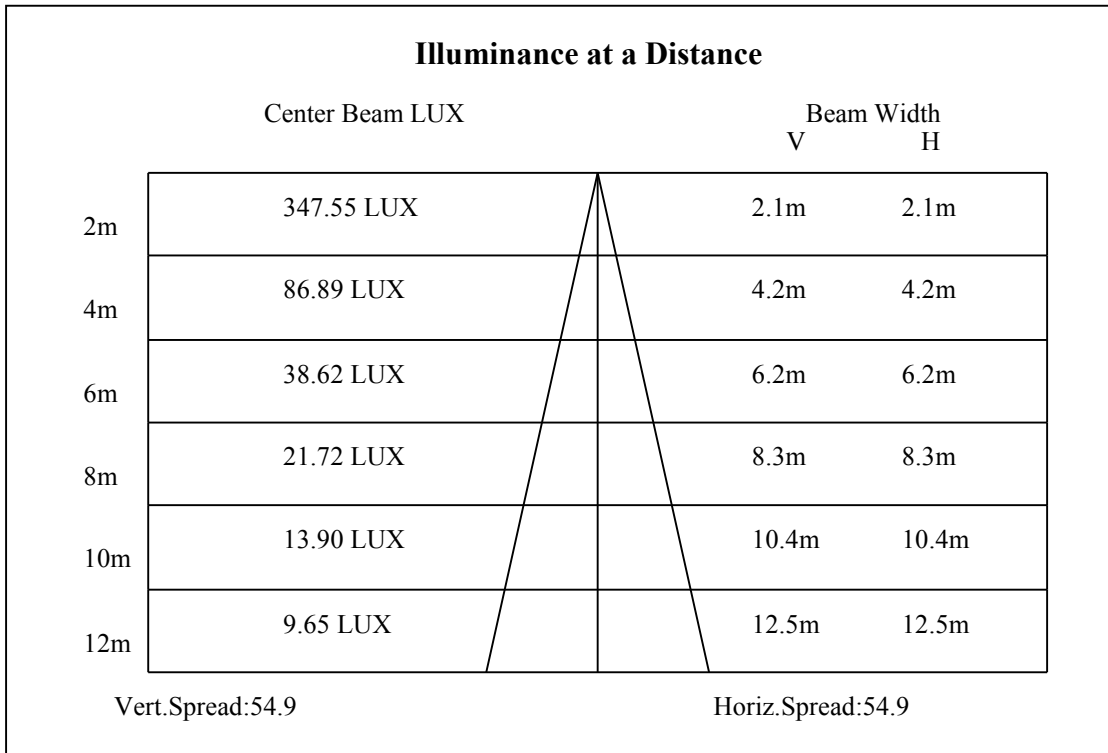
C90/C270: —————

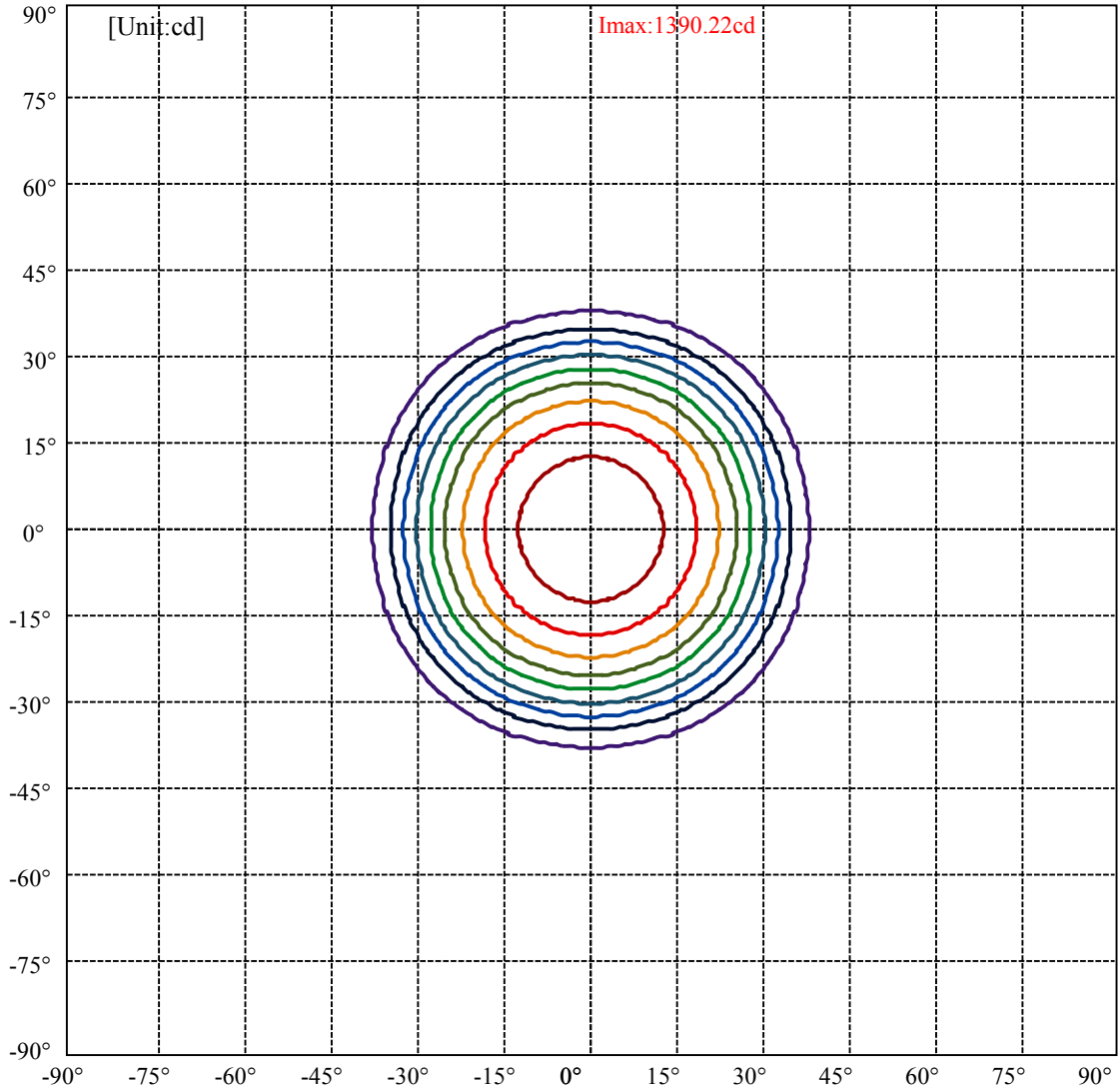
Field angle(10%Imax):C0/180Left:37.4 Right:37.4

:C90/270Left:37.4 Right:37.4

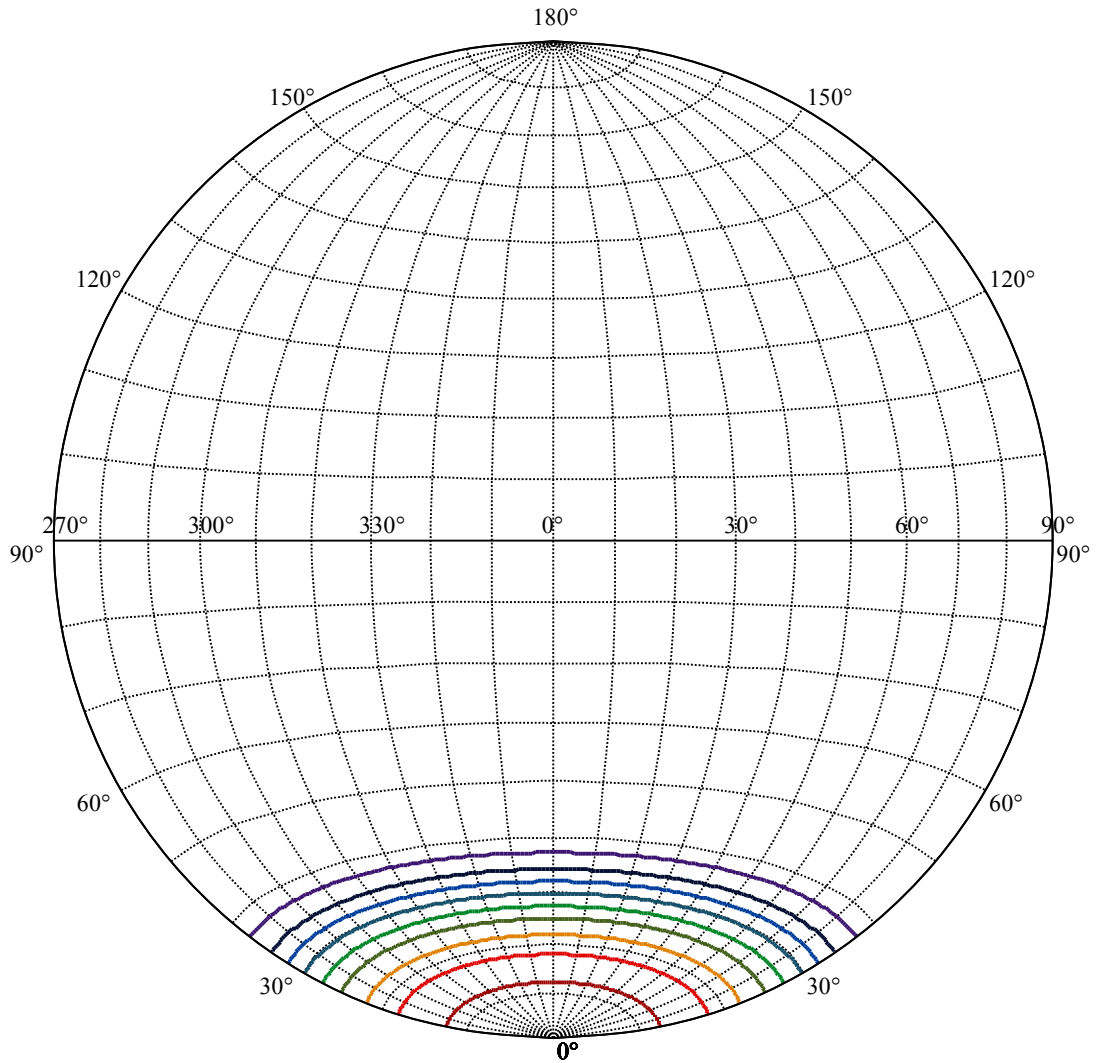
Beam Angle(50%Imax):C0/180Left:27.5 Right:27.5

:C90/270Left:27.5 Right:27.5





(10%Imax) 139.022	—
(20%Imax) 278.044	—
(30%Imax) 417.066	—
(40%Imax) 556.088	—
(50%Imax) 695.109	—
(60%Imax) 834.131	—
(70%Imax) 973.153	—
(80%Imax) 1112.18	—
(90%Imax) 1251.2	—



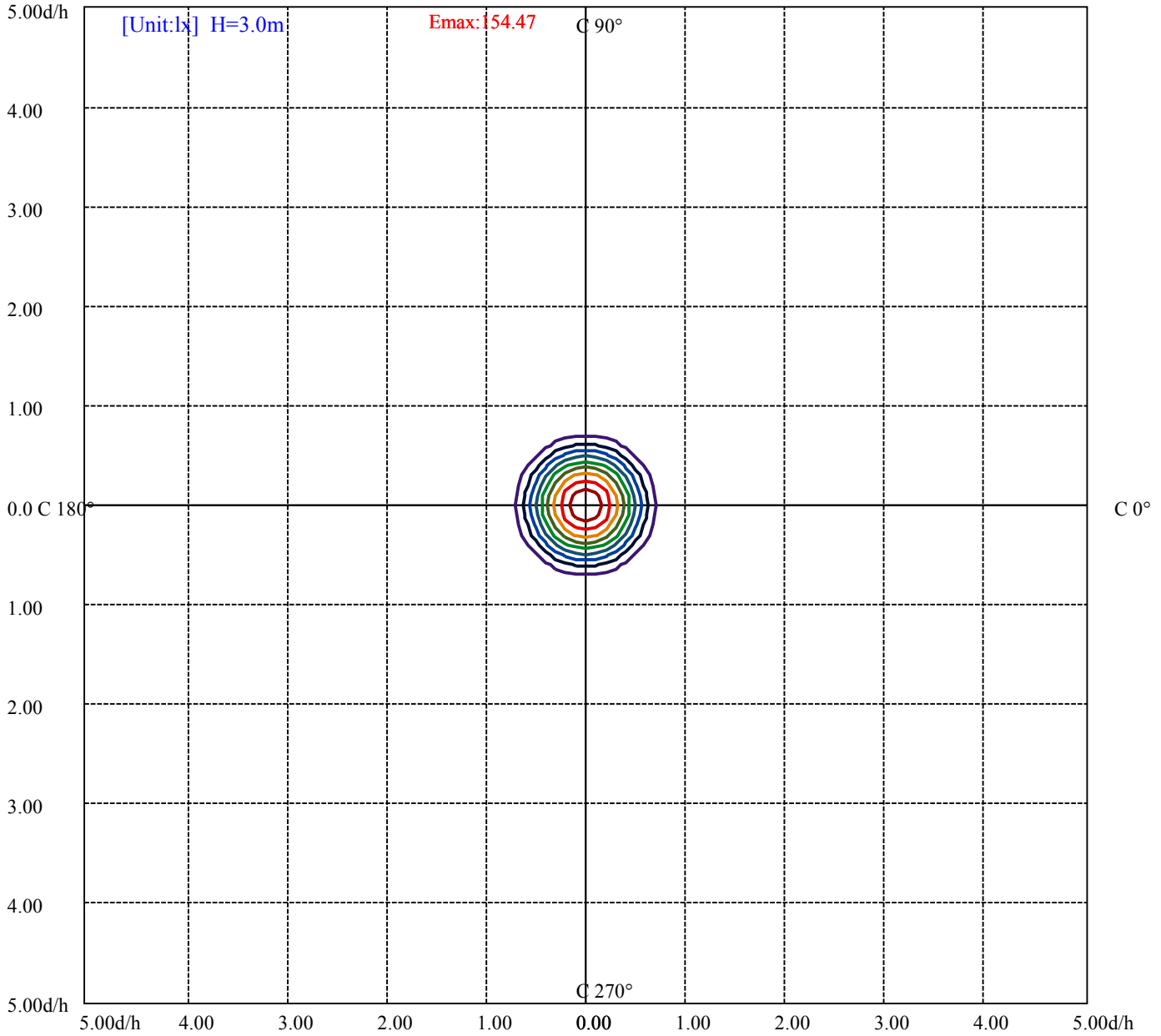
House

[Unit:cd]

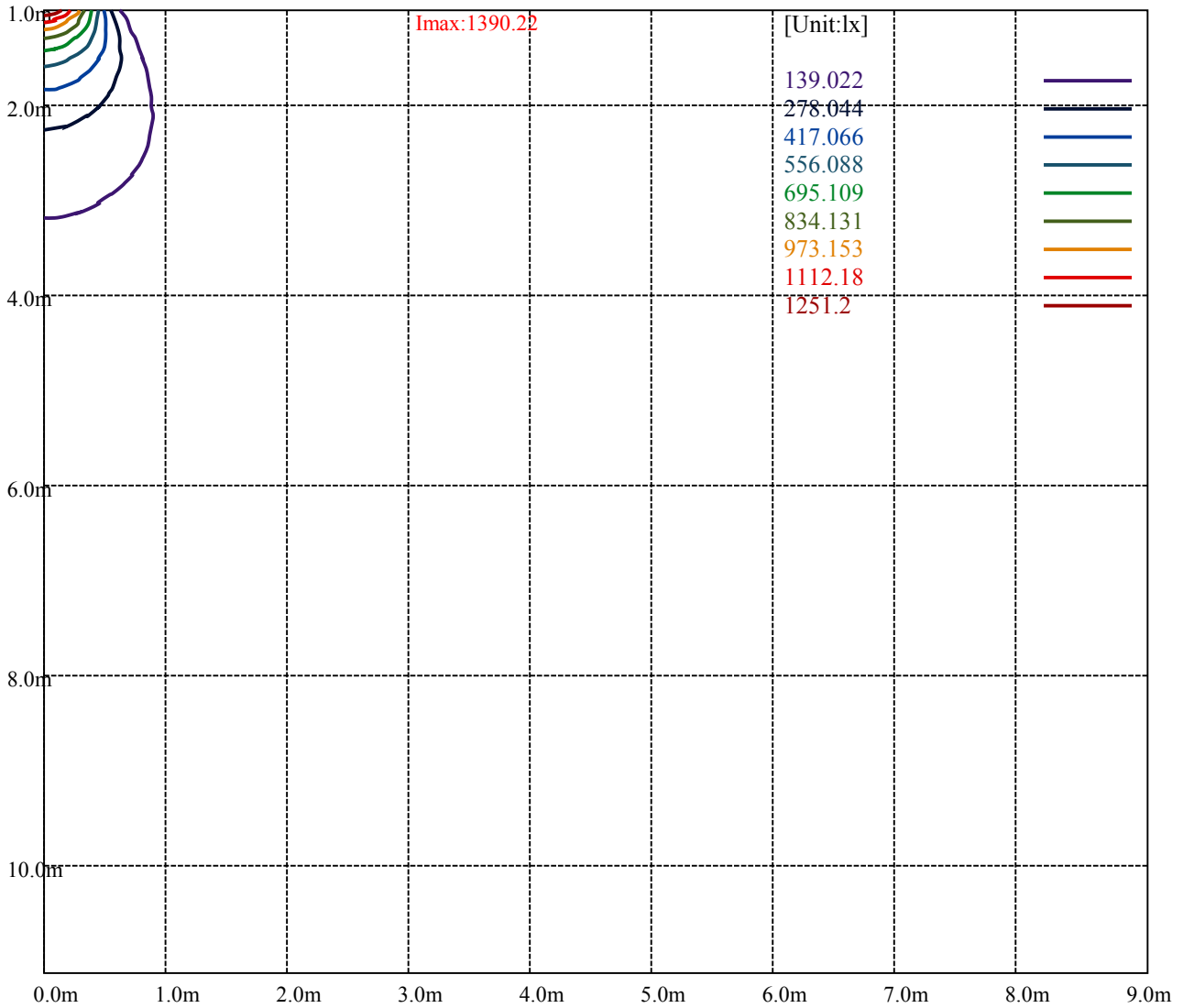
Road

I_{max}:1390.22

(10%I _{max}) 139.022	—
(20%I _{max}) 278.044	—
(30%I _{max}) 417.066	—
(40%I _{max}) 556.088	—
(50%I _{max}) 695.109	—
(60%I _{max}) 834.131	—
(70%I _{max}) 973.153	—
(80%I _{max}) 1112.18	—
(90%I _{max}) 1251.2	—



(10%Emax) 15.44689	—
(20%Emax) 30.89378	—
(30%Emax) 46.34056	—
(40%Emax) 61.78744	—
(50%Emax) 77.23434	—
(60%Emax) 92.68122	—
(70%Emax) 108.1281	—
(80%Emax) 123.5744	—
(90%Emax) 139.0222	—



Luminance Table

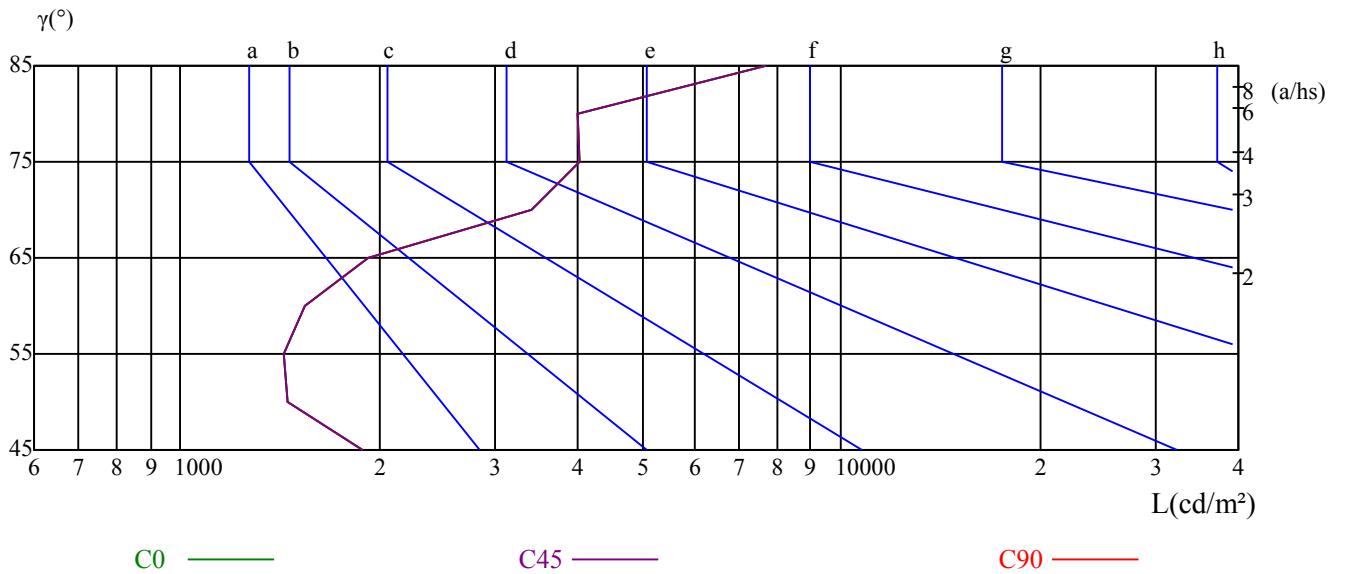
γ	45	50	55	60	65	70	75	80	85
C0	1892	1454	1437	1542	1928	3394	4007	4002	7712
C45	1892	1454	1437	1542	1928	3394	4007	4002	7712
C90	1892	1454	1437	1542	1928	3394	4007	4002	7712

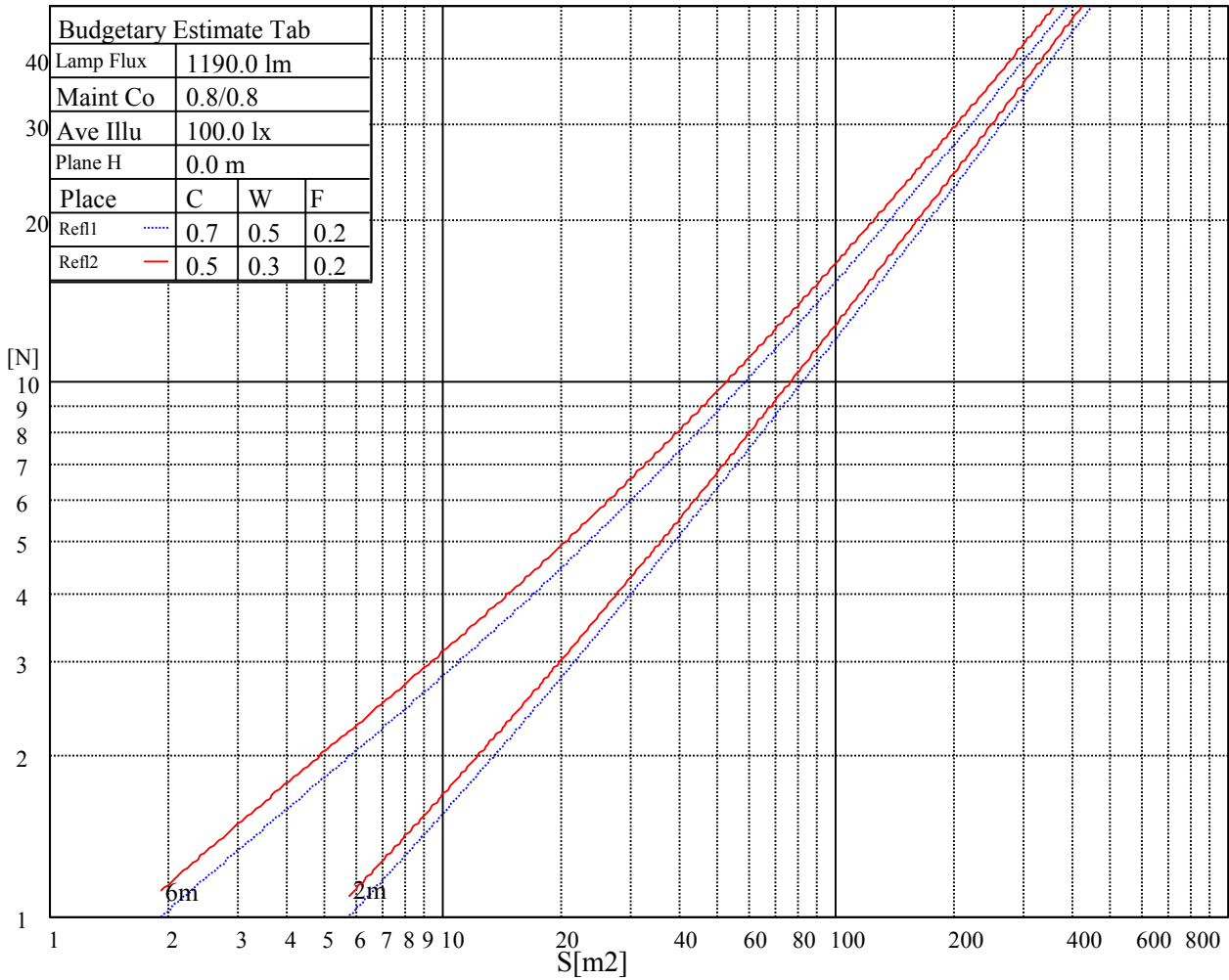
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1928	1928	1928	4007	4007	4007	7712	7712	7712

Glare Table

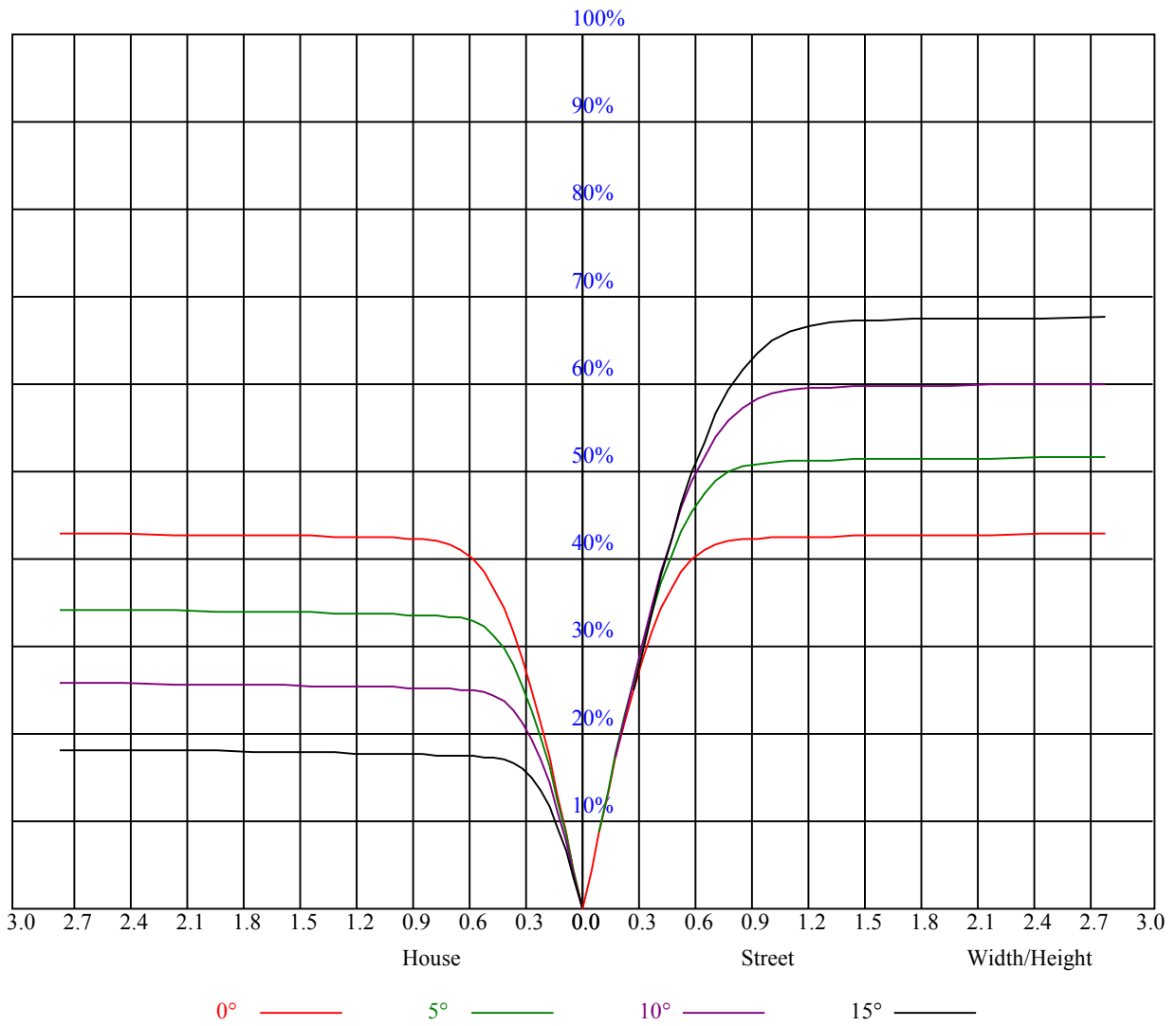
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

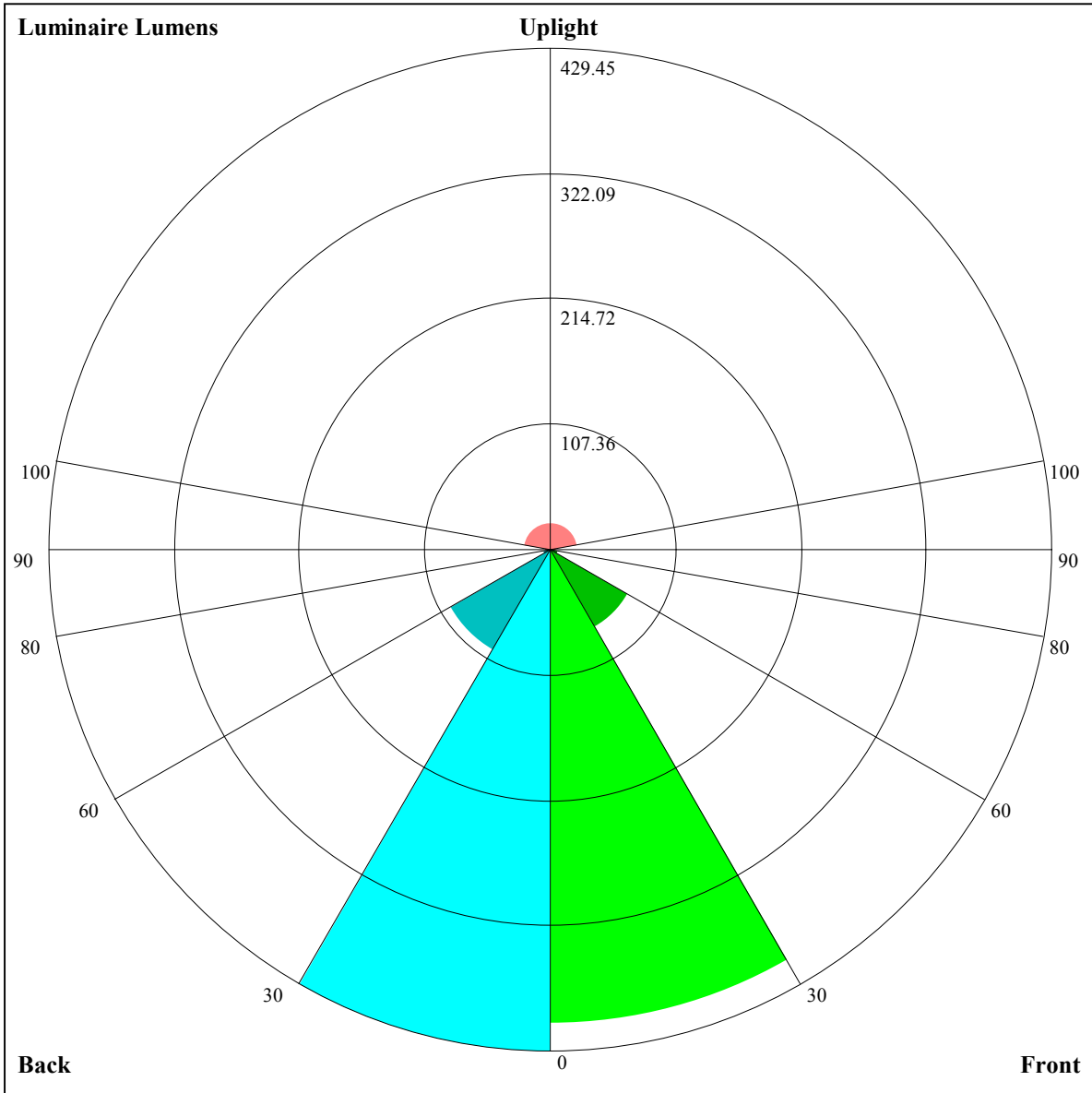
Luminance Limiting Curve





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	1.01	1.01	1.01	0.97	0.97	0.97	0.92	0.92	0.92	0.89	0.89	0.89	0.87
1	0.96	0.94	0.92	0.94	0.93	0.91	0.91	0.89	0.88	0.88	0.86	0.85	0.85	0.84	0.83	0.81
2	0.90	0.87	0.84	0.89	0.85	0.83	0.86	0.83	0.81	0.83	0.81	0.79	0.81	0.79	0.78	0.76
3	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.72
4	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.68	0.67
5	0.75	0.70	0.67	0.74	0.70	0.66	0.73	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.63
6	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.66	0.63	0.61	0.60
7	0.67	0.62	0.59	0.66	0.62	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.56
8	0.63	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.54	0.53
9	0.60	0.55	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.58	0.54	0.52	0.50
10	0.57	0.53	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.56	0.52	0.49	0.55	0.51	0.49	0.48





Luminaire Lumens:

FL=405.45,FM=76.88,FH=7.04,FVH=2.67

BL=429.45,BM=98.94,BH=6.96,BVH=2.65

UL=4.91,UH=23.36

BUG Rating:B1-U2-G0

Nata 3-1945-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	1387.69	1353.94	1272.94	1163.25	1008.00	763.88	457.88	138.04	15.64
45.0	1392.75	1364.63	1287.56	1189.13	1047.94	827.44	514.13	287.44	21.49
90.0	1391.63	1366.88	1294.88	1195.31	1057.73	830.31	529.76	203.12	23.29
135.0	1388.81	1388.25	1337.63	1259.44	1122.19	922.50	659.81	329.63	64.74
180.0	1387.69	1386.00	1330.31	1234.13	1084.78	890.38	633.94	297.79	61.03
225.0	1392.75	1380.38	1307.81	1218.38	1073.14	860.46	596.53	247.22	30.09
270.0	1391.63	1378.69	1301.63	1207.69	1083.38	872.44	572.63	290.25	27.23
315.0	1388.81	1349.44	1263.38	1118.03	991.63	744.24	418.11	111.04	15.53
360.0	1387.69	1353.94	1272.94	1163.25	1008.00	763.88	457.88	138.04	15.64
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	7.59	6.13	5.68	5.51	5.57	5.23	5.01	5.01	5.06
45.0	9.00	6.92	6.36	6.02	8.94	15.81	14.57	5.74	5.34
90.0	9.45	6.92	6.08	5.57	5.34	7.76	7.03	5.01	4.89
135.0	11.93	7.14	5.96	5.51	5.18	4.95	4.78	4.78	4.73
180.0	12.09	7.26	6.13	5.79	5.46	5.23	5.01	5.01	4.95
225.0	11.19	7.59	6.58	5.96	6.86	16.76	13.84	5.79	5.12
270.0	10.58	7.31	6.41	5.96	5.85	8.04	6.24	4.89	4.95
315.0	7.31	6.02	5.57	5.29	5.01	4.89	4.89	4.89	4.73
360.0	7.59	6.13	5.68	5.51	5.57	5.23	5.01	5.01	5.06
C/ γ (°)	90.0								
0.0	4.56								
45.0	4.50								
90.0	4.50								
135.0	4.44								
180.0	4.56								
225.0	4.56								
270.0	4.44								
315.0	4.44								
360.0	4.56								