NATA LIGHTING CO.,LTD
www.nata.cn
Email:info@nata.cn
Tel:+86 0750-377 0000(10 lines) Fax:+86 0750-377 1111
Address:380JinOu Road,Gaoxin Zone,Jiang Men City,Guangdong,China

Nata

Client: NT
LumCAT: 2-3118-LM
Luminaire: 92.70.121.00 LED HOLDER
Report No: 20260102-B003
Ballast type: DC

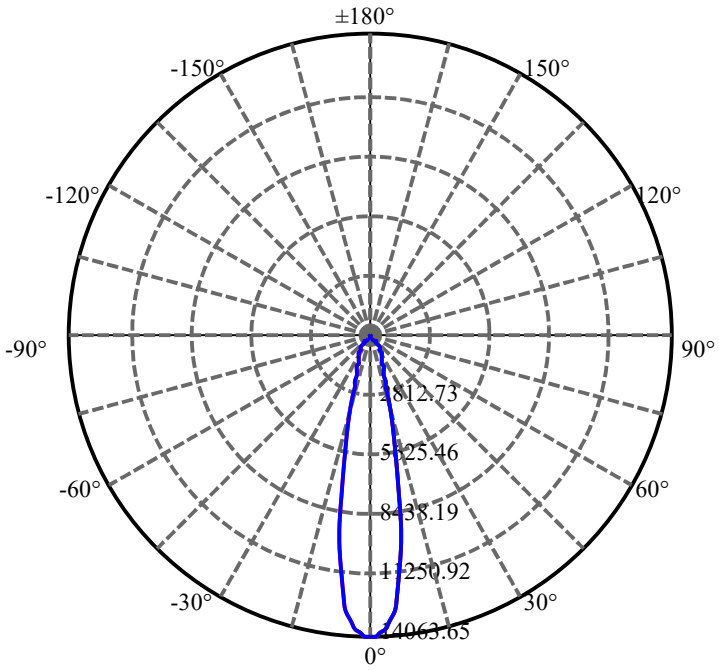
Test No: 20260102-C003	Voltage(V): 34.560
LampCAT: PHILIPS SLM1208	Current(A): 0.576
Lamp flux(lm): 3367.7	Power (W): 19.970
Number of Lamps: 1	PF: 0.000
Length(mm): 65	Width(mm): 65
Phm Type: C	Height(mm): 34

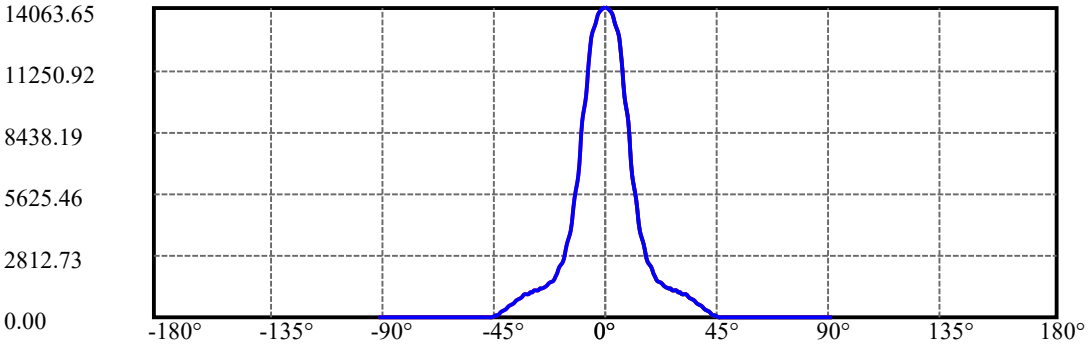
Photometric Results

Lumens(lm): 3263.72, Efficiency(%): 96.91% , Luminous Efficacy(lm/W): 163.43
Central intensity(cd): 14063.650, Maximum intensity(cd): 14063.650
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=21.0
[C90/270]Total=21.0
Field angle(10%Imax): [C0/180]Total=47.8
[C90/270]Total=47.8
Maximum s/h(1/2): C0_180=0.36 C90_270=0.36
Maximum s/h(1/4): C0_180=0.35 C90_270=0.35
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.91%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.290%

Equipment: GMS1980	Date: 2026/1/2	Operator: YZQ
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 9.28

Light Distribution Curve [Unit:cd]





C0(Max):

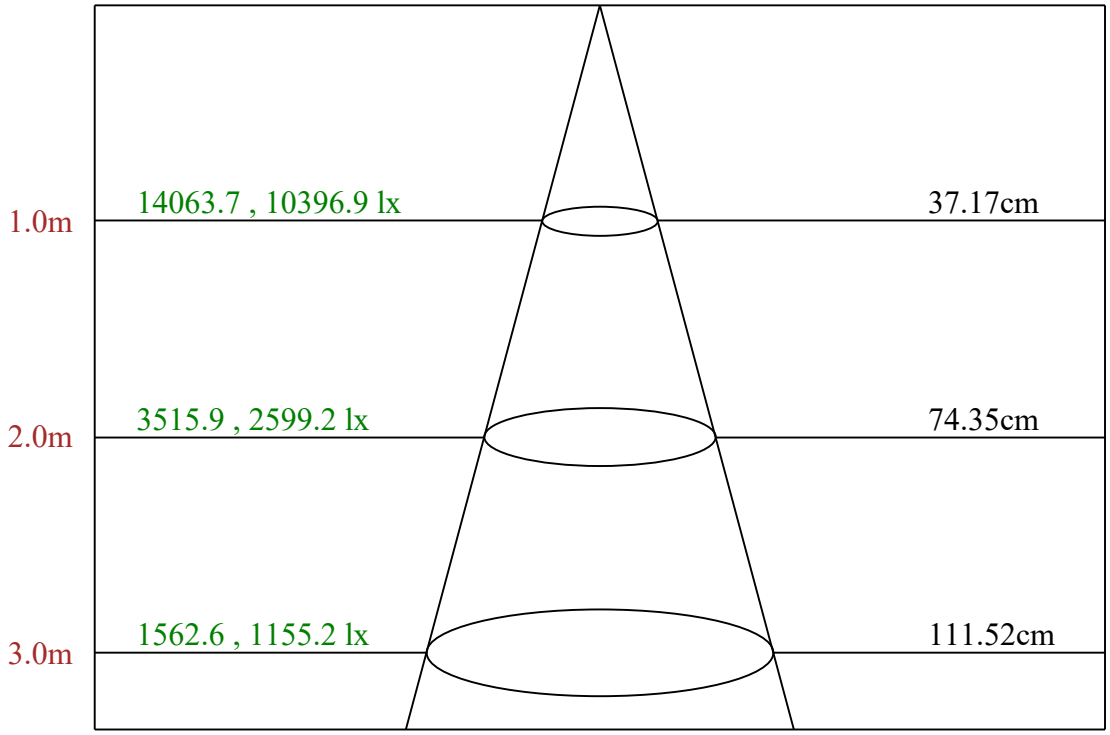
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:23.9 Right:23.9
:C90/270Left:23.9 Right:23.9

Beam Angle(50%Imax):C0/180Left:10.5 Right:10.5
:C90/270Left:10.5 Right:10.5

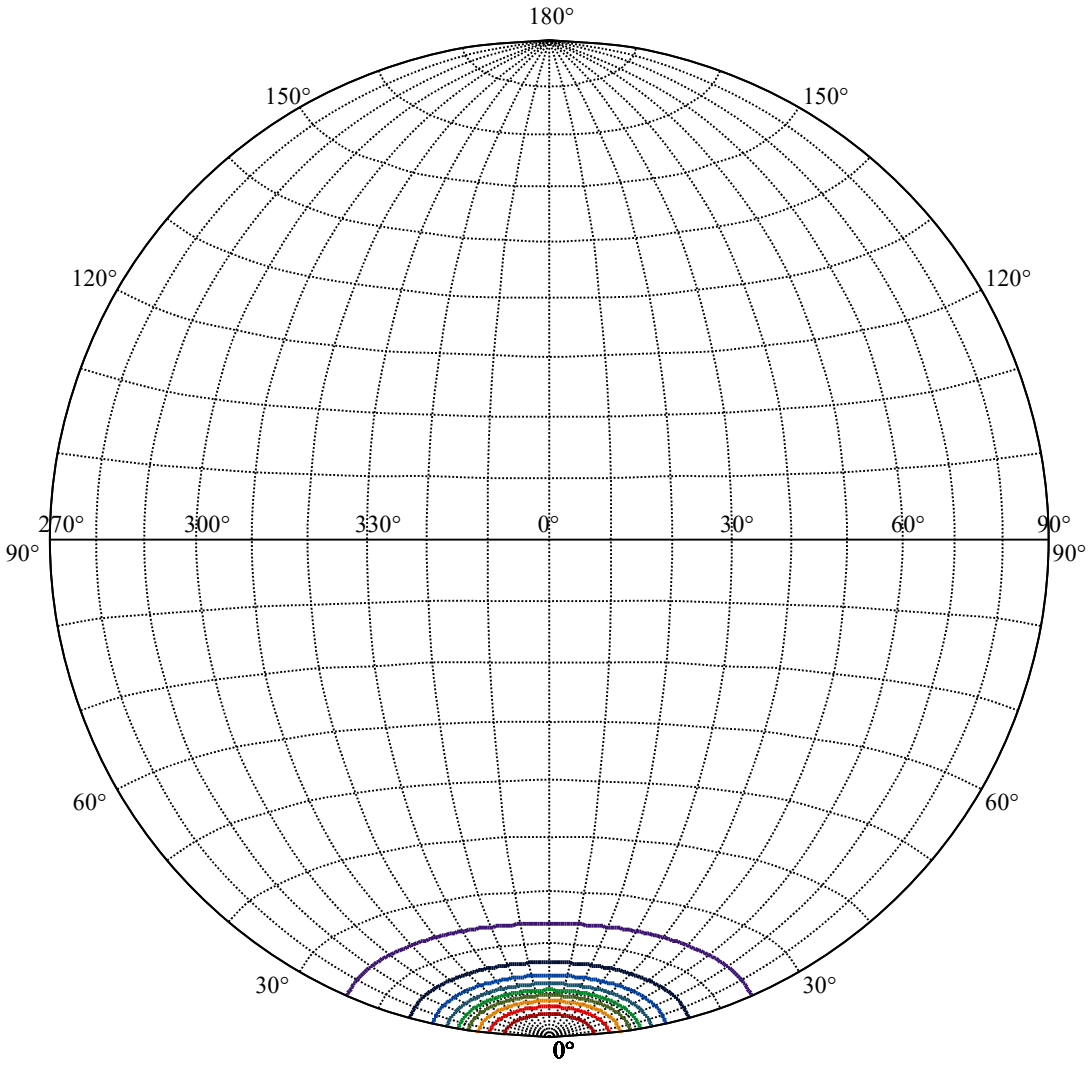
Lux distance Curve



Max , Ave

Beam angle of C0 plane 21.06

ISO candela diagram on circular web



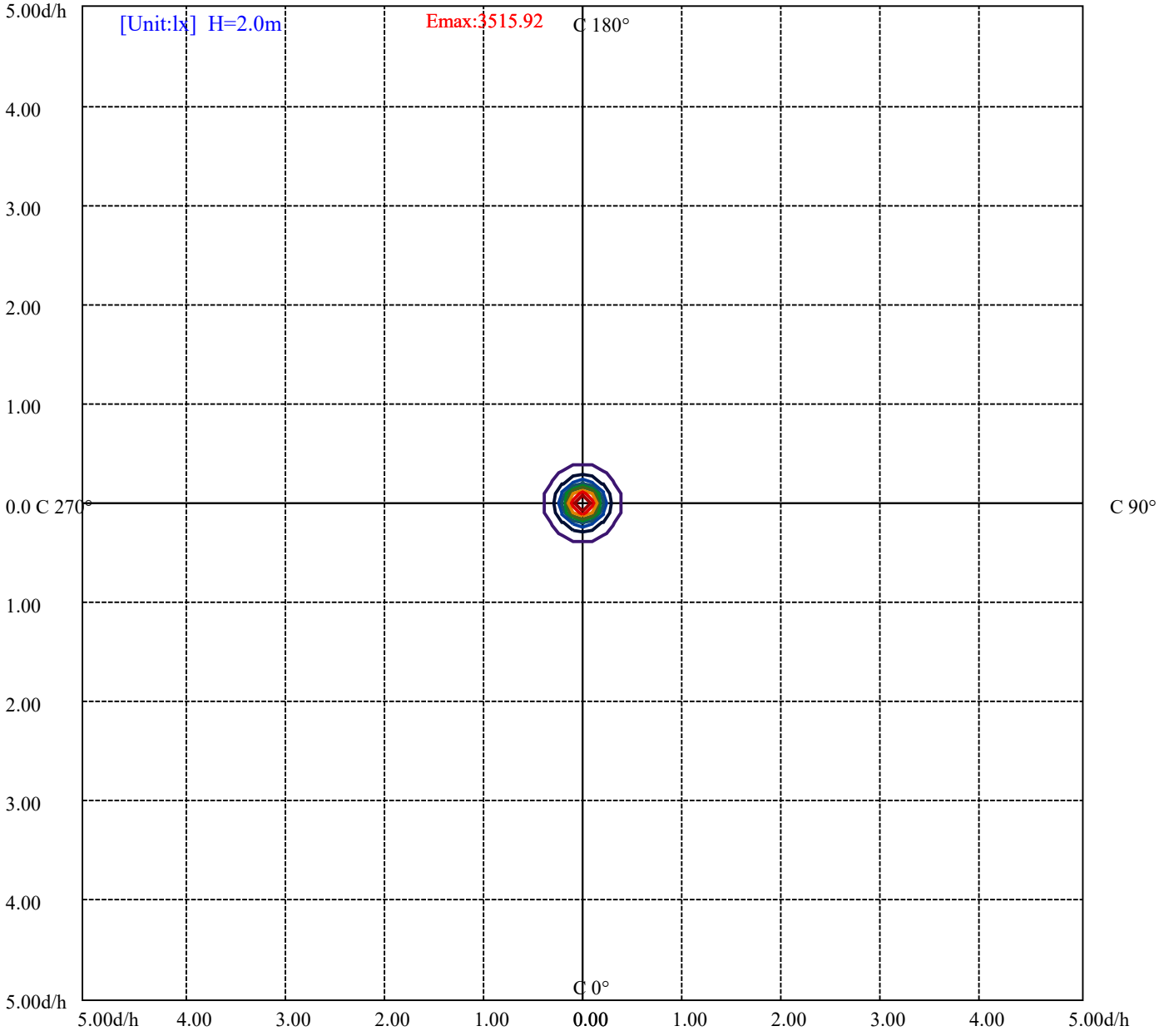
House [Unit:cd] Road

Imax:14063.65

(10%Imax) 1406.36
(20%Imax) 2812.73
(30%Imax) 4219.1
(40%Imax) 5625.46
(50%Imax) 7031.83
(60%Imax) 8438.19
(70%Imax) 9844.56
(80%Imax) 11250.9
(90%Imax) 12657.3

NT Nata 2-3118-LM

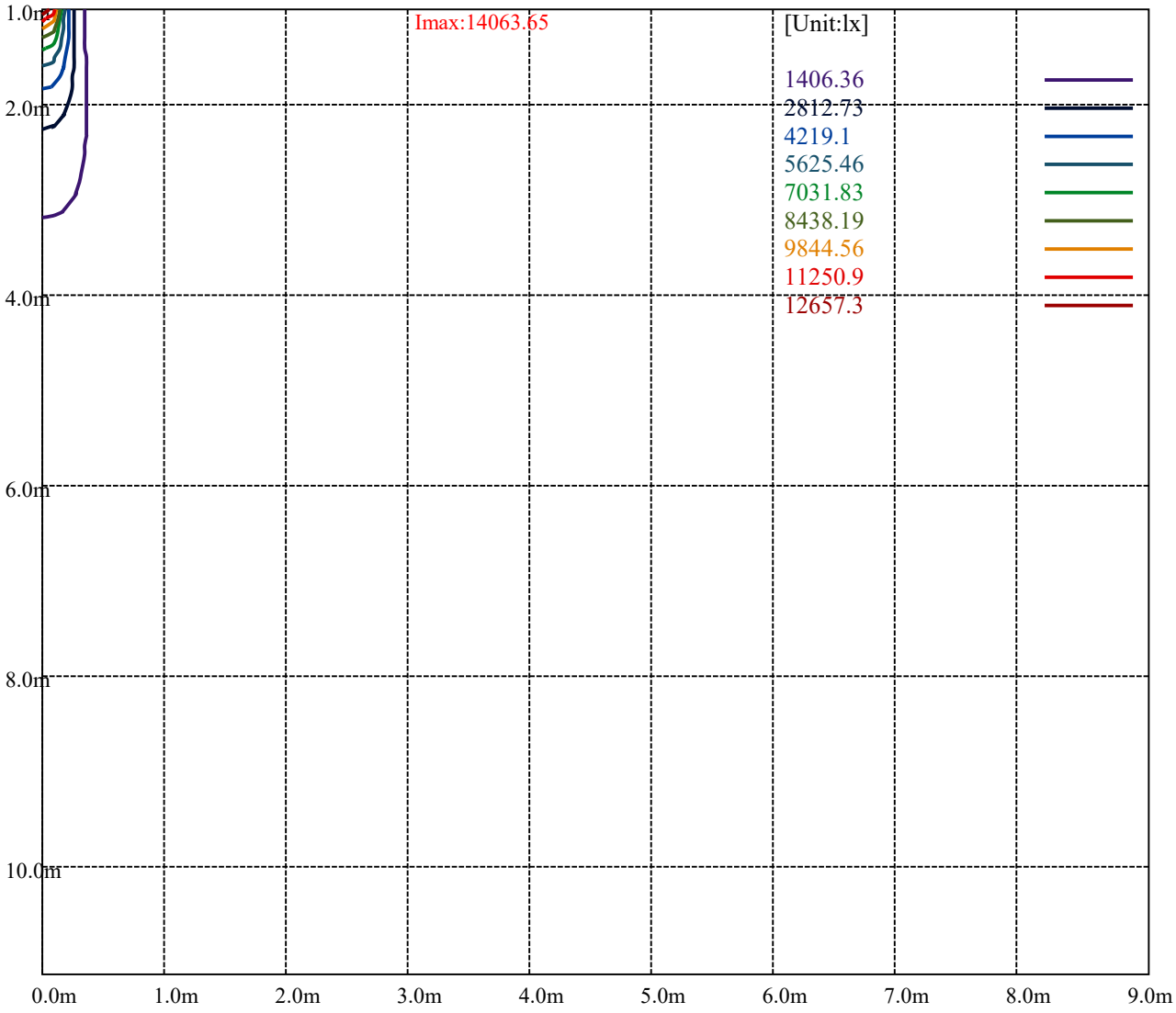
ISO illuminance diagram



Equipment: GMS1980 Date: 2026/1/2 Operator: YZQ

Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 9.28

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2026/1/2
Humidity(%): 60.0%

Operator: YZQ
Distance(m): 9.28

NT Nata 2-3118-LM

Luminance Limitting Curve(no luminous side)

Luminance Table

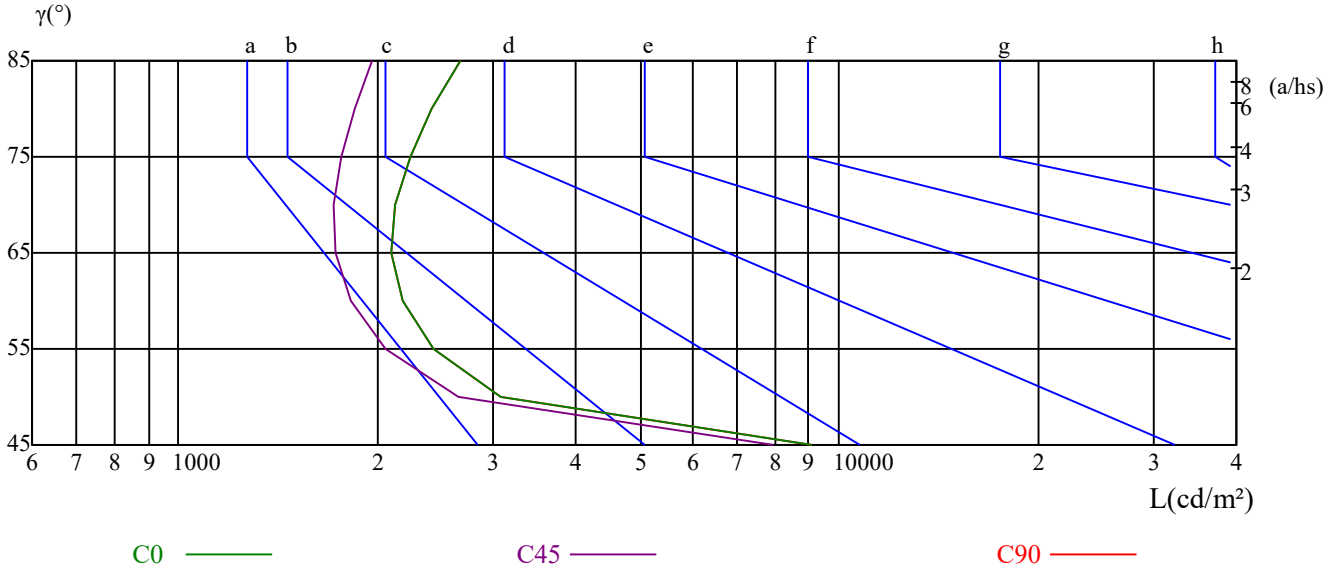
γ	45	50	55	60	65	70	75	80	85
C0	9103	3069	2428	2187	2103	2130	2244	2423	2668
C45	7970	2648	2063	1827	1725	1712	1762	1850	1969
C90	9103	3069	2428	2187	2103	2130	2244	2423	2668

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4461	4461	4461	6625	6625	6625	18622	18622	18622

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 Limitting Curve



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2026/1/2
Humidity(%): 60.0%

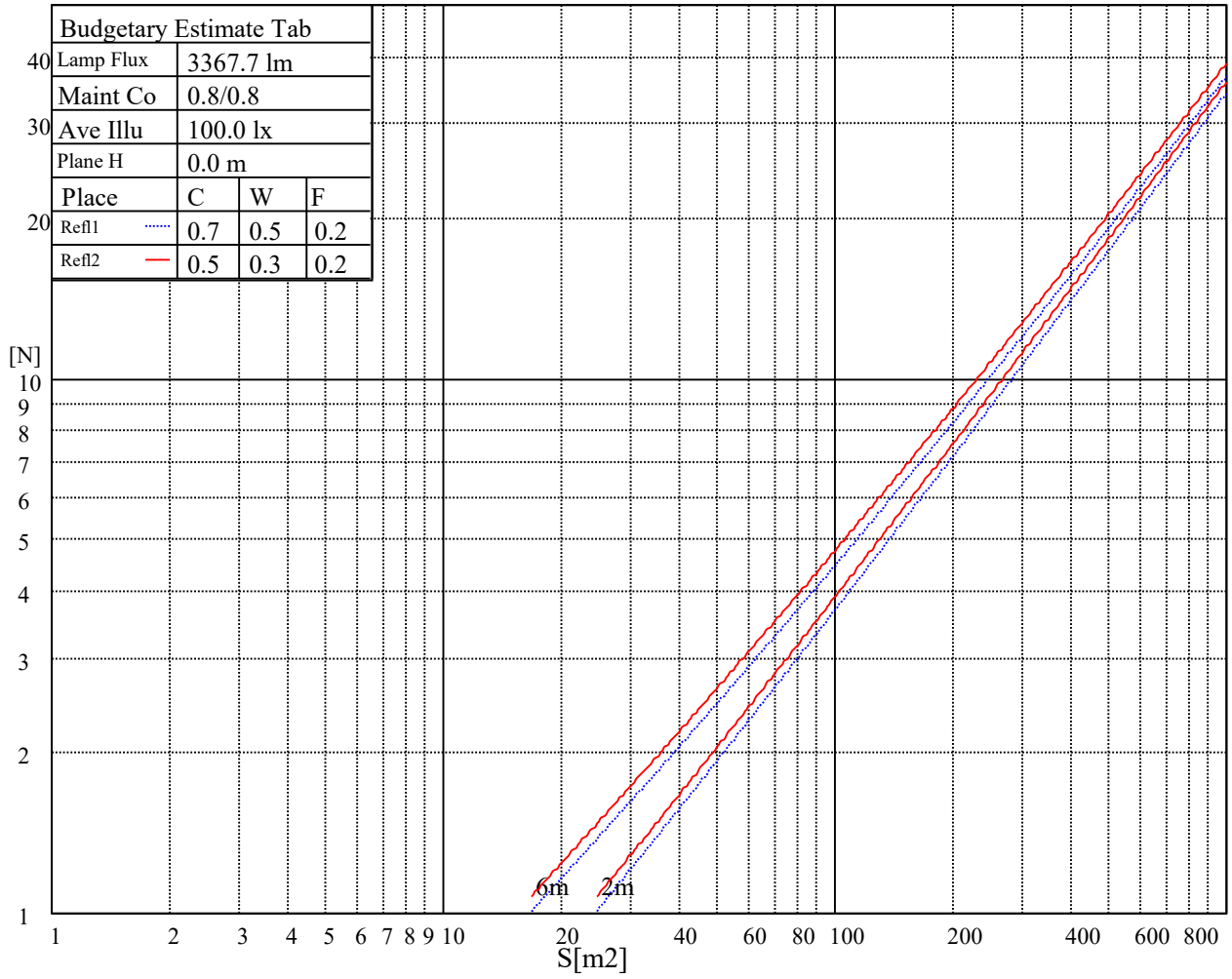
Operator: YZQ
Distance(m): 9.28

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	19.50	20.42	19.86	20.73	21.05	19.09	20.01	19.45	20.32	20.64
	3H	19.30	20.12	19.69	20.46	20.80	18.89	19.71	19.28	20.05	20.40
	4H	19.21	19.96	19.61	20.32	20.69	18.80	19.56	19.20	19.91	20.28
	6H	19.14	19.83	19.56	20.21	20.61	18.74	19.43	19.16	19.81	20.21
	8H	19.08	19.74	19.51	20.13	20.54	18.68	19.34	19.11	19.73	20.14
	12H	19.04	19.66	19.46	20.06	20.47	18.64	19.26	19.07	19.66	20.08
4H	2H	19.17	19.93	19.58	20.29	20.66	18.77	19.53	19.17	19.88	20.25
	3H	18.95	19.58	19.37	19.98	20.39	18.54	19.18	18.97	19.57	19.99
	4H	18.89	19.44	19.33	19.86	20.31	18.49	19.04	18.93	19.46	19.91
	6H	18.79	19.28	19.27	19.73	20.18	18.39	18.88	18.87	19.33	19.78
	8H	18.77	19.21	19.26	19.67	20.15	18.37	18.82	18.86	19.28	19.75
	12H	18.76	19.17	19.25	19.63	20.15	18.37	18.78	18.86	19.23	19.76
8H	4H	18.70	19.14	19.18	19.60	20.08	18.30	18.74	18.78	19.20	19.68
	6H	18.61	18.97	19.11	19.45	19.96	18.21	18.58	18.72	19.06	19.57
	8H	18.65	18.95	19.18	19.47	19.97	18.26	18.56	18.79	19.08	19.58
	12H	18.67	18.90	19.21	19.42	19.94	18.29	18.52	18.83	19.03	19.56
12H	4H	18.65	19.06	19.14	19.51	20.03	18.25	18.66	18.74	19.11	19.63
	6H	18.60	18.90	19.14	19.43	19.92	18.21	18.51	18.74	19.03	19.53
	8H	18.61	18.84	19.16	19.36	19.88	18.23	18.45	18.77	18.97	19.50

Variation with the observer position at spacings:		
S = 1.0H	5.2/-12.5	5.2/-12.5
S = 1.5H	7.9/-10.8	7.9/-10.8
S = 2.0H	9.8/-9.5	9.8/-9.5
Standard tables:	BK0	BK0
Uncorrected UGR	-0.2	-0.2

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

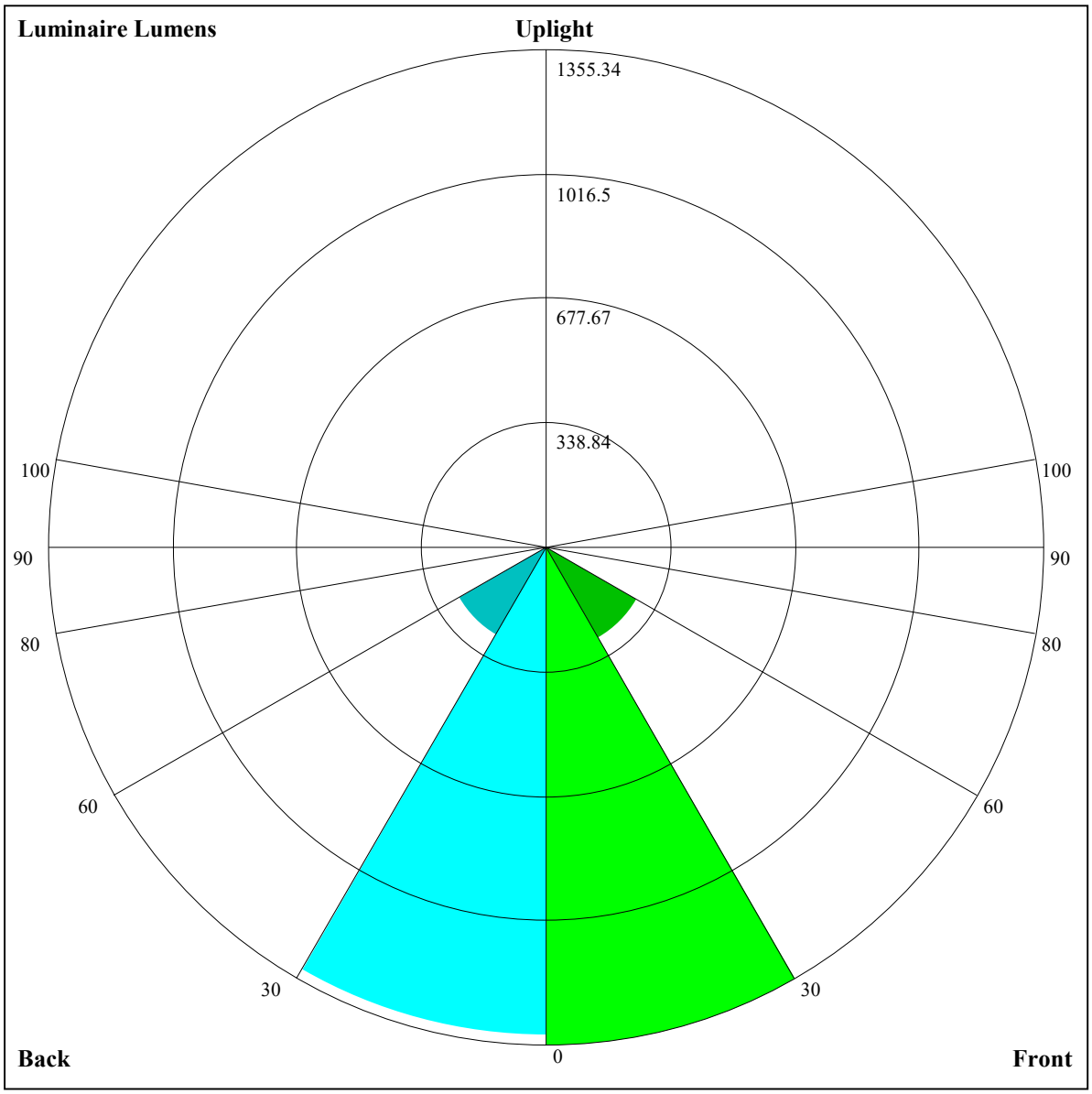
Budgetary Estimate Table



Equipment: GMS1980 Date: 2026/1/2 Operator: YZQ
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 9.28

Utilization factor table for indoor luminaire

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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.15	1.15	1.15	1.13	1.13	1.13	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.97
1	1.09	1.07	1.05	1.06	1.05	1.03	1.03	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.92
2	1.03	0.99	0.97	1.01	0.98	0.96	0.98	0.96	0.93	0.95	0.93	0.91	0.93	0.91	0.90	0.88
3	0.97	0.93	0.90	0.96	0.92	0.90	0.94	0.91	0.88	0.91	0.89	0.87	0.89	0.87	0.85	0.84
4	0.93	0.88	0.85	0.92	0.88	0.85	0.90	0.86	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.80
5	0.89	0.84	0.81	0.88	0.83	0.80	0.86	0.82	0.80	0.85	0.81	0.79	0.83	0.80	0.78	0.77
6	0.85	0.80	0.77	0.84	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.80	0.77	0.75	0.74
7	0.81	0.77	0.74	0.81	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.71
8	0.78	0.74	0.71	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69
9	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.73	0.70	0.67	0.66
10	0.73	0.68	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.64



Luminaire Lumens:
FL=1355.34,FM=285.71,FH=7.83,FVH=3.76
BL=1327.58,BM=274.74,BH=7.78,BVH=3.75
UL=0,UH=0

BUG Rating:B3-U0-G0

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	14089.06	14069.25	13982.27	13813.48	13535.32	12997.08	12379.61	11353.94	10350.66
45.0	14045.14	14083.03	14070.11	13971.07	13779.03	13475.89	12913.54	12272.82	11199.78
90.0	14070.97	14031.36	13911.65	13632.63	13282.13	12753.36	11855.15	10917.32	9821.89
135.0	14049.44	14071.83	14051.16	13934.04	13732.53	13400.97	12912.68	12065.27	11162.75
180.0	14089.06	14044.27	13935.77	13726.50	13312.27	12791.25	12092.83	11186.87	9835.67
225.0	14045.14	13944.38	13684.30	13357.91	12886.84	12226.32	11114.53	10037.19	8854.78
270.0	14070.97	14052.03	13977.96	13798.84	13442.31	13019.47	12406.30	11378.91	10386.83
315.0	14049.44	13956.43	13737.69	13438.86	12841.20	12174.64	11324.66	10043.21	8902.15
360.0	14089.06	14069.25	13982.27	13813.48	13535.32	12997.08	12379.61	11353.94	10350.66

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	9227.67	7803.27	6705.26	5717.49	4861.47	4012.34	3475.82	3036.62	2677.51
45.0	10166.36	9040.80	7892.84	6517.53	5541.81	4710.76	4031.29	3360.43	2931.56
90.0	8648.96	7198.72	6119.66	5170.63	4394.71	3638.59	3169.24	2693.87	2398.48
135.0	10094.02	8942.62	7476.89	6378.01	5177.52	4399.88	3778.10	3160.63	2763.63
180.0	8654.12	7178.92	6098.13	5140.49	4189.75	3603.28	3138.24	2757.60	2382.12
225.0	7379.57	6291.04	5336.84	4364.57	3753.13	3265.70	2781.71	2470.82	2217.63
270.0	9279.34	8127.08	6723.35	5710.60	4841.66	4144.10	3469.80	3040.93	2685.26
315.0	7752.46	6402.99	5456.55	4642.73	3989.95	3350.09	2941.89	2600.86	2323.56
360.0	9227.67	7803.27	6705.26	5717.49	4861.47	4012.34	3475.82	3036.62	2677.51

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2337.34	2115.15	1690.68	1690.68	1635.73	1537.56	1437.57	1371.95	1316.41
45.0	2588.81	2316.67	2046.26	1876.61	1708.68	1597.58	1484.77	1411.57	1348.70
90.0	2157.35	1696.02	1696.02	1637.11	1533.25	1428.36	1360.24	1302.63	1256.12
135.0	2451.02	2197.83	1944.64	1785.32	1657.87	1551.08	1443.43	1374.54	1315.11
180.0	2138.41	1948.95	1793.93	1637.20	1534.72	1450.32	1365.06	1308.22	1249.66
225.0	1886.94	1703.94	1673.62	1565.89	1477.53	1387.88	1327.52	1276.45	1223.91
270.0	2325.28	2105.68	1886.94	1744.84	1627.72	1528.69	1428.79	1361.62	1305.64
315.0	2044.54	1694.47	1694.47	1584.23	1492.86	1417.94	1338.19	1284.63	1240.45
360.0	2337.34	2115.15	1690.68	1690.68	1635.73	1537.56	1437.57	1371.95	1316.41

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1258.71	1219.35	1183.87	1144.17	1112.82	1067.52	1005.78	914.41	834.57
45.0	1295.31	1241.91	1205.74	1171.30	1142.02	1099.82	1049.01	987.00	914.66
90.0	1208.24	1173.36	1141.50	1114.46	1065.54	1009.57	925.86	848.96	765.33
135.0	1254.83	1216.08	1180.77	1140.29	1112.74	1072.26	999.06	932.75	859.55
180.0	1211.77	1176.46	1135.13	1102.40	1055.90	996.48	908.64	833.71	750.18
225.0	1187.66	1152.61	1115.23	1078.03	1010.43	943.86	868.59	789.88	685.33
270.0	1259.14	1209.19	1172.16	1137.71	1108.43	1058.48	997.34	901.75	829.41
315.0	1193.69	1158.12	1127.72	1095.77	1032.99	969.09	896.58	821.05	723.39
360.0	1258.71	1219.35	1183.87	1144.17	1112.82	1067.52	1005.78	914.41	834.57

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	751.47	665.70	557.62	470.81	388.22	290.22	216.42	135.38	82.93
45.0	812.18	725.20	636.50	521.10	450.49	450.49	237.43	168.79	110.40
90.0	655.71	568.98	481.83	372.81	293.23	217.45	151.57	97.14	51.24
135.0	778.60	674.39	587.41	498.71	434.12	434.12	231.57	166.64	96.45
180.0	664.92	557.27	478.04	437.57	437.57	218.22	152.86	83.97	49.86
225.0	600.16	514.39	429.64	326.39	248.45	178.01	117.64	62.35	38.93
270.0	751.90	641.67	558.13	477.18	434.12	434.12	202.12	137.36	84.74
315.0	641.84	561.75	461.85	380.30	281.78	207.20	142.27	87.50	42.89
360.0	751.47	665.70	557.62	470.81	388.22	290.22	216.42	135.38	82.93

Intensity data(cd)

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	47.97	31.78	25.92	21.27	17.40	14.64	13.09	12.49	11.97
45.0	58.82	36.86	29.28	24.54	19.03	15.59	13.43	12.66	11.97
90.0	33.50	28.51	22.22	17.91	14.21	12.83	12.23	11.54	11.02
135.0	54.17	31.69	26.96	21.79	16.53	13.69	12.49	11.88	11.28
180.0	33.24	27.04	22.05	17.83	14.73	12.92	12.40	11.80	11.28
225.0	29.37	24.46	19.81	15.24	13.18	12.49	11.88	11.28	10.68
270.0	43.92	31.00	26.61	20.75	16.71	13.87	12.40	11.80	11.37
315.0	30.40	25.92	21.19	16.10	13.35	12.23	11.63	11.02	10.51
360.0	47.97	31.78	25.92	21.27	17.40	14.64	13.09	12.49	11.97

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.45	10.76	10.42	10.08	9.73	9.47	9.21	8.96	8.78
45.0	11.45	10.76	10.33	10.08	9.65	9.39	9.13	8.96	8.61
90.0	10.51	10.16	9.73	9.47	9.21	8.96	8.70	8.53	8.27
135.0	10.76	10.33	9.90	9.56	9.21	9.04	8.78	8.53	8.35
180.0	10.68	10.33	9.99	9.65	9.39	9.21	8.87	8.70	8.53
225.0	10.25	9.90	9.56	9.30	9.04	8.70	8.53	8.35	8.10
270.0	10.68	10.25	9.90	9.47	9.21	8.96	8.78	8.53	8.35
315.0	9.99	9.73	9.47	9.13	8.87	8.70	8.44	8.27	8.10
360.0	11.45	10.76	10.42	10.08	9.73	9.47	9.21	8.96	8.78

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	8.61	8.44	8.27	8.18	8.10	7.92	7.84	7.75	7.75
45.0	8.44	8.35	8.18	8.01	7.84	7.75	7.66	7.58	7.58
90.0	8.10	8.01	7.84	7.75	7.66	7.58	7.49	7.41	7.32
135.0	8.18	8.01	7.92	7.84	7.75	7.66	7.58	7.49	7.41
180.0	8.44	8.27	8.18	8.01	7.84	7.84	7.66	7.66	7.58
225.0	8.01	7.84	7.75	7.66	7.58	7.58	7.41	7.41	7.32
270.0	8.18	8.01	7.84	7.75	7.66	7.49	7.49	7.41	7.32
315.0	8.01	7.84	7.75	7.66	7.58	7.49	7.41	7.32	7.32
360.0	8.61	8.44	8.27	8.18	8.10	7.92	7.84	7.75	7.75

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.58	7.58	7.49	7.49	7.41	7.41	7.32	7.23	7.15
45.0	7.49	7.41	7.32	7.32	7.32	7.23	7.23	7.15	7.15
90.0	7.32	7.23	7.23	7.15	7.15	7.06	7.06	7.06	6.98
135.0	7.32	7.32	7.23	7.23	7.15	7.15	7.15	7.06	7.06
180.0	7.58	7.49	7.41	7.32	7.32	7.23	7.23	7.15	7.06
225.0	7.23	7.23	7.23	7.15	7.15	7.06	7.06	6.98	6.98
270.0	7.32	7.23	7.15	7.15	7.15	7.06	7.06	6.98	7.06
315.0	7.23	7.23	7.23	7.15	7.06	7.06	7.06	7.06	6.98
360.0	7.58	7.58	7.49	7.49	7.41	7.41	7.32	7.23	7.15

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.15	7.06	7.06	6.98	6.98	6.98	6.98	6.89	6.89
45.0	7.06	7.06	7.06	6.98	6.80	6.80	6.80	6.80	6.80
90.0	6.98	6.98	6.89	6.89	6.89	6.80	6.80	6.80	6.80
135.0	6.98	6.98	6.98	6.98	6.89	6.89	6.80	6.80	6.80
180.0	7.06	7.06	6.98	6.98	6.89	6.89	6.89	6.80	6.89
225.0	6.98	6.98	6.89	6.89	6.80	6.80	6.80	6.80	6.80
270.0	6.89	6.98	6.89	6.80	6.80	6.80	6.72	6.80	6.80
315.0	6.98	6.89	6.89	6.80	6.80	6.80	6.80	6.80	6.72
360.0	7.15	7.06	7.06	6.98	6.98	6.98	6.98	6.89	6.89

Intensity data(cd)

C/γ(°)	90.0
0.0	6.89
45.0	6.80
90.0	6.80
135.0	6.80
180.0	6.80
225.0	6.80
270.0	6.72
315.0	6.72
360.0	6.89