NATA LIGHTING CO.,LTD
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Address:380JinOu Road,Gaoxin Zone,Jiang Men City,Guangdong,China

Nata

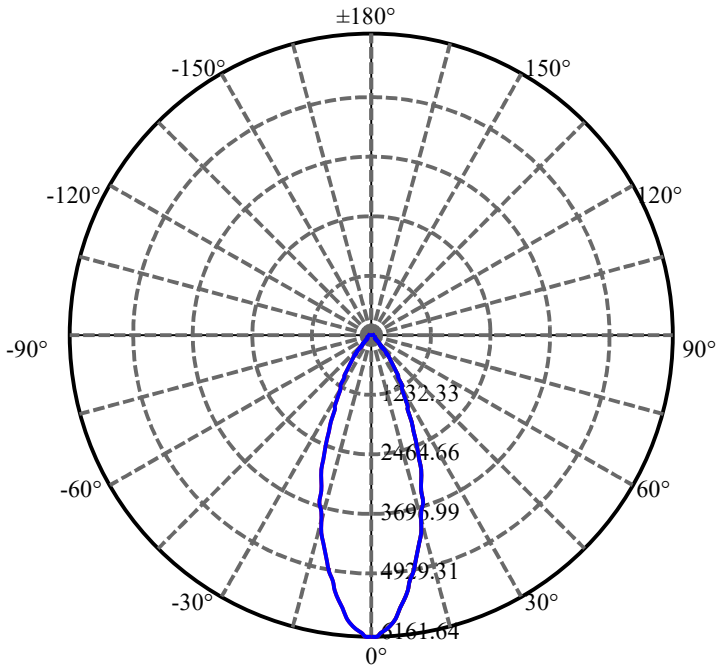
Client: NT
LumCAT: 2-3060-LM
Luminaire: 92.70.121.00 LED HOLDER
Report No: 20251110-C008
Ballast type: DC

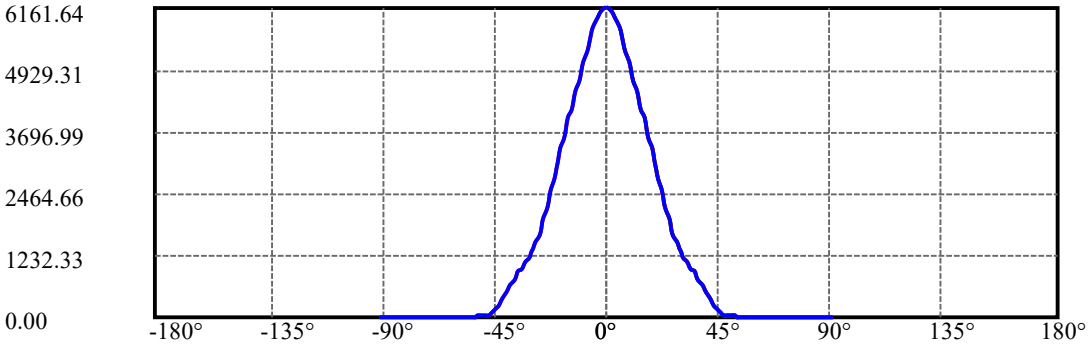
Test No: 20251110-C008	Voltage(V): 34.240
LampCAT: PHILIPS SLM 1208 L15 1919 G8N	Current(A): 0.572
Lamp flux(lm): 3303.0	Power (W): 19.580
Number of Lamps: 1	PF: 0.000
Length(mm): 69	Width(mm): 69
Phm Type: C	Height(mm): 35

Photometric Results

Lumens(lm): 3227.97, Efficiency(%): 97.73% , Luminous Efficacy(lm/W): 164.86
Central intensity(cd): 6161.642, Maximum intensity(cd): 6161.642
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=76.8
[C90/270]Total=76.8
Maximum s/h(1/2): C0_180=0.62 C90_270=0.62
Maximum s/h(1/4): C0_180=0.64 C90_270=0.64
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 97.73%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.174%

Light Distribution Curve [Unit:cd]





C0(Max):

C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:38.4 Right:38.4
:C90/270Left:38.4 Right:38.4

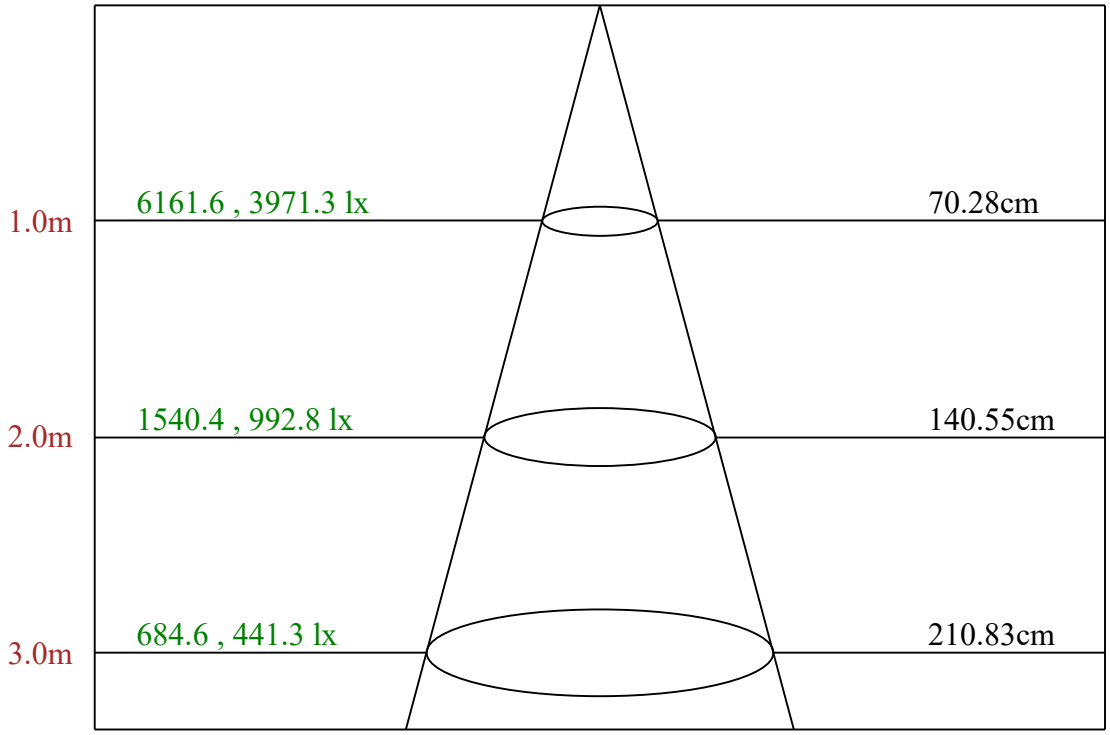
Beam Angle(50%Imax):C0/180Left:19.3 Right:19.3
:C90/270Left:19.3 Right:19.3

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/11/10
Humidity(%): 60.0%

Operator: YZQ
Distance(m): 9.28

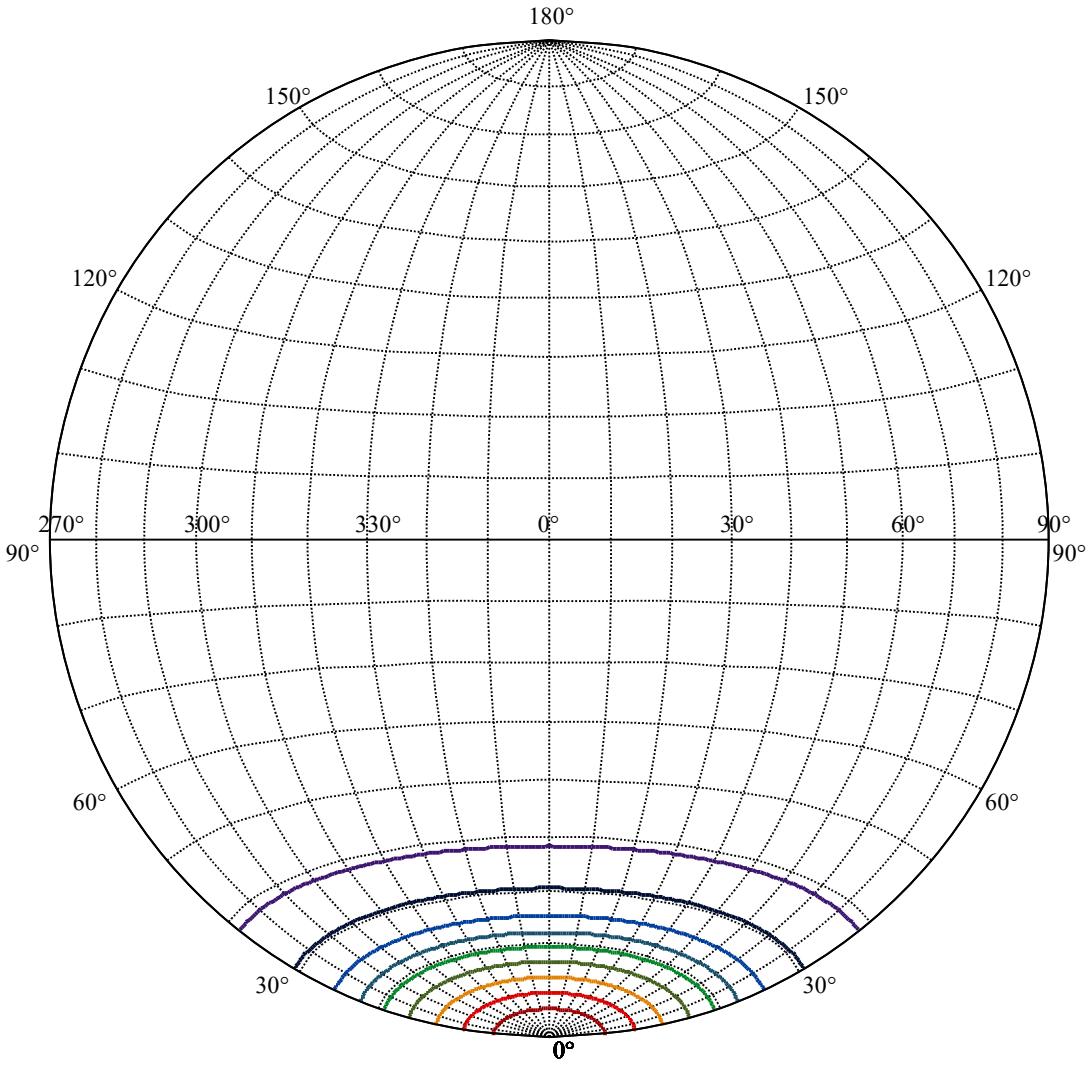
Lux distance Curve



Max , Ave

Beam angle of C0 plane 38.72

ISO candela diagram on circular web



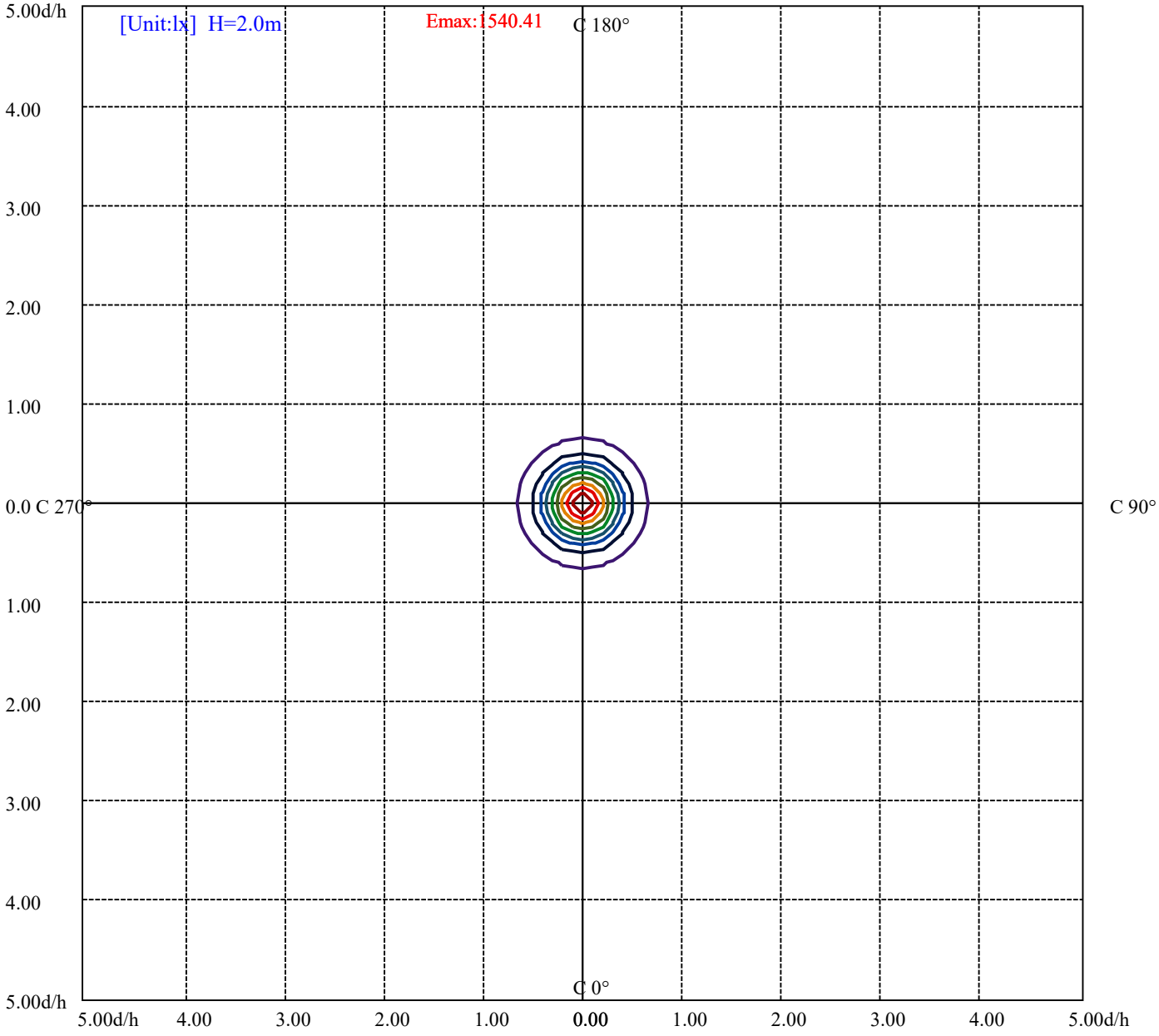
House [Unit:cd] Road

Imax:6161.64

(10%Imax) 616.164
(20%Imax) 1232.33
(30%Imax) 1848.49
(40%Imax) 2464.66
(50%Imax) 3080.82
(60%Imax) 3696.98
(70%Imax) 4313.15
(80%Imax) 4929.31
(90%Imax) 5545.48

NT Nata 2-3060-LM

ISO illuminance diagram

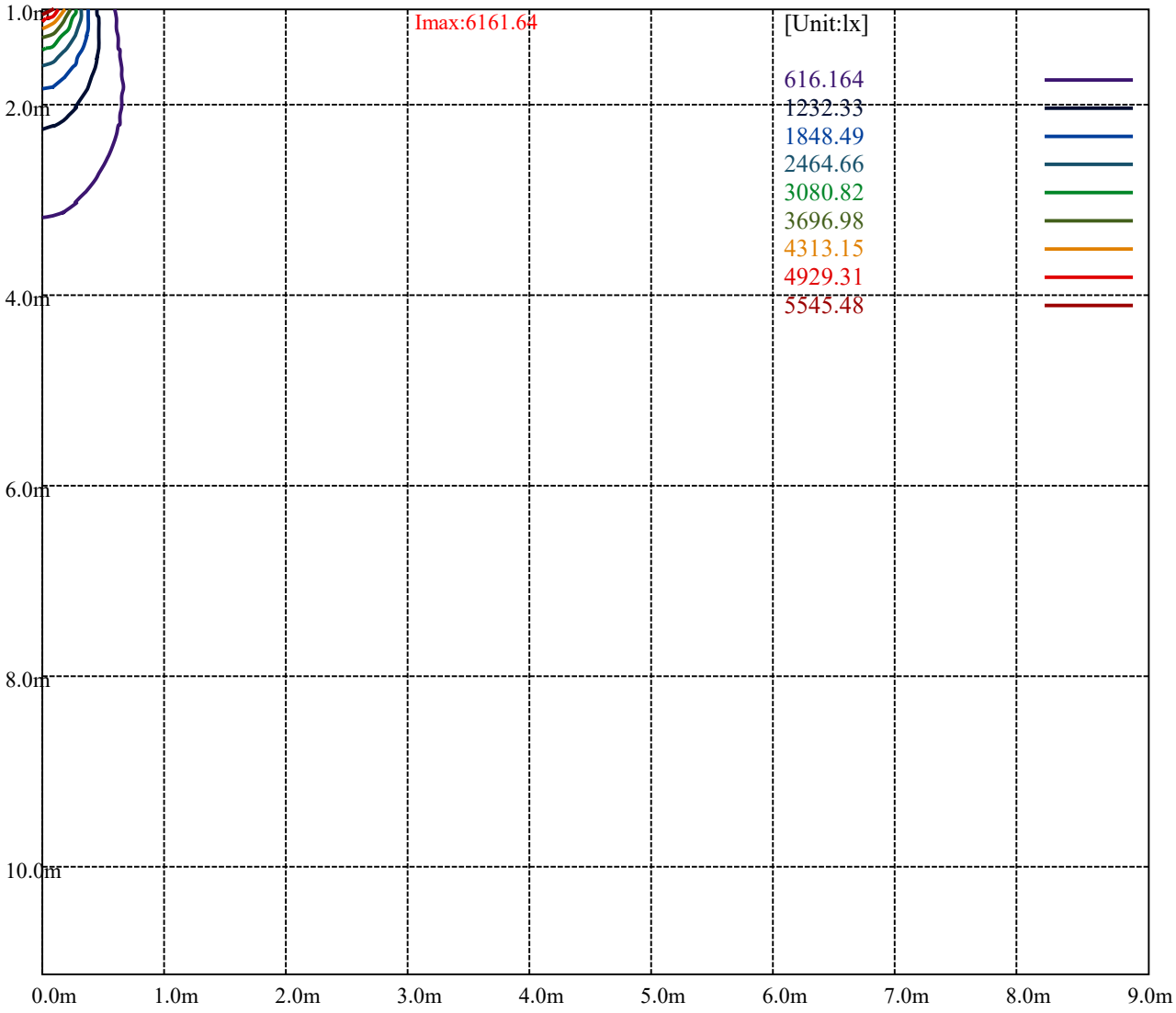


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/11/10
Humidity(%): 60.0%

Operator: YZQ
Distance(m): 9.28

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2025/11/10
Humidity(%): 60.0%

Operator: YZQ
Distance(m): 9.28

NT Nata 2-3060-LM

Luminance Limitting Curve(no luminous side)

Luminance Table

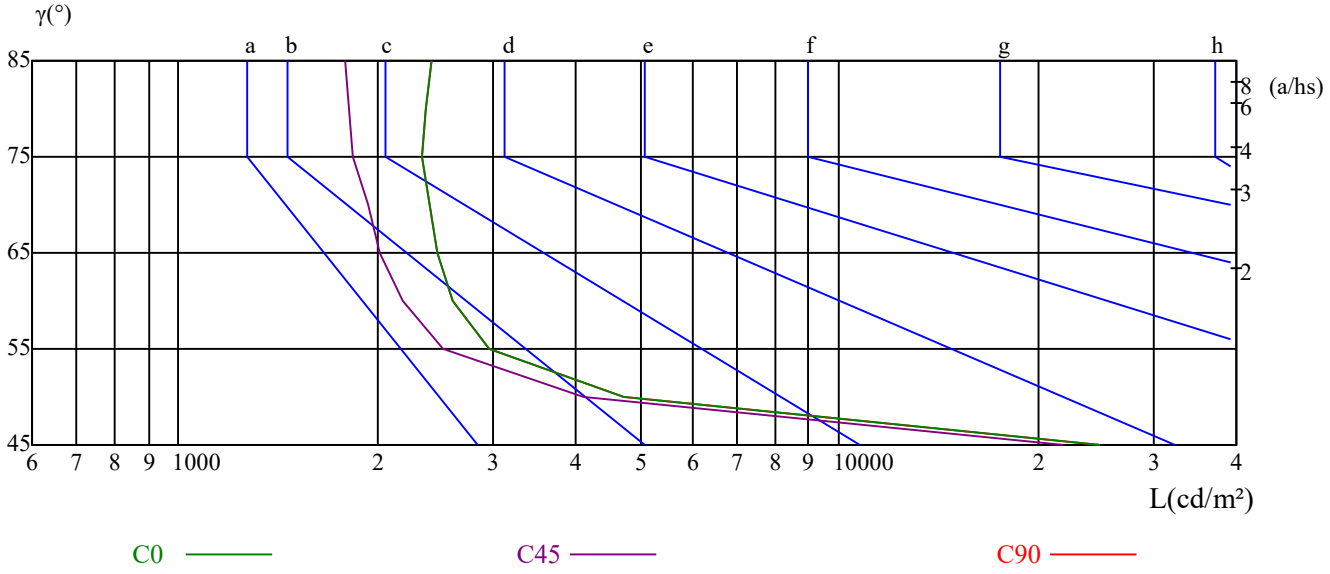
γ	45	50	55	60	65	70	75	80	85
C0	24887	4729	2963	2609	2457	2400	2334	2375	2423
C45	21842	4090	2524	2186	2021	1934	1836	1816	1791
C90	24887	4729	2963	2609	2457	2400	2334	2375	2423

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5131	5131	5131	6753	6753	6753	16473	16473	16473

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: 2025/11/10
Humidity(%): 60.0%

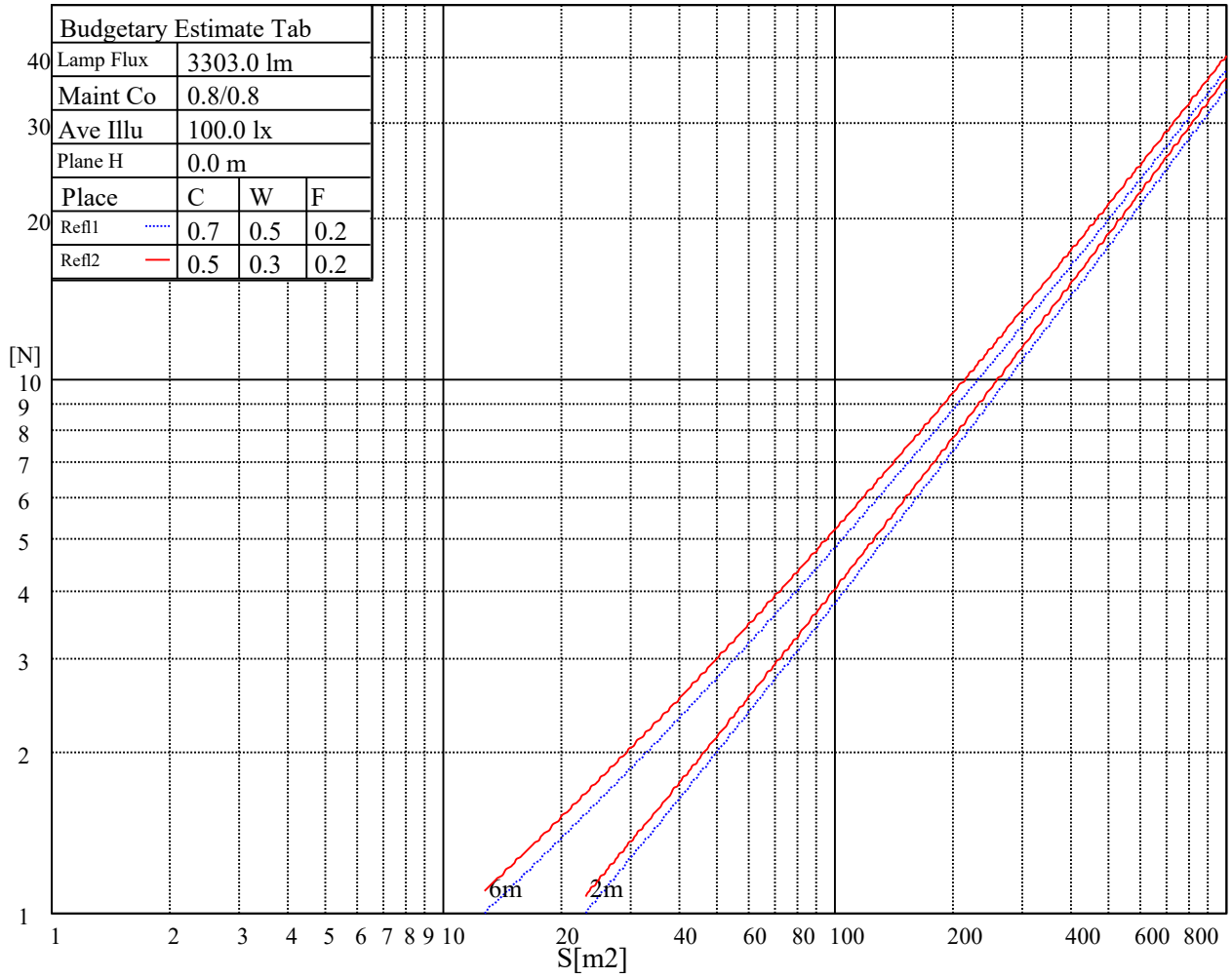
Operator: YZQ
Distance(m): 9.28

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	21.34	22.29	21.70	22.60	22.91	21.09	22.04	21.45	22.35	22.66
	3H	21.14	21.98	21.53	22.32	22.67	20.89	21.73	21.28	22.07	22.42
	4H	21.05	21.83	21.45	22.18	22.55	20.80	21.58	21.20	21.93	22.30
	6H	20.98	21.69	21.39	22.06	22.46	20.73	21.44	21.15	21.82	22.21
	8H	20.91	21.59	21.33	21.97	22.38	20.66	21.34	21.09	21.73	22.14
	12H	20.85	21.49	21.28	21.89	22.31	20.61	21.25	21.04	21.65	22.06
4H	2H	21.02	21.80	21.42	22.15	22.52	20.77	21.55	21.17	21.91	22.27
	3H	20.80	21.45	21.22	21.84	22.26	20.55	21.20	20.97	21.59	22.01
	4H	20.74	21.30	21.18	21.72	22.17	20.49	21.05	20.93	21.47	21.92
	6H	20.62	21.12	21.10	21.57	22.03	20.38	20.87	20.85	21.33	21.78
	8H	20.58	21.04	21.07	21.50	21.98	20.34	20.80	20.83	21.26	21.73
	12H	20.56	20.98	21.05	21.43	21.95	20.32	20.74	20.81	21.19	21.72
8H	4H	20.54	21.00	21.03	21.46	21.93	20.29	20.75	20.78	21.21	21.69
	6H	20.43	20.80	20.93	21.28	21.80	20.18	20.56	20.69	21.04	21.55
	8H	20.44	20.76	20.98	21.28	21.78	20.21	20.52	20.74	21.04	21.54
	12H	20.43	20.67	20.97	21.19	21.71	20.20	20.44	20.74	20.96	21.48
12H	4H	20.49	20.91	20.98	21.37	21.89	20.24	20.66	20.73	21.12	21.64
	6H	20.42	20.73	20.95	21.25	21.75	20.17	20.49	20.71	21.01	21.51
	8H	20.40	20.64	20.94	21.16	21.68	20.16	20.40	20.71	20.92	21.44

Variation with the observer position at spacings:		
S = 1.0H	4.6/-12.2	4.6/-12.2
S = 1.5H	7.3/-10.7	7.3/-10.7
S = 2.0H	9.3/-9.7	9.3/-9.7
Standard tables:	BK0	BK0
Uncorrected UGR	0.6	0.6

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

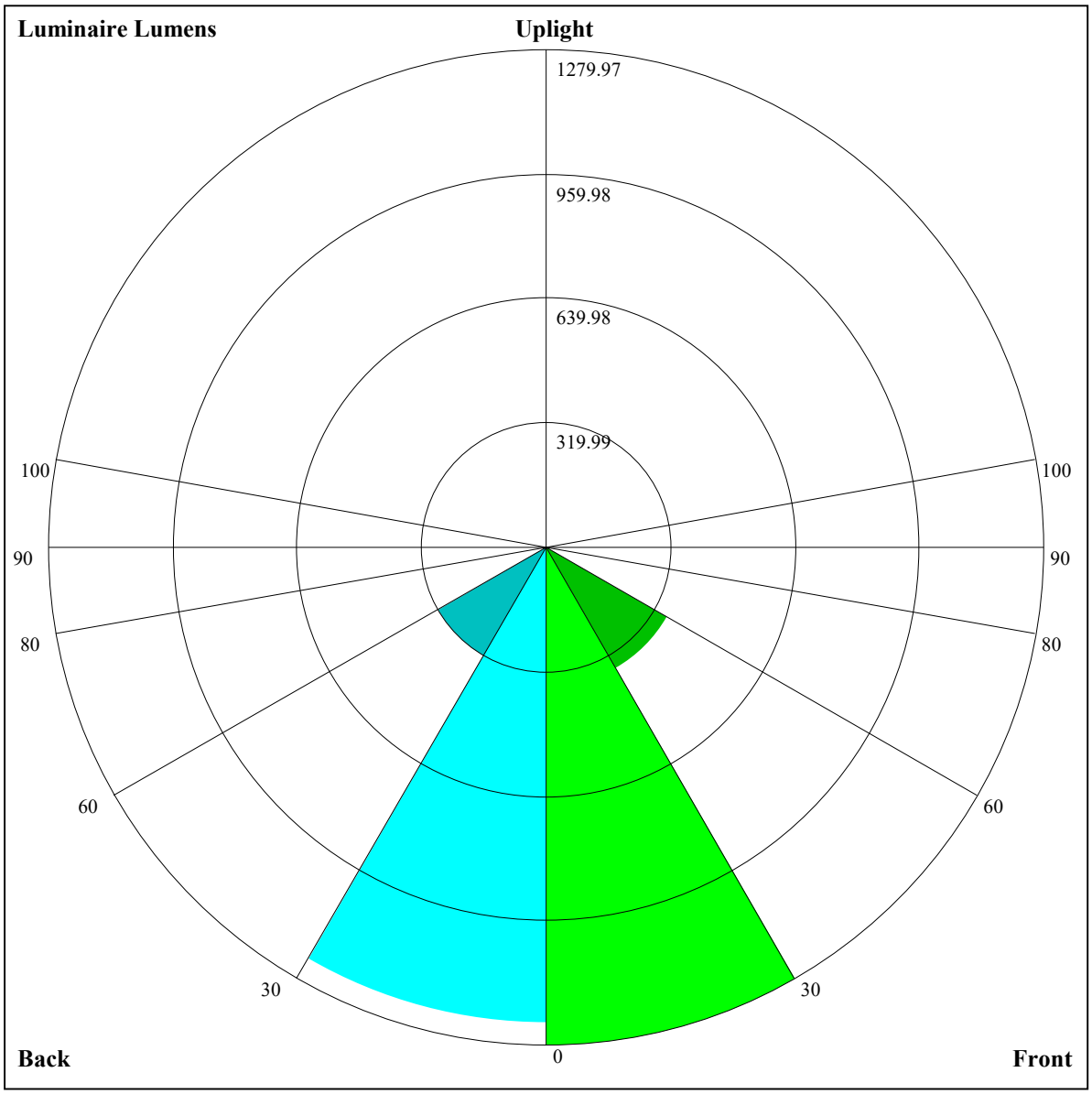
Budgetary Estimate Table



Equipment: GMS1980	Date: 2025/11/10	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	1.16	1.16	1.16	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.98
1	1.09	1.06	1.04	1.07	1.04	1.03	1.03	1.01	0.99	0.99	0.98	0.97	0.96	0.95	0.94	0.92
2	1.02	0.98	0.95	1.00	0.97	0.94	0.97	0.94	0.92	0.94	0.92	0.90	0.91	0.90	0.88	0.86
3	0.96	0.91	0.88	0.94	0.90	0.87	0.92	0.88	0.85	0.89	0.87	0.84	0.87	0.85	0.83	0.81
4	0.90	0.85	0.81	0.89	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.77
5	0.85	0.80	0.76	0.84	0.79	0.76	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.74	0.72
6	0.80	0.75	0.71	0.80	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.68
7	0.76	0.71	0.67	0.76	0.71	0.67	0.75	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.65
8	0.73	0.67	0.64	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.61
9	0.69	0.64	0.60	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.58
10	0.66	0.61	0.57	0.65	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.56



Luminaire Lumens:
FL=1279.97,FM=361.2,FH=9.71,FVH=3.79
BL=1222.93,BM=325.47,BH=9.38,BVH=3.77
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	6215.25	6220.42	6192.00	6131.72	6052.49	5914.70	5803.61	5670.12	5487.55
45.0	6106.74	6196.30	6227.31	6228.17	6183.39	6094.69	5983.59	5871.64	5710.60
90.0	6191.14	6234.20	6239.36	6201.47	6092.96	5986.18	5877.67	5690.79	5522.00
135.0	6133.44	6200.61	6237.64	6237.64	6197.17	6126.55	5981.87	5851.83	5680.46
180.0	6215.25	6175.64	6095.55	5987.90	5842.36	5700.26	5492.72	5300.67	5115.52
225.0	6106.74	6007.71	5863.89	5731.27	5569.36	5388.51	5142.22	4926.92	4740.90
270.0	6191.14	6124.83	6040.43	5892.31	5742.46	5584.00	5410.91	5187.86	5014.76
315.0	6133.44	6045.60	5919.86	5794.99	5661.51	5498.75	5284.31	5124.13	4950.17
360.0	6215.25	6220.42	6192.00	6131.72	6052.49	5914.70	5803.61	5670.12	5487.55

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5331.68	5162.88	4978.59	4825.30	4659.95	4454.13	4282.75	4102.77	3918.47
45.0	5563.33	5407.46	5242.97	5030.26	4866.64	4698.71	4485.13	4312.90	4138.08
90.0	5368.71	5135.33	4947.59	4768.46	4589.34	4364.57	4182.00	4001.15	3821.16
135.0	5531.47	5347.18	5160.30	4925.20	4741.77	4559.19	4364.57	4142.38	3960.67
180.0	4881.28	4704.73	4508.38	4281.03	4111.38	3936.56	3771.21	3591.22	3344.92
225.0	4560.06	4339.59	4164.77	3994.26	3774.66	3592.08	3412.96	3172.69	2972.89
270.0	4838.22	4599.67	4398.15	4208.69	3971.87	3794.46	3617.92	3387.12	3194.22
315.0	4751.24	4577.28	4409.35	4189.75	4001.15	3772.93	3586.06	3387.12	3175.27
360.0	5331.68	5162.88	4978.59	4825.30	4659.95	4454.13	4282.75	4102.77	3918.47

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3696.29	3498.22	3303.59	3091.74	2828.21	2618.09	2408.82	2153.05	1693.69
45.0	3923.64	3754.85	3536.11	3341.48	3141.69	2938.45	2684.40	2493.21	2290.84
90.0	3593.81	3410.37	3219.19	2981.51	2777.40	2527.66	2327.01	2136.68	1695.50
135.0	3775.52	3548.16	3359.56	3168.38	2928.11	2730.90	2539.72	2303.75	2120.32
180.0	3152.02	2957.39	2711.09	2513.88	2276.20	2092.76	1923.11	1731.93	1596.72
225.0	2779.13	2551.77	2361.45	2187.49	1906.75	1708.07	1675.09	1541.95	1423.11
270.0	2990.98	2786.88	2531.97	2329.59	2138.41	1962.72	1767.24	1626.86	1499.41
315.0	2913.47	2704.20	2500.10	2295.14	2066.93	1702.22	1702.22	1603.78	1454.28
360.0	3696.29	3498.22	3303.59	3091.74	2828.21	2618.09	2408.82	2153.05	1693.69

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1693.69	1621.78	1492.26	1389.18	1274.81	1205.23	1146.15	1087.42	1027.56
45.0	2099.65	1881.77	1725.90	1581.22	1470.13	1338.37	1256.55	1167.85	1114.46
90.0	1695.50	1617.48	1474.61	1358.26	1231.67	1146.58	1075.02	1021.88	953.07
135.0	1964.45	1804.27	1627.72	1503.71	1397.79	1284.11	1207.47	1148.91	1098.96
180.0	1470.13	1364.20	1249.66	1178.19	1129.10	1072.26	974.95	902.61	821.66
225.0	1299.10	1221.33	1154.76	1098.10	1020.50	951.95	850.94	770.07	685.16
270.0	1358.17	1260.00	1175.60	1091.21	1040.40	987.86	907.77	831.13	755.34
315.0	1356.11	1269.39	1181.37	1127.72	1064.51	999.49	927.41	845.34	743.29
360.0	1693.69	1621.78	1492.26	1389.18	1274.81	1205.23	1146.15	1087.42	1027.56

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	955.23	880.65	780.32	692.56	603.86	520.50	413.71	333.71	254.48
45.0	1067.09	993.89	923.28	844.05	757.93	640.81	554.69	465.99	442.73
90.0	890.55	818.12	723.65	644.77	543.49	459.96	380.90	292.46	225.63
135.0	1017.14	939.64	858.69	749.32	659.75	548.66	464.26	443.60	443.60
180.0	715.73	634.78	551.24	446.18	446.18	341.98	180.85	116.69	68.46
225.0	577.34	491.99	407.00	300.81	222.70	153.29	96.19	56.58	34.19
270.0	652.00	571.05	489.24	449.62	449.62	226.92	161.04	105.93	60.80
315.0	658.98	570.88	490.01	385.38	305.89	230.37	144.08	87.67	52.27
360.0	955.23	880.65	780.32	692.56	603.86	520.50	413.71	333.71	254.48

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	164.23	104.20	52.88	35.91	30.74	25.58	20.15	17.48	16.88
45.0	333.45	190.32	124.44	74.23	40.30	33.41	26.78	21.70	17.57
90.0	160.35	107.65	70.53	46.68	39.44	33.67	27.21	23.77	20.75
135.0	203.33	137.36	81.30	48.05	35.22	29.97	24.72	20.07	16.88
180.0	40.30	30.57	25.58	21.10	17.31	15.07	14.64	14.12	13.43
225.0	29.45	24.37	18.77	15.76	14.30	13.69	13.00	12.23	11.88
270.0	43.06	35.83	30.40	25.49	20.84	18.86	16.71	14.81	13.26
315.0	36.08	30.40	24.72	19.03	16.36	15.50	14.90	13.95	13.18
360.0	164.23	104.20	52.88	35.91	30.74	25.58	20.15	17.48	16.88

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.36	15.59	14.98	14.47	13.87	13.61	13.18	12.66	12.31
45.0	16.45	16.02	15.33	14.73	14.21	13.78	13.35	13.00	12.49
90.0	18.26	16.36	15.16	14.12	13.43	12.92	12.40	11.88	11.45
135.0	15.85	15.33	14.73	14.21	13.52	13.09	12.57	12.06	11.71
180.0	13.09	12.66	12.23	11.88	11.63	11.37	11.02	10.94	10.76
225.0	11.45	11.20	10.94	10.59	10.42	10.08	9.82	9.73	9.56
270.0	12.66	12.23	11.80	11.45	11.11	10.76	10.51	10.25	9.99
315.0	12.66	12.23	11.71	11.37	11.11	10.76	10.51	10.16	9.99
360.0	16.36	15.59	14.98	14.47	13.87	13.61	13.18	12.66	12.31

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.88	11.54	11.28	11.02	10.94	10.76	10.68	10.51	10.33
45.0	12.06	11.71	11.28	11.02	10.85	10.59	10.42	10.16	9.90
90.0	11.20	10.85	10.59	10.33	10.08	9.82	9.65	9.47	9.13
135.0	11.28	11.20	10.85	10.51	10.16	9.90	9.56	9.39	9.13
180.0	10.68	10.59	10.51	10.42	10.25	10.08	9.90	9.73	9.47
225.0	9.39	9.21	9.13	8.96	8.78	8.61	8.53	8.44	8.35
270.0	9.82	9.65	9.47	9.30	9.13	8.87	8.70	8.61	8.53
315.0	9.73	9.56	9.47	9.30	9.13	8.87	8.70	8.53	8.35
360.0	11.88	11.54	11.28	11.02	10.94	10.76	10.68	10.51	10.33

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.99	9.65	9.39	8.96	8.61	8.35	8.10	7.92	7.66
45.0	9.56	9.30	8.96	8.87	8.61	8.35	8.18	8.01	7.84
90.0	8.96	8.78	8.61	8.44	8.35	8.27	8.18	8.01	8.01
135.0	8.78	8.78	8.53	8.35	8.18	8.01	7.84	7.75	7.58
180.0	9.04	8.78	8.44	8.18	8.01	7.92	7.75	7.49	7.41
225.0	8.27	8.10	8.01	7.84	7.75	7.58	7.49	7.49	7.41
270.0	8.35	8.27	8.18	8.10	8.01	7.92	7.92	7.92	7.84
315.0	8.27	8.10	8.01	7.84	7.75	7.58	7.41	7.32	7.15
360.0	9.99	9.65	9.39	8.96	8.61	8.35	8.10	7.92	7.66

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.49	7.32	7.23	7.06	6.98	6.80	6.72	6.63	6.54
45.0	7.66	7.49	7.41	7.23	7.06	6.98	6.72	6.72	6.54
90.0	7.84	7.75	7.66	7.58	7.41	7.06	6.80	6.63	6.37
135.0	7.49	7.32	7.23	7.23	7.06	7.06	6.72	6.54	6.46
180.0	7.32	7.32	7.32	7.23	6.63	6.54	6.54	6.46	6.20
225.0	7.41	7.41	7.32	6.54	6.46	6.37	6.11	6.11	6.11
270.0	7.84	7.66	7.49	7.23	6.63	6.37	6.20	6.11	6.11
315.0	7.15	7.06	6.98	6.63	6.46	6.37	6.11	6.03	6.03
360.0	7.49	7.32	7.23	7.06	6.98	6.80	6.72	6.63	6.54

Intensity data(cd)

C/γ(°)	90.0
0.0	6.63
45.0	6.46
90.0	6.29
135.0	6.29
180.0	6.11
225.0	6.11
270.0	6.11
315.0	6.03
360.0	6.63