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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client: NT
LumCAT: 2-2895-L & 92.70.401.00
Luminaire: 92.70.411.00LED HOLDER
Report No: 20250110-B021
Ballast type: AC

Test No: 20250110-C021	Voltage(V): 36.570
LampCAT: LUMILEDS 1208 LES15	Current(A): 0.897
Lamp flux(lm): 4053.0	Power (W): 32.800
Number of Lamps: 1	PF: 0.000
Length(mm): 69	Width(mm): 69
Phm Type: C	Height(mm): 44

Photometric Results

Lumens(lm): 3798.89, Efficiency(%): 93.73% , Luminous Efficacy(lm/W): 115.82
Central intensity(cd): 13279.150, Maximum intensity(cd): 13279.150
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.4
[C90/270]Total=25.4
Field angle(10%Imax): [C0/180]Total=56.4
[C90/270]Total=56.4
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
Maximum s/h(1/4): C0_180=0.45 C90_270=0.45
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.73%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.004%

Equipment: GMS 1800	Date: 2024/9/2	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	13279.153	0.000	0	0.00%	0.00%
1.0	13206.026	12.673	12.673	0.31%	0.33%
2.0	13009.626	37.627	50.3	0.93%	1.32%
3.0	12615.466	61.287	111.587	1.51%	2.94%
4.0	12166.432	82.953	194.54	2.05%	5.12%
5.0	11737.837	102.835	297.374	2.54%	7.83%
6.0	10993.329	119.458	416.833	2.95%	10.97%
7.0	10499.819	133.408	550.24	3.29%	14.48%
8.0	9997.670	146.697	696.937	3.62%	18.35%
9.0	9233.878	155.861	852.798	3.85%	22.45%
10.0	8580.454	161.213	1014.011	3.98%	26.69%
11.0	7876.977	164.444	1178.455	4.06%	31.02%
12.0	7124.945	163.992	1342.447	4.05%	35.34%
13.0	6420.976	160.756	1503.203	3.97%	39.57%
14.0	5818.820	156.668	1659.872	3.87%	43.69%
15.0	5161.710	150.746	1810.617	3.72%	47.66%
16.0	4580.868	142.756	1953.373	3.52%	51.42%
17.0	4090.769	135.041	2088.414	3.33%	54.97%
18.0	3614.257	127.039	2215.453	3.13%	58.32%
19.0	3245.005	119.337	2334.79	2.94%	61.46%
20.0	2956.811	113.510	2448.301	2.80%	64.45%
21.0	2747.389	109.532	2557.833	2.70%	67.33%
22.0	2436.909	104.181	2662.014	2.57%	70.07%
23.0	2209.064	97.485	2759.499	2.41%	72.64%
24.0	2043.098	92.967	2852.466	2.29%	75.09%
25.0	1837.532	88.237	2940.703	2.18%	77.41%
26.0	1684.950	83.149	3023.852	2.05%	79.60%
27.0	1504.792	78.038	3101.89	1.93%	81.65%
28.0	1357.768	72.474	3174.363	1.79%	83.56%
29.0	1211.513	67.220	3241.583	1.66%	85.33%
30.0	1076.053	61.764	3303.347	1.52%	86.96%
31.0	958.221	56.611	3359.958	1.40%	88.45%
32.0	824.555	51.074	3411.032	1.26%	89.79%
33.0	697.590	44.843	3455.875	1.11%	90.97%
34.0	588.273	38.914	3494.789	0.96%	92.00%
35.0	494.081	33.614	3528.403	0.83%	92.88%
36.0	415.723	28.968	3557.371	0.71%	93.64%
37.0	352.471	25.054	3582.426	0.62%	94.30%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	305.625	21.966	3604.392	0.54%	94.88%
39.0	259.514	19.290	3623.682	0.48%	95.39%
40.0	218.811	16.682	3640.364	0.41%	95.83%
41.0	180.920	14.234	3654.598	0.35%	96.20%
42.0	157.865	12.309	3666.907	0.30%	96.53%
43.0	127.464	10.569	3677.476	0.26%	96.80%
44.0	108.088	8.890	3686.367	0.22%	97.04%
45.0	93.226	7.737	3694.103	0.19%	97.24%
46.0	81.899	6.849	3700.952	0.17%	97.42%
47.0	72.694	6.149	3707.101	0.15%	97.58%
48.0	66.117	5.611	3712.712	0.14%	97.73%
49.0	60.677	5.207	3717.919	0.13%	97.87%
50.0	56.478	4.885	3722.804	0.12%	98.00%
51.0	52.865	4.626	3727.43	0.11%	98.12%
52.0	49.803	4.406	3731.835	0.11%	98.23%
53.0	46.978	4.210	3736.045	0.10%	98.35%
54.0	44.330	4.024	3740.07	0.10%	98.45%
55.0	42.306	3.867	3743.937	0.10%	98.55%
56.0	40.079	3.723	3747.66	0.09%	98.65%
57.0	38.062	3.573	3751.233	0.09%	98.75%
58.0	35.966	3.423	3754.656	0.08%	98.84%
59.0	34.021	3.272	3757.928	0.08%	98.92%
60.0	32.109	3.124	3761.052	0.08%	99.00%
61.0	30.079	2.968	3764.02	0.07%	99.08%
62.0	28.279	2.812	3766.832	0.07%	99.16%
63.0	26.229	2.651	3769.483	0.07%	99.23%
64.0	24.691	2.499	3771.981	0.06%	99.29%
65.0	22.963	2.358	3774.34	0.06%	99.35%
66.0	21.281	2.208	3776.547	0.05%	99.41%
67.0	19.934	2.072	3778.62	0.05%	99.47%
68.0	18.377	1.941	3780.561	0.05%	99.52%
69.0	16.886	1.799	3782.359	0.04%	99.56%
70.0	15.683	1.673	3784.032	0.04%	99.61%
71.0	14.363	1.553	3785.585	0.04%	99.65%
72.0	13.095	1.428	3787.013	0.04%	99.69%
73.0	12.004	1.312	3788.325	0.03%	99.72%
74.0	11.032	1.211	3789.536	0.03%	99.75%
75.0	10.092	1.116	3790.652	0.03%	99.78%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.225	1.025	3791.678	0.03%	99.81%
77.0	8.436	0.942	3792.619	0.02%	99.83%
78.0	7.661	0.862	3793.481	0.02%	99.86%
79.0	6.978	0.787	3794.268	0.02%	99.88%
80.0	6.301	0.716	3794.984	0.02%	99.90%
81.0	5.618	0.645	3795.628	0.02%	99.91%
82.0	5.046	0.578	3796.206	0.01%	99.93%
83.0	4.442	0.516	3796.722	0.01%	99.94%
84.0	3.890	0.454	3797.176	0.01%	99.95%
85.0	3.371	0.396	3797.572	0.01%	99.97%
86.0	2.937	0.345	3797.917	0.01%	99.97%
87.0	2.530	0.299	3798.216	0.01%	99.98%
88.0	2.175	0.258	3798.474	0.01%	99.99%
89.0	1.840	0.220	3798.694	0.01%	99.99%
90.0	1.702	0.194	3798.888	0.00%	100.00%

Zonal flux distribution table

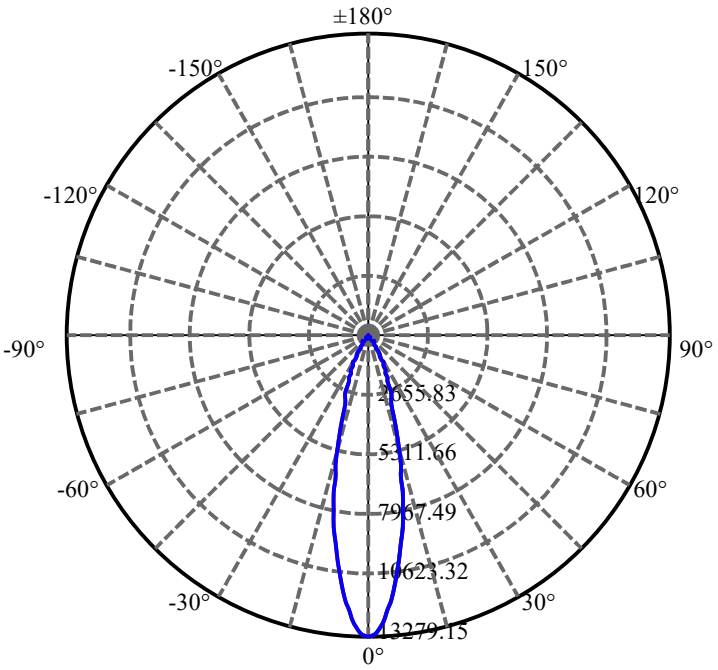
ZONAL LUMEN SUMMARY

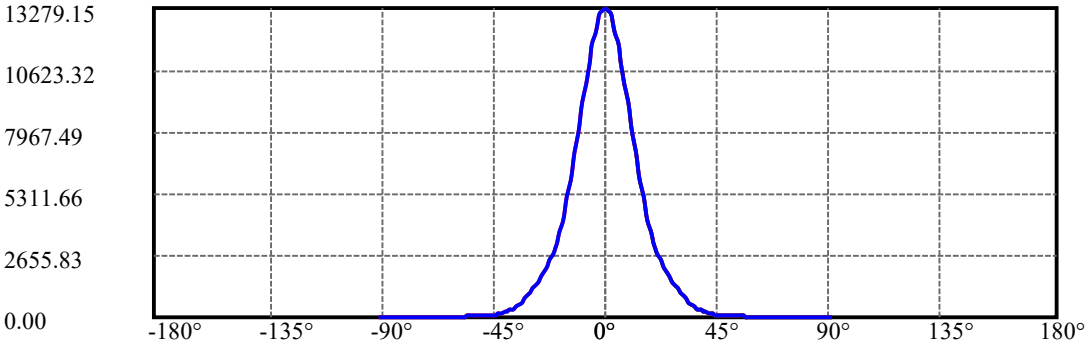
Zone	Lumens	%Lamp	%Fixt
0-30	3303.35	81.50%	86.96%
0-40	3640.36	89.82%	95.83%
0-60	3761.05	92.80%	99.00%
0-90	3798.69	93.73%	99.99%
0-120	3798.69	93.73%	99.99%
0-180	3798.89	93.73%	100.00%
60-90	37.64	0.93%	0.99%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.20	3039.11	74.98%	80.00%

ZONAL LUMEN SUMMARY

0-10	1014.01
10-20	1434.29
20-30	855.05
30-40	337.02
40-50	82.44
50-60	38.25
60-70	22.98
70-80	10.95
80-90	3.71
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

Light Distribution Curve [Unit:cd]





C0(Max):

C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:28.2 Right:28.2
:C90/270Left:28.2 Right:28.2

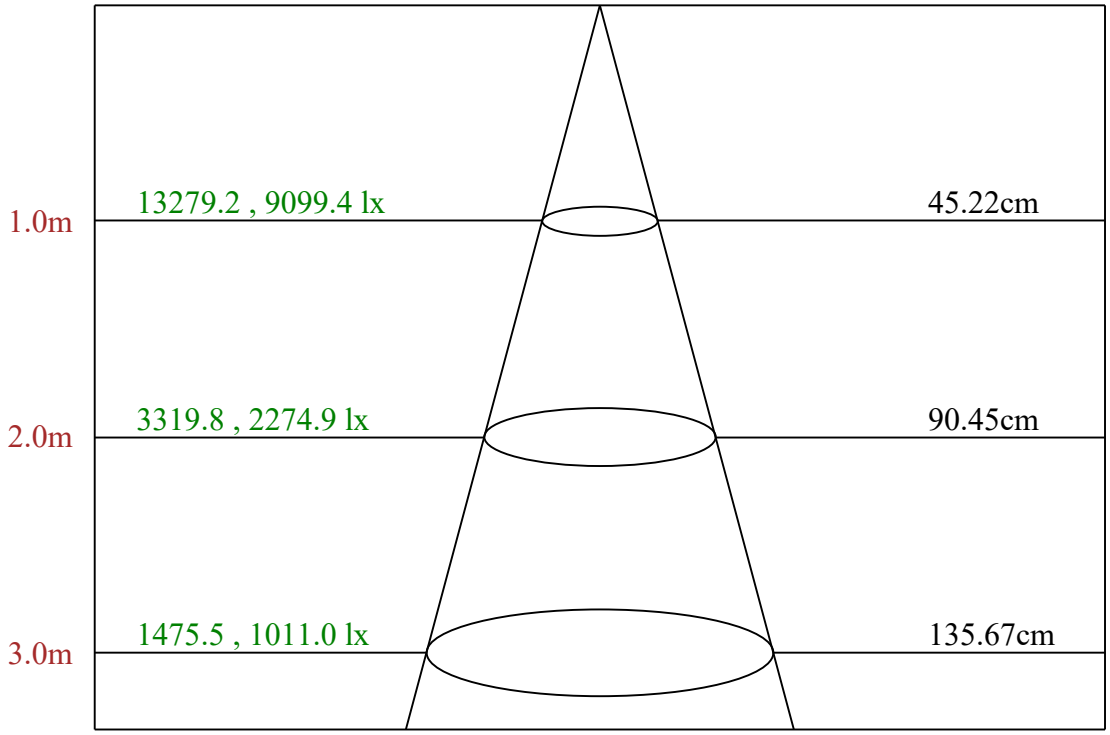
Beam Angle(50%Imax):C0/180Left:12.7 Right:12.7
:C90/270Left:12.7 Right:12.7

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Lux distance Curve

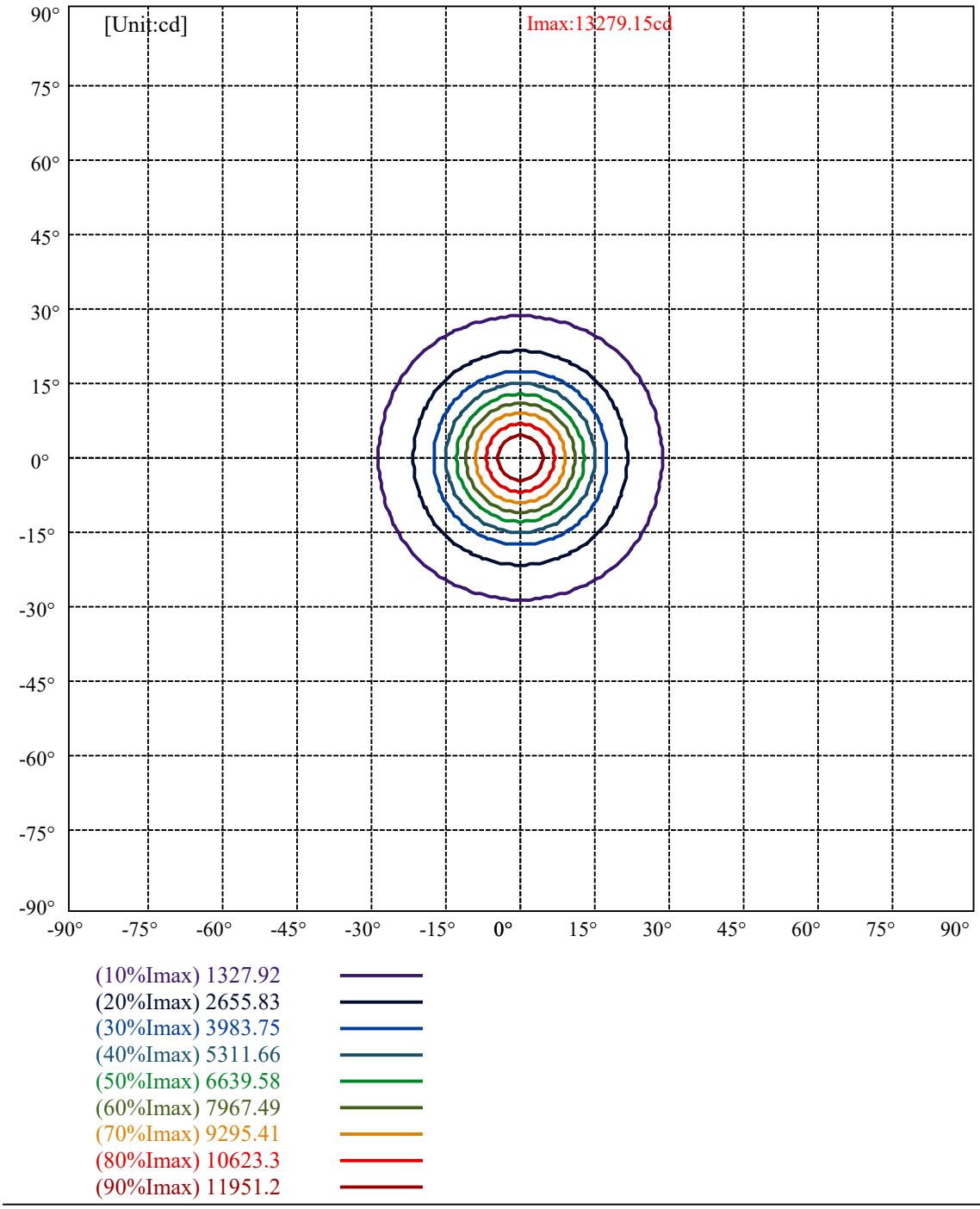


Max , Ave

Beam angle of C0 plane 25.48

Equipment: GMS 1800	Date: 2024/9/2	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25

ISO-Intensity(V-H)

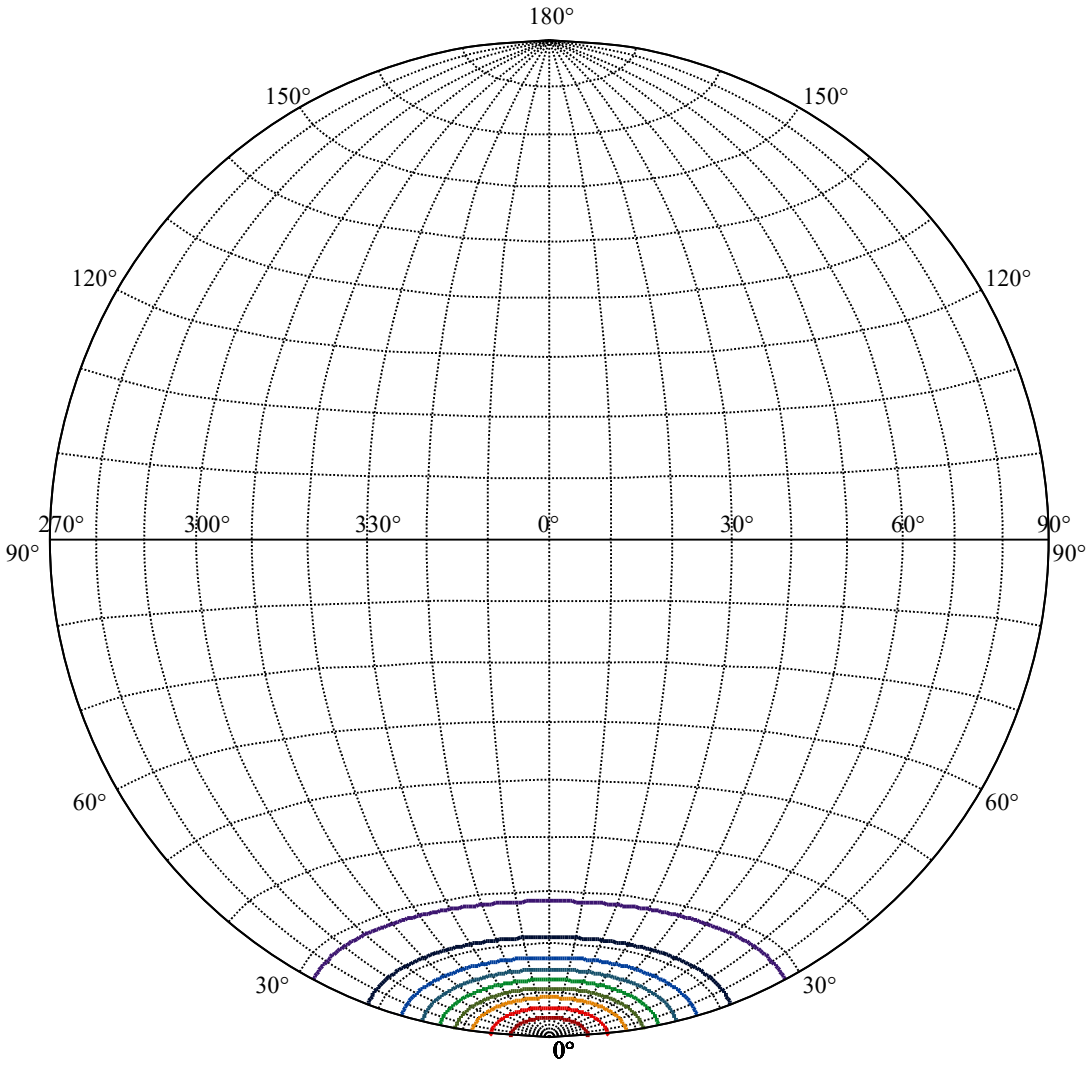


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web

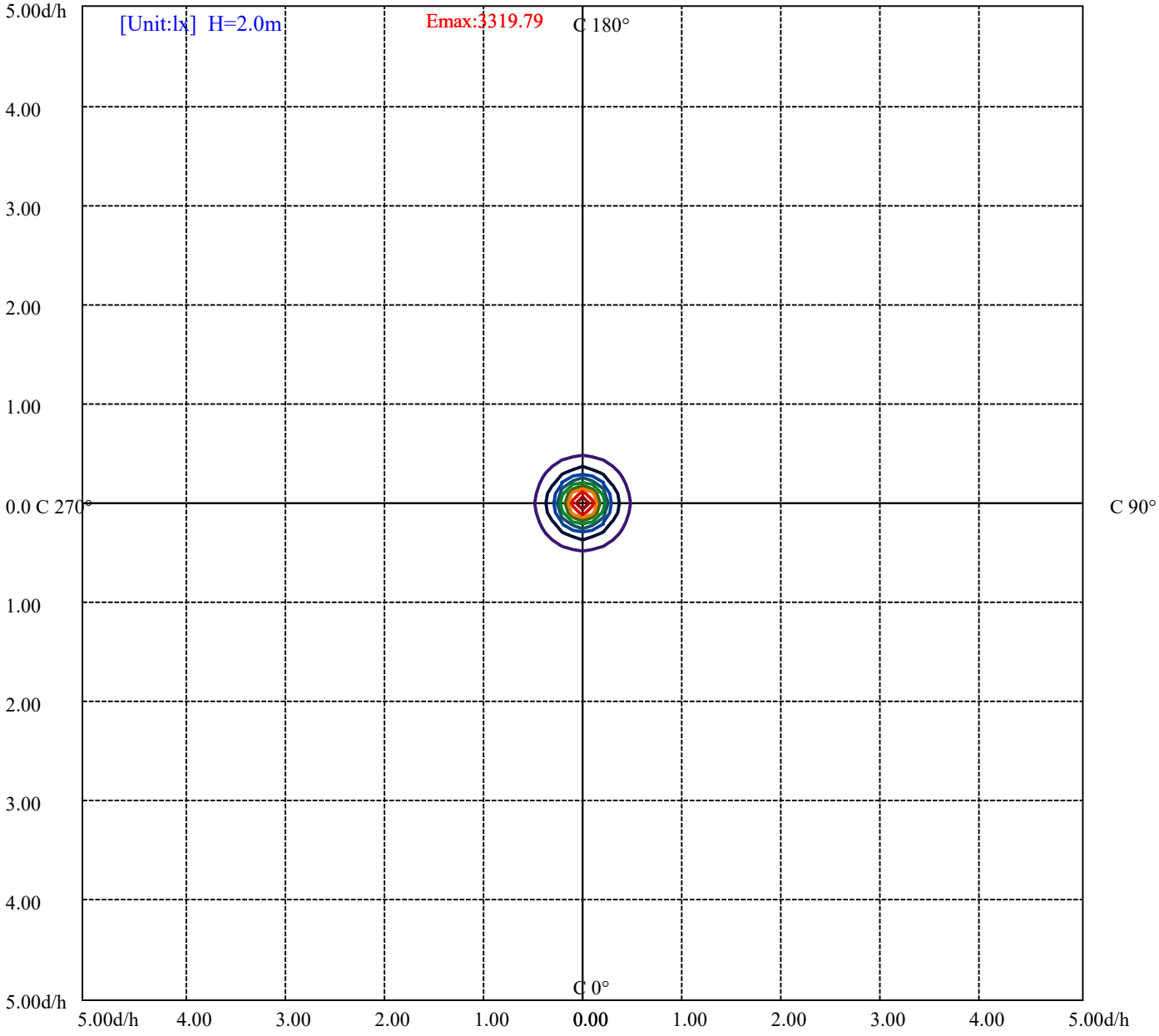


House [Unit:cd] Road

Imax:13279.15

(10%Imax) 1327.92
(20%Imax) 2655.83
(30%Imax) 3983.75
(40%Imax) 5311.66
(50%Imax) 6639.58
(60%Imax) 7967.49
(70%Imax) 9295.41
(80%Imax) 10623.3
(90%Imax) 11951.2

ISO illuminance diagram



(10%Emax) 331.9775
(20%Emax) 663.9575
(30%Emax) 995.935
(40%Emax) 1327.915
(50%Emax) 1659.892
(60%Emax) 1991.873
(70%Emax) 2323.85
(80%Emax) 2655.825
(90%Emax) 2987.8

Equipment: GMS 1800
Temperature(°C): 25.0
Date: 2024/9/2
Humidity(%): 60.0%
Operator: NT
Distance(m): 7.25

Luminance Limitting Curve(no luminous side)

Luminance Table

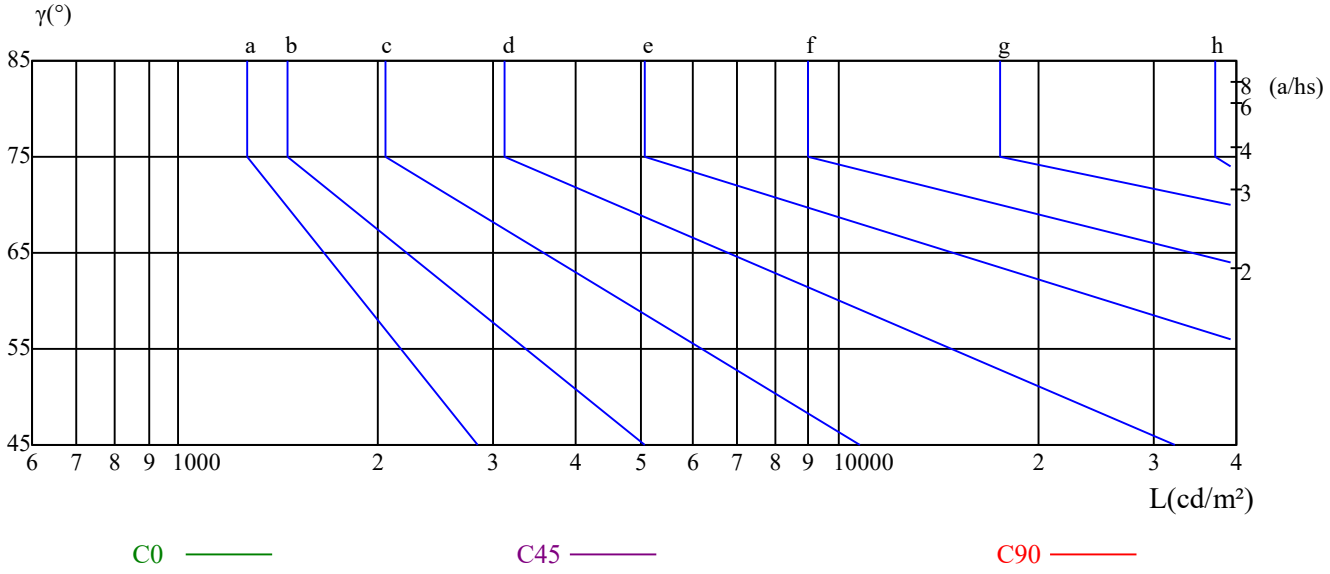
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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

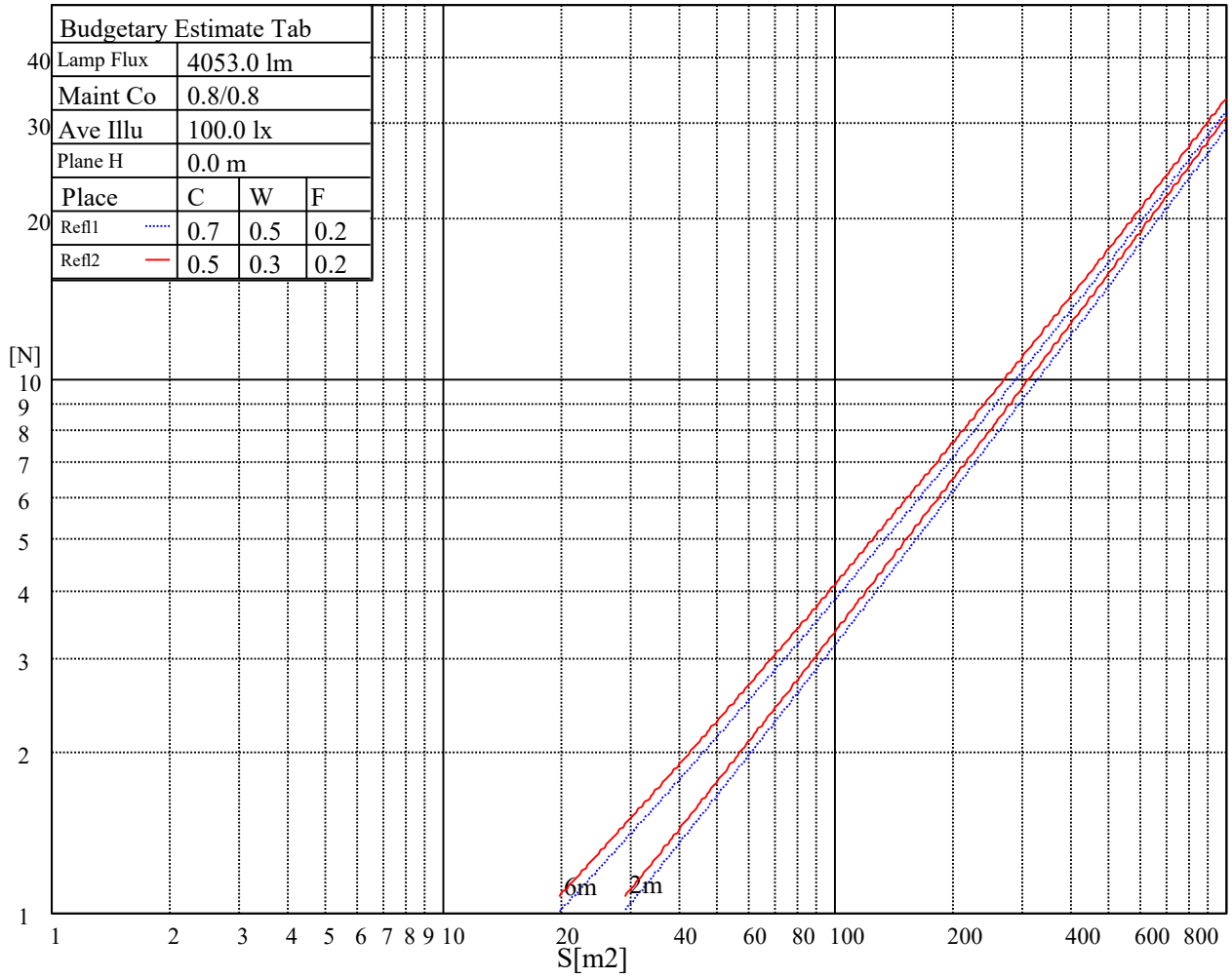


UGR Glare

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	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

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

Budgetary Estimate Table



Equipment: GMS 1800 Date: 2024/9/2 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.25

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	1.12	1.12	1.12	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.05	1.03	1.01	1.03	1.01	1.00	0.99	0.98	0.96	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.96	0.93	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.85
3	0.94	0.90	0.87	0.93	0.89	0.86	0.90	0.87	0.85	0.88	0.86	0.84	0.86	0.84	0.82	0.81
4	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.85	0.82	0.80	0.83	0.81	0.79	0.77
5	0.85	0.81	0.78	0.85	0.80	0.77	0.83	0.79	0.77	0.81	0.78	0.76	0.80	0.77	0.75	0.74
6	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
7	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	0.69	0.68
8	0.75	0.71	0.68	0.75	0.70	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.66
9	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.70	0.67	0.64	0.63
10	0.70	0.66	0.63	0.70	0.65	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.61

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	13319.55	13146.83	12840.39	12450.37	11114.60	10870.56	10733.47	10077.12	9390.13
45.0	13336.26	13202.54	12896.10	12472.66	11982.36	11436.34	10845.75	10216.15	9547.56
90.0	13074.40	12650.95	12160.65	11013.16	11013.16	10519.54	9729.48	8970.63	8383.35
135.0	13386.41	13152.40	12851.53	12277.65	11809.64	11246.90	10645.17	10010.00	9324.69
180.0	13319.55	13319.55	13180.26	12918.39	12522.81	12038.07	11475.34	10862.46	10500.31
225.0	13336.26	13347.41	13241.55	13068.82	12589.66	12088.22	10761.91	10761.91	10361.28
270.0	13074.40	13341.83	13481.12	13475.55	13358.55	13208.12	12678.81	12155.08	11792.92
315.0	13386.41	13486.70	13425.41	13247.12	12940.68	12494.95	11076.71	10945.19	10681.12
360.0	13319.55	13146.83	12840.39	12450.37	11114.60	10870.56	10733.47	10077.12	9390.13

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8656.94	8057.41	7305.24	6589.87	5902.35	5246.53	4642.00	4097.09	3629.07
45.0	8817.67	8076.65	7324.48	6605.74	5887.00	5474.70	4627.81	4098.51	3814.36
90.0	7485.22	6891.26	6165.32	5480.01	4868.23	4319.43	3832.44	3410.15	3049.62
135.0	8578.09	7848.21	7107.19	6399.59	5708.71	5067.97	4494.09	3981.50	3546.92
180.0	9848.43	9140.83	8394.23	7681.06	6956.75	6260.30	5574.99	4923.11	4360.37
225.0	9671.55	8936.05	8185.03	7451.79	6720.80	6023.24	5357.43	4751.76	4194.07
270.0	10851.32	10433.45	9720.28	9029.40	8288.37	7547.34	6845.32	6126.58	5469.13
315.0	9961.80	9259.78	8814.05	7762.11	7035.60	6611.05	5919.59	5258.25	4662.61
360.0	8656.94	8057.41	7305.24	6589.87	5902.35	5246.53	4642.00	4097.09	3629.07

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3227.92	2899.77	2622.29	2388.28	2196.64	2017.77	1855.09	1706.86	1556.43
45.0	3229.33	3017.61	2839.32	2839.32	2267.39	2078.53	1906.34	1742.55	1591.01
90.0	2757.69	2510.33	2293.04	2114.17	1949.81	1792.70	1645.57	1496.82	1350.86
135.0	3156.90	2839.32	2839.32	2783.60	2239.53	2046.73	1869.60	1701.29	1549.23
180.0	3864.50	3441.06	3073.33	2817.03	2817.03	2330.36	2059.03	1886.31	1788.23
225.0	3711.54	3304.81	2947.13	2756.59	2379.92	2244.00	2047.31	1866.81	1700.76
270.0	4839.53	4282.37	3780.93	3357.48	3006.47	2761.32	2761.32	2283.53	2095.25
315.0	4126.63	3664.76	3259.14	2922.63	2638.48	2401.11	2200.53	2016.09	1847.83
360.0	3227.92	2899.77	2622.29	2388.28	2196.64	2017.77	1855.09	1706.86	1556.43

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1413.25	1075.06	1075.06	1044.78	900.71	764.05	638.42	533.67	452.62
45.0	1447.26	1310.17	1173.67	1036.06	924.63	761.37	636.01	550.22	464.97
90.0	1065.18	1065.18	977.08	826.60	690.46	573.14	481.89	403.26	336.24
135.0	1398.79	1252.77	1105.70	957.48	814.88	681.68	567.46	477.79	400.89
180.0	1633.91	1480.69	1333.04	1183.13	1039.95	896.19	753.01	625.97	525.15
225.0	1542.50	1391.54	1056.72	1056.72	941.34	801.58	673.75	563.58	475.80
270.0	1847.83	1750.91	1585.97	1433.85	1284.00	1135.77	990.91	847.73	709.02
315.0	1689.62	1535.82	1384.86	1069.80	1069.80	982.66	839.27	703.97	587.96
360.0	1413.25	1075.06	1075.06	1044.78	900.71	764.05	638.42	533.67	452.62

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	383.71	326.47	275.80	231.59	194.11	163.63	138.50	118.00	101.24
45.0	392.54	331.25	277.21	277.21	192.17	160.37	134.35	113.59	96.50
90.0	281.00	233.90	194.38	162.68	136.24	114.48	97.40	84.15	76.01
135.0	337.92	293.93	293.93	204.89	170.93	142.86	120.00	101.55	87.04
180.0	442.10	373.04	314.53	293.35	293.35	184.49	154.32	134.30	113.85
225.0	402.37	341.55	309.12	245.31	206.52	185.91	157.37	133.56	113.54
270.0	590.33	499.50	424.28	360.21	304.49	283.89	283.89	185.81	151.12
315.0	495.82	420.13	355.74	300.87	252.67	211.72	177.08	148.75	125.41
360.0	383.71	326.47	275.80	231.59	194.11	163.63	138.50	118.00	101.24

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	88.15	80.26	70.91	66.07	61.18	57.29	53.82	50.67	47.99
45.0	83.42	73.90	66.33	62.86	57.71	52.67	50.83	47.57	44.78
90.0	66.70	62.13	57.71	53.09	50.14	46.99	44.57	42.58	40.53
135.0	76.43	68.44	62.39	57.87	54.67	51.88	48.83	45.89	43.78
180.0	96.61	84.05	74.53	67.54	62.23	58.45	55.09	51.62	48.41
225.0	97.35	84.89	75.58	68.54	62.60	57.87	54.40	51.14	48.04
270.0	130.93	110.43	94.40	81.79	72.69	65.81	60.29	55.82	52.19
315.0	106.23	91.09	79.68	71.17	64.18	60.87	55.09	53.14	50.09
360.0	88.15	80.26	70.91	66.07	61.18	57.29	53.82	50.67	47.99

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	45.83	43.57	40.95	38.48	36.37	34.32	32.12	29.44	27.44
45.0	42.68	41.00	38.58	36.32	34.43	32.59	30.49	28.12	26.33
90.0	38.16	35.85	34.38	32.59	30.54	27.96	26.18	24.65	23.13
135.0	41.79	40.42	37.37	36.27	34.64	32.85	30.70	28.38	26.54
180.0	45.89	43.84	41.84	39.47	37.06	35.22	33.69	31.64	30.28
225.0	45.36	43.26	41.31	39.00	36.64	35.37	33.75	30.85	29.28
270.0	48.88	45.78	43.36	41.31	39.47	37.27	35.11	34.22	31.96
315.0	46.04	44.73	42.84	41.05	38.58	36.58	34.85	33.32	31.27
360.0	45.83	43.57	40.95	38.48	36.37	34.32	32.12	29.44	27.44

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.76	24.07	22.13	20.18	19.40	17.50	15.98	14.98	13.61
45.0	24.76	23.34	21.45	19.66	18.61	17.03	15.72	14.45	12.98
90.0	21.34	19.55	18.71	17.14	15.87	14.82	13.04	12.40	11.46
135.0	25.18	23.71	21.81	20.13	18.87	17.50	15.93	14.40	13.25
180.0	27.12	26.23	24.76	22.34	21.03	19.40	18.08	16.87	15.30
225.0	26.96	25.28	23.76	21.97	20.13	18.71	17.56	16.14	14.61
270.0	29.91	28.44	25.76	24.97	23.55	21.76	19.87	18.50	17.24
315.0	28.80	26.91	25.34	23.86	22.02	20.29	18.92	17.71	16.45
360.0	25.76	24.07	22.13	20.18	19.40	17.50	15.98	14.98	13.61

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.51	11.46	10.46	9.51	8.73	7.94	7.25	6.52	5.89
45.0	12.19	11.25	10.25	9.41	8.62	7.88	7.10	6.47	5.78
90.0	10.51	9.57	8.78	8.04	7.31	6.62	5.94	5.41	4.73
135.0	12.19	11.25	10.30	9.36	8.52	7.94	7.10	6.57	5.89
180.0	13.67	12.56	11.62	10.67	9.67	8.83	8.09	7.41	6.68
225.0	13.19	12.19	11.25	10.30	9.36	8.57	7.83	7.10	6.62
270.0	16.03	14.40	13.14	12.04	11.14	10.20	9.30	8.46	7.67
315.0	14.45	13.35	12.46	11.41	10.46	9.51	8.67	7.88	7.15
360.0	12.51	11.46	10.46	9.51	8.73	7.94	7.25	6.52	5.89

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.26	4.73	4.10	3.57	3.15	2.79	2.42	2.10	1.52
45.0	5.15	4.57	3.94	3.31	2.89	2.47	2.10	1.68	1.42
90.0	4.15	3.73	3.15	2.84	2.42	2.10	1.79	1.47	1.47
135.0	5.05	4.57	4.10	3.47	3.05	2.63	2.26	1.94	1.47
180.0	5.99	5.31	4.63	4.15	3.47	3.05	2.68	2.26	1.89
225.0	5.83	5.31	4.78	4.15	3.57	3.00	2.52	2.21	1.89
270.0	6.94	6.36	5.57	4.99	4.36	3.84	3.36	3.00	2.63
315.0	6.57	5.78	5.26	4.63	4.05	3.63	3.10	2.73	2.42
360.0	5.26	4.73	4.10	3.57	3.15	2.79	2.42	2.10	1.52

Intensity data(cd)

C/γ(°)	90.0
0.0	1.47
45.0	1.42
90.0	1.52
135.0	1.52
180.0	1.52
225.0	1.68
270.0	2.26
315.0	2.21
360.0	1.47