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SOTEN

LumCAT: G1067
Luminaire: 1-0808-S 15°
Report No:
Test No:
LampCAT: LUMILEDS-5050-3090-9
Lamp flux(lm): 3600.0
Number of Lamps: 1
Length(mm): 105
Phm Type: C

Voltage(V): 230.8000
Current(A): 0.1320
Power (W): 28.9700
PF: 0.9500
Ballast type: LC 30/500/54 FLXC SR SNC2
Width(mm): 105
Height(mm): 10

Photometric Results

Lumens(lm): 3444.79
Efficiency(%): 95.69%
Lumens(lm)/Power(W): 118.91
Central intensity(cd): 24034.400
Maximum intensity(cd): 24034.400
Angle of maximum intensity: C=270.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=15.8
[C90/270]Total=15.8
Field angle(10%Imax): [C0/180]Total=30.3
[C90/270]Total=30.3
Maximum s/h(1/2): C0_180=0.28 C90_270=0.28
Maximum s/h(1/4): C0_180=0.28 C90_270=0.41
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 95.69%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.954%



Equipment: GMS-1800
Temperature(°C): 25.0
Date: 2022/8/29
Humidity(%): 65.0%
Operator: New
Distance(m): 7.18

SOTEN G1067

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	24034.400	.000	.000	.000%	.000%
2.0	23169.030	90.337	90.337	2.509%	2.509%
4.0	20872.130	252.752	343.089	7.021%	9.530%
6.0	16588.860	358.023	701.111	9.945%	19.475%
8.0	11728.870	378.432	1079.544	10.512%	29.987%
10.0	7699.165	333.270	1412.814	9.258%	39.245%
12.0	4486.026	254.957	1667.771	7.082%	46.327%
14.0	2846.498	180.874	1848.645	5.024%	51.351%
16.0	2080.230	139.827	1988.471	3.884%	55.235%
18.0	1658.494	119.865	2108.337	3.330%	58.565%
20.0	1399.516	109.173	2217.510	3.033%	61.598%
22.0	1280.669	105.324	2322.834	2.926%	64.523%
24.0	1204.135	106.465	2429.299	2.957%	67.481%
26.0	1155.895	109.371	2538.670	3.038%	70.519%
28.0	1120.952	113.349	2652.018	3.149%	73.667%
30.0	1092.555	117.676	2769.694	3.269%	76.936%
32.0	1066.219	121.922	2891.616	3.387%	80.323%
34.0	1025.040	124.897	3016.513	3.469%	83.792%
36.0	946.548	124.006	3140.519	3.445%	87.237%
38.0	770.545	113.316	3253.835	3.148%	90.384%
40.0	519.658	89.036	3342.871	2.473%	92.858%
42.0	290.623	58.293	3401.164	1.619%	94.477%
44.0	95.191	28.853	3430.017	.801%	95.278%
46.0	27.161	9.487	3439.504	.264%	95.542%
48.0	1.855	2.327	3441.831	.065%	95.606%
50.0	1.546	.282	3442.112	.008%	95.614%
52.0	1.392	.250	3442.363	.007%	95.621%
54.0	1.237	.230	3442.593	.006%	95.628%
56.0	1.134	.213	3442.806	.006%	95.633%
58.0	1.031	.199	3443.005	.006%	95.639%
60.0	.928	.184	3443.189	.005%	95.644%
62.0	.825	.168	3443.357	.005%	95.649%
64.0	.773	.156	3443.513	.004%	95.653%
66.0	.670	.143	3443.656	.004%	95.657%
68.0	.618	.130	3443.786	.004%	95.661%
70.0	.567	.121	3443.907	.003%	95.664%
72.0	.515	.112	3444.020	.003%	95.667%
74.0	.464	.103	3444.123	.003%	95.670%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	.412	.093	3444.215	.003%	95.673%
78.0	.412	.088	3444.303	.002%	95.675%
80.0	.412	.089	3444.392	.002%	95.678%
82.0	.361	.084	3444.476	.002%	95.680%
84.0	.361	.079	3444.555	.002%	95.682%
86.0	.361	.079	3444.634	.002%	95.684%
88.0	.361	.079	3444.713	.002%	95.686%
90.0	.361	.079	3444.792	.002%	95.689%

Zonal flux distribution table

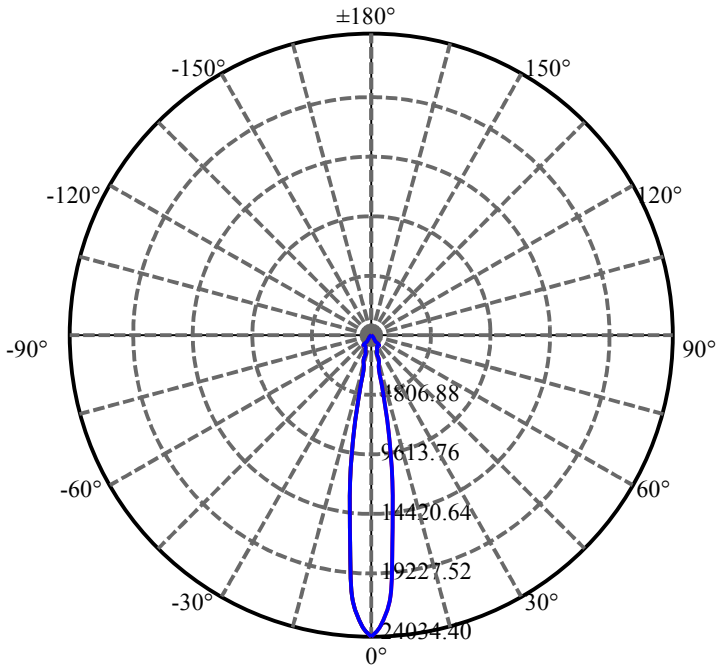
ZONAL LUMEN SUMMARY

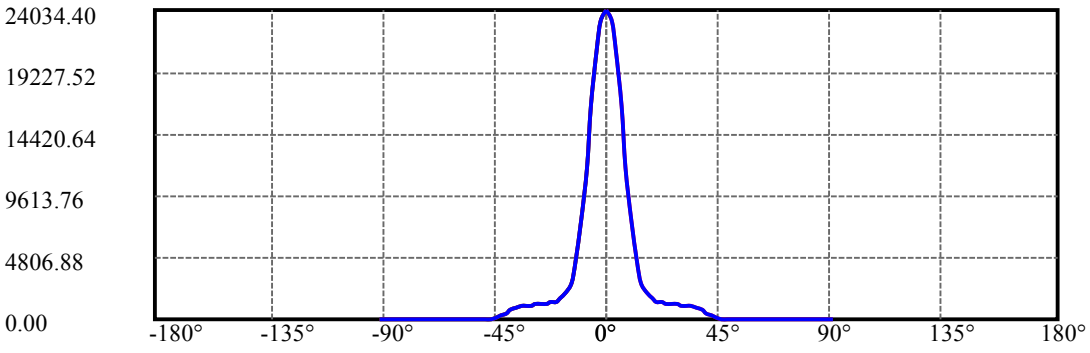
Zone	Lumens	%Lamp	%Fixt
0-30	2769.69	76.94%	80.40%
0-40	3342.87	92.86%	97.04%
0-60	3443.19	95.64%	99.95%
0-90	3444.71	95.69%	100.00%
0-120	3444.71	95.69%	100.00%
0-180	3444.79	95.69%	100.00%
60-90	1.71	0.05%	0.05%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.76	2755.83	76.55%	80.00%

ZONAL LUMEN SUMMARY

0-10	1412.81
10-20	804.70
20-30	552.18
30-40	573.18
40-50	99.24
50-60	1.08
60-70	0.72
70-80	0.48
80-90	0.32
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]



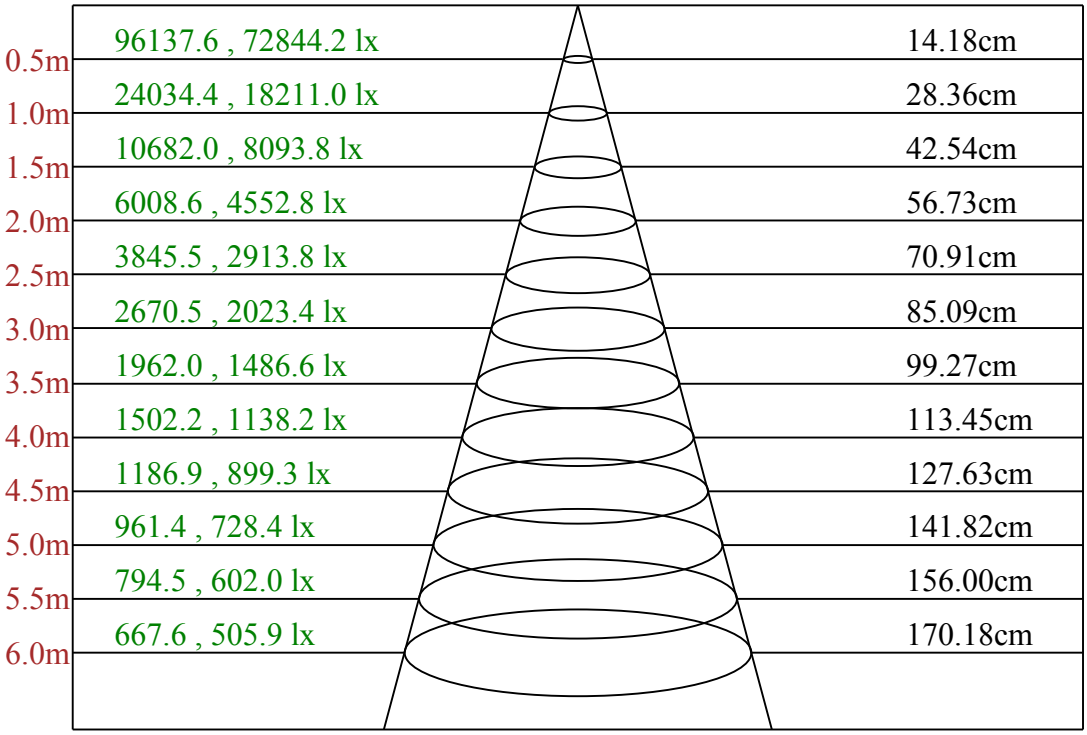


C270(Max):

C0/C180:

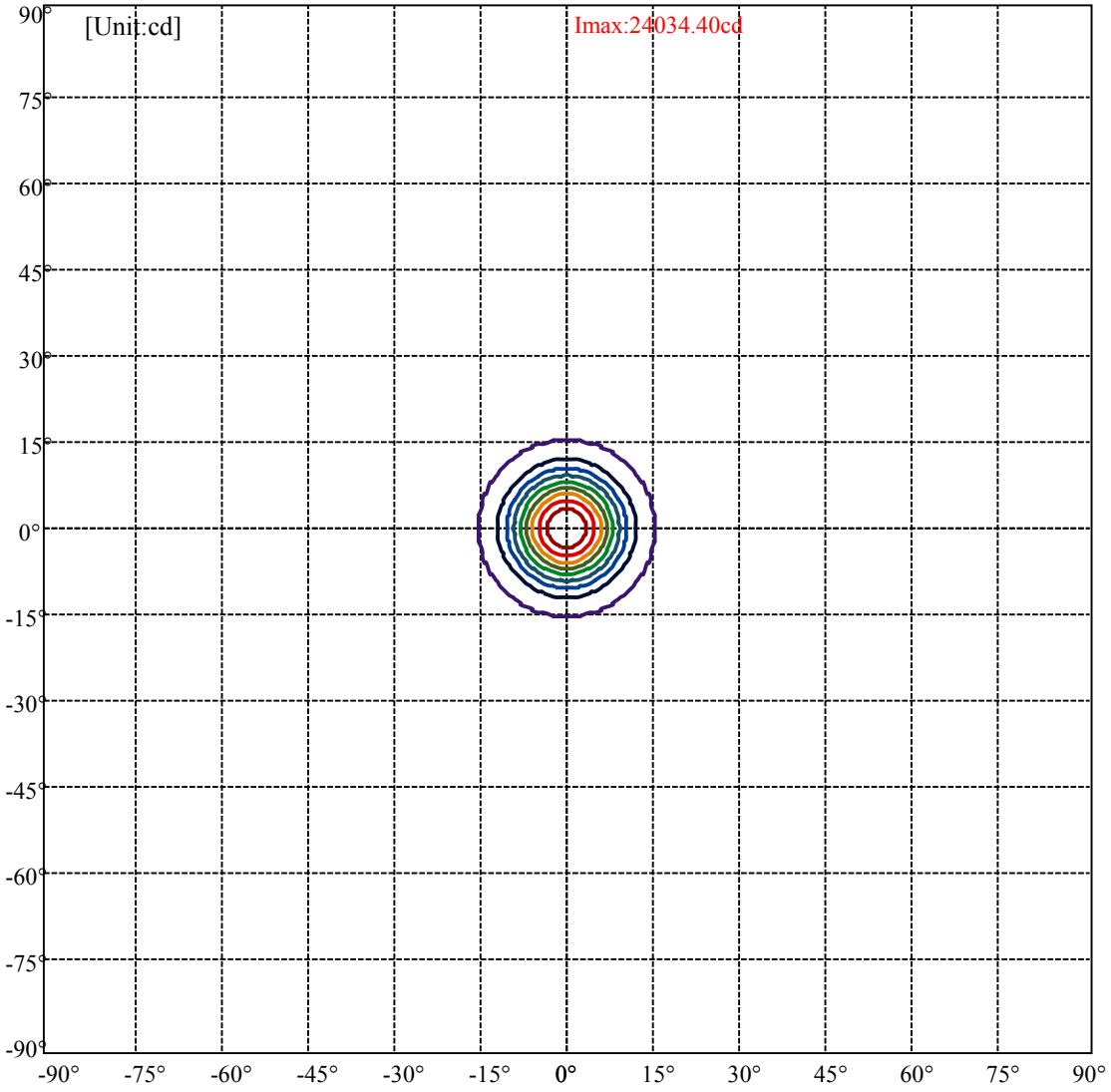
C90/C270:

Lux distance Curve



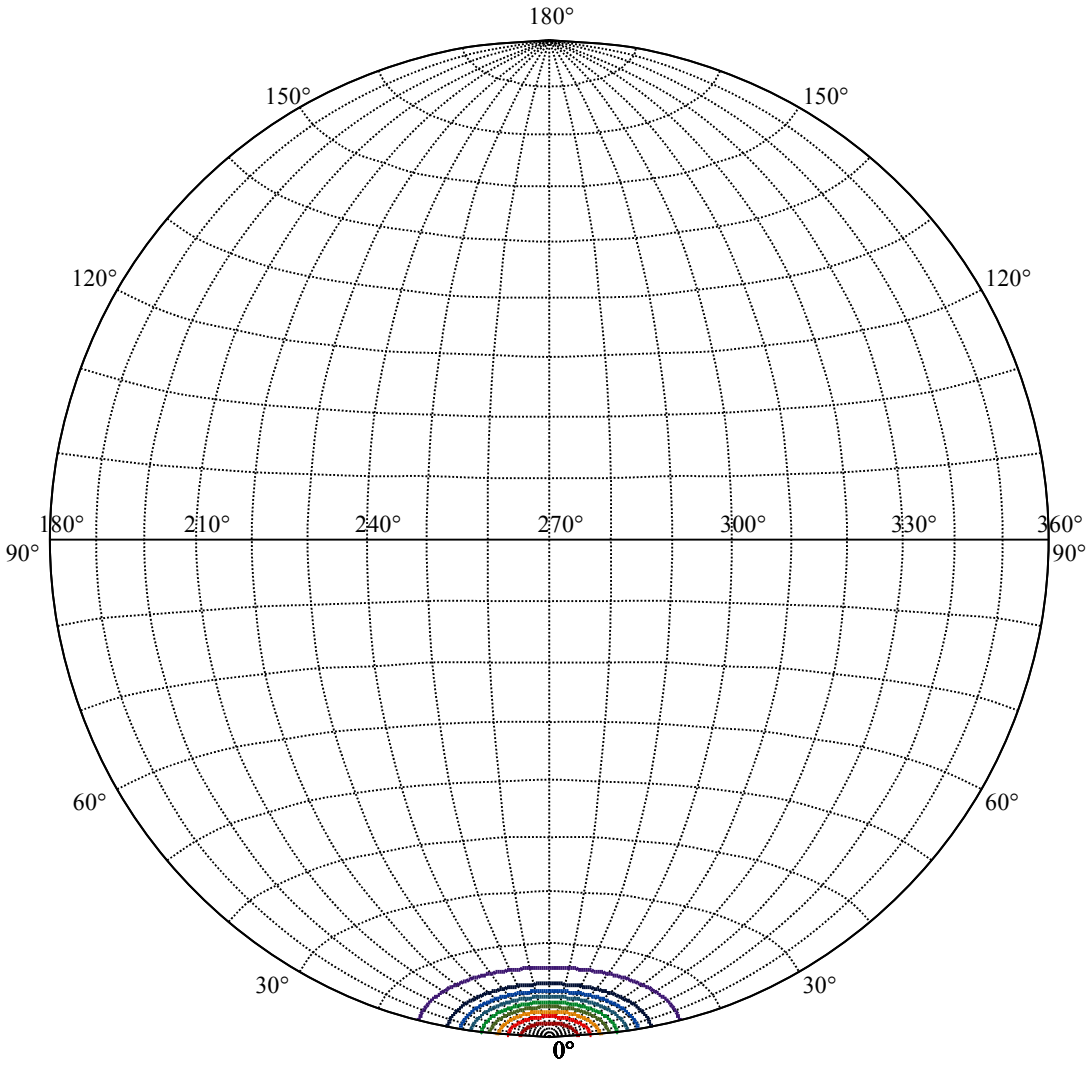
Max , Ave

Beam angle of C270plane16.14



(10%Imax) 2403.44
(20%Imax) 4806.88
(30%Imax) 7210.32
(40%Imax) 9613.76
(50%Imax) 12017.2
(60%Imax) 14420.6
(70%Imax) 16824.1
(80%Imax) 19227.5
(90%Imax) 21631

ISO candela diagram on circular web



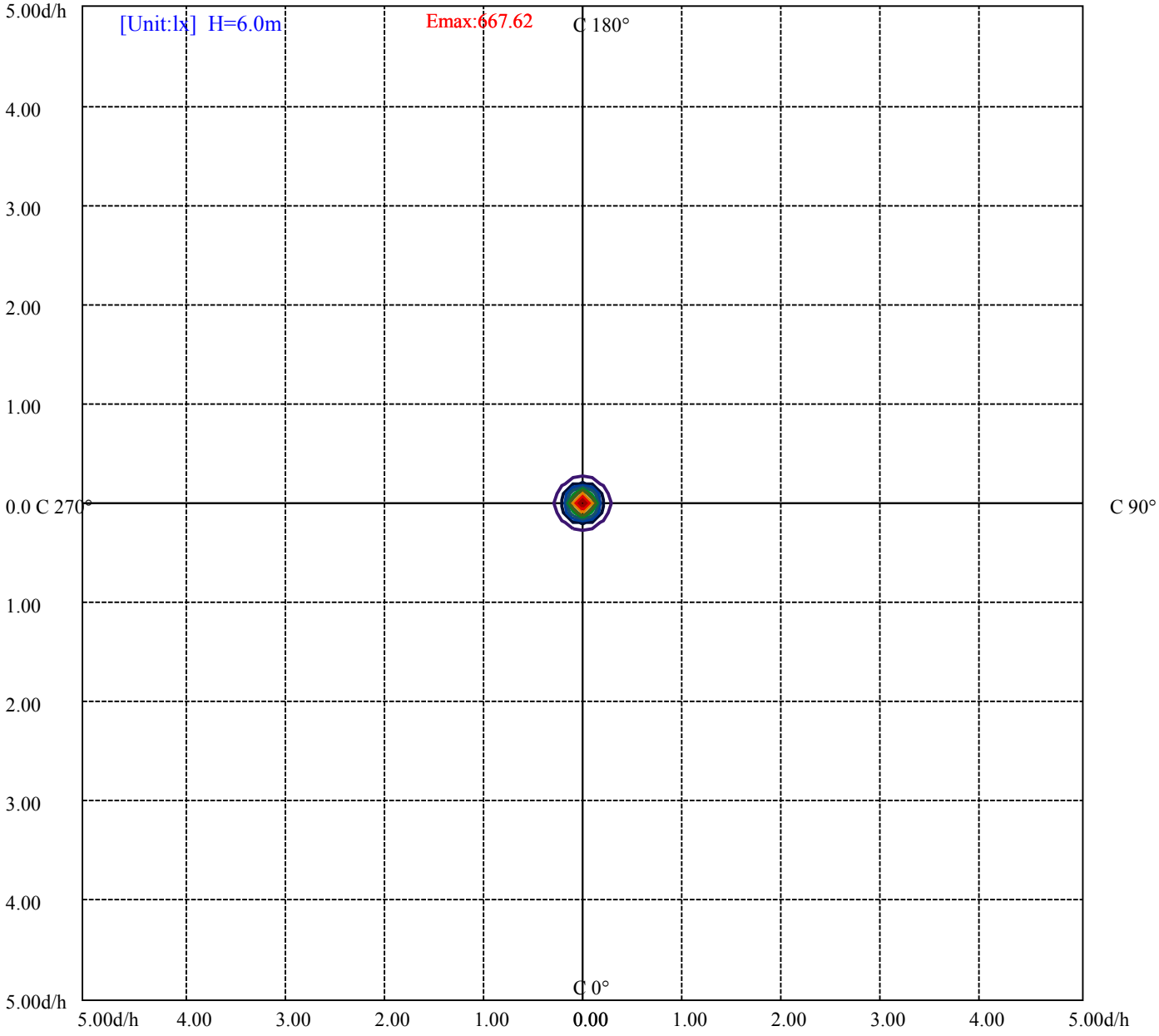
House [Unit:cd] Road

Imax:24034.40

(10%Imax) 2403.44
(20%Imax) 4806.88
(30%Imax) 7210.32
(40%Imax) 9613.76
(50%Imax) 12017.2
(60%Imax) 14420.6
(70%Imax) 16824.1
(80%Imax) 19227.5
(90%Imax) 21631

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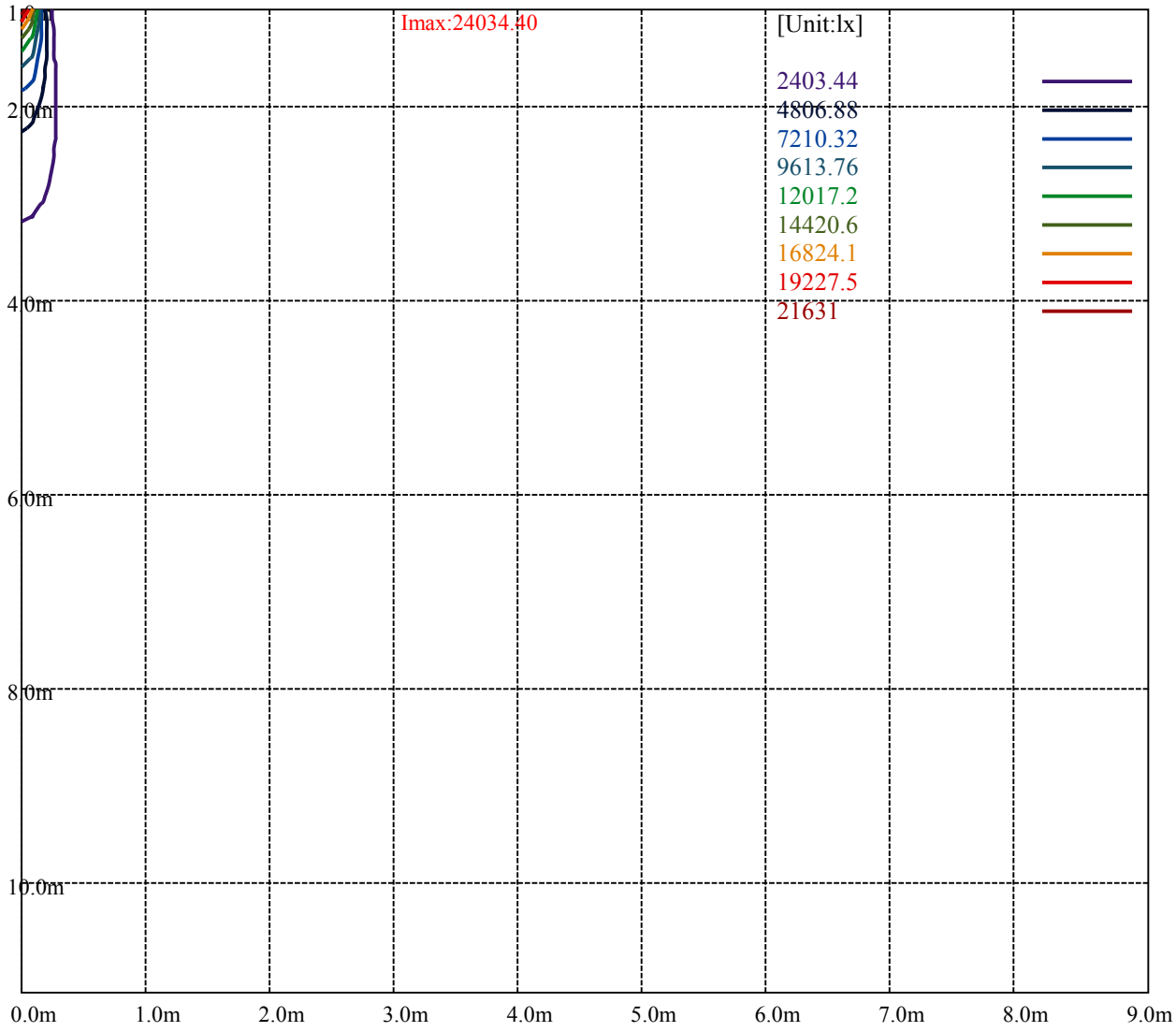
ISO illuminance diagram



(10%Emax) 66.76194
(20%Emax) 133.5242
(30%Emax) 200.2861
(40%Emax) 267.0483
(50%Emax) 333.8111
(60%Emax) 400.5722
(70%Emax) 467.3333
(80%Emax) 534.0972
(90%Emax) 600.8583

Equipment: GMS-1800
Temperature(°C): 25.0
Date: 2022/8/29
Humidity(%): 65.0%
Operator: New
Distance(m): 7.18

Space ISO Lux diagram



Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/29
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

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Luminance Limitting Curve(no luminous side)

Luminance Table

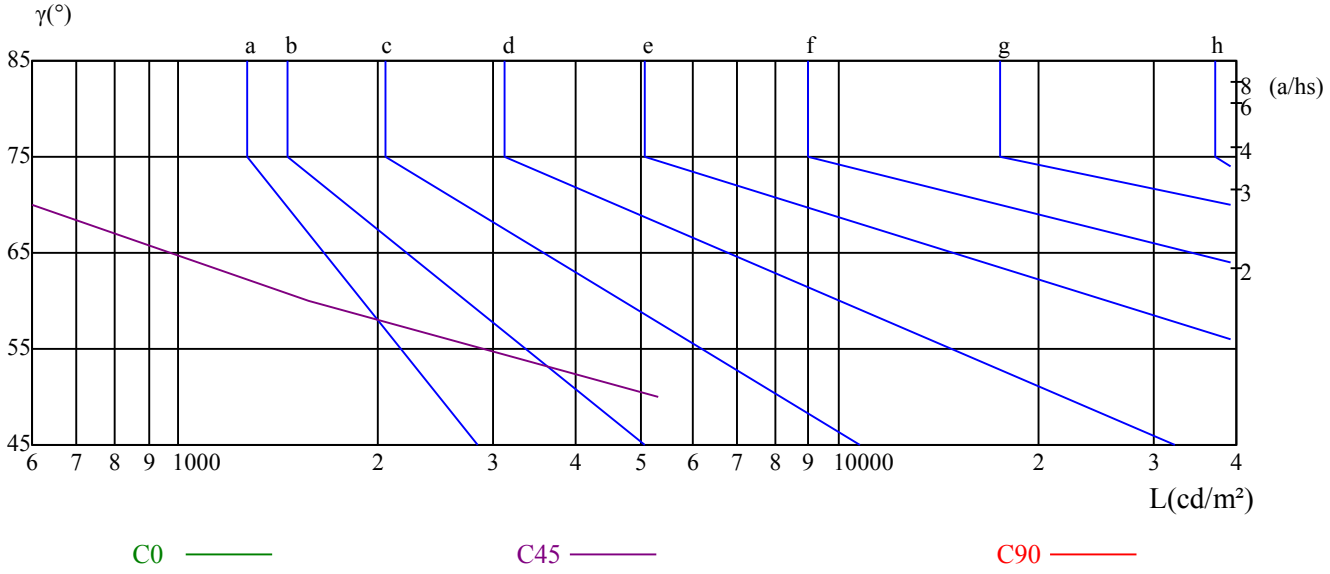
γ	45	50	55	60	65	70	75	80	85
C0	0	196	0	144	0	119	0	140	0
C45	0	5333	0	1577	0	449	0	122	0
C90	0	196	0	144	0	119	0	140	0

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
1471	1261	1750	415	406	578	429	349	375

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



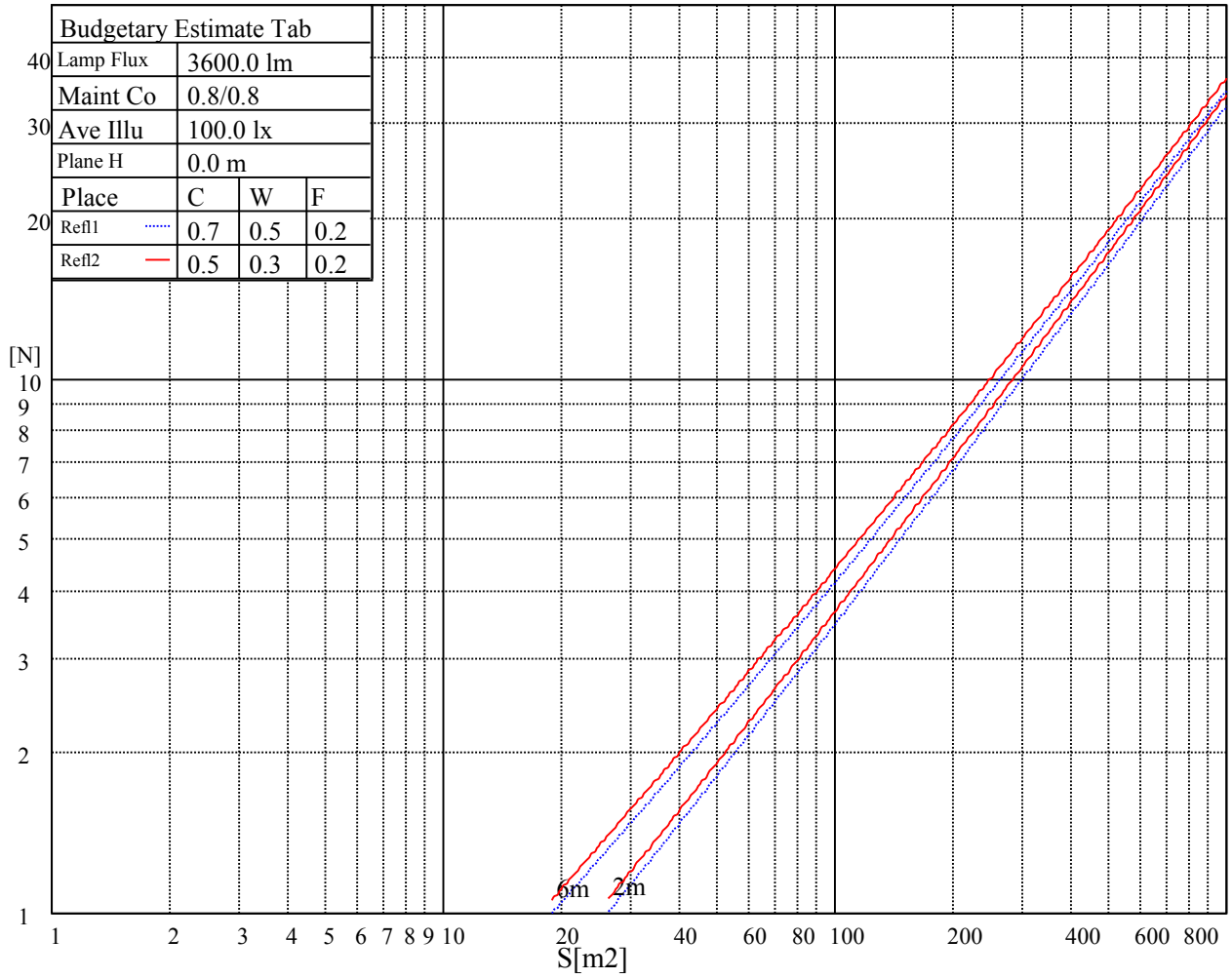
Illuminatin assessment according UGR

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	12.4	13.0	12.6	13.2	13.4	12.4	13.0	12.6	13.2	13.4
	3H	12.2	12.8	12.5	13.1	13.3	12.2	12.8	12.5	13.1	13.3
	4H	12.0	12.5	12.4	12.8	13.1	12.0	12.5	12.4	12.8	13.1
	6H	12.0	12.5	12.4	12.8	13.1	12.0	12.5	12.4	12.8	13.1
	8H	12.0	12.5	12.4	12.8	13.1	12.0	12.5	12.4	12.8	13.1
	12H	11.8	12.2	12.2	12.6	13.0	11.8	12.2	12.2	12.6	13.0
4H	2H	12.0	12.5	12.4	12.8	13.1	12.0	12.5	12.4	12.8	13.1
	3H	11.8	12.2	12.2	12.6	13.0	11.8	12.2	12.2	12.6	13.0
	4H	11.8	12.2	12.2	12.6	13.0	11.8	12.2	12.2	12.6	13.0
	6H	11.8	12.2	12.2	12.6	13.0	11.8	12.2	12.2	12.6	13.0
	8H	11.6	11.8	12.1	12.3	12.8	11.6	11.8	12.1	12.3	12.8
	12H	11.6	11.8	12.1	12.3	12.8	11.6	11.8	12.1	12.3	12.8
8H	4H	11.6	11.8	12.1	12.3	12.8	11.6	11.8	12.1	12.3	12.8
	6H	11.6	11.8	12.1	12.3	12.8	11.6	11.8	12.1	12.3	12.8
	8H	11.6	11.8	12.1	12.3	12.8	11.6	11.8	12.1	12.3	12.8
	12H	11.6	11.8	12.1	12.3	12.8	11.6	11.8	12.1	12.3	12.8
12H	4H	11.6	11.8	12.1	12.3	12.8	11.6	11.8	12.1	12.3	12.8
	6H	11.6	11.8	12.1	12.3	12.8	11.6	11.8	12.1	12.3	12.8
	8H	11.6	11.8	12.1	12.3	12.8	11.6	11.8	12.1	12.3	12.8

Variation with the observer position at spacings:

S = 1.0H	4.3/-30.4	4.3/-30.4
S = 1.5H	7.1/-29.3	7.1/-29.3
S = 2.0H	9.1/-28.4	9.1/-28.4
Standard tables:	BK0	BK0
Uncorrected UGR	-0.9	-0.9

Budgetary Estimate Table

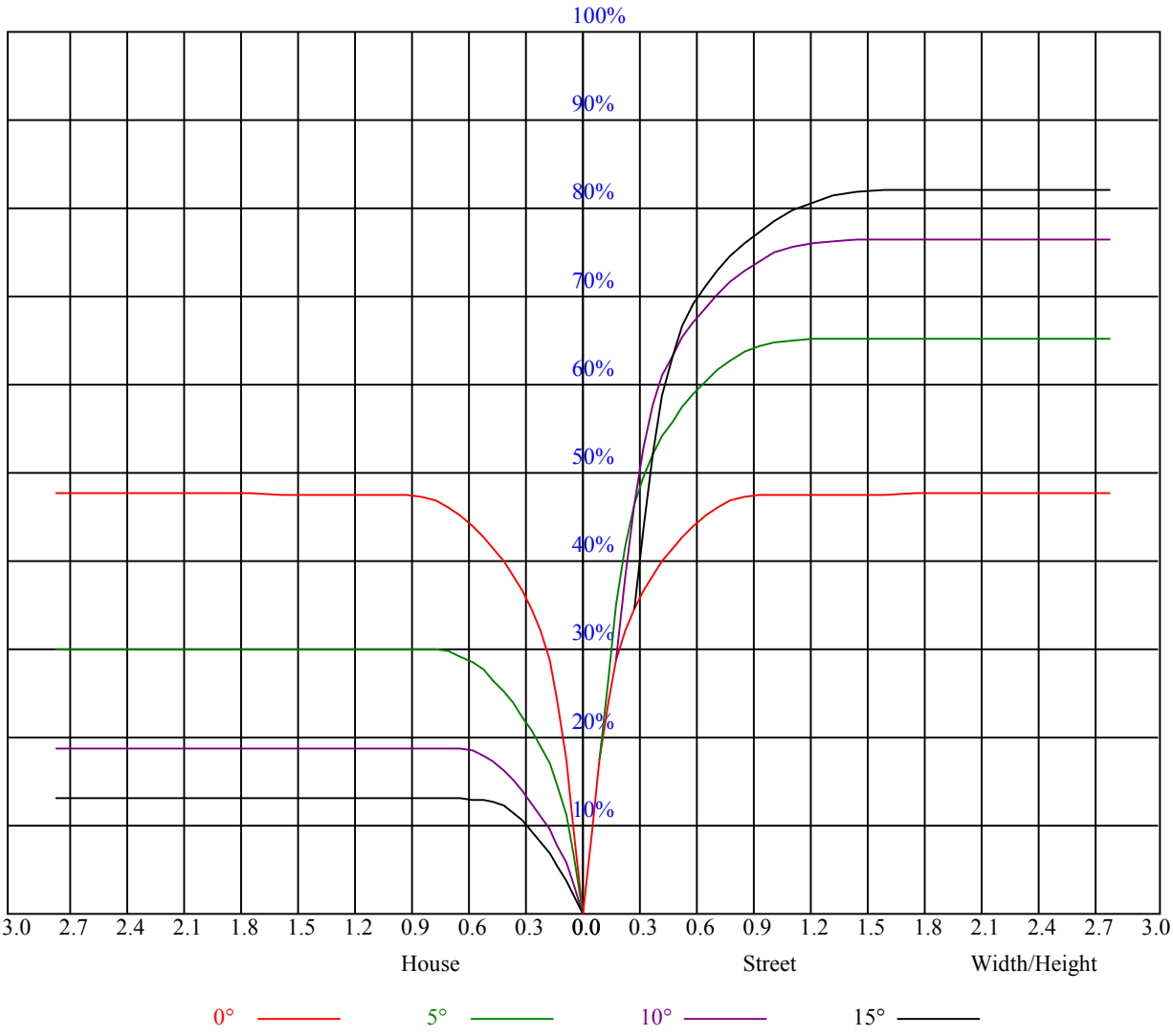


Equipment: GMS-1800 Date: 2022/8/29 Operator: New
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.18

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	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.08	1.06	1.04	1.06	1.04	1.02	1.02	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92
2	1.02	0.99	0.96	1.00	0.98	0.95	0.97	0.95	0.93	0.95	0.93	0.91	0.92	0.91	0.89	0.88
3	0.97	0.93	0.90	0.96	0.92	0.90	0.93	0.91	0.88	0.91	0.89	0.87	0.89	0.87	0.86	0.84
4	0.93	0.89	0.86	0.92	0.88	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.81
5	0.89	0.85	0.81	0.88	0.84	0.81	0.86	0.83	0.80	0.85	0.82	0.80	0.84	0.81	0.79	0.78
6	0.85	0.81	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.75
7	0.82	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.74	0.72
8	0.79	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
9	0.77	0.73	0.70	0.76	0.72	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.68
10	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66

Coefficient Utilization Curve



Equipment: GMS-1800
Temperature(°C): 25.0

Date: 2022/8/29
Humidity(%): 65.0%

Operator: New
Distance(m): 7.18

Intensity data(cd)

C/γ(°)	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
0.0	24034.40	23169.03	20872.13	16588.86	11728.87	7699.17	4486.03	2846.50	2080.23
30.0	24034.40	23169.03	20872.13	16588.86	11728.87	7699.17	4486.03	2846.50	2080.23
60.0	24034.40	23169.03	20872.13	16588.86	11728.87	7699.17	4486.03	2846.50	2080.23
90.0	24034.40	23169.03	20872.13	16588.86	11728.87	7699.17	4486.03	2846.50	2080.23
120.0	24034.40	23169.03	20872.13	16588.86	11728.87	7699.17	4486.03	2846.50	2080.23
150.0	24034.40	23169.03	20872.13	16588.86	11728.87	7699.17	4486.03	2846.50	2080.23
180.0	24034.40	23169.03	20872.13	16588.86	11728.87	7699.17	4486.03	2846.50	2080.23
210.0	24034.40	23169.03	20872.13	16588.86	11728.87	7699.17	4486.03	2846.50	2080.23
240.0	24034.40	23169.03	20872.13	16588.86	11728.87	7699.17	4486.03	2846.50	2080.23
270.0	24034.40	23169.03	20872.13	16588.86	11728.87	7699.17	4486.03	2846.50	2080.23
300.0	24034.40	23169.03	20872.13	16588.86	11728.87	7699.17	4486.03	2846.50	2080.23
330.0	24034.40	23169.03	20872.13	16588.86	11728.87	7699.17	4486.03	2846.50	2080.23
360.0	24034.40	23169.03	20872.13	16588.86	11728.87	7699.17	4486.03	2846.50	2080.23

C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	1658.49	1399.52	1280.67	1204.14	1155.90	1120.95	1092.56	1066.22	1025.04
30.0	1658.49	1399.52	1280.67	1204.14	1155.90	1120.95	1092.56	1066.22	1025.04
60.0	1658.49	1399.52	1280.67	1204.14	1155.90	1120.95	1092.56	1066.22	1025.04
90.0	1658.49	1399.52	1280.67	1204.14	1155.90	1120.95	1092.56	1066.22	1025.04
120.0	1658.49	1399.52	1280.67	1204.14	1155.90	1120.95	1092.56	1066.22	1025.04
150.0	1658.49	1399.52	1280.67	1204.14	1155.90	1120.95	1092.56	1066.22	1025.04
180.0	1658.49	1399.52	1280.67	1204.14	1155.90	1120.95	1092.56	1066.22	1025.04
210.0	1658.49	1399.52	1280.67	1204.14	1155.90	1120.95	1092.56	1066.22	1025.04
240.0	1658.49	1399.52	1280.67	1204.14	1155.90	1120.95	1092.56	1066.22	1025.04
270.0	1658.49	1399.52	1280.67	1204.14	1155.90	1120.95	1092.56	1066.22	1025.04
300.0	1658.49	1399.52	1280.67	1204.14	1155.90	1120.95	1092.56	1066.22	1025.04
330.0	1658.49	1399.52	1280.67	1204.14	1155.90	1120.95	1092.56	1066.22	1025.04
360.0	1658.49	1399.52	1280.67	1204.14	1155.90	1120.95	1092.56	1066.22	1025.04

C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	946.55	770.55	519.66	290.62	95.19	27.16	1.86	1.55	1.39
30.0	946.55	770.55	519.66	290.62	95.19	27.16	1.86	1.55	1.39
60.0	946.55	770.55	519.66	290.62	95.19	27.16	1.86	1.55	1.39
90.0	946.55	770.55	519.66	290.62	95.19	27.16	1.86	1.55	1.39
120.0	946.55	770.55	519.66	290.62	95.19	27.16	1.86	1.55	1.39
150.0	946.55	770.55	519.66	290.62	95.19	27.16	1.86	1.55	1.39
180.0	946.55	770.55	519.66	290.62	95.19	27.16	1.86	1.55	1.39
210.0	946.55	770.55	519.66	290.62	95.19	27.16	1.86	1.55	1.39
240.0	946.55	770.55	519.66	290.62	95.19	27.16	1.86	1.55	1.39
270.0	946.55	770.55	519.66	290.62	95.19	27.16	1.86	1.55	1.39
300.0	946.55	770.55	519.66	290.62	95.19	27.16	1.86	1.55	1.39
330.0	946.55	770.55	519.66	290.62	95.19	27.16	1.86	1.55	1.39
360.0	946.55	770.55	519.66	290.62	95.19	27.16	1.86	1.55	1.39

C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	1.24	1.13	1.03	0.93	0.82	0.77	0.67	0.62	0.57
30.0	1.24	1.13	1.03	0.93	0.82	0.77	0.67	0.62	0.57
60.0	1.24	1.13	1.03	0.93	0.82	0.77	0.67	0.62	0.57
90.0	1.24	1.13	1.03	0.93	0.82	0.77	0.67	0.62	0.57
120.0	1.24	1.13	1.03	0.93	0.82	0.77	0.67	0.62	0.57
150.0	1.24	1.13	1.03	0.93	0.82	0.77	0.67	0.62	0.57
180.0	1.24	1.13	1.03	0.93	0.82	0.77	0.67	0.62	0.57
210.0	1.24	1.13	1.03	0.93	0.82	0.77	0.67	0.62	0.57
240.0	1.24	1.13	1.03	0.93	0.82	0.77	0.67	0.62	0.57
270.0	1.24	1.13	1.03	0.93	0.82	0.77	0.67	0.62	0.57
300.0	1.24	1.13	1.03	0.93	0.82	0.77	0.67	0.62	0.57
330.0	1.24	1.13	1.03	0.93	0.82	0.77	0.67	0.62	0.57
360.0	1.24	1.13	1.03	0.93	0.82	0.77	0.67	0.62	0.57

Intensity data(cd)

C/γ(°)	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0
0.0	0.52	0.46	0.41	0.41	0.41	0.36	0.36	0.36	0.36
30.0	0.52	0.46	0.41	0.41	0.41	0.36	0.36	0.36	0.36
60.0	0.52	0.46	0.41	0.41	0.41	0.36	0.36	0.36	0.36
90.0	0.52	0.46	0.41	0.41	0.41	0.36	0.36	0.36	0.36
120.0	0.52	0.46	0.41	0.41	0.41	0.36	0.36	0.36	0.36
150.0	0.52	0.46	0.41	0.41	0.41	0.36	0.36	0.36	0.36
180.0	0.52	0.46	0.41	0.41	0.41	0.36	0.36	0.36	0.36
210.0	0.52	0.46	0.41	0.41	0.41	0.36	0.36	0.36	0.36
240.0	0.52	0.46	0.41	0.41	0.41	0.36	0.36	0.36	0.36
270.0	0.52	0.46	0.41	0.41	0.41	0.36	0.36	0.36	0.36
300.0	0.52	0.46	0.41	0.41	0.41	0.36	0.36	0.36	0.36
330.0	0.52	0.46	0.41	0.41	0.41	0.36	0.36	0.36	0.36
360.0	0.52	0.46	0.41	0.41	0.41	0.36	0.36	0.36	0.36

C/γ(°)	90.0
0.0	0.36
30.0	0.36
60.0	0.36
90.0	0.36
120.0	0.36
150.0	0.36
180.0	0.36
210.0	0.36
240.0	0.36
270.0	0.36
300.0	0.36
330.0	0.36
360.0	0.36