NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86 750 3771111
Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client: NT
LumCAT: 61-0175
Luminaire:
Report No: 20260328-B008
Ballast type: AC

Test No: 20260328-C008	Voltage(V): 4.090
LampCAT: LUMINUS SFT-12R	Current(A): 0.706
Lamp flux(lm): 303.5	Power (W): 2.887
Number of Lamps: 1	PF: 0.000
Length(mm): 35	Width(mm): 35
Phm Type: C	Height(mm): 18

Photometric Results

Lumens(lm): 283.13, Efficiency(%): 93.29% , Luminous Efficacy(lm/W): 98.07
Central intensity(cd): 16229.250, Maximum intensity(cd): 19576.130
Angle of maximum intensity: C=135.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=3.6
[C90/270]Total=5.0
Field angle(10%Imax): [C0/180]Total=9.2
[C90/270]Total=9.5
Maximum s/h(1/2): C0_180=0.10 C90_270=0.06
Maximum s/h(1/4): C0_180=0.13 C90_270=0.06
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.04%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 94.360%

Equipment: GMS 1800	Date: 2026/3/28	Operator: 杨泽全
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.50

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	16025.330	0.000	0	0.00%	0.00%
1.0	13779.886	14.261	14.261	4.70%	5.04%
2.0	10805.175	35.287	49.548	11.63%	17.50%
3.0	5456.250	38.892	88.44	12.81%	31.24%
4.0	3022.706	28.382	116.822	9.35%	41.26%
5.0	2790.766	25.009	141.831	8.24%	50.09%
6.0	1140.947	20.662	162.493	6.81%	57.39%
7.0	704.988	11.458	173.951	3.78%	61.44%
8.0	574.088	9.154	183.105	3.02%	64.67%
9.0	471.755	8.476	191.581	2.79%	67.67%
10.0	381.213	7.719	199.3	2.54%	70.39%
11.0	320.288	7.009	206.31	2.31%	72.87%
12.0	272.848	6.484	212.793	2.14%	75.16%
13.0	228.593	5.951	218.744	1.96%	77.26%
14.0	172.350	5.132	223.876	1.69%	79.07%
15.0	126.436	4.102	227.978	1.35%	80.52%
16.0	100.477	3.325	231.303	1.10%	81.70%
17.0	79.446	2.802	234.105	0.92%	82.68%
18.0	64.167	2.368	236.473	0.78%	83.52%
19.0	53.318	2.044	238.517	0.67%	84.24%
20.0	45.534	1.809	240.326	0.60%	84.88%
21.0	38.869	1.621	241.947	0.53%	85.45%
22.0	33.659	1.457	243.404	0.48%	85.97%
23.0	28.807	1.311	244.715	0.43%	86.43%
24.0	25.355	1.184	245.899	0.39%	86.85%
25.0	22.598	1.090	246.989	0.36%	87.24%
26.0	19.666	0.998	247.987	0.33%	87.59%
27.0	17.360	0.906	248.893	0.30%	87.91%
28.0	15.370	0.829	249.722	0.27%	88.20%
29.0	13.795	0.763	250.485	0.25%	88.47%
30.0	12.185	0.701	251.186	0.23%	88.72%
31.0	10.856	0.641	251.827	0.21%	88.94%
32.0	10.013	0.598	252.425	0.20%	89.16%
33.0	9.267	0.568	252.993	0.19%	89.36%
34.0	8.634	0.542	253.535	0.18%	89.55%
35.0	8.121	0.520	254.055	0.17%	89.73%
36.0	7.643	0.502	254.557	0.17%	89.91%
37.0	7.270	0.486	255.044	0.16%	90.08%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	7.010	0.477	255.52	0.16%	90.25%
39.0	6.659	0.467	255.987	0.15%	90.41%
40.0	6.434	0.457	256.443	0.15%	90.57%
41.0	6.251	0.452	256.895	0.15%	90.73%
42.0	6.110	0.449	257.344	0.15%	90.89%
43.0	5.977	0.448	257.792	0.15%	91.05%
44.0	5.864	0.447	258.239	0.15%	91.21%
45.0	5.829	0.449	258.688	0.15%	91.37%
46.0	5.801	0.455	259.143	0.15%	91.53%
47.0	5.752	0.459	259.602	0.15%	91.69%
48.0	5.801	0.467	260.069	0.15%	91.86%
49.0	5.843	0.478	260.548	0.16%	92.02%
50.0	5.871	0.488	261.036	0.16%	92.20%
51.0	5.913	0.499	261.535	0.16%	92.37%
52.0	5.963	0.510	262.044	0.17%	92.55%
53.0	5.970	0.519	262.563	0.17%	92.74%
54.0	6.019	0.528	263.092	0.17%	92.92%
55.0	6.075	0.540	263.632	0.18%	93.11%
56.0	6.061	0.548	264.18	0.18%	93.31%
57.0	6.047	0.554	264.733	0.18%	93.50%
58.0	6.033	0.559	265.292	0.18%	93.70%
59.0	6.061	0.565	265.857	0.19%	93.90%
60.0	6.209	0.580	266.437	0.19%	94.10%
61.0	6.272	0.596	267.033	0.20%	94.31%
62.0	6.342	0.608	267.641	0.20%	94.53%
63.0	6.476	0.623	268.264	0.21%	94.75%
64.0	6.652	0.644	268.908	0.21%	94.98%
65.0	6.827	0.667	269.575	0.22%	95.21%
66.0	6.975	0.689	270.264	0.23%	95.46%
67.0	7.214	0.713	270.977	0.24%	95.71%
68.0	7.495	0.745	271.722	0.25%	95.97%
69.0	7.657	0.773	272.495	0.25%	96.24%
70.0	7.685	0.788	273.283	0.26%	96.52%
71.0	7.411	0.780	274.064	0.26%	96.80%
72.0	7.052	0.752	274.816	0.25%	97.06%
73.0	6.666	0.717	275.533	0.24%	97.32%
74.0	6.420	0.688	276.221	0.23%	97.56%
75.0	6.159	0.665	276.886	0.22%	97.79%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.801	0.635	277.52	0.21%	98.02%
77.0	5.576	0.607	278.127	0.20%	98.23%
78.0	5.288	0.582	278.709	0.19%	98.44%
79.0	5.020	0.554	279.262	0.18%	98.63%
80.0	4.697	0.524	279.786	0.17%	98.82%
81.0	4.338	0.489	280.275	0.16%	98.99%
82.0	3.938	0.449	280.724	0.15%	99.15%
83.0	3.635	0.412	281.135	0.14%	99.30%
84.0	3.227	0.374	281.509	0.12%	99.43%
85.0	2.953	0.337	281.846	0.11%	99.55%
86.0	2.679	0.308	282.154	0.10%	99.66%
87.0	2.405	0.278	282.433	0.09%	99.75%
88.0	2.208	0.253	282.685	0.08%	99.84%
89.0	2.025	0.232	282.917	0.08%	99.92%
90.0	1.849	0.212	283.13	0.07%	100.00%

Zonal flux distribution table

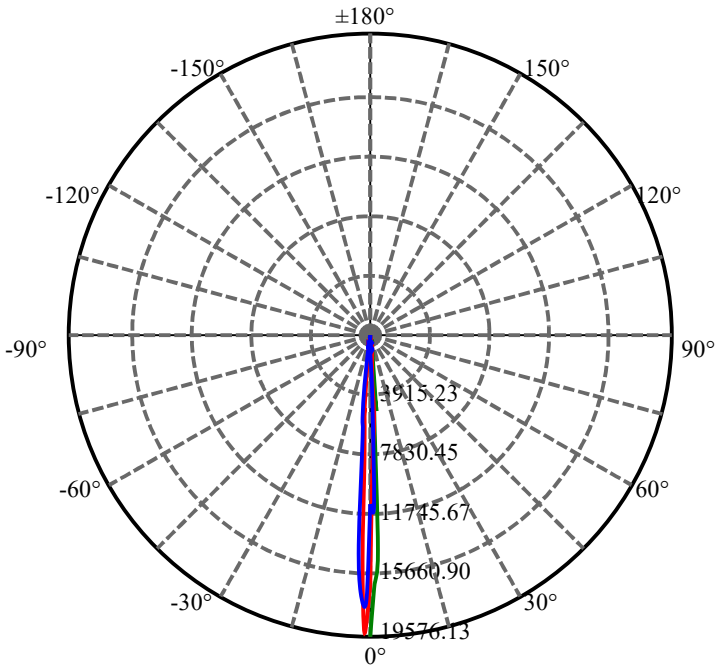
ZONAL LUMEN SUMMARY

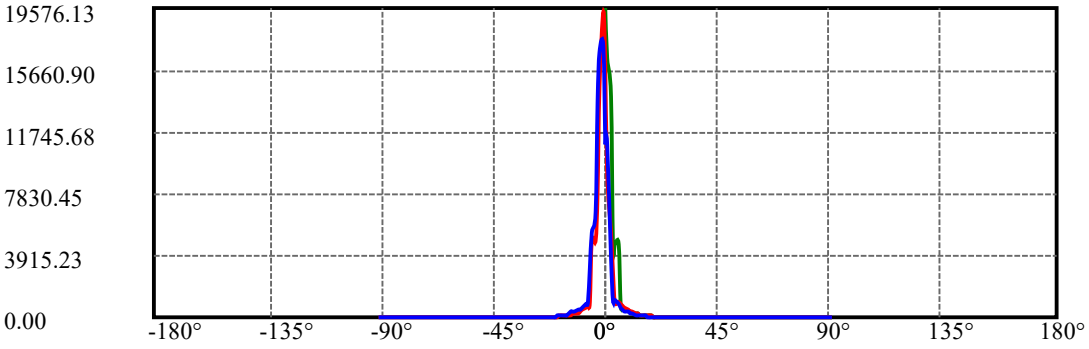
Zone	Lumens	%Lamp	%Fixt
0-30	251.19	82.76%	88.72%
0-40	256.44	84.50%	90.57%
0-60	266.44	87.79%	94.10%
0-90	282.92	93.22%	99.92%
0-120	282.92	93.22%	99.92%
0-180	283.13	93.29%	100.00%
60-90	16.48	5.43%	5.82%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-14.64	226.50	74.63%	80.00%

ZONAL LUMEN SUMMARY

0-10	199.30
10-20	41.03
20-30	10.86
30-40	5.26
40-50	4.59
50-60	5.40
60-70	6.85
70-80	6.50
80-90	3.13
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]





C135(Max):

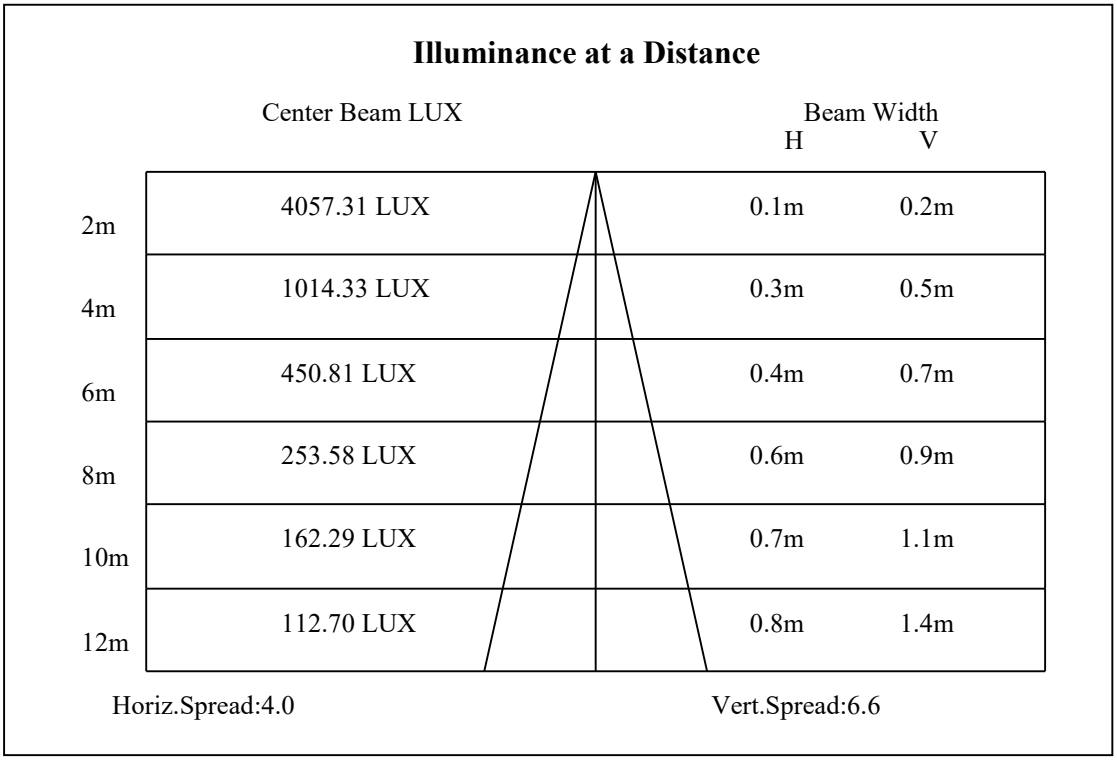
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:4.7 Right:4.5
:C90/270Left:5.7 Right:3.8

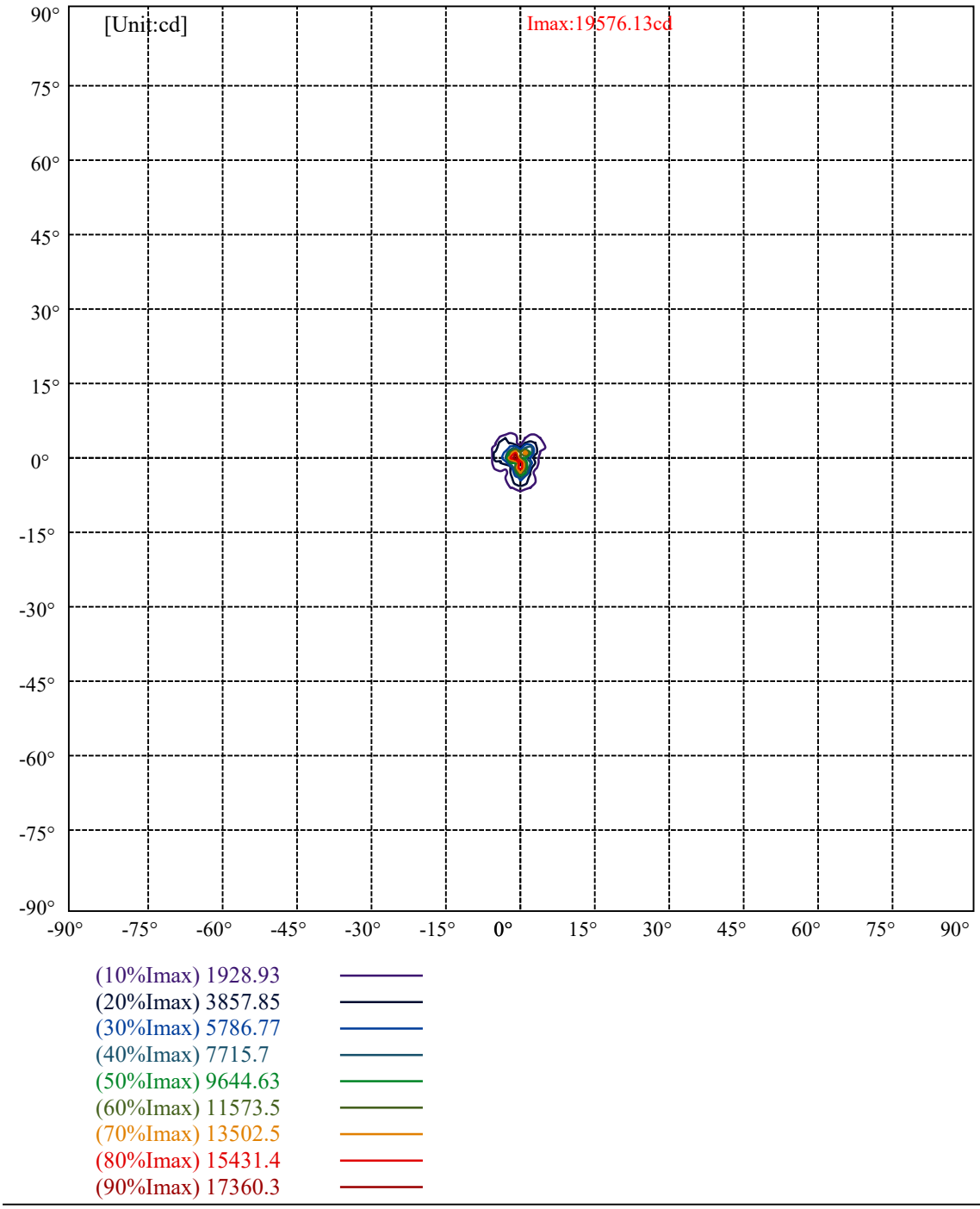
Beam Angle(50%Imax):C0/180Left:1.7 Right:1.9
:C90/270Left:2.7 Right:2.3

Lux distance Curve



Equipment: GMS 1800
Temperature(°C): 25.0
Date: 2026/3/28
Humidity(%): 60.0%
Operator: 杨泽全
Distance(m): 7.50

ISO-Intensity(V-H)



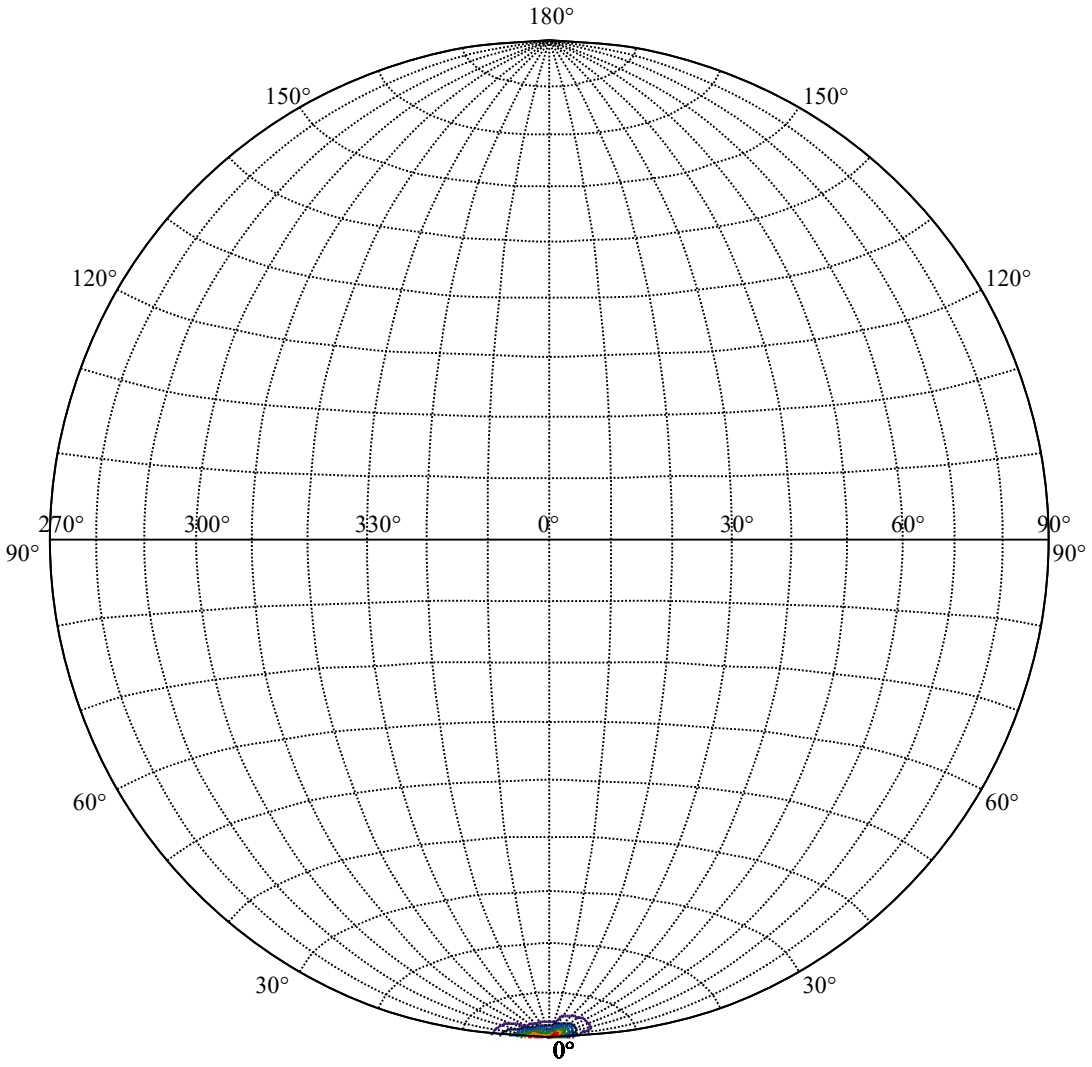
(10%Imax) 1928.93
(20%Imax) 3857.85
(30%Imax) 5786.77
(40%Imax) 7715.7
(50%Imax) 9644.63
(60%Imax) 11573.5
(70%Imax) 13502.5
(80%Imax) 15431.4
(90%Imax) 17360.3

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2026/3/28
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:19576.13

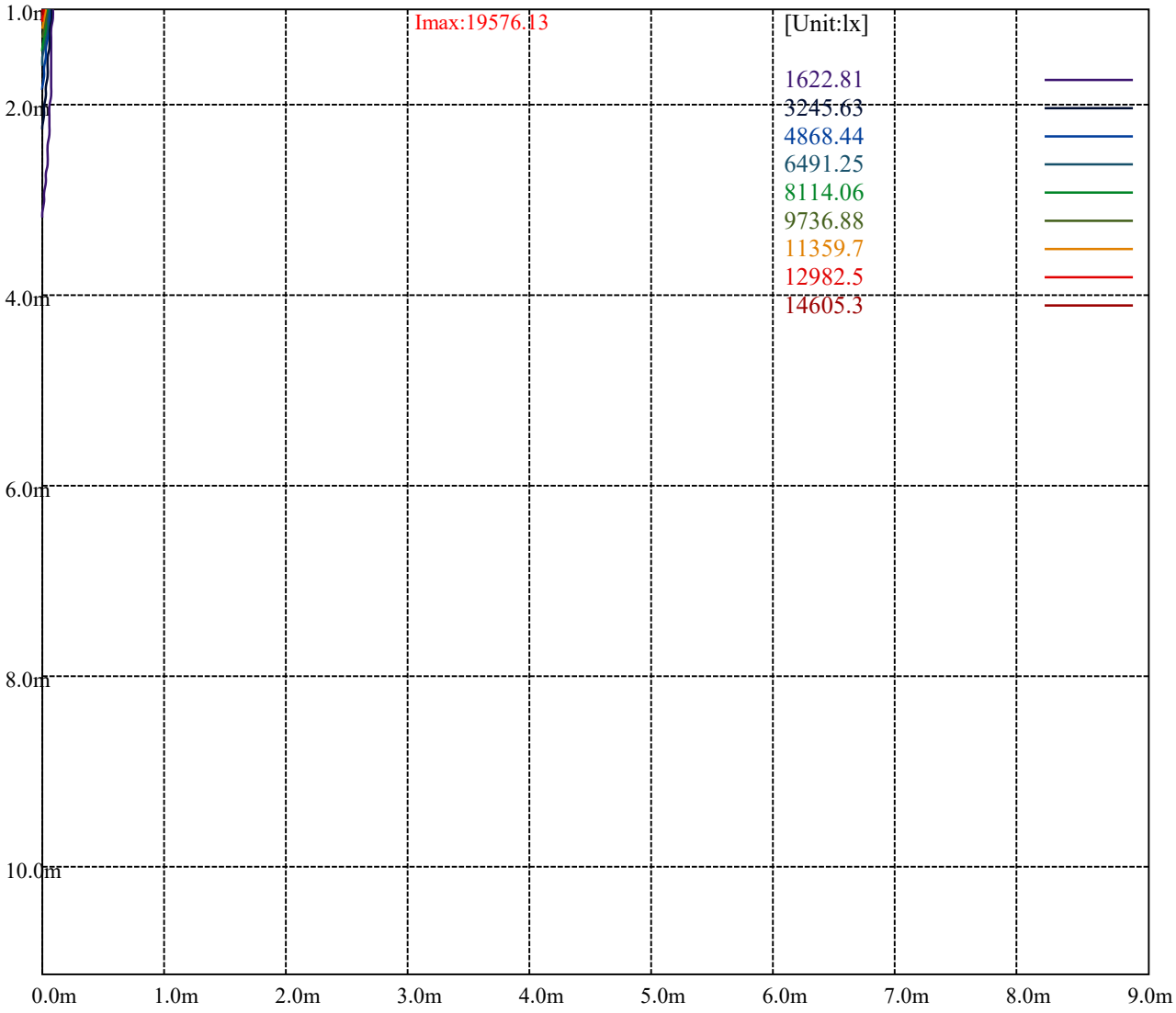
(10%Imax) 1957.5
(20%Imax) 3915
(30%Imax) 5872.5
(40%Imax) 7830
(50%Imax) 9787.5
(60%Imax) 11745
(70%Imax) 13702.5
(80%Imax) 15660
(90%Imax) 17617.5

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2026/3/28
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2026/3/28
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 7.50

NT NT 61-0175

Luminance Limitting Curve(no luminous side)

Luminance Table

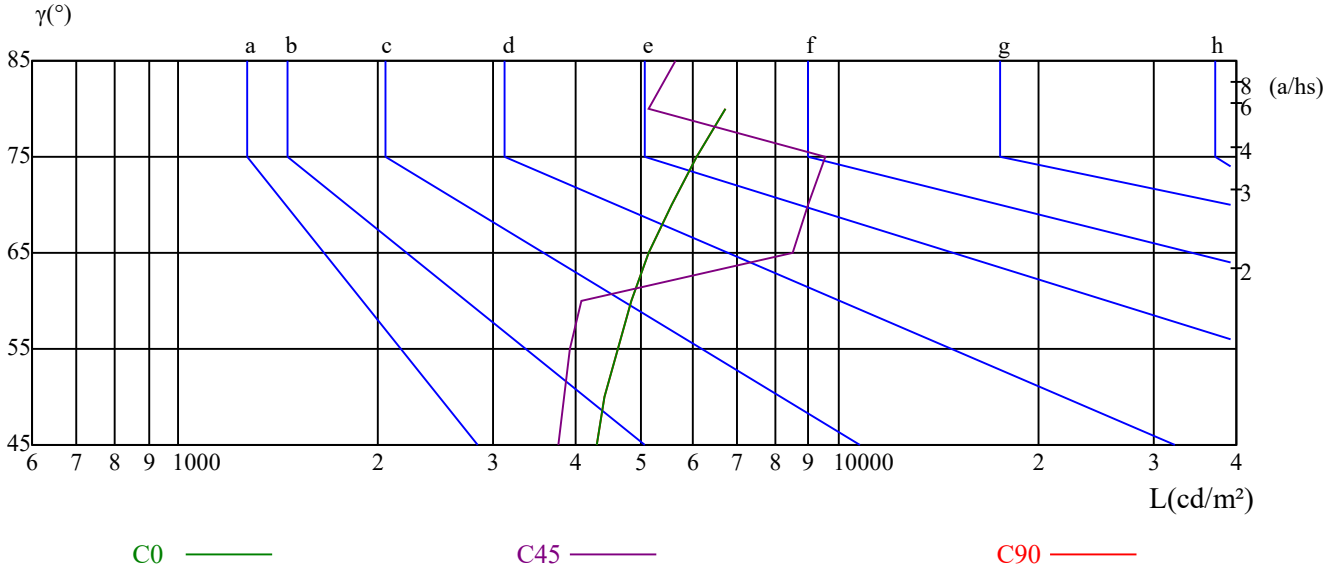
γ	45	50	55	60	65	70	75	80	85
C0	4288	4429	4616	4857	5167	5564	6077	6752	0
C45	3760	3827	3927	4064	8489	8956	9553	5160	5657
C90	4288	4429	4616	4857	5167	5564	6077	6752	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
16298	10865	13582	26612	17741	22177	26343	0	26343

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

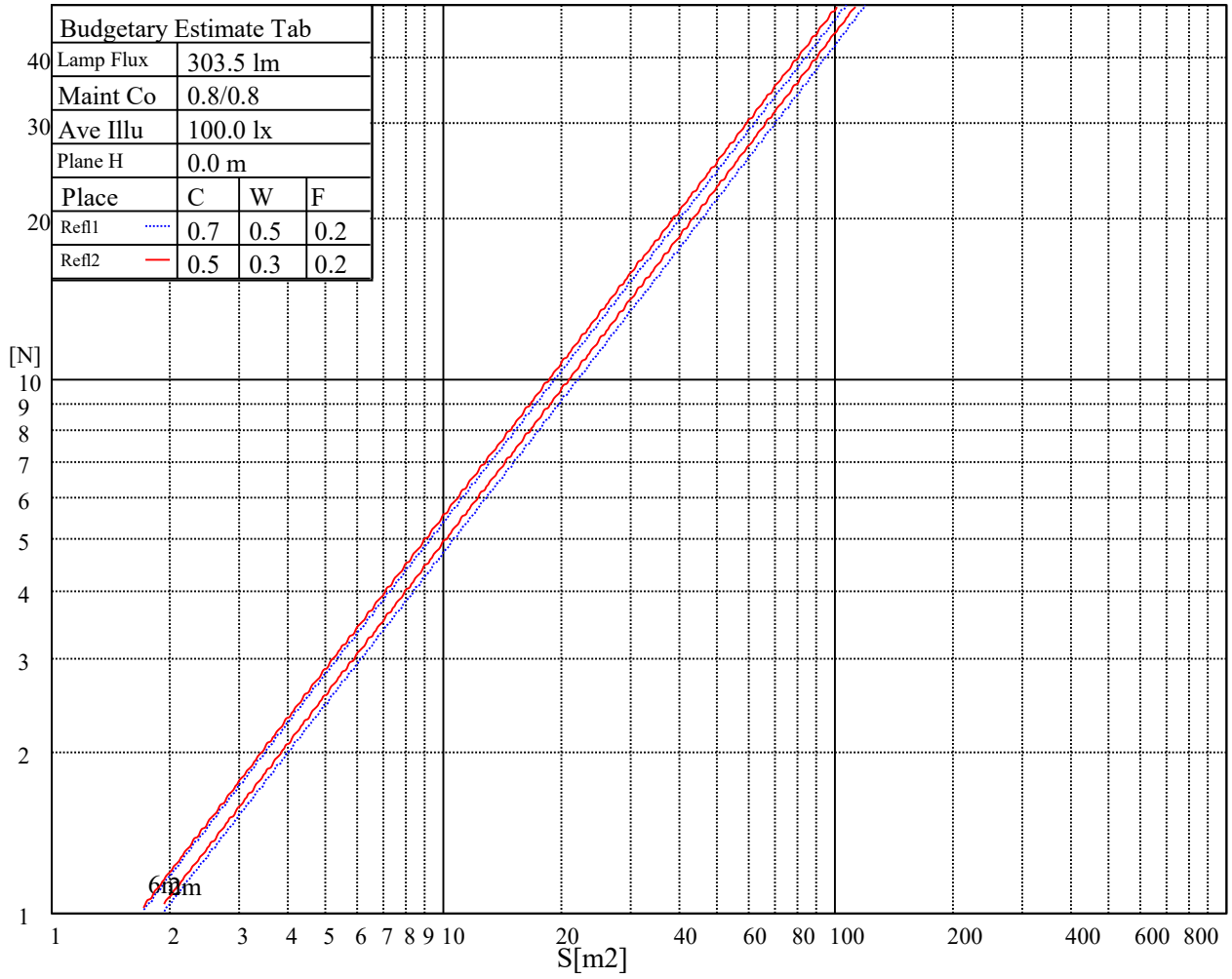


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2026/3/28
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 7.50

Budgetary Estimate Table

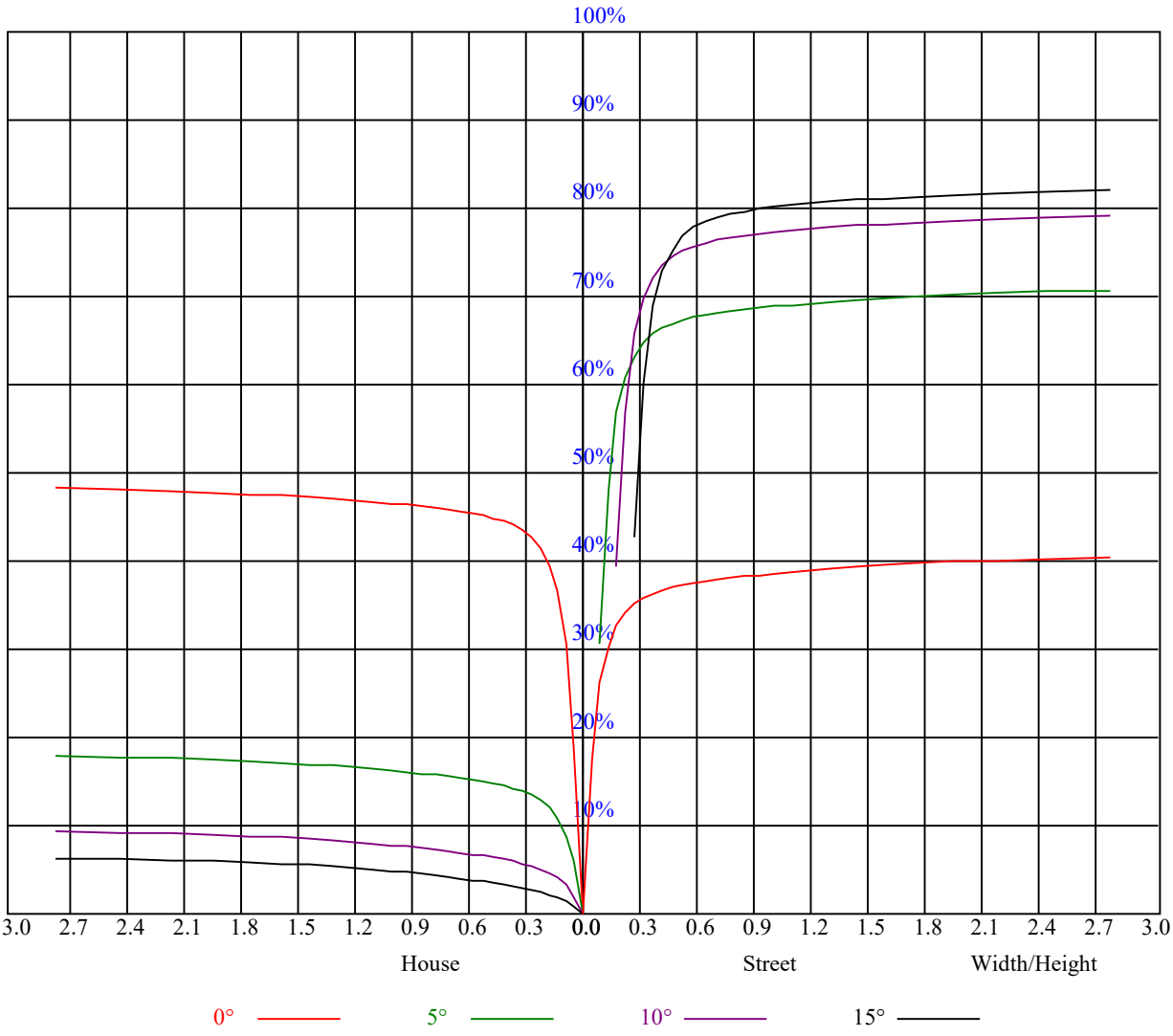


Equipment: GMS 1800	Date: 2026/3/28	Operator: 杨泽全
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.50

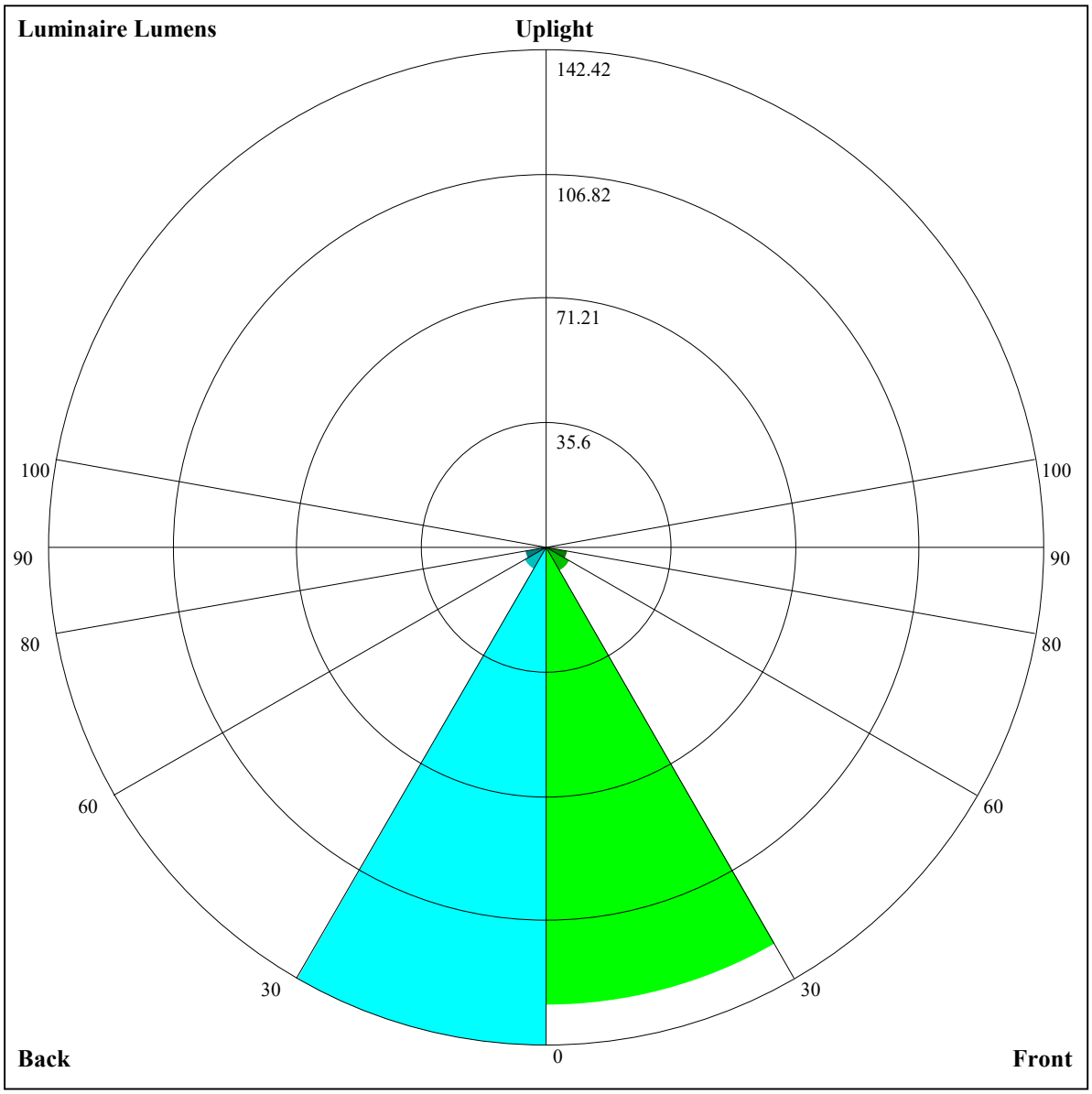
Utilization factor table for indoor luminaire

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	1.11	1.11	1.11	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.98	0.96	0.95	0.94	0.94	0.92	0.92	0.91	0.89
2	1.00	0.97	0.95	0.98	0.96	0.94	0.95	0.93	0.92	0.93	0.91	0.90	0.90	0.89	0.88	0.86
3	0.96	0.93	0.90	0.95	0.92	0.90	0.93	0.90	0.88	0.91	0.89	0.87	0.89	0.87	0.86	0.84
4	0.93	0.90	0.87	0.92	0.89	0.87	0.90	0.88	0.86	0.89	0.87	0.85	0.87	0.85	0.84	0.83
5	0.91	0.87	0.85	0.90	0.87	0.84	0.89	0.86	0.84	0.87	0.85	0.83	0.86	0.84	0.82	0.81
6	0.89	0.85	0.83	0.88	0.85	0.83	0.87	0.84	0.82	0.86	0.84	0.82	0.85	0.83	0.81	0.80
7	0.87	0.84	0.82	0.87	0.84	0.81	0.86	0.83	0.81	0.85	0.82	0.81	0.84	0.82	0.80	0.79
8	0.86	0.83	0.80	0.85	0.82	0.80	0.85	0.82	0.80	0.84	0.81	0.80	0.83	0.81	0.79	0.79
9	0.85	0.81	0.79	0.84	0.81	0.79	0.84	0.81	0.79	0.83	0.80	0.79	0.82	0.80	0.79	0.78
10	0.83	0.80	0.78	0.83	0.80	0.78	0.83	0.80	0.78	0.82	0.80	0.78	0.82	0.79	0.78	0.77

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2026/3/28	Operator: 杨泽全
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.50



Luminaire Lumens:
FL=131.19,FM=7.63,FH=6.22,FVH=1.49
BL=142.42,BM=7.45,BH=6.47,BVH=1.7
UL=0,UH=0

BUG Rating:B1-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	16229.25	9111.32	5376.88	2859.13	951.30	951.30	836.10	681.86	558.23
45.0	17376.75	17944.88	12550.50	8584.88	3713.63	3713.63	1088.38	798.69	637.82
90.0	10919.19	10919.19	3787.82	1049.29	1049.29	882.28	591.02	515.08	412.48
135.0	19576.13	16443.00	13973.63	4591.13	4591.13	4591.13	839.76	602.94	529.26
180.0	16229.25	19289.25	14648.63	7943.63	4849.88	4849.88	912.88	713.19	564.13
225.0	17376.75	8346.32	8346.32	1092.83	939.99	939.99	738.51	584.44	449.72
270.0	10919.19	17196.75	16769.25	13608.00	6694.88	5367.38	3213.00	941.01	826.82
315.0	19576.13	10988.38	10988.38	3921.13	1391.57	1030.56	907.93	802.69	614.25
360.0	16229.25	9111.32	5376.88	2859.13	951.30	951.30	836.10	681.86	558.23

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	463.33	373.78	333.34	273.04	217.13	168.02	123.24	106.48	85.50
45.0	520.82	410.01	376.26	304.26	304.26	187.48	136.58	106.20	83.81
90.0	331.93	263.36	199.74	173.19	138.71	111.32	87.86	68.12	60.64
135.0	412.26	336.88	295.82	295.82	227.76	130.67	105.86	93.83	73.91
180.0	493.82	381.88	284.01	284.01	230.23	153.96	122.06	97.88	76.16
225.0	396.62	322.93	258.24	204.92	154.07	132.86	103.84	81.73	66.43
270.0	606.88	503.38	447.69	346.44	316.07	316.07	179.94	133.03	99.17
315.0	548.38	457.48	367.20	301.11	240.53	178.43	152.10	116.55	89.94
360.0	463.33	373.78	333.34	273.04	217.13	168.02	123.24	106.48	85.50

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	69.58	54.51	45.79	39.21	33.81	28.91	26.72	23.57	20.98
45.0	64.63	52.43	44.10	37.58	34.14	28.24	24.64	21.77	19.24
90.0	51.13	43.26	35.89	30.94	26.72	23.46	20.03	18.62	16.31
135.0	61.99	52.93	45.62	41.57	34.26	29.19	25.03	21.49	19.01
180.0	63.34	54.28	49.67	42.08	36.56	31.44	27.34	25.37	21.94
225.0	54.45	46.86	40.73	34.37	31.44	27.17	23.91	21.15	18.17
270.0	76.73	66.94	53.61	44.38	37.58	32.18	29.70	25.26	22.05
315.0	71.49	55.35	48.88	40.84	34.76	29.87	25.48	23.57	19.63
360.0	69.58	54.51	45.79	39.21	33.81	28.91	26.72	23.57	20.98

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	18.62	16.37	15.41	13.78	12.77	12.32	11.70	11.25	10.63
45.0	17.89	15.19	13.39	11.98	10.80	9.73	9.00	8.33	8.04
90.0	14.23	12.60	10.86	10.29	9.23	8.49	7.93	7.43	6.86
135.0	16.59	14.34	13.22	11.36	10.24	9.34	8.61	8.21	7.59
180.0	18.45	17.16	15.08	14.01	11.64	10.52	9.96	9.06	8.44
225.0	17.04	14.79	13.05	11.31	10.18	9.68	8.61	7.88	7.65
270.0	19.35	17.10	15.81	12.77	11.31	10.52	9.34	8.55	7.88
315.0	16.71	15.41	13.56	11.98	10.69	9.51	9.00	8.38	7.88
360.0	18.62	16.37	15.41	13.78	12.77	12.32	11.70	11.25	10.63

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	9.96	9.56	9.06	8.49	7.93	7.48	7.26	6.92	6.69
45.0	7.48	7.09	6.98	6.81	6.58	6.47	6.24	6.13	6.08
90.0	6.47	6.13	6.02	5.79	5.51	5.46	5.46	5.40	5.34
135.0	7.26	6.86	6.53	6.19	6.02	5.91	5.85	5.68	5.63
180.0	8.10	7.71	7.59	7.09	6.86	6.69	6.53	6.41	6.19
225.0	7.14	6.81	6.58	6.19	6.19	5.91	5.79	5.74	5.63
270.0	7.31	6.98	6.58	6.24	6.02	5.91	5.68	5.57	5.51
315.0	7.43	7.03	6.75	6.47	6.36	6.19	6.08	5.96	5.85
360.0	9.96	9.56	9.06	8.49	7.93	7.48	7.26	6.92	6.69

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	6.64	6.58	6.53	6.58	6.47	6.53	6.53	6.58	6.58
45.0	6.02	5.85	5.85	5.85	5.85	5.79	5.74	5.68	5.74
90.0	5.40	5.51	5.29	5.29	5.46	5.51	5.63	5.74	5.57
135.0	5.68	5.74	5.68	5.79	5.96	5.96	6.08	6.08	6.19
180.0	6.02	5.96	5.85	5.74	5.74	5.79	5.79	5.91	5.85
225.0	5.63	5.74	5.74	5.85	5.91	6.02	6.13	6.19	6.24
270.0	5.46	5.29	5.29	5.46	5.57	5.46	5.51	5.63	5.63
315.0	5.79	5.74	5.79	5.85	5.79	5.91	5.91	5.91	5.96
360.0	6.64	6.58	6.53	6.58	6.47	6.53	6.53	6.58	6.58

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	6.58	6.58	6.47	6.47	6.47	6.36	6.30	6.24	6.08
45.0	5.74	5.85	5.79	5.85	5.96	6.02	6.19	6.30	6.69
90.0	5.68	5.79	5.79	5.46	5.18	5.18	5.46	5.51	5.57
135.0	6.19	6.24	6.24	6.24	6.19	6.19	6.13	6.08	6.02
180.0	5.96	6.13	6.24	6.41	6.64	6.86	7.59	8.04	8.38
225.0	6.30	6.30	6.36	6.36	6.36	6.41	6.36	6.36	6.30
270.0	5.79	5.74	5.68	5.68	5.51	5.51	5.63	5.68	5.74
315.0	5.91	5.96	5.91	5.91	5.96	5.96	6.02	5.96	5.96
360.0	6.58	6.58	6.47	6.47	6.47	6.36	6.30	6.24	6.08

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	6.08	5.91	5.68	5.63	5.40	5.51	5.51	5.40	5.29
45.0	7.14	7.88	8.61	9.11	10.63	12.32	13.33	13.89	12.32
90.0	5.51	5.51	5.34	5.01	4.78	4.67	4.61	4.50	4.44
135.0	5.91	5.96	5.85	5.85	5.57	5.51	5.29	5.12	4.95
180.0	9.06	9.56	10.69	11.53	12.54	13.33	13.95	14.29	14.23
225.0	6.19	6.24	6.08	6.08	5.85	5.63	5.46	5.23	5.12
270.0	5.79	5.91	5.91	5.91	6.13	6.13	6.19	6.13	6.13
315.0	6.13	6.24	6.47	6.69	6.81	6.86	6.92	6.92	6.81
360.0	6.08	5.91	5.68	5.63	5.40	5.51	5.51	5.40	5.29

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.06	4.89	4.67	4.33	4.22	4.16	4.05	3.94	3.66
45.0	11.19	9.62	9.23	8.94	8.49	8.04	7.59	7.14	6.02
90.0	4.16	3.99	3.83	3.66	3.38	3.38	3.15	3.15	2.98
135.0	4.73	4.61	4.50	4.44	4.16	3.94	3.88	3.71	3.60
180.0	14.06	13.67	13.28	12.66	11.81	11.36	10.52	9.90	9.45
225.0	4.84	4.67	4.56	4.39	4.11	3.94	3.88	3.77	3.66
270.0	5.74	5.46	5.29	5.01	4.73	4.33	4.16	3.94	3.71
315.0	6.64	6.41	6.02	5.85	5.51	5.46	5.06	4.61	4.50
360.0	5.06	4.89	4.67	4.33	4.22	4.16	4.05	3.94	3.66

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.49	3.26	3.09	2.87	2.70	2.53	2.31	2.14	2.08
45.0	5.01	4.39	3.71	3.26	3.04	2.64	2.36	2.19	1.97
90.0	2.76	2.53	2.42	2.08	1.91	1.86	1.63	1.69	1.41
135.0	3.49	3.26	2.98	2.81	2.59	2.42	2.14	2.03	1.86
180.0	9.00	7.88	7.14	6.13	5.51	4.78	4.11	3.71	3.26
225.0	3.43	3.21	2.93	2.76	2.53	2.36	2.19	2.03	1.91
270.0	3.43	3.38	3.26	2.70	2.42	2.19	2.08	1.69	1.63
315.0	4.11	3.60	3.54	3.21	2.93	2.64	2.42	2.19	2.08
360.0	3.49	3.26	3.09	2.87	2.70	2.53	2.31	2.14	2.08

Intensity data(cd)

C/γ(°)	90.0
0.0	1.91
45.0	1.80
90.0	1.35
135.0	1.74
180.0	2.93
225.0	1.80
270.0	1.24
315.0	2.03
360.0	1.91