



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

NT

Client:

LumCAT: 2-2688-L

Luminaire: 92.70.412.00

Report No: 2024326-B024

Ballast type: AC

Test No: 2024326-C024

Voltage(V): 34.450

LampCAT: Fortimo_SLM_C_1210

Current(A): 0.720

Lamp flux(lm): 4230.0

Power (W): 24.804

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 3492.28, Efficiency(%): 82.56% , Luminous Efficacy(lm/W): 140.80

Central intensity(cd): 8548.001, Maximum intensity(cd): 8548.001

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.0

[C90/270]Total=35.0

Field angle(10%Imax): [C0/180]Total=60.8

[C90/270]Total=60.8

Maximum s/h(1/2): C0_180=0.58 C90_270=0.58

Maximum s/h(1/4): C0_180=0.58 C90_270=0.58

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 82.56%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.747%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/26
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8548.001	0.000	0	0.00%	0.00%
1.0	8534.907	8.174	8.174	0.19%	0.23%
2.0	8507.109	24.460	32.634	0.58%	0.93%
3.0	8462.266	40.585	73.219	0.96%	2.10%
4.0	8391.600	56.415	129.635	1.33%	3.71%
5.0	8283.260	71.734	201.369	1.70%	5.77%
6.0	8125.396	86.232	287.601	2.04%	8.24%
7.0	7939.294	99.713	387.314	2.36%	11.09%
8.0	7700.742	111.933	499.247	2.65%	14.30%
9.0	7425.393	122.589	621.836	2.90%	17.81%
10.0	7119.540	131.626	753.462	3.11%	21.58%
11.0	6774.916	138.834	892.296	3.28%	25.55%
12.0	6422.610	144.268	1036.564	3.41%	29.68%
13.0	6046.750	147.980	1184.544	3.50%	33.92%
14.0	5636.873	149.549	1334.094	3.54%	38.20%
15.0	5269.936	149.734	1483.827	3.54%	42.49%
16.0	4864.302	148.495	1632.322	3.51%	46.74%
17.0	4477.176	145.472	1777.794	3.44%	50.91%
18.0	4068.396	140.898	1918.692	3.33%	54.94%
19.0	3731.014	135.694	2054.386	3.21%	58.83%
20.0	3379.660	130.145	2184.531	3.08%	62.55%
21.0	3035.328	123.181	2307.712	2.91%	66.08%
22.0	2725.671	115.770	2423.481	2.74%	69.40%
23.0	2443.592	108.465	2531.946	2.56%	72.50%
24.0	2216.745	101.892	2633.838	2.41%	75.42%
25.0	1970.438	95.207	2729.045	2.25%	78.15%
26.0	1713.539	86.961	2816.006	2.06%	80.64%
27.0	1461.204	77.671	2893.677	1.84%	82.86%
28.0	1261.196	68.925	2962.602	1.63%	84.83%
29.0	1115.797	62.189	3024.791	1.47%	86.61%
30.0	922.717	55.039	3079.831	1.30%	88.19%
31.0	758.613	46.789	3126.62	1.11%	89.53%
32.0	604.684	39.057	3165.676	0.92%	90.65%
33.0	461.801	31.419	3197.096	0.74%	91.55%
34.0	346.812	24.471	3221.567	0.58%	92.25%
35.0	277.865	19.400	3240.967	0.46%	92.80%
36.0	225.078	16.014	3256.98	0.38%	93.26%
37.0	186.987	13.439	3270.42	0.32%	93.65%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	157.894	11.512	3281.931	0.27%	93.98%
39.0	143.702	10.294	3292.226	0.24%	94.27%
40.0	130.637	9.568	3301.794	0.23%	94.55%
41.0	119.532	8.908	3310.702	0.21%	94.80%
42.0	109.415	8.318	3319.02	0.20%	95.04%
43.0	100.542	7.777	3326.797	0.18%	95.26%
44.0	92.670	7.292	3334.09	0.17%	95.47%
45.0	86.350	6.880	3340.97	0.16%	95.67%
46.0	80.161	6.512	3347.482	0.15%	95.85%
47.0	74.477	6.150	3353.632	0.15%	96.03%
48.0	70.073	5.843	3359.476	0.14%	96.20%
49.0	65.933	5.585	3365.061	0.13%	96.36%
50.0	62.063	5.337	3370.397	0.13%	96.51%
51.0	58.537	5.102	3375.5	0.12%	96.66%
52.0	55.611	4.898	3380.398	0.12%	96.80%
53.0	52.824	4.717	3385.115	0.11%	96.93%
54.0	50.117	4.537	3389.652	0.11%	97.06%
55.0	47.798	4.371	3394.023	0.10%	97.19%
56.0	45.465	4.214	3398.237	0.10%	97.31%
57.0	43.380	4.062	3402.299	0.10%	97.42%
58.0	41.141	3.909	3406.208	0.09%	97.54%
59.0	39.254	3.759	3409.966	0.09%	97.64%
60.0	37.454	3.624	3413.59	0.09%	97.75%
61.0	35.648	3.489	3417.079	0.08%	97.85%
62.0	34.097	3.361	3420.44	0.08%	97.94%
63.0	32.692	3.248	3423.688	0.08%	98.04%
64.0	31.419	3.146	3426.834	0.07%	98.13%
65.0	30.359	3.057	3429.891	0.07%	98.21%
66.0	29.568	2.990	3432.881	0.07%	98.30%
67.0	28.903	2.940	3435.821	0.07%	98.38%
68.0	28.515	2.909	3438.73	0.07%	98.47%
69.0	28.581	2.913	3441.643	0.07%	98.55%
70.0	28.991	2.957	3444.599	0.07%	98.63%
71.0	29.378	3.017	3447.616	0.07%	98.72%
72.0	29.517	3.062	3450.679	0.07%	98.81%
73.0	29.495	3.086	3453.764	0.07%	98.90%
74.0	29.261	3.089	3456.853	0.07%	98.99%
75.0	28.844	3.070	3459.924	0.07%	99.07%

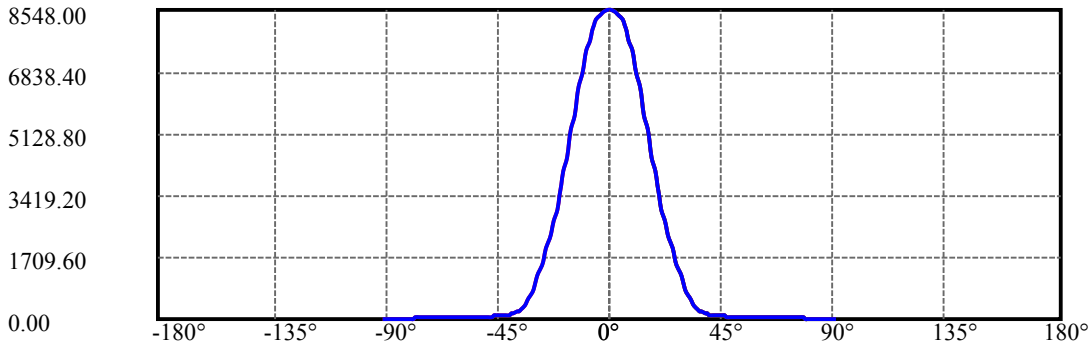
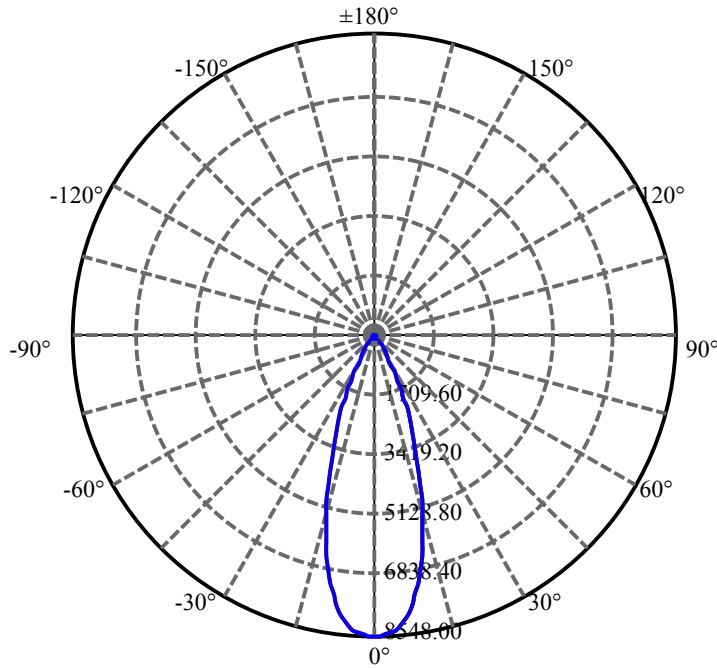
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	28.186	3.027	3462.951	0.07%	99.16%
77.0	27.162	2.951	3465.902	0.07%	99.24%
78.0	25.889	2.840	3468.742	0.07%	99.33%
79.0	24.162	2.689	3471.431	0.06%	99.40%
80.0	21.858	2.481	3473.912	0.06%	99.47%
81.0	19.671	2.246	3476.158	0.05%	99.54%
82.0	18.142	2.051	3478.208	0.05%	99.60%
83.0	17.586	1.942	3480.151	0.05%	99.65%
84.0	17.074	1.888	3482.039	0.04%	99.71%
85.0	16.459	1.830	3483.869	0.04%	99.76%
86.0	15.823	1.765	3485.634	0.04%	99.81%
87.0	15.362	1.707	3487.34	0.04%	99.86%
88.0	15.070	1.667	3489.007	0.04%	99.91%
89.0	14.865	1.641	3490.648	0.04%	99.95%
90.0	14.865	1.630	3492.278	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3079.83	72.81%	88.19%
0-40	3301.79	78.06%	94.55%
0-60	3413.59	80.70%	97.75%
0-90	3490.65	82.52%	99.95%
0-120	3490.65	82.52%	99.95%
0-180	3492.28	82.56%	100.00%
60-90	77.06	1.82%	2.21%
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%
0-25.74	2793.82	66.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	753.46
10-20	1431.07
20-30	895.30
30-40	221.96
40-50	68.60
50-60	43.19
60-70	31.01
70-80	29.31
80-90	16.74
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



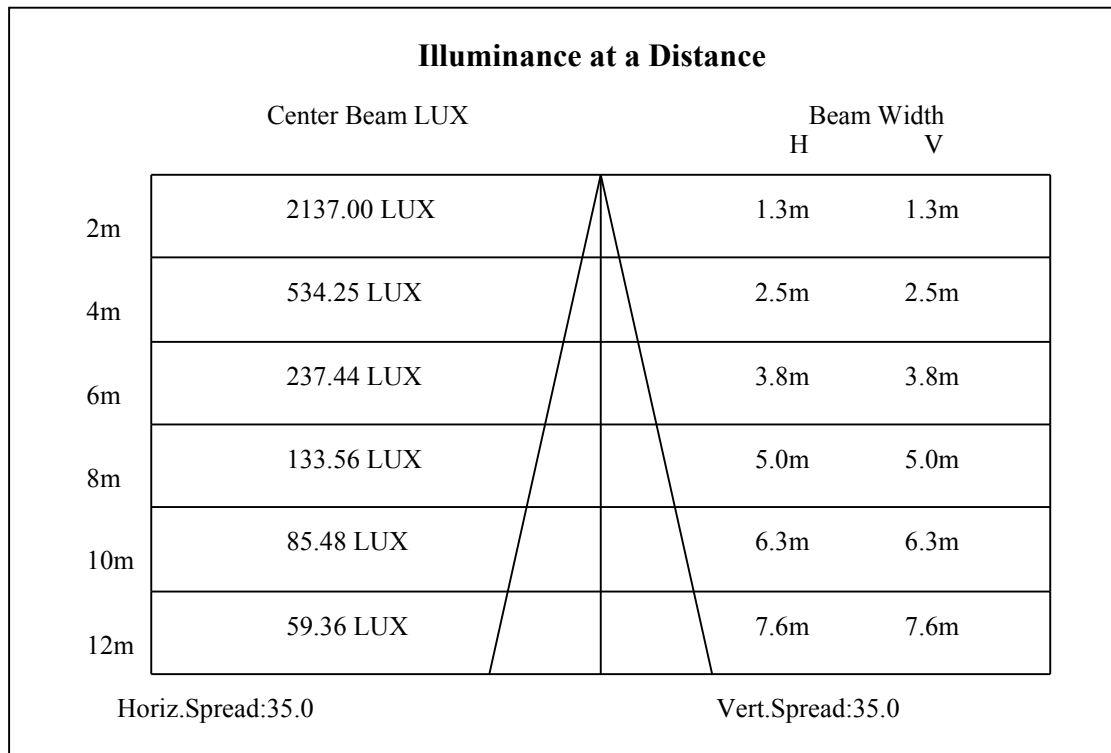
C0(Max): —————

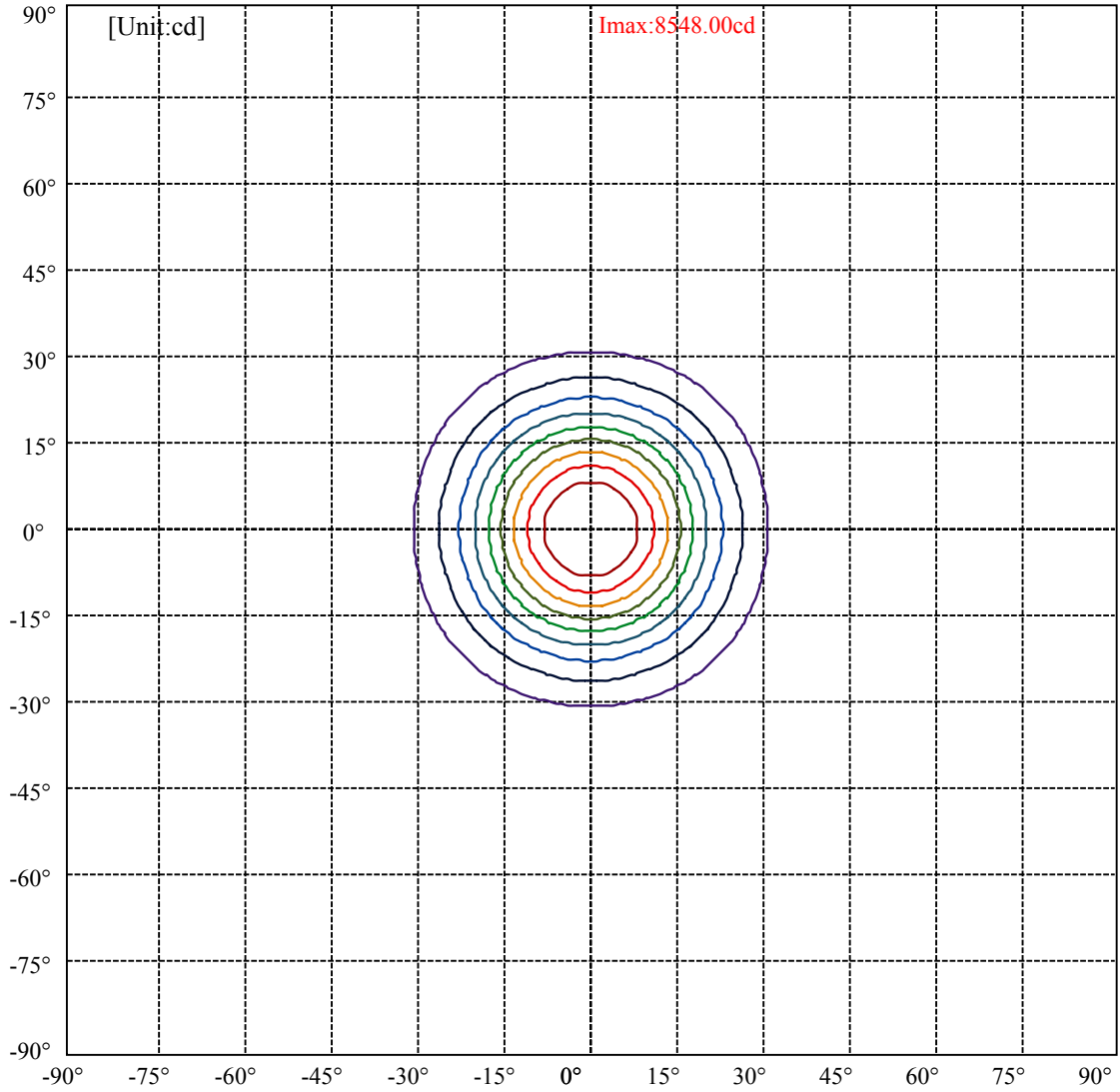
C0/C180: —————

C90/C270: —————

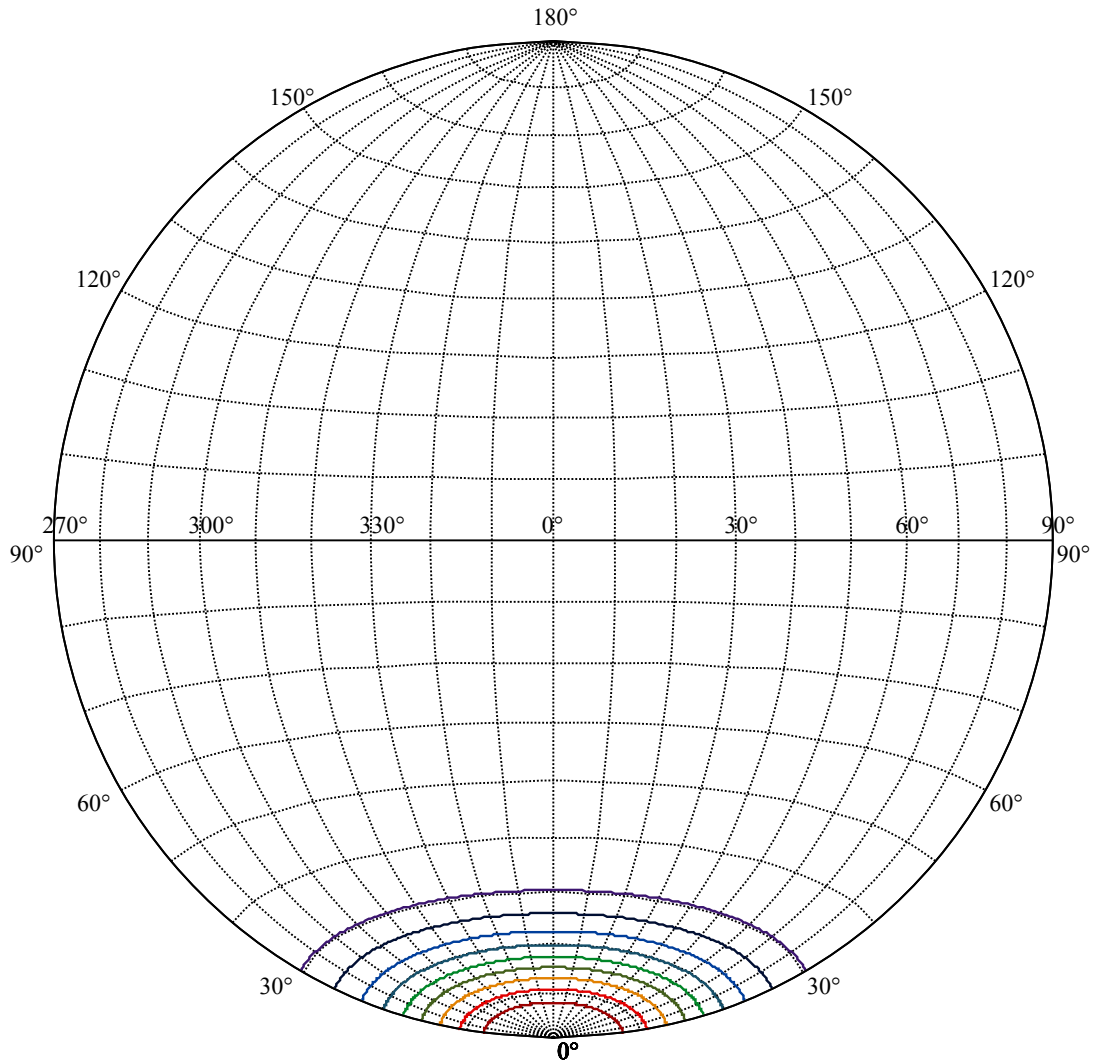
Field angle(10%Imax):C0/180Left:30.4 Right:30.4
:C90/270Left:30.4 Right:30.4

Beam Angle(50%Imax):C0/180Left:17.5 Right:17.5
:C90/270Left:17.5 Right:17.5





(10%Imax) 854.8	—
(20%Imax) 1709.6	—
(30%Imax) 2564.4	—
(40%Imax) 3419.2	—
(50%Imax) 4274	—
(60%Imax) 5128.8	—
(70%Imax) 5983.6	—
(80%Imax) 6838.4	—
(90%Imax) 7693.2	—



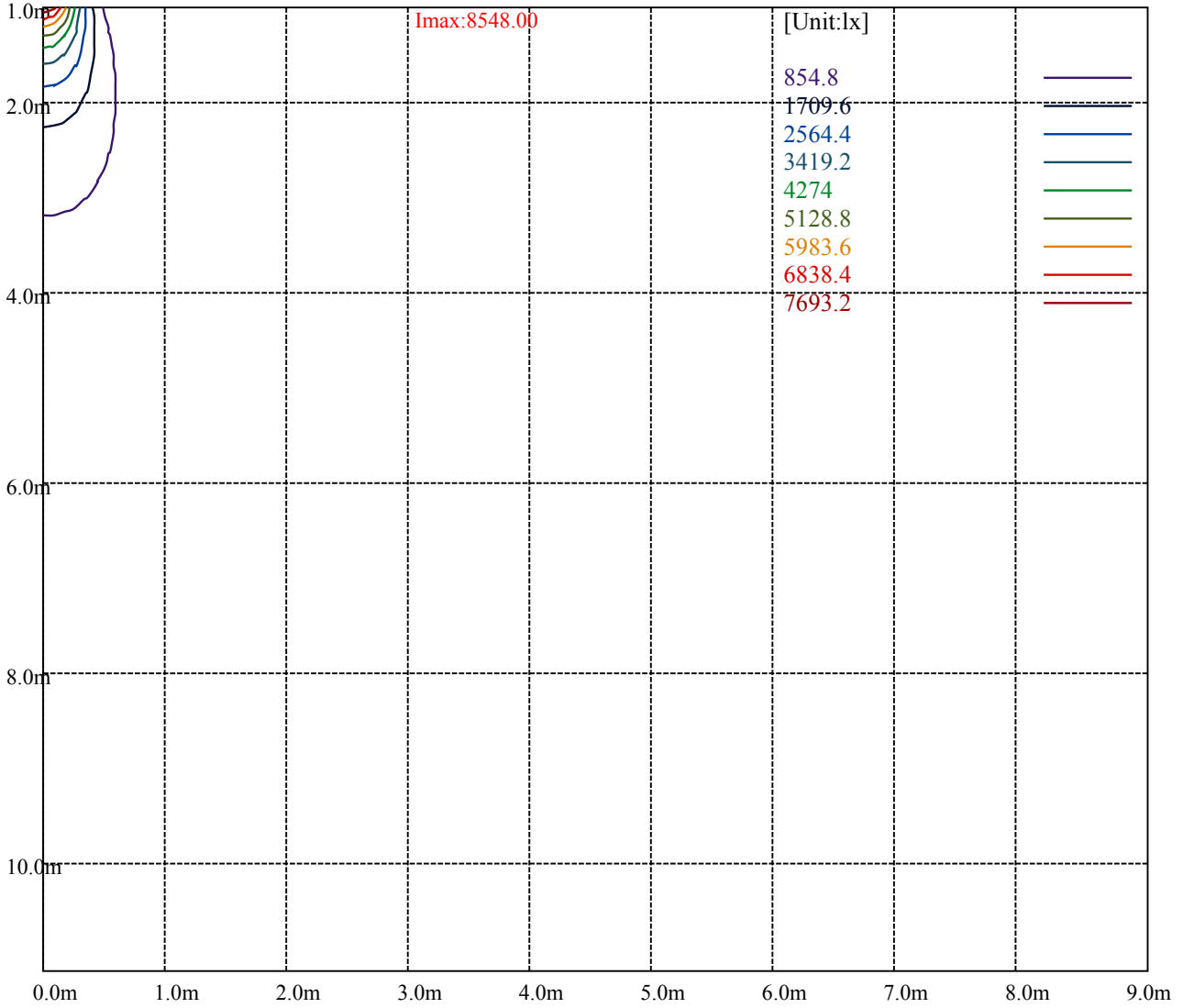
House

[Unit:cd]

Road

Imax:8548.00

(10%Imax)	854.8	—
(20%Imax)	1709.6	—
(30%Imax)	2564.4	—
(40%Imax)	3419.2	—
(50%Imax)	4274	—
(60%Imax)	5128.8	—
(70%Imax)	5983.6	—
(80%Imax)	6838.4	—
(90%Imax)	7693.2	—



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

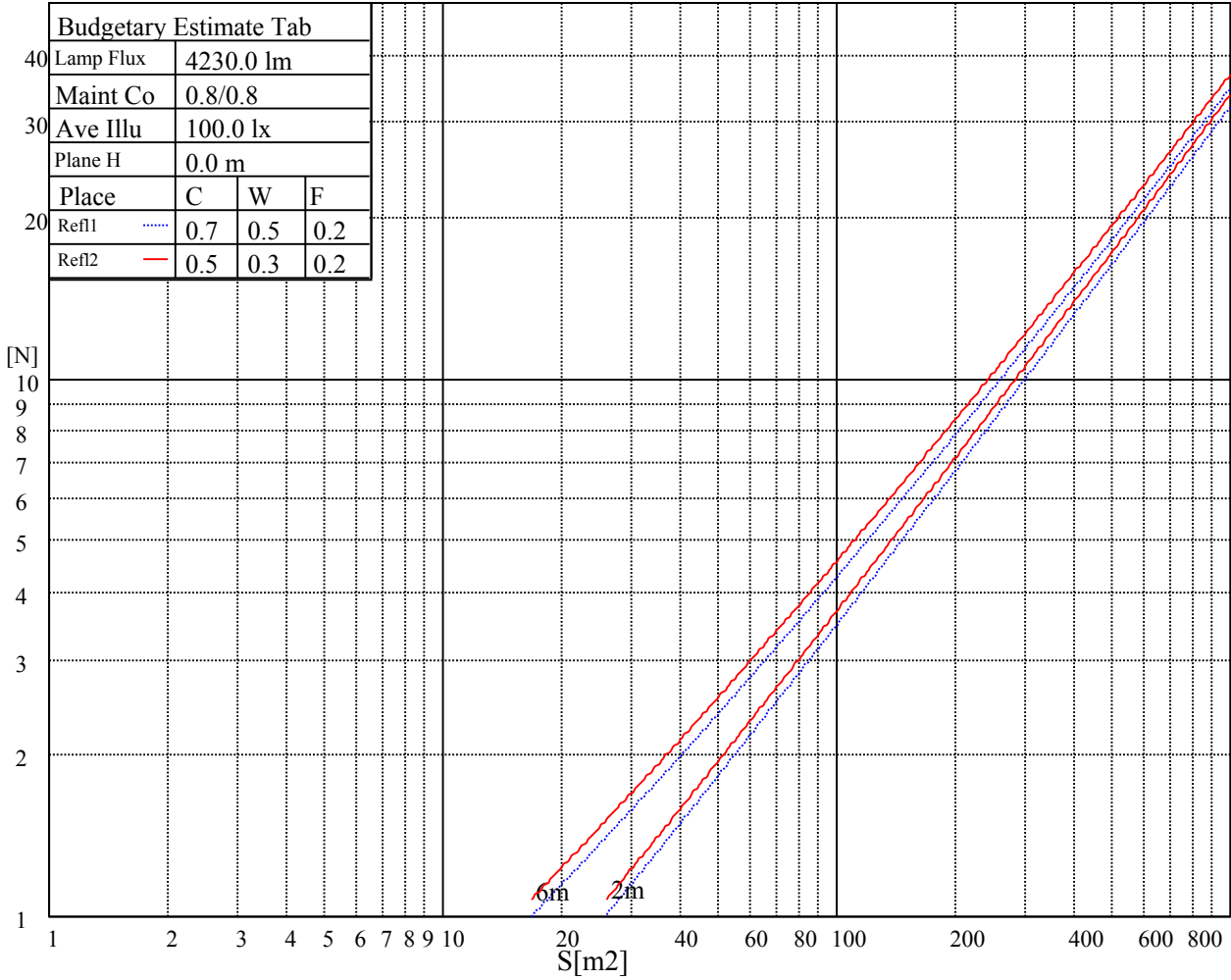
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

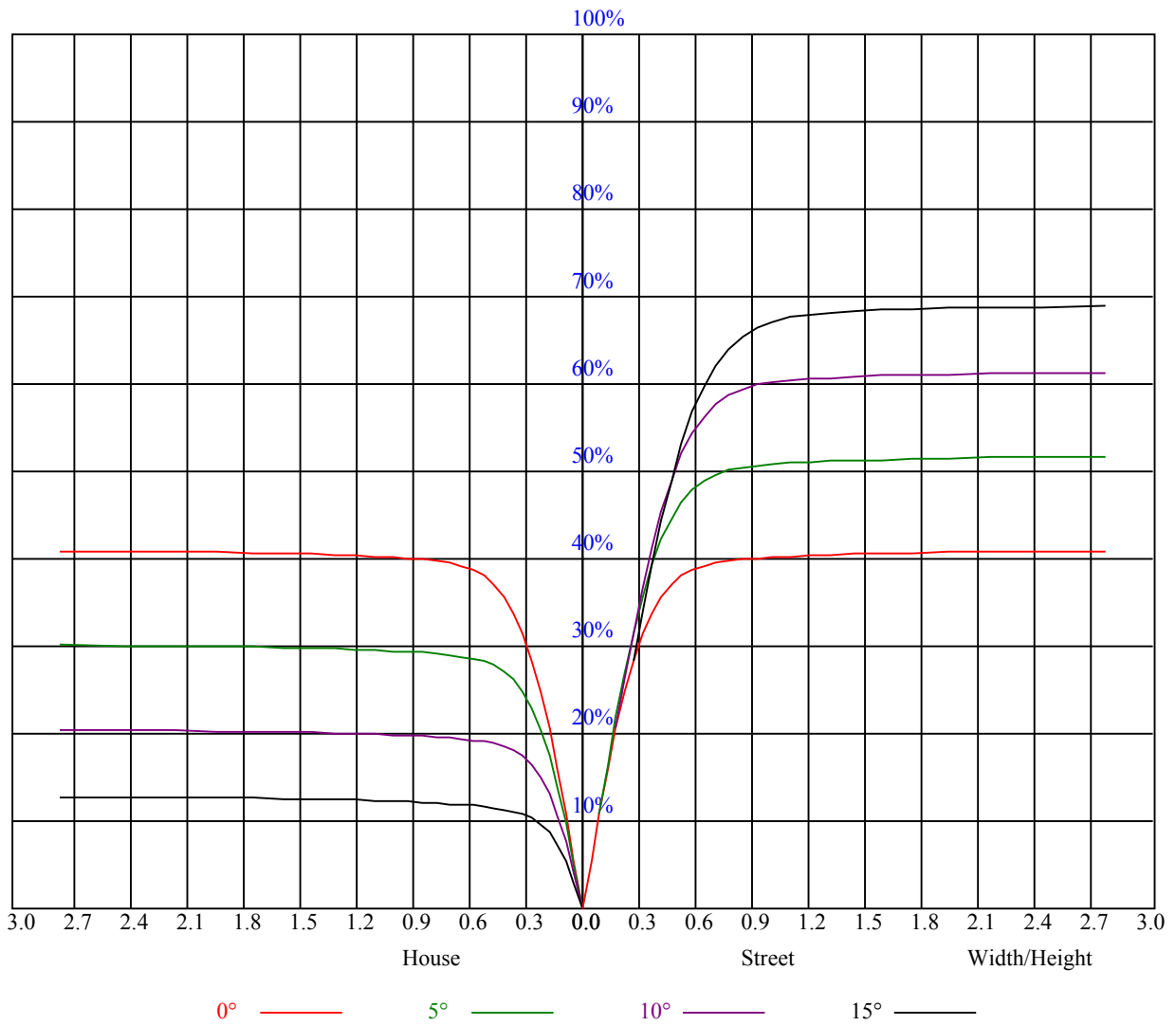


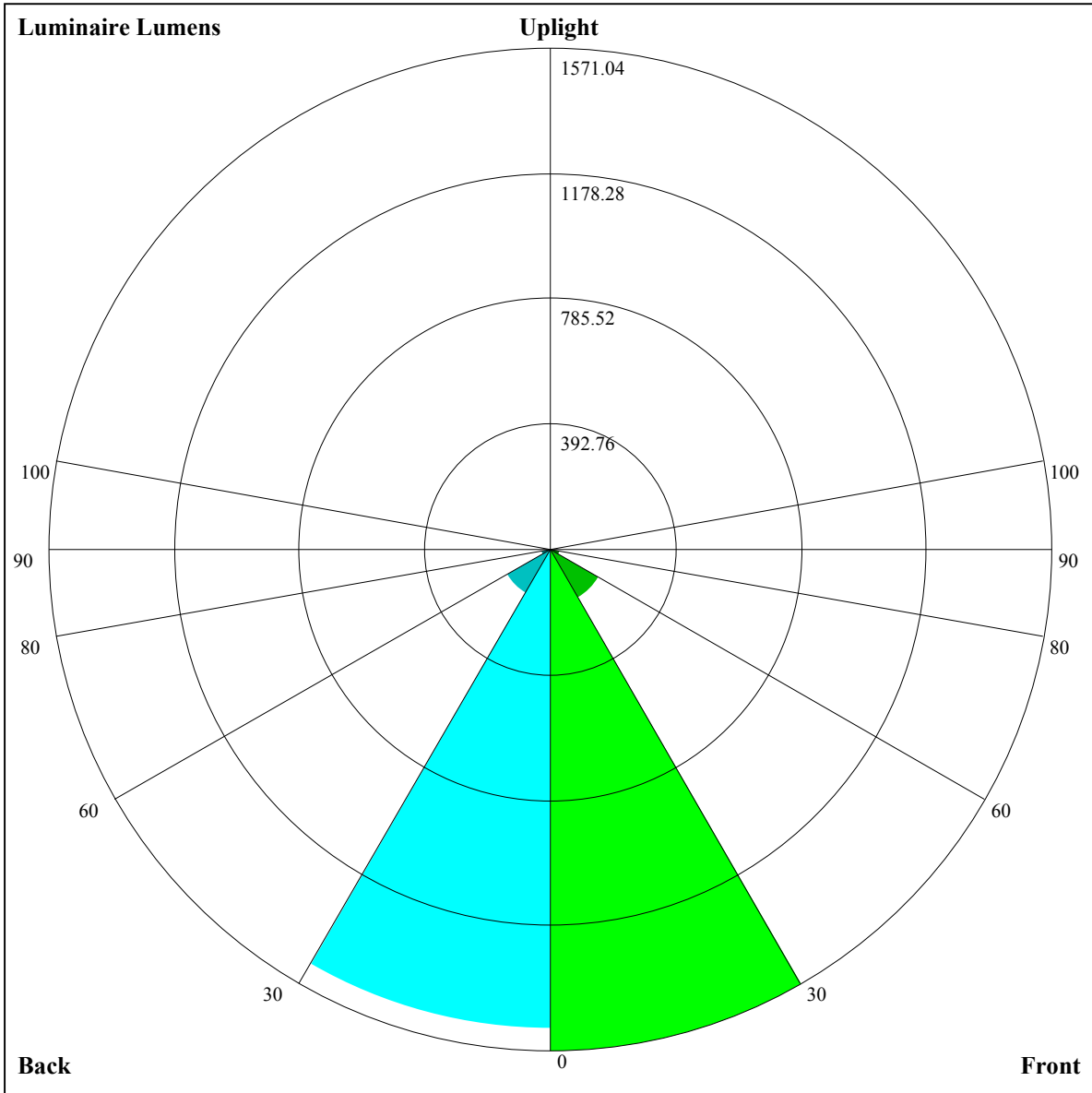
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	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	
	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	
	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	
4H	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	
	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	
	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	
	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	
	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	
8H	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	
	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	
	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	
	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	
	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	
12H	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	
	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	
	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	
	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	
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



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	COEFFICIENTS OF UTILIZATION RHOF=20 CU															
0	0.98	0.98	0.98	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.83
1	0.92	0.90	0.88	0.90	0.88	0.87	0.87	0.86	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.78
2	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	0.78	0.80	0.78	0.77	0.78	0.76	0.75	0.74
3	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.77	0.74	0.73	0.75	0.73	0.71	0.70
4	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.67
5	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.69	0.67	0.65	0.64
6	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.61
7	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59
8	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.56
9	0.62	0.58	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.54
10	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.56	0.53	0.58	0.55	0.53	0.58	0.55	0.53	0.52





Luminaire Lumens:

FL=1571.04,FM=177.15,FH=30.36,FVH=9.38

BL=1503.91,BM=160.85,BH=30.96,BVH=9.21

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	8554.88	8540.25	8515.08	8471.78	8418.52	8320.79	8192.62	8027.00	7772.43
45.0	8542.00	8559.56	8559.56	8536.74	8498.70	8450.71	8374.04	8261.68	8060.36
90.0	8561.32	8553.12	8539.66	8498.70	8436.08	8352.39	8170.38	7974.92	7757.22
135.0	8533.81	8543.76	8532.05	8509.82	8460.66	8386.33	8242.37	8068.56	7853.78
180.0	8554.88	8544.34	8515.08	8472.95	8391.01	8278.07	8067.97	7853.19	7616.18
225.0	8542.00	8496.36	8433.15	8352.39	8223.64	8010.62	7787.06	7543.02	7263.87
270.0	8561.32	8543.76	8505.72	8461.24	8373.46	8275.73	8138.78	7954.44	7675.28
315.0	8533.81	8498.11	8456.56	8394.53	8330.74	8191.45	8029.93	7831.54	7606.81
360.0	8554.88	8540.25	8515.08	8471.78	8418.52	8320.79	8192.62	8027.00	7772.43
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7526.64	7251.00	6868.84	6544.63	6202.27	5749.31	5384.13	5014.27	4560.72
45.0	7863.14	7629.05	7357.51	6978.87	6654.65	6318.73	5957.65	5489.47	5111.41
90.0	7506.15	7134.54	6809.15	6470.31	6106.88	5643.97	5268.84	4885.52	4515.65
135.0	7564.09	7298.40	6989.99	6582.08	6230.36	5864.60	5490.64	5021.29	4646.16
180.0	7285.52	6977.70	6648.21	6310.54	5858.75	5487.71	5122.53	4756.77	4400.95
225.0	6958.97	6553.99	6209.88	5854.06	5388.81	5016.02	4653.18	4201.39	3859.62
270.0	7421.88	7133.95	6733.66	6395.40	6043.68	5583.11	5216.75	4847.48	4385.73
315.0	7276.75	6977.70	6582.08	6244.99	5888.59	5431.53	5065.77	4698.24	4337.16
360.0	7526.64	7251.00	6868.84	6544.63	6202.27	5749.31	5384.13	5014.27	4560.72
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	4211.92	3873.08	3543.01	3136.86	2825.52	2542.28	2307.02	2043.08	1828.30
45.0	4650.84	4298.54	3953.25	3541.84	3225.82	2915.65	2630.06	2328.08	2117.99
90.0	4082.00	3746.67	3346.96	3035.62	2735.40	2403.58	2182.95	1979.29	1727.64
135.0	4286.25	3945.06	3537.16	3220.55	2915.65	2562.17	2327.50	2068.24	1860.49
180.0	3955.01	3604.46	3208.85	2895.75	2609.58	2321.06	2117.99	1908.48	1634.59
225.0	3440.01	3122.82	2815.58	2532.91	2247.91	2047.76	1844.10	1633.42	1448.39
270.0	4019.38	3688.15	3385.00	2977.68	2666.34	2418.21	2196.99	1934.23	1734.67
315.0	3901.75	3569.35	3247.47	2941.40	2579.15	2338.03	2127.35	1868.68	1656.25
360.0	4211.92	3873.08	3543.01	3136.86	2825.52	2542.28	2307.02	2043.08	1828.30
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1559.10	1126.27	1126.27	956.67	800.53	653.58	484.27	368.11	275.52
45.0	1903.21	1684.92	1426.84	1236.05	1055.80	849.81	697.06	557.19	401.52
90.0	1364.22	1139.49	1139.49	921.79	760.15	612.32	478.66	339.25	256.91
135.0	1646.30	1439.13	1198.60	1023.62	858.58	703.50	526.76	402.69	300.28
180.0	1430.93	1234.88	1055.22	848.05	695.31	553.68	426.10	295.01	295.01
225.0	1148.39	1017.59	850.98	660.31	523.31	373.37	277.28	213.43	177.09
270.0	1478.34	1288.14	1105.55	880.82	714.62	571.24	407.38	302.03	302.03
315.0	1159.16	1159.16	1023.44	854.43	660.60	519.97	396.90	296.77	214.54
360.0	1559.10	1126.27	1126.27	956.67	800.53	653.58	484.27	368.11	275.52
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	217.12	189.14	167.08	152.04	139.46	128.16	115.76	107.10	97.38
45.0	300.86	300.86	188.56	170.89	155.79	140.28	129.28	119.39	110.72
90.0	206.94	178.32	162.34	148.65	134.13	123.83	114.65	104.29	96.85
135.0	300.28	183.53	165.97	150.99	135.25	124.48	112.54	103.88	96.09
180.0	213.78	169.01	150.11	137.35	123.13	112.95	103.82	93.99	87.08
225.0	160.64	146.13	130.56	119.85	110.08	101.54	93.87	85.68	80.00
270.0	217.94	163.80	148.82	136.24	125.06	112.71	103.99	96.27	87.84
315.0	183.06	165.09	149.70	133.61	122.19	112.30	101.42	93.75	85.38
360.0	217.12	189.14	167.08	152.04	139.46	128.16	115.76	107.10	97.38

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	90.48	84.21	77.43	72.63	68.24	63.32	59.87	56.94	54.19
45.0	102.94	94.05	87.84	82.17	75.96	71.22	67.07	62.44	59.22
90.0	90.12	84.04	77.48	72.74	68.47	64.49	60.10	57.24	53.78
135.0	89.31	81.70	76.25	71.40	67.01	62.38	59.05	56.12	52.85
180.0	81.00	75.67	69.99	65.90	62.38	59.11	55.48	52.90	50.33
225.0	75.14	69.99	66.31	62.97	59.34	56.71	53.72	51.32	49.10
270.0	82.11	77.02	71.46	67.59	64.20	60.34	57.59	55.01	52.61
315.0	79.71	74.62	69.06	65.19	61.86	58.93	55.42	52.90	50.50
360.0	90.48	84.21	77.43	72.63	68.24	63.32	59.87	56.94	54.19
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	50.86	48.63	46.47	44.24	41.55	39.80	38.04	35.70	34.18
45.0	55.83	53.20	50.80	48.52	45.82	43.60	41.55	39.74	37.34
90.0	51.27	48.87	46.06	43.83	41.67	39.39	37.51	35.76	34.24
135.0	50.39	48.11	45.35	43.19	40.73	38.92	37.04	35.29	33.53
180.0	47.52	45.53	42.90	40.85	39.27	37.16	35.58	34.12	32.89
225.0	47.11	44.59	42.66	40.97	39.33	37.69	35.82	34.53	33.30
270.0	49.69	47.58	45.53	43.54	41.14	39.44	37.75	35.70	34.29
315.0	48.28	45.88	43.95	41.90	39.62	38.04	36.34	34.35	33.01
360.0	50.86	48.63	46.47	44.24	41.55	39.80	38.04	35.70	34.18
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	32.54	31.19	30.02	28.97	27.80	26.92	26.74	27.15	28.15
45.0	35.70	34.24	32.54	31.31	30.20	28.97	28.09	27.33	27.15
90.0	32.60	31.25	30.14	29.09	28.32	28.44	29.03	29.85	30.02
135.0	32.25	30.96	29.79	28.62	27.68	26.69	25.81	24.99	24.29
180.0	31.78	30.31	29.44	28.73	27.74	27.45	28.03	29.73	30.84
225.0	31.95	31.13	30.26	29.79	29.50	29.79	30.55	31.84	33.12
270.0	32.95	32.01	31.54	31.78	32.66	33.65	34.94	36.23	37.34
315.0	31.78	30.26	29.14	28.27	27.33	26.22	25.46	24.81	24.11
360.0	32.54	31.19	30.02	28.97	27.80	26.92	26.74	27.15	28.15
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	28.27	28.15	27.80	27.62	27.10	25.93	24.11	22.94	21.48
45.0	27.62	28.32	28.68	28.85	28.62	27.92	27.15	25.69	24.40
90.0	30.08	29.85	29.32	28.79	27.80	27.04	26.16	25.16	22.59
135.0	23.47	22.82	22.30	21.59	21.07	20.60	20.07	19.49	19.02
180.0	31.43	31.78	32.07	31.89	31.66	30.37	28.09	25.57	21.65
225.0	34.29	34.59	34.47	33.94	32.54	30.72	28.68	24.70	20.66
270.0	37.75	37.75	37.34	36.64	35.87	34.53	33.18	30.55	26.34
315.0	23.23	22.71	22.12	21.42	20.83	20.19	19.66	19.20	18.73
360.0	28.27	28.15	27.80	27.62	27.10	25.93	24.11	22.94	21.48
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	19.61	17.85	17.44	16.85	16.50	15.98	15.45	15.04	14.98
45.0	22.77	19.84	18.49	17.79	17.09	16.91	15.98	15.51	15.10
90.0	18.84	17.67	17.26	16.85	16.44	15.80	15.51	15.16	15.04
135.0	18.55	18.08	17.67	17.26	16.50	15.80	15.45	15.04	14.81
180.0	19.08	17.85	17.62	17.09	16.09	15.57	14.98	14.86	14.81
225.0	18.61	17.67	17.26	16.68	15.68	15.10	15.04	14.75	14.81
270.0	21.65	18.32	17.50	17.09	16.74	15.86	15.39	15.16	14.75
315.0	18.26	17.85	17.44	16.97	16.62	15.57	15.10	15.04	14.63
360.0	19.61	17.85	17.44	16.85	16.50	15.98	15.45	15.04	14.98

Intensity data(cd)

C/ γ ($^{\circ}$)	90.0
0.0	14.69
45.0	15.22
90.0	14.81
135.0	14.81
180.0	14.69
225.0	14.81
270.0	14.98
315.0	14.92
360.0	14.69