



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

Nata

Client:

LumCAT: 2-2456-L

Luminaire: 92.70.412.00

Report No: 2024822-B006

Ballast type: AC

Test No: 2024822-C006

Voltage(V): 34.860

LampCAT: Fortimo_SLM_C_1208

Current(A): 0.576

Lamp flux(lm): 3311.0

Power (W): 20.070

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2960.99, Efficiency(%): 89.43% , Luminous Efficacy(lm/W): 147.53

Central intensity(cd): 6385.516, Maximum intensity(cd): 6385.516

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=37.8

[C90/270]Total=37.8

Field angle(10%Imax): [C0/180]Total=66.4

[C90/270]Total=66.4

Maximum s/h(1/2): C0_180=0.61 C90_270=0.61

Maximum s/h(1/4): C0_180=0.63 C90_270=0.63

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 89.43%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.151%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/22
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6385.516	0.000	0	0.00%	0.00%
1.0	6372.158	6.104	6.104	0.18%	0.21%
2.0	6338.578	18.244	24.348	0.55%	0.82%
3.0	6276.028	30.170	54.518	0.91%	1.84%
4.0	6194.753	41.744	96.262	1.26%	3.25%
5.0	6086.948	52.835	149.097	1.60%	5.04%
6.0	5958.866	63.304	212.401	1.91%	7.17%
7.0	5817.000	73.093	285.493	2.21%	9.64%
8.0	5659.601	82.136	367.629	2.48%	12.42%
9.0	5473.924	90.231	457.86	2.73%	15.46%
10.0	5267.978	97.210	555.071	2.94%	18.75%
11.0	5083.911	103.437	658.507	3.12%	22.24%
12.0	4854.718	108.643	767.151	3.28%	25.91%
13.0	4623.772	112.486	879.637	3.40%	29.71%
14.0	4397.977	115.478	995.114	3.49%	33.61%
15.0	4159.369	117.479	1112.593	3.55%	37.58%
16.0	3918.758	118.367	1230.96	3.57%	41.57%
17.0	3666.077	118.116	1349.077	3.57%	45.56%
18.0	3428.573	116.975	1466.052	3.53%	49.51%
19.0	3177.383	114.930	1580.982	3.47%	53.39%
20.0	2932.074	111.820	1692.802	3.38%	57.17%
21.0	2695.845	108.067	1800.87	3.26%	60.82%
22.0	2474.656	103.903	1904.773	3.14%	64.33%
23.0	2277.211	99.707	2004.48	3.01%	67.70%
24.0	2072.165	95.093	2099.573	2.87%	70.91%
25.0	1897.638	90.265	2189.838	2.73%	73.96%
26.0	1695.502	84.816	2274.654	2.56%	76.82%
27.0	1508.163	78.378	2353.032	2.37%	79.47%
28.0	1385.120	73.252	2426.284	2.21%	81.94%
29.0	1227.479	68.353	2494.637	2.06%	84.25%
30.0	1031.539	60.993	2555.63	1.84%	86.31%
31.0	918.379	54.263	2609.894	1.64%	88.14%
32.0	787.209	48.863	2658.757	1.48%	89.79%
33.0	661.433	42.678	2701.434	1.29%	91.23%
34.0	544.475	36.494	2737.929	1.10%	92.47%
35.0	442.077	30.639	2768.567	0.93%	93.50%
36.0	358.411	25.488	2794.055	0.77%	94.36%
37.0	285.014	20.985	2815.04	0.63%	95.07%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	210.119	16.527	2831.567	0.50%	95.63%
39.0	172.326	13.054	2844.621	0.39%	96.07%
40.0	135.644	10.741	2855.361	0.32%	96.43%
41.0	103.292	8.508	2863.87	0.26%	96.72%
42.0	89.685	7.011	2870.881	0.21%	96.96%
43.0	80.545	6.306	2877.187	0.19%	97.17%
44.0	72.838	5.789	2882.976	0.17%	97.37%
45.0	66.163	5.342	2888.318	0.16%	97.55%
46.0	60.105	4.938	2893.256	0.15%	97.71%
47.0	55.335	4.591	2897.847	0.14%	97.87%
48.0	50.177	4.265	2902.113	0.13%	98.01%
49.0	46.143	3.955	2906.068	0.12%	98.15%
50.0	42.530	3.697	2909.765	0.11%	98.27%
51.0	38.732	3.438	2913.203	0.10%	98.39%
52.0	35.966	3.205	2916.409	0.10%	98.49%
53.0	33.022	3.001	2919.41	0.09%	98.60%
54.0	30.467	2.798	2922.208	0.08%	98.69%
55.0	28.331	2.625	2924.833	0.08%	98.78%
56.0	26.275	2.467	2927.3	0.07%	98.86%
57.0	24.573	2.325	2929.625	0.07%	98.94%
58.0	22.937	2.197	2931.822	0.07%	99.02%
59.0	21.459	2.076	2933.898	0.06%	99.09%
60.0	20.099	1.963	2935.861	0.06%	99.15%
61.0	18.877	1.860	2937.721	0.06%	99.21%
62.0	17.786	1.767	2939.487	0.05%	99.27%
63.0	16.715	1.678	2941.165	0.05%	99.33%
64.0	15.723	1.592	2942.757	0.05%	99.38%
65.0	14.809	1.511	2944.268	0.05%	99.44%
66.0	13.916	1.433	2945.701	0.04%	99.48%
67.0	13.075	1.357	2947.059	0.04%	99.53%
68.0	12.273	1.284	2948.343	0.04%	99.57%
69.0	11.406	1.208	2949.551	0.04%	99.61%
70.0	10.618	1.131	2950.682	0.03%	99.65%
71.0	9.875	1.059	2951.741	0.03%	99.69%
72.0	9.001	0.982	2952.722	0.03%	99.72%
73.0	8.351	0.907	2953.63	0.03%	99.75%
74.0	7.641	0.841	2954.471	0.03%	99.78%
75.0	7.004	0.774	2955.244	0.02%	99.81%

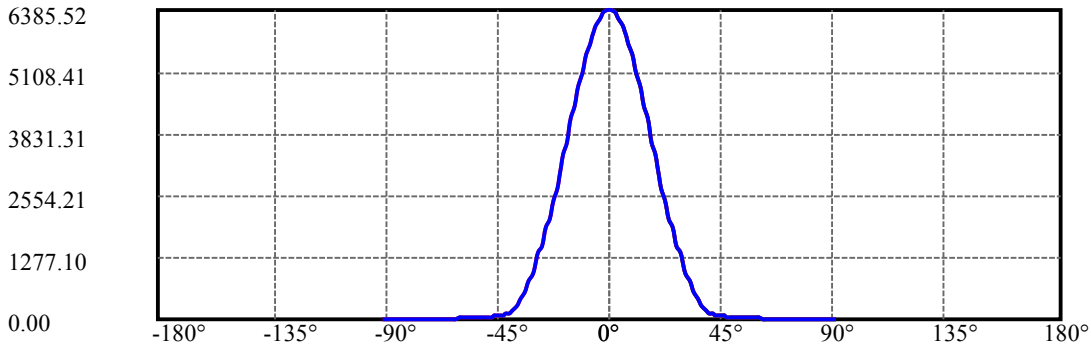
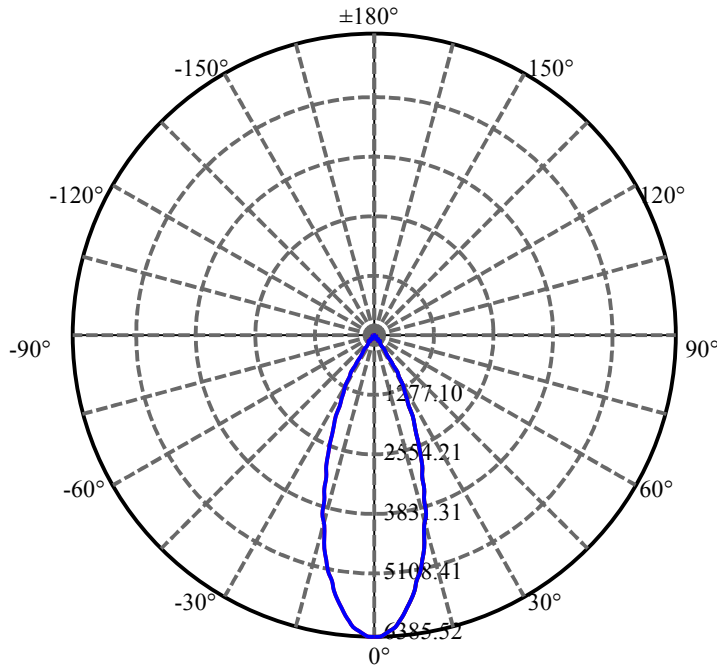
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.386	0.711	2955.955	0.02%	99.83%
77.0	5.848	0.652	2956.607	0.02%	99.85%
78.0	5.375	0.601	2957.208	0.02%	99.87%
79.0	4.836	0.549	2957.757	0.02%	99.89%
80.0	4.382	0.497	2958.254	0.02%	99.91%
81.0	3.896	0.448	2958.701	0.01%	99.92%
82.0	3.495	0.401	2959.102	0.01%	99.94%
83.0	3.055	0.356	2959.458	0.01%	99.95%
84.0	2.694	0.313	2959.772	0.01%	99.96%
85.0	2.392	0.278	2960.049	0.01%	99.97%
86.0	2.070	0.244	2960.293	0.01%	99.98%
87.0	1.787	0.211	2960.504	0.01%	99.98%
88.0	1.557	0.183	2960.687	0.01%	99.99%
89.0	1.334	0.158	2960.846	0.00%	100.00%
90.0	1.216	0.140	2960.985	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2555.63	77.19%	86.31%
0-40	2855.36	86.24%	96.43%
0-60	2935.86	88.67%	99.15%
0-90	2960.85	89.42%	100.00%
0-120	2960.85	89.42%	100.00%
0-180	2960.99	89.43%	100.00%
60-90	24.98	0.75%	0.84%
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%
0-27.22	2368.79	71.54%	80.00%

ZONAL LUMEN SUMMARY

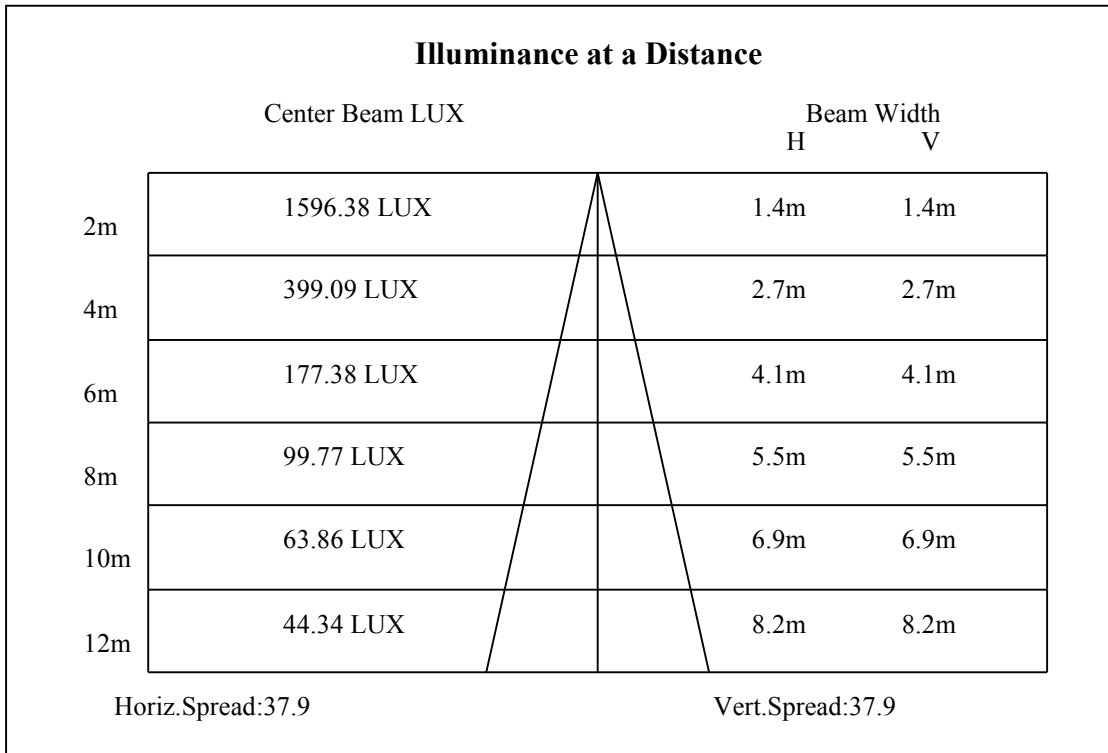
0-10	555.07
10-20	1137.73
20-30	862.83
30-40	299.73
40-50	54.40
50-60	26.10
60-70	14.82
70-80	7.57
80-90	2.59
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

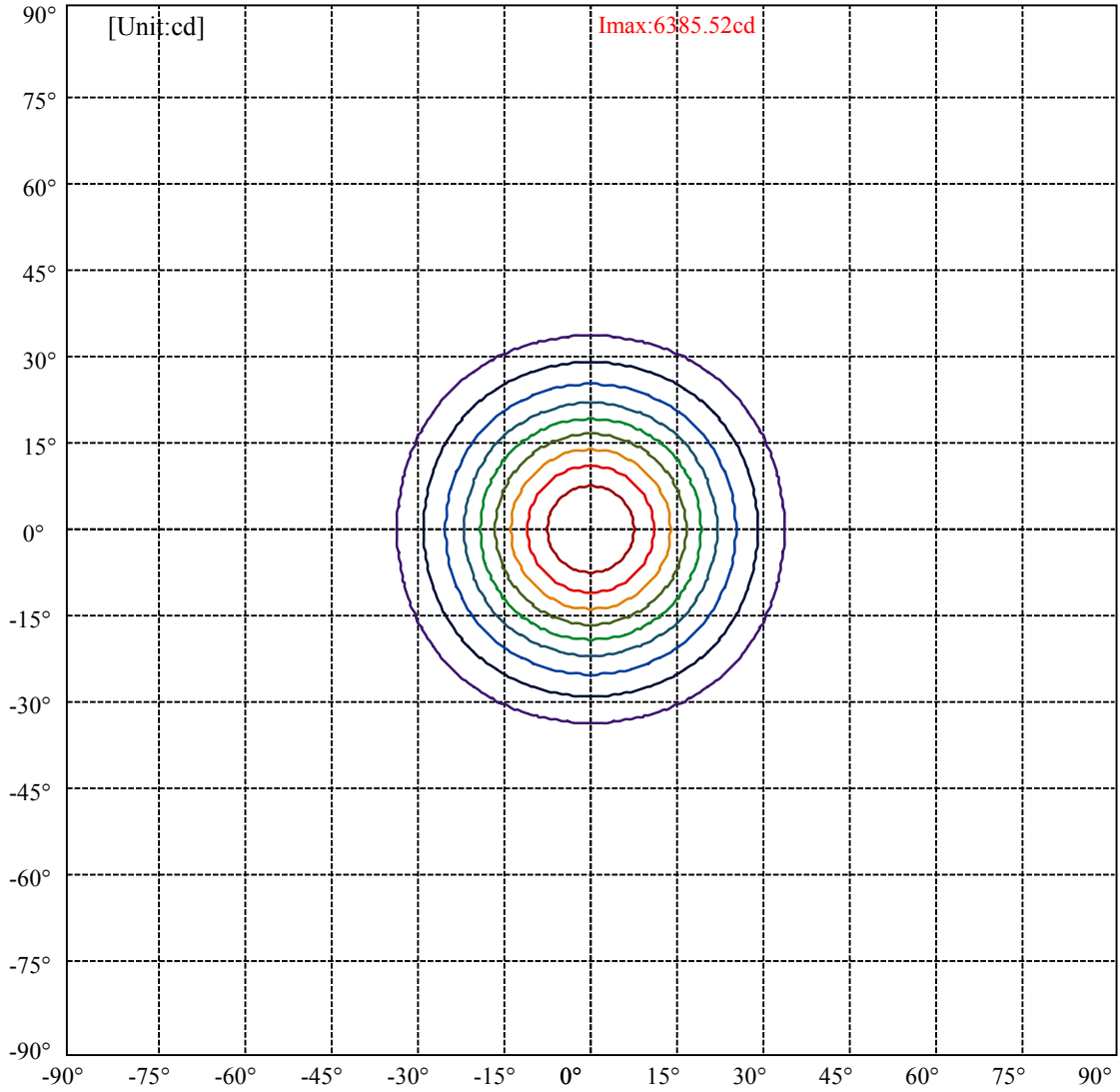


C0(Max): ———
C0/C180: ———
C90/C270: ———

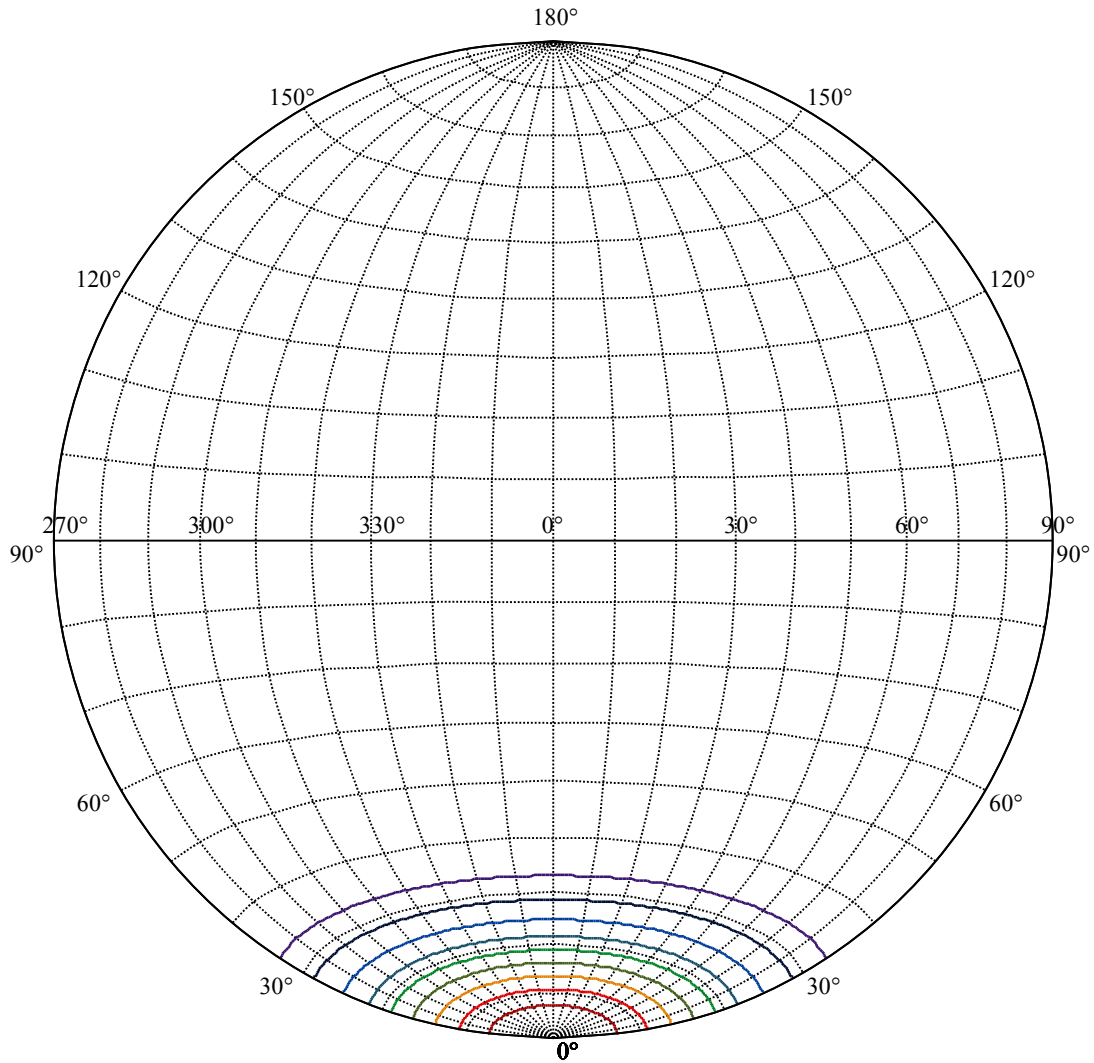
Field angle(10%Imax):C0/180Left:33.2 Right:33.2
:C90/270Left:33.2 Right:33.2

Beam Angle(50%Imax):C0/180Left:18.9 Right:18.9
:C90/270Left:18.9 Right:18.9





(10%Imax) 638.552	—
(20%Imax) 1277.1	—
(30%Imax) 1915.65	—
(40%Imax) 2554.21	—
(50%Imax) 3192.76	—
(60%Imax) 3831.31	—
(70%Imax) 4469.86	—
(80%Imax) 5108.41	—
(90%Imax) 5746.96	—



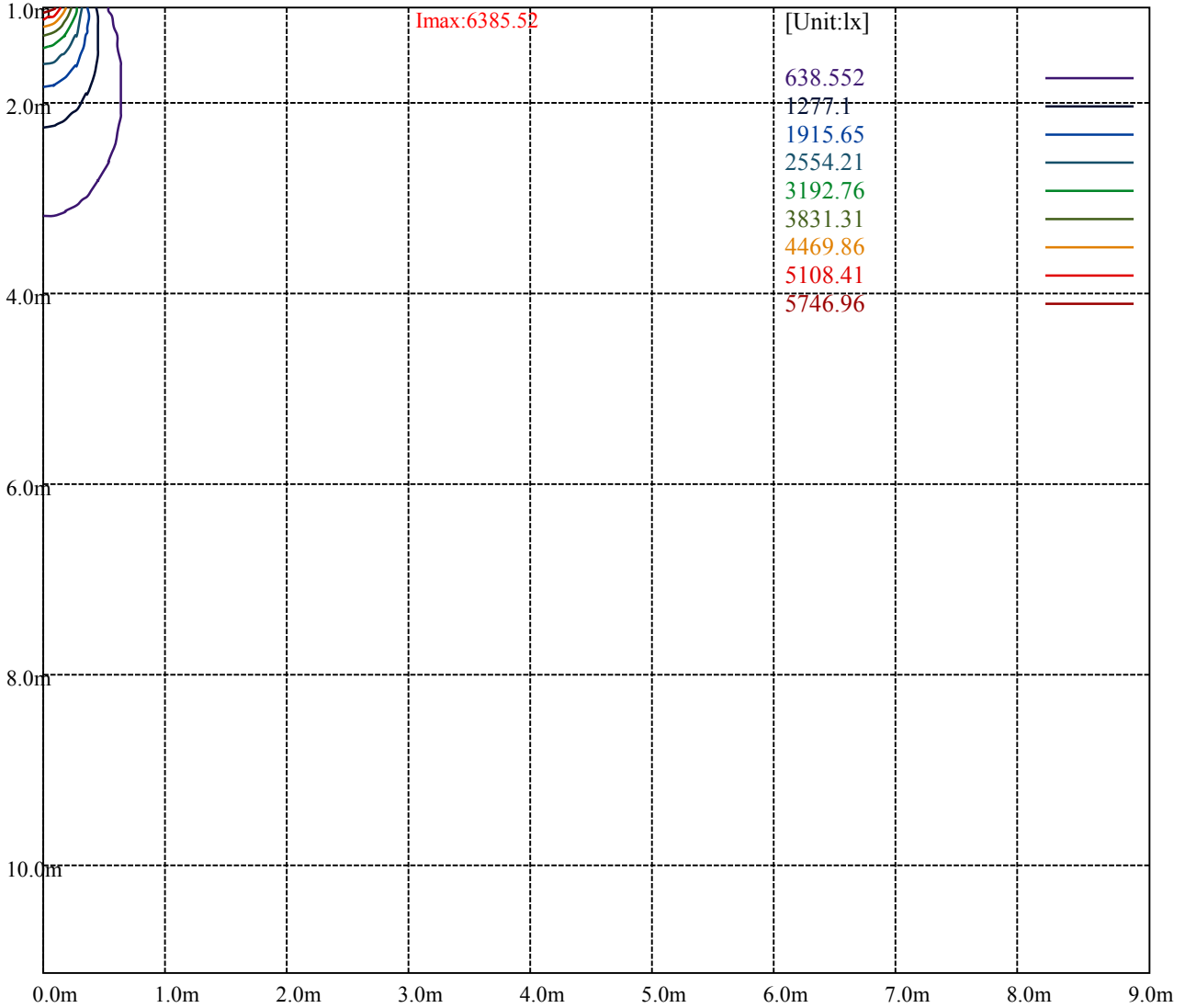
House

[Unit:cd]

Road

Imax:6385.52

(10%Imax) 638.552	—
(20%Imax) 1277.1	—
(30%Imax) 1915.65	—
(40%Imax) 2554.21	—
(50%Imax) 3192.76	—
(60%Imax) 3831.31	—
(70%Imax) 4469.86	—
(80%Imax) 5108.41	—
(90%Imax) 5746.96	—



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

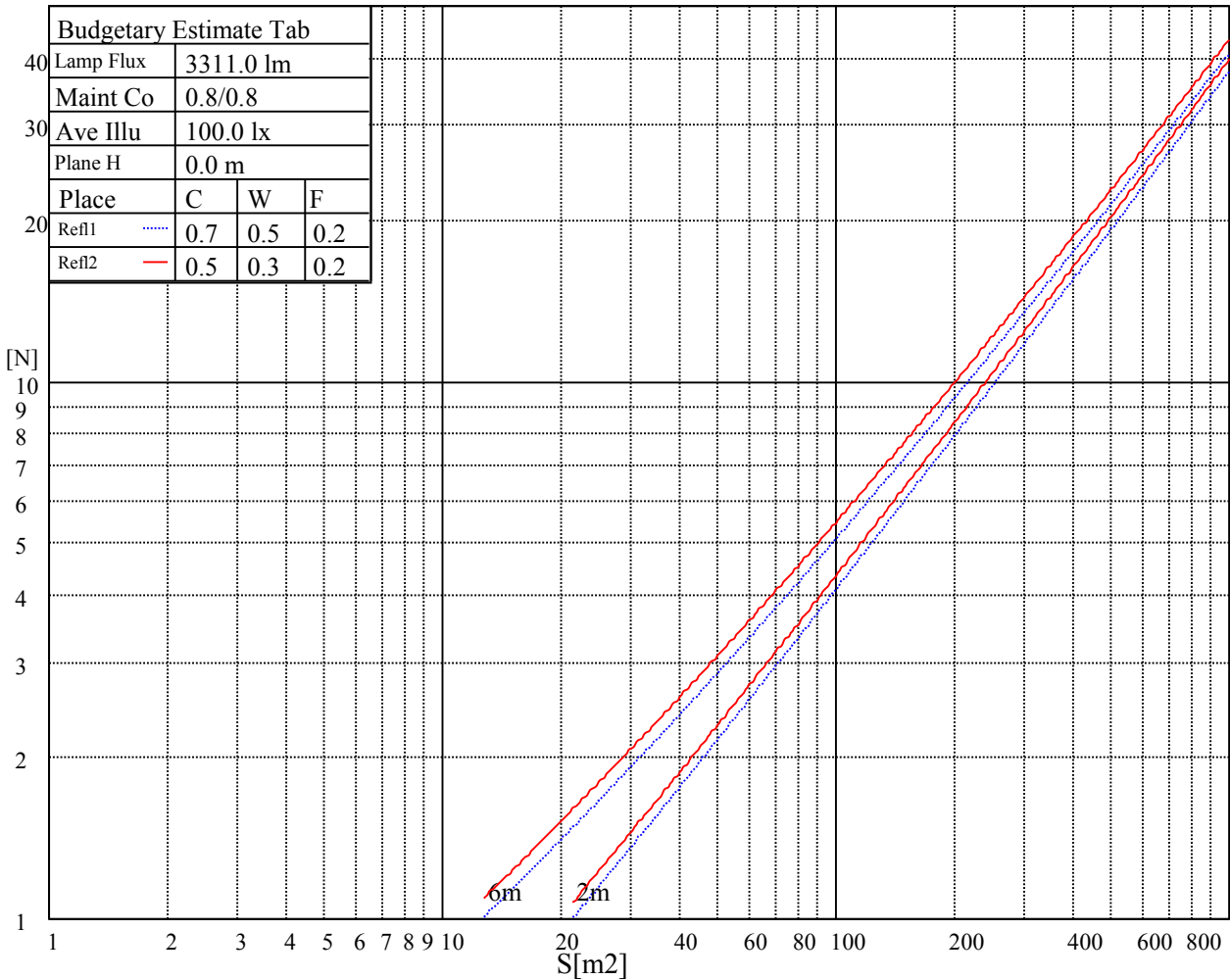
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

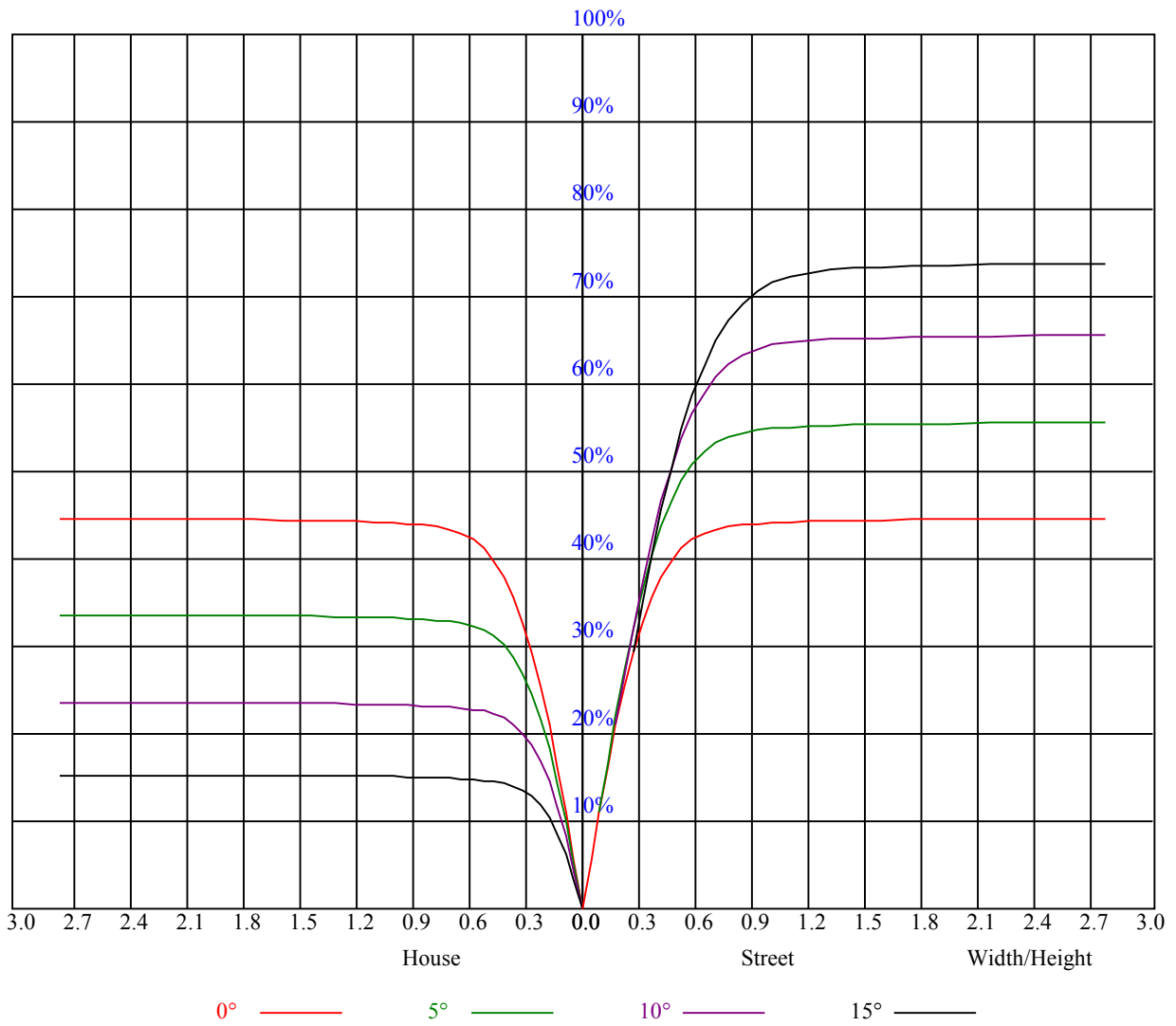


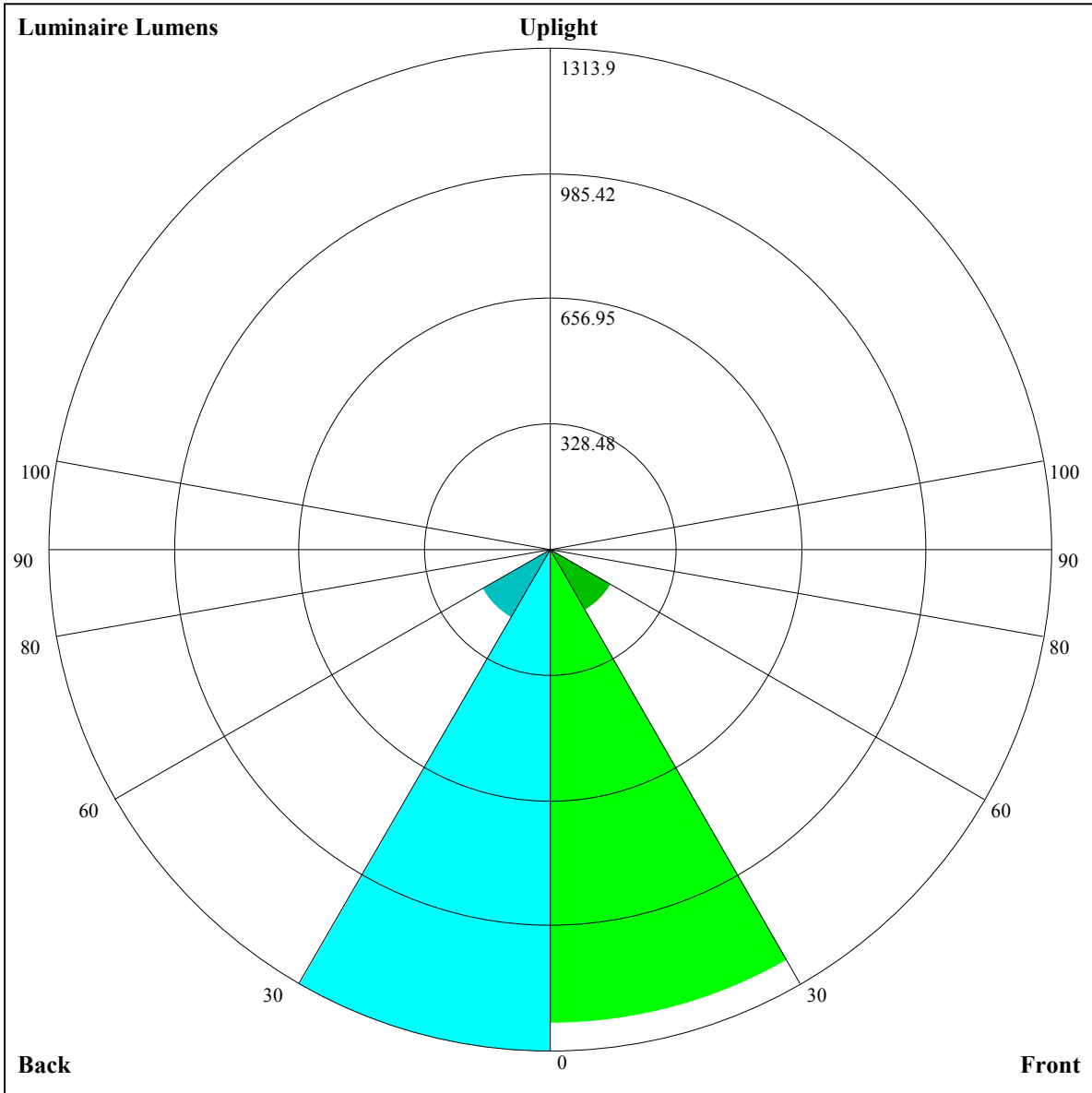
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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 RHOFC=20 CU															
0	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	1.00	0.98	0.96	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.91	0.88	0.92	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.82	0.80
3	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.77	0.76
4	0.84	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.78	0.75	0.73	0.72
5	0.80	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
6	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.65
7	0.72	0.68	0.65	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
8	0.69	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.66	0.61	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.57
10	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55





Luminaire Lumens:

FL=1240.63,FM=181.41,FH=10.67,FVH=1.29

BL=1313.9,BM=208.4,BH=11.66,BVH=1.46

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	6374.25	6330.79	6260.04	6166.95	6057.78	5922.37	5763.01	5587.50	5402.53
45.0	6405.42	6368.10	6310.18	6228.81	6118.49	5986.45	5836.01	5663.29	5473.86
90.0	6353.07	6273.97	6197.59	6075.02	5942.98	5775.30	5593.65	5402.01	5276.07
135.0	6409.31	6390.97	6345.82	6276.75	6186.45	6073.39	5944.66	5788.08	5608.16
180.0	6374.25	6397.64	6399.33	6366.42	6314.60	6271.70	6140.77	6073.91	5940.19
225.0	6405.42	6410.47	6400.43	6353.60	6290.10	6190.92	6082.85	5945.76	5797.01
270.0	6353.07	6397.64	6419.35	6412.68	6382.61	6327.42	6252.78	6149.71	6033.23
315.0	6409.31	6407.68	6375.88	6328.00	6265.03	6148.03	6057.20	5925.74	5745.76
360.0	6374.25	6330.79	6260.04	6166.95	6057.78	5922.37	5763.01	5587.50	5402.53
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5190.81	4966.26	4741.19	4509.97	4265.39	4024.66	3831.33	3532.15	3326.00
45.0	5311.70	5047.05	4821.40	4631.97	4400.22	4158.38	3905.45	3659.19	3401.79
90.0	4959.06	4716.12	4584.61	4340.61	4084.84	3839.69	3571.15	3307.07	3054.09
135.0	5407.58	5200.85	4962.37	4723.37	4494.36	4248.10	4002.95	3855.30	3495.35
180.0	5718.43	5611.47	5411.47	5204.21	4973.52	4745.66	4517.22	4279.32	4046.42
225.0	5630.97	5442.64	5320.06	5009.21	4876.59	4645.37	4408.00	4168.42	3933.30
270.0	5964.16	5746.87	5634.33	5445.42	5154.07	5022.56	4784.08	4536.72	4302.14
315.0	5608.58	5412.57	5195.86	4972.99	4741.19	4499.40	4254.78	4011.89	3769.52
360.0	5190.81	4966.26	4741.19	4509.97	4265.39	4024.66	3831.33	3532.15	3326.00
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3069.70	2822.34	2579.40	2353.75	2150.96	1967.10	1797.69	1633.33	1458.92
45.0	3137.67	2875.27	2626.18	2394.43	2185.50	1992.17	1812.72	1643.37	1462.87
90.0	2798.90	2543.76	2316.96	2113.59	1931.99	1765.94	1599.90	1423.29	1058.66
135.0	3338.82	3075.27	2816.19	2573.25	2349.28	2145.92	1960.95	1790.44	1622.76
180.0	3806.26	3556.12	3300.35	3053.57	2805.63	2658.51	2348.18	2147.60	2036.17
225.0	3693.15	3446.37	3201.74	2961.06	2726.47	2499.71	2293.56	2104.71	1924.16
270.0	4055.30	3821.29	3582.29	3331.57	3091.99	2844.05	2615.04	2398.32	2198.32
315.0	3528.78	3278.64	3033.49	2785.55	2555.43	2344.29	2149.28	2040.06	1802.16
360.0	3069.70	2822.34	2579.40	2353.75	2150.96	1967.10	1797.69	1633.33	1458.92
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1062.87	1062.87	969.36	821.13	688.73	615.72	458.71	397.90	307.07
45.0	1286.78	1115.74	959.74	817.08	687.25	569.72	504.55	404.26	314.53
90.0	1058.66	967.41	824.97	695.45	577.45	470.38	373.30	286.52	212.35
135.0	1449.46	1271.75	1103.50	946.91	804.84	675.01	559.11	451.62	357.43
180.0	1798.27	1697.98	1520.79	1340.82	1165.89	1000.95	848.83	713.48	588.65
225.0	1752.01	1579.29	1470.07	1055.19	1055.19	928.88	784.76	653.09	535.98
270.0	2021.66	1852.88	1691.30	1517.43	1342.50	1168.67	1037.16	852.20	739.66
315.0	1635.59	1533.04	1280.11	1058.29	1025.18	868.33	725.05	596.74	480.95
360.0	1062.87	1062.87	969.36	821.13	688.73	615.72	458.71	397.90	307.07
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	228.49	166.41	124.63	104.81	94.35	84.89	76.90	70.07	63.81
45.0	281.68	213.46	128.73	105.97	94.72	85.31	77.37	70.59	64.28
90.0	154.38	119.84	102.55	92.77	83.94	76.95	70.49	64.60	59.45
135.0	306.18	306.18	156.16	120.26	103.44	93.51	84.84	77.06	70.80
180.0	476.69	375.82	305.07	305.07	144.86	111.80	96.61	90.25	80.47
225.0	430.33	336.29	256.77	190.49	140.87	111.96	97.19	86.62	77.48
270.0	611.51	473.90	391.43	300.03	300.03	158.16	119.32	100.29	89.78
315.0	378.03	288.20	215.61	159.21	122.94	103.76	94.77	84.89	76.64
360.0	228.49	166.41	124.63	104.81	94.35	84.89	76.90	70.07	63.81

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	58.13	53.04	48.36	43.94	40.11	36.58	33.43	30.75	28.70
45.0	59.76	53.77	49.20	45.78	41.16	38.42	35.43	32.69	30.22
90.0	54.40	50.09	47.46	42.26	40.11	37.00	34.11	31.59	29.22
135.0	65.18	60.08	55.30	51.14	47.20	43.73	40.58	38.95	35.37
180.0	72.33	65.34	59.29	53.98	49.09	44.57	40.68	37.21	34.01
225.0	69.80	63.13	57.24	52.09	49.20	44.78	40.74	37.27	34.11
270.0	80.37	72.54	68.54	59.92	54.67	51.67	45.26	42.94	39.16
315.0	69.33	62.86	57.29	52.30	47.62	43.47	39.63	36.32	33.38
360.0	58.13	53.04	48.36	43.94	40.11	36.58	33.43	30.75	28.70
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.18	24.13	22.76	21.24	19.82	18.55	17.24	16.19	15.19
45.0	28.12	26.18	24.49	22.86	21.50	20.18	18.98	17.87	16.87
90.0	27.12	25.23	23.44	21.87	20.39	18.98	17.71	16.61	15.51
135.0	33.06	31.85	29.07	28.02	26.28	24.65	23.23	21.76	20.60
180.0	31.27	29.01	26.86	24.97	23.23	21.76	20.45	19.24	18.13
225.0	31.33	28.91	26.86	25.02	23.34	21.92	20.60	19.45	18.45
270.0	35.95	32.96	30.38	28.07	26.02	24.13	22.44	20.92	19.66
315.0	30.70	28.38	26.33	24.55	22.92	21.50	20.13	18.98	17.87
360.0	26.18	24.13	22.76	21.24	19.82	18.55	17.24	16.19	15.19
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.30	13.35	12.51	11.77	11.04	10.30	9.57	8.83	8.25
45.0	15.82	14.82	13.88	12.98	12.09	11.14	10.62	9.41	8.83
90.0	14.40	13.40	12.51	11.67	10.78	10.14	9.15	8.52	7.73
135.0	19.40	18.08	16.98	15.93	14.88	13.77	12.67	11.67	10.62
180.0	17.14	16.24	15.66	14.40	13.93	13.09	12.30	11.51	10.78
225.0	17.40	16.45	15.66	14.72	13.77	13.30	12.14	11.56	10.78
270.0	18.40	17.19	16.24	15.30	14.35	13.51	12.72	12.04	11.46
315.0	16.87	16.24	15.03	14.56	13.77	12.93	12.09	11.41	10.57
360.0	14.30	13.35	12.51	11.77	11.04	10.30	9.57	8.83	8.25
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.57	6.94	6.41	6.04	5.31	4.84	4.57	3.94	3.68
45.0	8.09	7.31	6.62	6.04	5.57	4.99	4.52	4.10	3.63
90.0	6.83	6.36	5.83	5.31	4.78	4.26	3.84	3.36	3.00
135.0	9.62	8.99	7.78	7.04	6.73	6.15	5.68	5.15	4.68
180.0	10.04	9.20	8.46	7.73	6.94	6.41	5.94	5.41	4.89
225.0	9.57	9.20	8.36	7.57	6.94	6.41	5.83	5.26	4.84
270.0	10.57	9.83	9.25	8.57	7.78	7.25	6.68	6.04	5.52
315.0	9.72	8.99	8.41	7.73	7.04	6.47	5.94	5.41	4.84
360.0	7.57	6.94	6.41	6.04	5.31	4.84	4.57	3.94	3.68
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.26	2.79	2.47	2.21	1.94	1.73	1.42	1.16	1.05
45.0	3.10	2.79	2.31	2.05	1.79	1.47	1.26	1.05	1.00
90.0	2.63	2.31	2.10	1.84	1.52	1.31	1.05	1.10	1.10
135.0	4.15	3.63	3.21	2.94	2.63	2.26	1.94	1.58	1.10
180.0	4.36	4.05	3.47	3.00	2.73	2.37	2.10	1.84	1.52
225.0	4.31	3.94	3.47	2.94	2.68	2.31	2.05	1.79	1.47
270.0	4.99	4.47	3.99	3.47	3.10	2.68	2.31	2.00	1.73
315.0	4.36	3.99	3.42	3.10	2.73	2.42	2.16	1.94	1.68
360.0	3.26	2.79	2.47	2.21	1.94	1.73	1.42	1.16	1.05

Intensity data(cd)

C/ γ (°)	90.0
0.0	1.00
45.0	1.00
90.0	1.10
135.0	1.10
180.0	1.26
225.0	1.37
270.0	1.52
315.0	1.37
360.0	1.00