



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: 2-2684-L

Luminaire: 92.70.412.00

Report No: 2024320-B003

Ballast type: AC

Test No: 2024320-C003

Voltage(V): 35.180

LampCAT: Fortimo_SLM_C_1205

Current(A): 0.451

Lamp flux(lm): 2717.0

Power (W): 15.866

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2318.00, Efficiency(%): 85.31% , Luminous Efficacy(lm/W): 146.10

Central intensity(cd): 5287.128, Maximum intensity(cd): 5287.128

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.4

[C90/270]Total=35.4

Field angle(10%Imax): [C0/180]Total=66.0

[C90/270]Total=66.0

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

Maximum s/h(1/4): C0_180=0.59 C90_270=0.59

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.31%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.088%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/20
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	5287.127	0.000	0	0.00%	0.00%
1.0	5277.252	5.055	5.055	0.19%	0.22%
2.0	5244.772	15.102	20.157	0.56%	0.87%
3.0	5193.418	24.965	45.122	0.92%	1.95%
4.0	5114.998	34.506	79.627	1.27%	3.44%
5.0	5024.874	43.621	123.249	1.61%	5.32%
6.0	4909.804	52.209	175.458	1.92%	7.57%
7.0	4783.615	60.167	235.625	2.21%	10.17%
8.0	4627.945	67.357	302.982	2.48%	13.07%
9.0	4455.157	73.614	376.595	2.71%	16.25%
10.0	4275.786	79.012	455.607	2.91%	19.66%
11.0	4070.957	83.401	539.008	3.07%	23.25%
12.0	3870.078	86.807	625.815	3.19%	27.00%
13.0	3644.547	89.180	714.995	3.28%	30.85%
14.0	3430.135	90.555	805.55	3.33%	34.75%
15.0	3217.333	91.259	896.809	3.36%	38.69%
16.0	3007.822	91.216	988.025	3.36%	42.62%
17.0	2787.266	90.245	1078.27	3.32%	46.52%
18.0	2581.193	88.514	1166.785	3.26%	50.34%
19.0	2379.144	86.300	1253.084	3.18%	54.06%
20.0	2185.947	83.554	1336.638	3.08%	57.66%
21.0	1983.240	80.057	1416.695	2.95%	61.12%
22.0	1806.868	76.164	1492.859	2.80%	64.40%
23.0	1634.592	72.211	1565.07	2.66%	67.52%
24.0	1483.238	68.167	1633.237	2.51%	70.46%
25.0	1306.237	63.427	1696.664	2.33%	73.20%
26.0	1230.443	59.879	1756.542	2.20%	75.78%
27.0	1146.002	58.140	1814.682	2.14%	78.29%
28.0	1050.618	55.614	1870.296	2.05%	80.69%
29.0	952.505	52.407	1922.703	1.93%	82.95%
30.0	835.211	48.268	1970.971	1.78%	85.03%
31.0	735.006	43.697	2014.668	1.61%	86.91%
32.0	624.347	38.944	2053.612	1.43%	88.59%
33.0	527.822	33.943	2087.556	1.25%	90.06%
34.0	431.201	29.023	2116.578	1.07%	91.31%
35.0	343.059	24.046	2140.624	0.89%	92.35%
36.0	274.661	19.668	2160.292	0.72%	93.20%
37.0	232.481	16.540	2176.832	0.61%	93.91%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	167.396	13.347	2190.18	0.49%	94.49%
39.0	98.340	9.070	2199.25	0.33%	94.88%
40.0	76.547	6.099	2205.35	0.22%	95.14%
41.0	66.738	5.102	2210.452	0.19%	95.36%
42.0	62.231	4.686	2215.138	0.17%	95.56%
43.0	57.967	4.452	2219.59	0.16%	95.75%
44.0	54.089	4.229	2223.819	0.16%	95.94%
45.0	51.171	4.045	2227.865	0.15%	96.11%
46.0	48.515	3.898	2231.763	0.14%	96.28%
47.0	45.947	3.757	2235.52	0.14%	96.44%
48.0	43.760	3.626	2239.147	0.13%	96.60%
49.0	41.551	3.503	2242.65	0.13%	96.75%
50.0	39.554	3.382	2246.031	0.12%	96.90%
51.0	37.535	3.262	2249.293	0.12%	97.04%
52.0	35.699	3.143	2252.435	0.12%	97.17%
53.0	33.980	3.031	2255.466	0.11%	97.30%
54.0	32.261	2.920	2258.386	0.11%	97.43%
55.0	30.615	2.807	2261.193	0.10%	97.55%
56.0	29.122	2.699	2263.892	0.10%	97.67%
57.0	27.696	2.598	2266.49	0.10%	97.78%
58.0	26.218	2.493	2268.983	0.09%	97.89%
59.0	24.953	2.392	2271.375	0.09%	97.99%
60.0	23.746	2.301	2273.676	0.08%	98.09%
61.0	22.524	2.208	2275.884	0.08%	98.18%
62.0	21.529	2.123	2278.007	0.08%	98.27%
63.0	20.490	2.044	2280.05	0.08%	98.36%
64.0	19.627	1.969	2282.019	0.07%	98.45%
65.0	18.800	1.902	2283.921	0.07%	98.53%
66.0	18.083	1.840	2285.761	0.07%	98.61%
67.0	17.301	1.779	2287.54	0.07%	98.69%
68.0	16.642	1.719	2289.26	0.06%	98.76%
69.0	16.072	1.669	2290.929	0.06%	98.83%
70.0	15.487	1.621	2292.549	0.06%	98.90%
71.0	14.916	1.571	2294.121	0.06%	98.97%
72.0	14.440	1.526	2295.647	0.06%	99.04%
73.0	14.009	1.488	2297.135	0.05%	99.10%
74.0	13.592	1.451	2298.586	0.05%	99.16%
75.0	13.175	1.414	2300	0.05%	99.22%

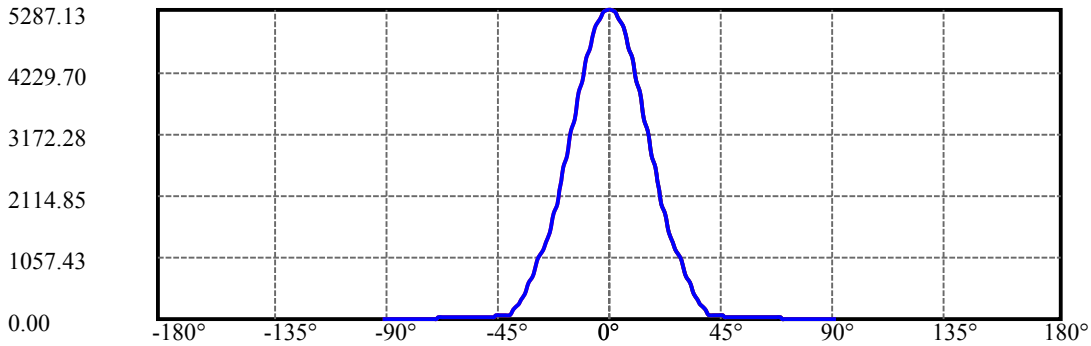
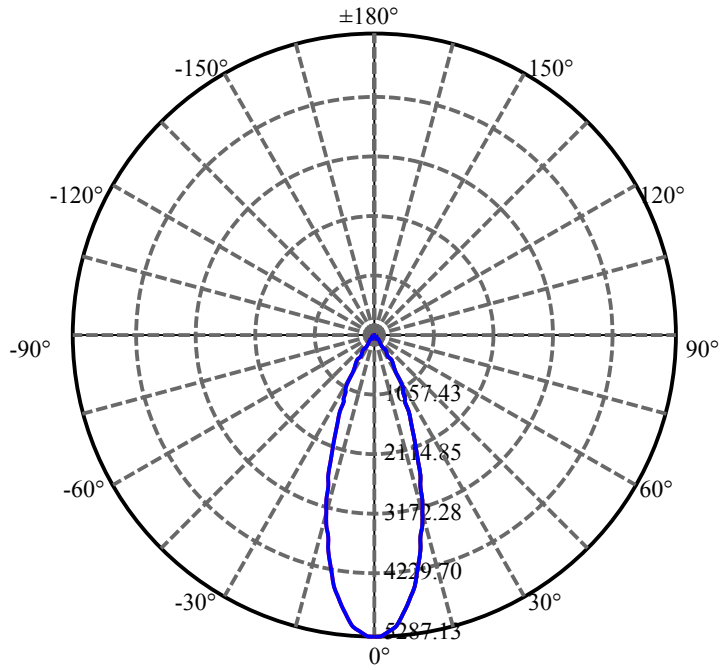
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.853	1.382	2301.382	0.05%	99.28%
77.0	12.546	1.354	2302.736	0.05%	99.34%
78.0	12.260	1.328	2304.064	0.05%	99.40%
79.0	11.975	1.302	2305.366	0.05%	99.46%
80.0	11.661	1.274	2306.64	0.05%	99.51%
81.0	11.412	1.248	2307.888	0.05%	99.56%
82.0	11.119	1.222	2309.11	0.04%	99.62%
83.0	10.893	1.197	2310.306	0.04%	99.67%
84.0	10.505	1.166	2311.472	0.04%	99.72%
85.0	10.227	1.131	2312.604	0.04%	99.77%
86.0	10.051	1.108	2313.712	0.04%	99.82%
87.0	9.854	1.089	2314.801	0.04%	99.86%
88.0	9.766	1.075	2315.876	0.04%	99.91%
89.0	9.634	1.063	2316.939	0.04%	99.95%
90.0	9.642	1.057	2317.996	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1970.97	72.54%	85.03%
0-40	2205.35	81.17%	95.14%
0-60	2273.68	83.68%	98.09%
0-90	2316.94	85.28%	99.95%
0-120	2316.94	85.28%	99.95%
0-180	2318.00	85.31%	100.00%
60-90	43.26	1.59%	1.87%
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%
0-27.71	1854.40	68.25%	80.00%

ZONAL LUMEN SUMMARY

0-10	455.61
10-20	881.03
20-30	634.33
30-40	234.38
40-50	40.68
50-60	27.64
60-70	18.87
70-80	14.09
80-90	10.30
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: —————

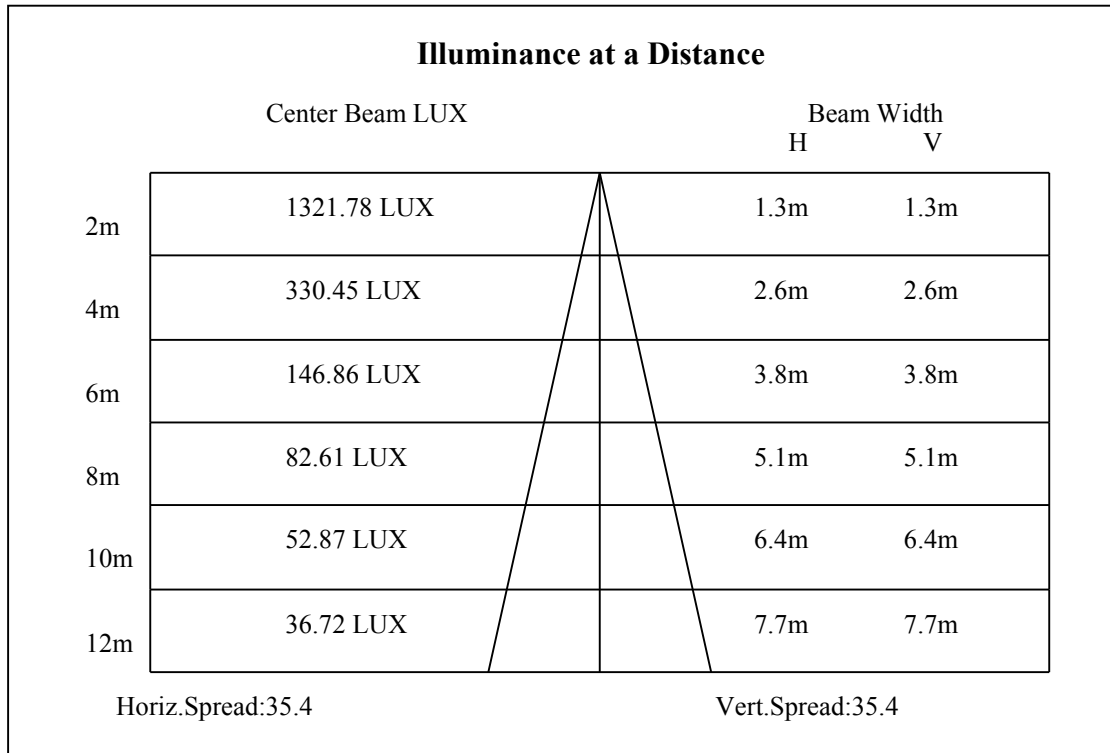
C90/C270: —————

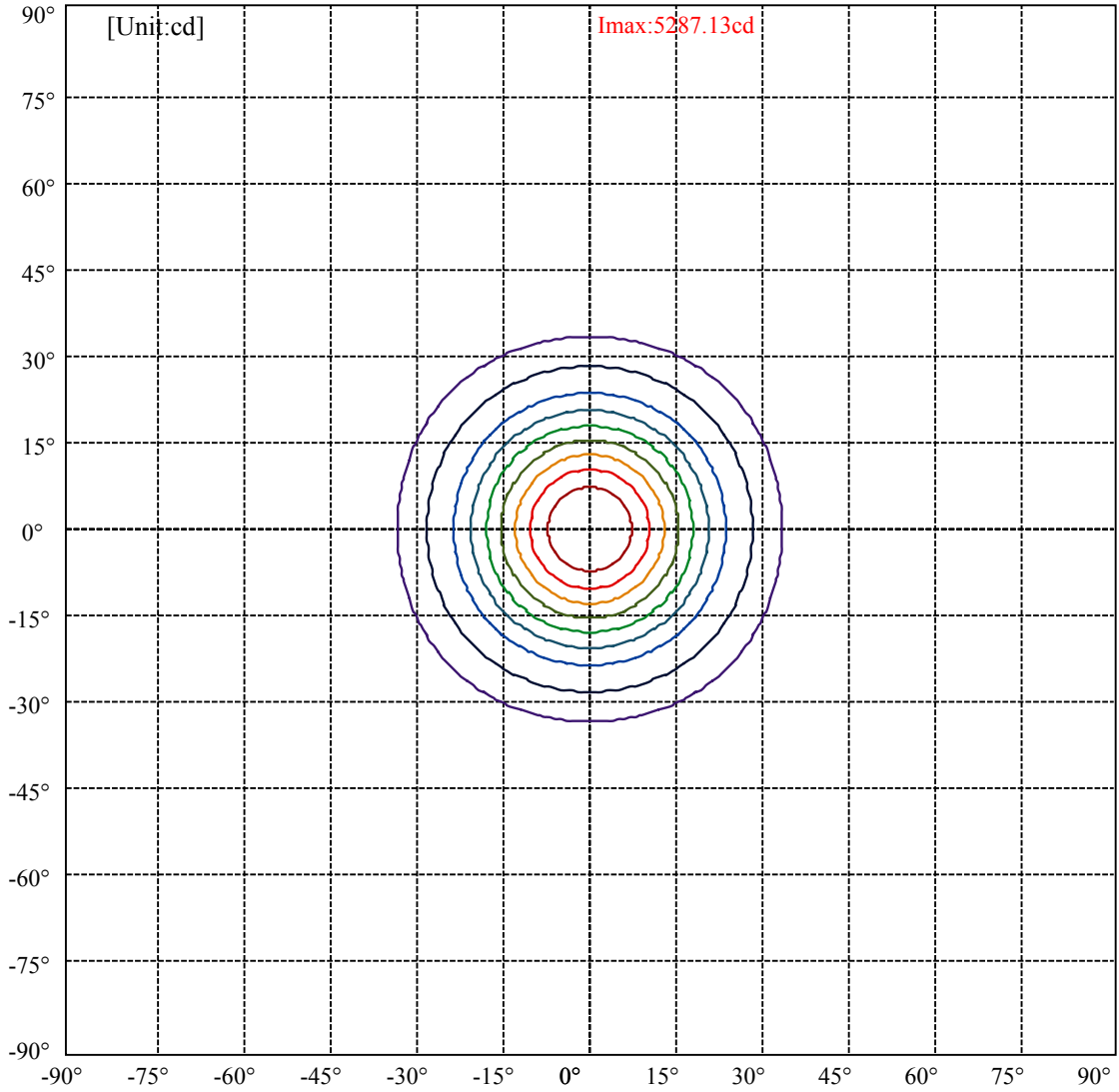
Field angle(10%Imax):C0/180Left:33.0 Right:33.0

:C90/270Left:33.0 Right:33.0

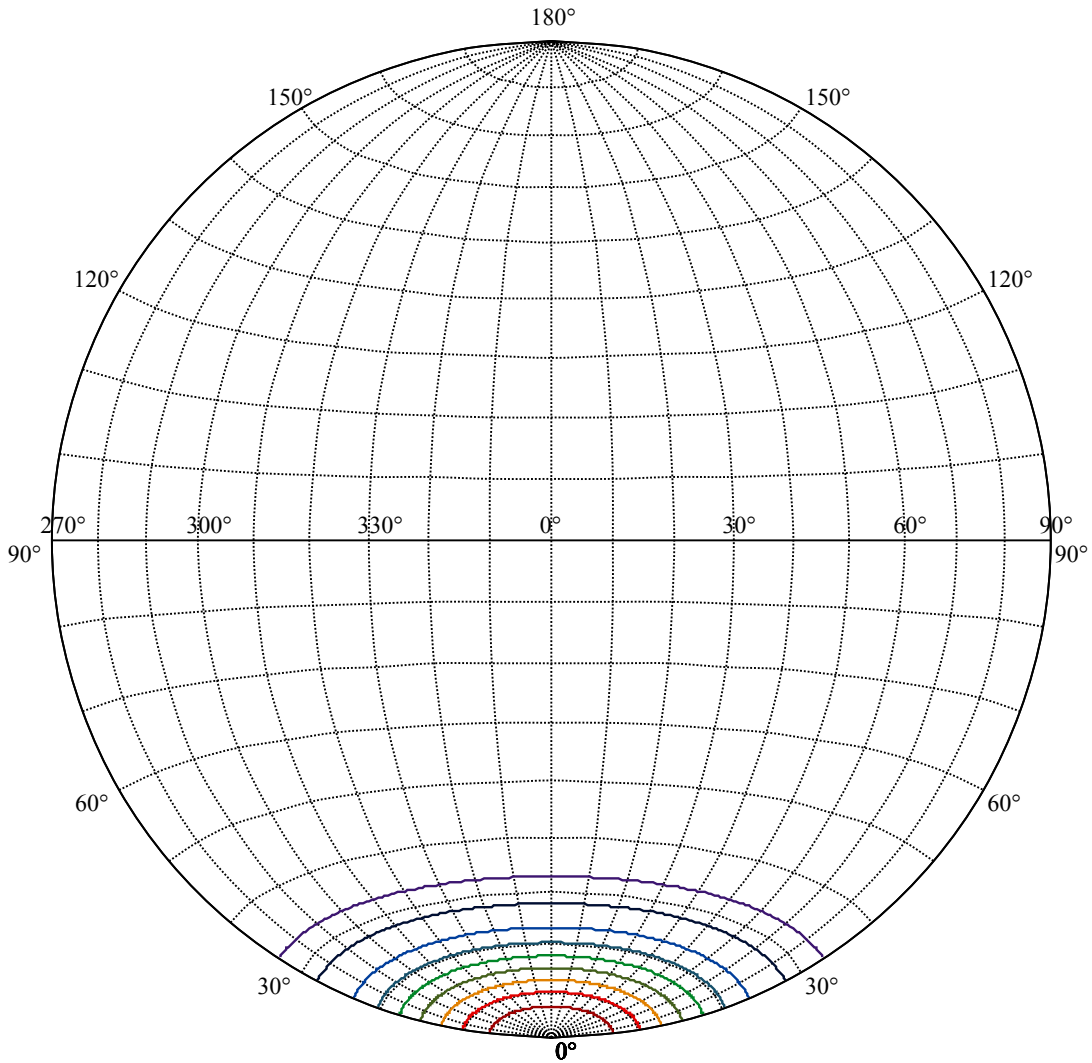
Beam Angle(50%Imax):C0/180Left:17.7 Right:17.7

:C90/270Left:17.7 Right:17.7





(10%Imax) 528.713	—
(20%Imax) 1057.43	—
(30%Imax) 1586.14	—
(40%Imax) 2114.85	—
(50%Imax) 2643.56	—
(60%Imax) 3172.28	—
(70%Imax) 3700.99	—
(80%Imax) 4229.7	—
(90%Imax) 4758.42	—



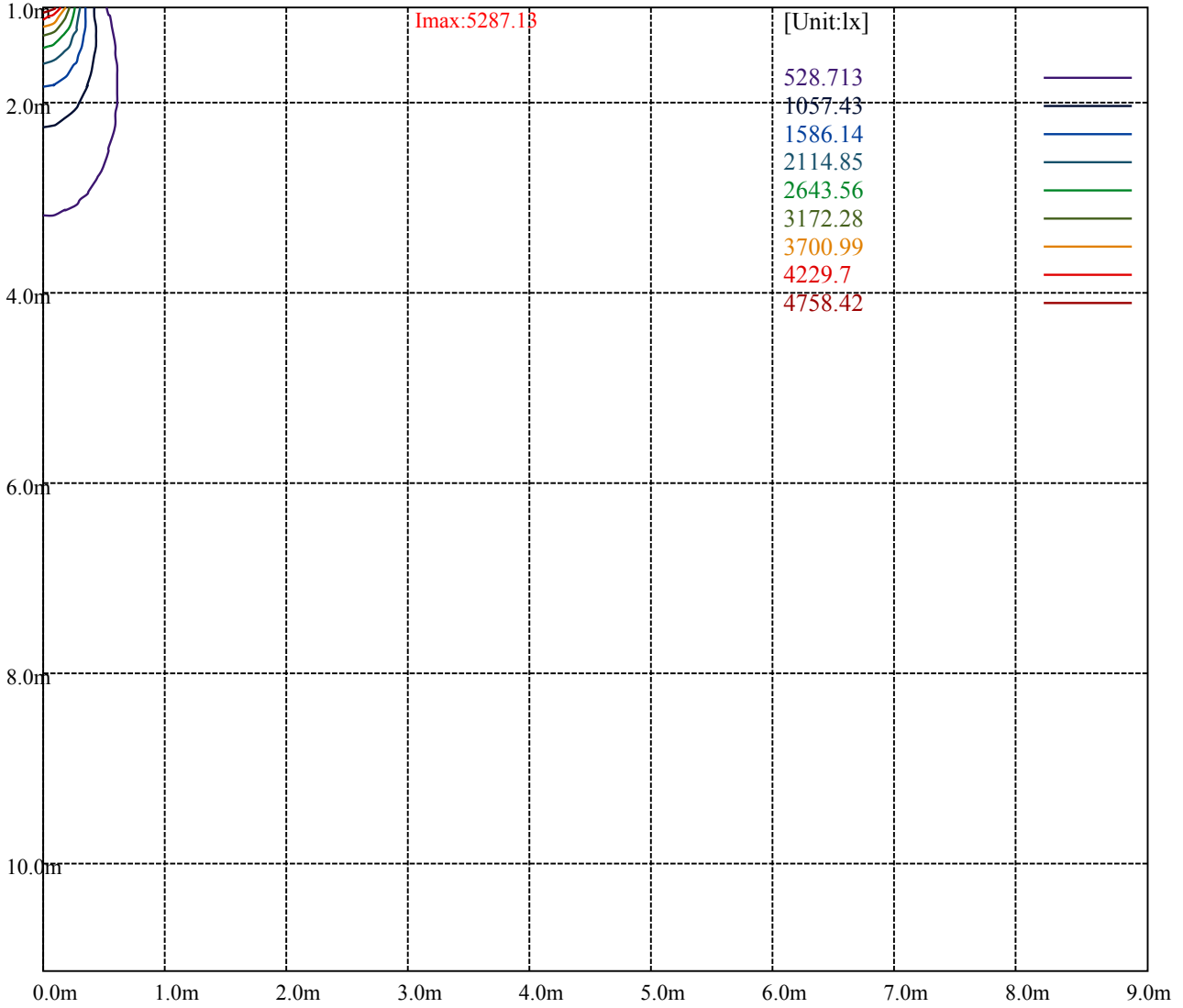
House

[Unit:cd]

Road

Imax:5287.13

(10%Imax) 528.713	—
(20%Imax) 1057.43	—
(30%Imax) 1586.14	—
(40%Imax) 2114.85	—
(50%Imax) 2643.56	—
(60%Imax) 3172.28	—
(70%Imax) 3700.99	—
(80%Imax) 4229.7	—
(90%Imax) 4758.42	—



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

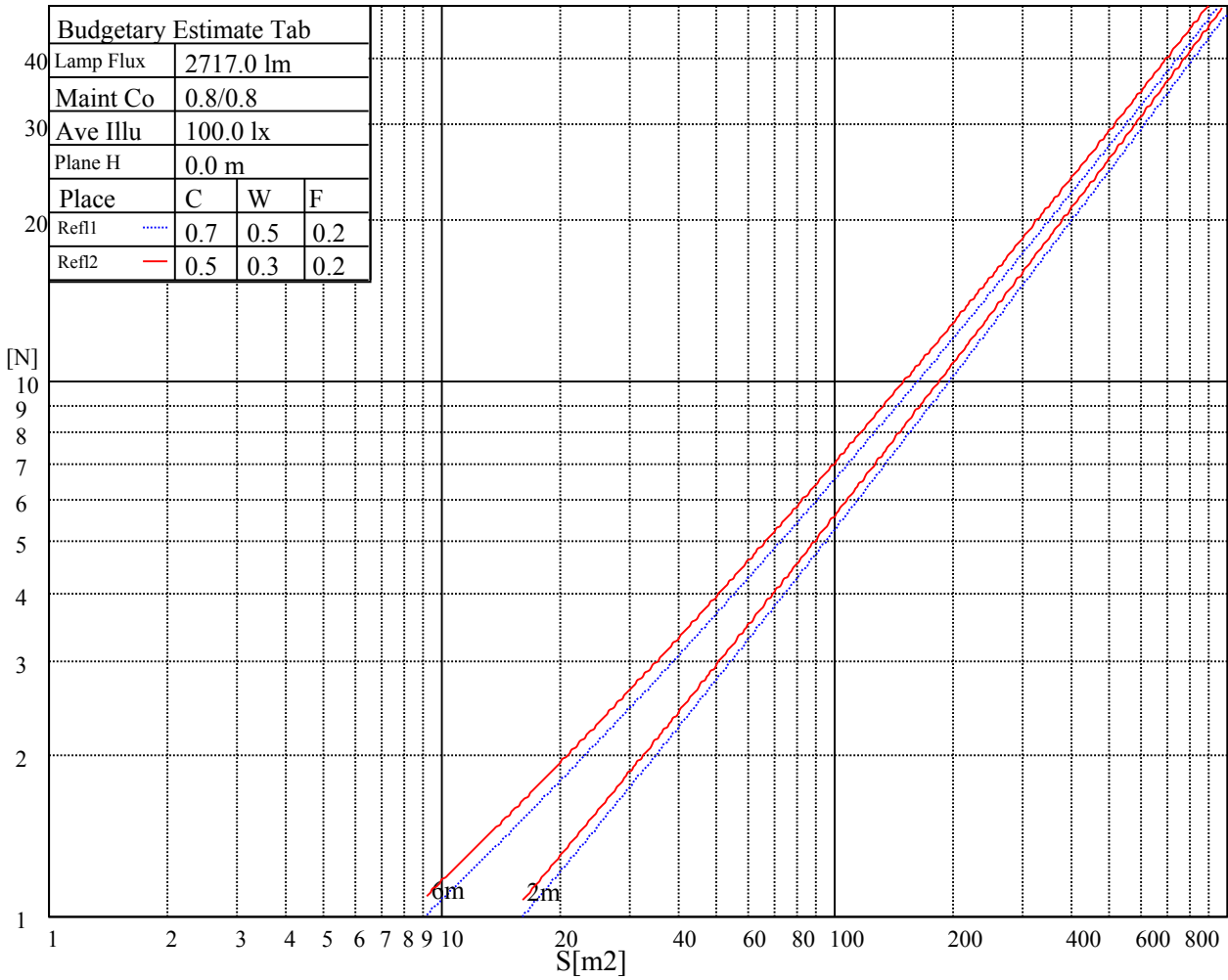
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

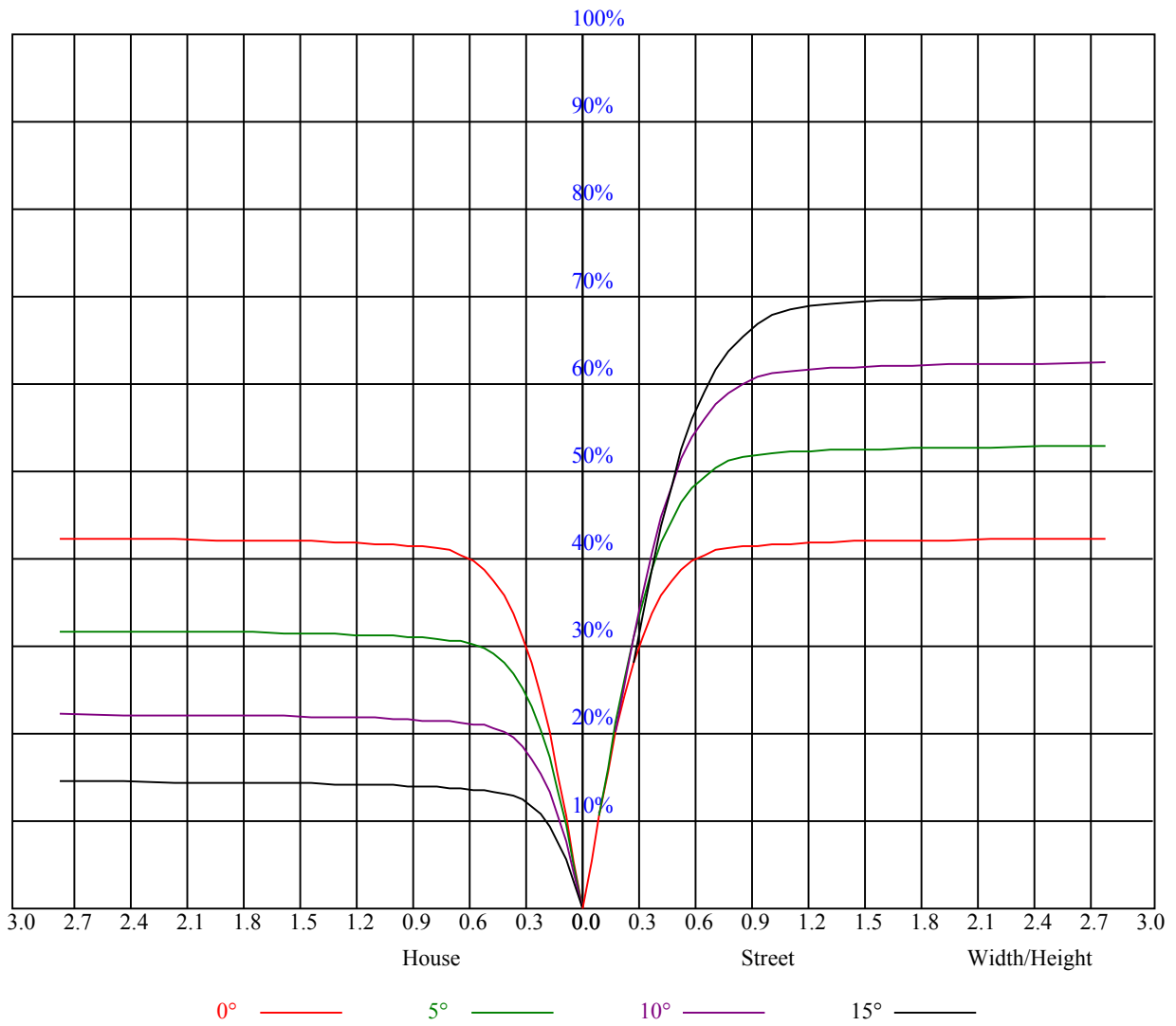


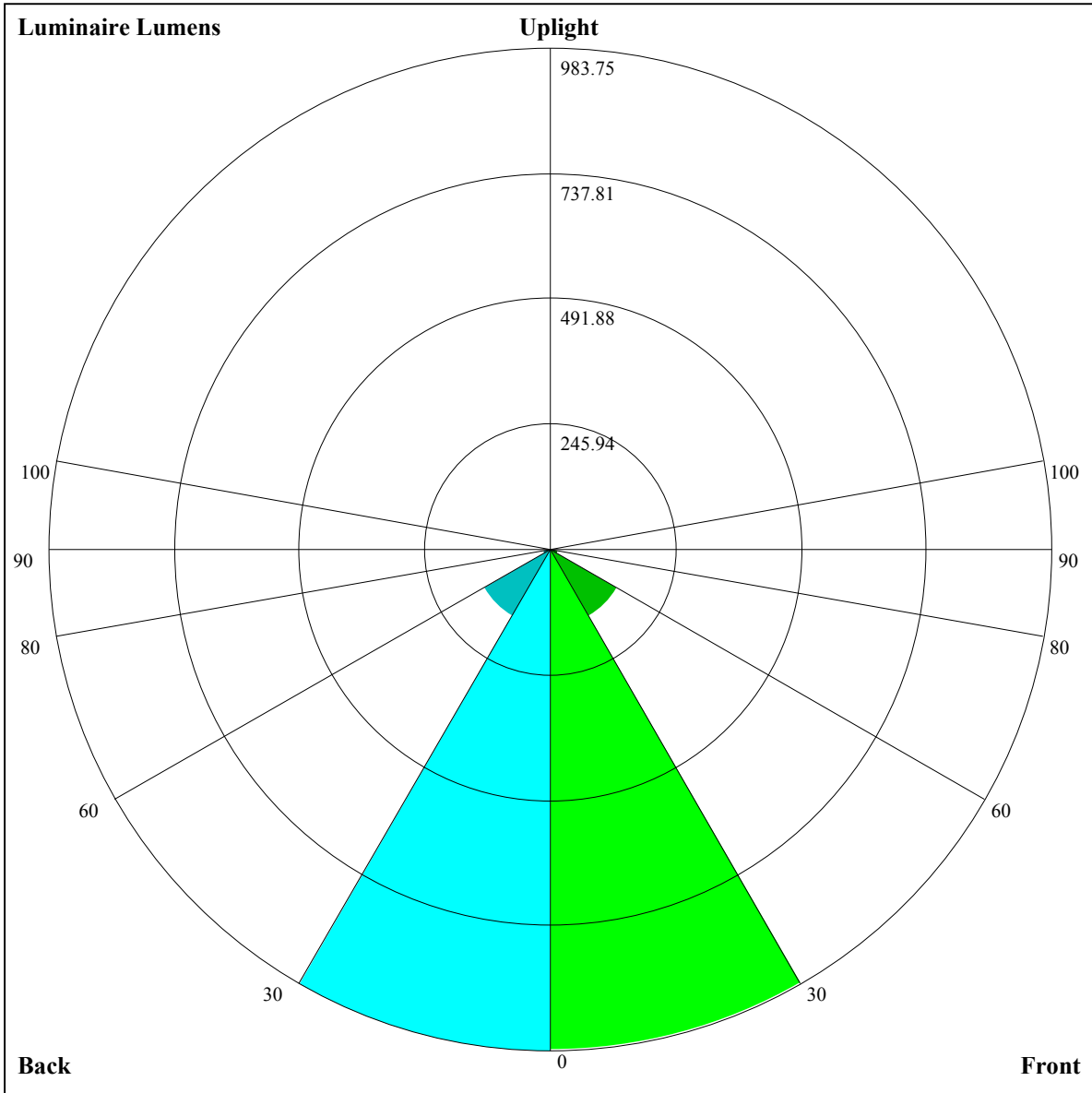
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.87	0.85	0.84	0.84	0.83	0.82	0.80
2	0.89	0.86	0.83	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.79	0.80	0.79	0.77	0.76
3	0.84	0.80	0.77	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.76	0.74	0.77	0.75	0.73	0.72
4	0.80	0.76	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.70	0.74	0.71	0.70	0.68
5	0.76	0.71	0.68	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
6	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
7	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
8	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.56
9	0.63	0.59	0.56	0.63	0.58	0.56	0.62	0.58	0.55	0.61	0.58	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	0.59	0.55	0.53	0.58	0.55	0.53	0.52





Luminaire Lumens:

FL=983.41,FM=151.99,FH=16.49,FVH=5.69

BL=983.75,BM=152.75,BH=16.47,BVH=5.67

UL=0,UH=0

BUG Rating:B2-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	5291.08	5279.37	5244.26	5190.42	5099.12	5009.58	4872.06	4746.23	4602.85
45.0	5286.40	5292.25	5284.06	5247.77	5197.44	5126.04	5043.53	4913.61	4796.56
90.0	5289.91	5273.52	5226.70	5170.52	5103.22	4990.86	4879.08	4752.67	4608.12
135.0	5281.13	5279.96	5262.40	5225.53	5155.31	5081.57	4990.86	4881.42	4722.24
180.0	5291.08	5285.23	5260.06	5213.24	5130.73	5045.87	4951.65	4834.02	4669.57
225.0	5286.40	5260.06	5200.37	5126.63	5041.19	4935.85	4786.03	4646.75	4450.69
270.0	5289.91	5289.91	5262.99	5216.75	5137.75	5053.48	4948.14	4822.90	4657.28
315.0	5281.13	5257.72	5217.34	5156.48	5055.23	4955.74	4807.10	4671.32	4516.24
360.0	5291.08	5279.37	5244.26	5190.42	5099.12	5009.58	4872.06	4746.23	4602.85

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4403.88	4224.80	4032.84	3832.70	3581.05	3377.98	3179.00	2983.54	2738.91
45.0	4623.34	4460.64	4288.00	4054.50	3856.69	3653.62	3400.80	3197.73	2997.58
90.0	4443.09	4220.12	4024.65	3824.50	3569.93	3366.86	3170.81	2922.09	2726.04
135.0	4578.27	4416.17	4192.03	4003.00	3802.27	3548.86	3342.28	3140.96	2897.51
180.0	4519.17	4348.87	4114.78	3919.31	3716.24	3461.08	3255.67	3059.03	2814.99
225.0	4273.96	4086.68	3843.82	3643.08	3442.94	3242.21	2999.34	2807.38	2610.16
270.0	4501.02	4331.89	4148.13	3957.94	3712.14	3509.65	3305.41	3059.61	2859.47
315.0	4298.54	4117.12	3923.41	3725.60	3475.12	3280.83	3085.36	2892.24	2653.47
360.0	4403.88	4224.80	4032.84	3832.70	3581.05	3377.98	3179.00	2983.54	2738.91

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2552.22	2362.61	2178.27	1953.54	1783.24	1584.85	1447.32	1155.41	1155.41
45.0	2803.29	2561.59	2370.22	2188.21	2006.21	1794.36	1641.03	1502.33	1351.34
90.0	2484.92	2298.82	2117.99	1941.84	1739.93	1590.70	1459.61	1279.36	1156.93
135.0	2704.97	2515.94	2329.25	2102.77	1928.37	1766.85	1616.45	1453.17	1338.47
180.0	2620.11	2428.16	2233.86	2002.70	1841.76	1673.80	1531.59	1375.92	1276.43
225.0	2411.19	2175.93	1992.75	1821.86	1623.47	1485.94	1288.72	1162.37	1141.95
270.0	2616.01	2424.65	2231.52	1996.26	1834.74	1664.44	1494.14	1360.12	1261.80
315.0	2456.83	2265.46	2033.72	1858.73	1697.21	1515.79	1387.04	1161.20	1161.20
360.0	2552.22	2362.61	2178.27	1953.54	1783.24	1584.85	1447.32	1155.41	1155.41

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1112.86	1024.03	928.05	801.76	702.74	605.42	511.95	399.65	320.53
45.0	1249.51	1138.91	1051.12	953.98	858.58	733.35	633.27	539.05	447.17
90.0	1135.86	1053.05	961.82	835.12	735.80	614.08	521.26	431.14	329.07
135.0	1235.47	1123.69	1038.25	918.28	816.45	715.79	618.64	505.69	421.42
180.0	1161.14	1078.63	982.65	853.32	750.90	649.07	529.69	438.98	357.63
225.0	1031.17	930.45	829.21	728.78	627.95	508.74	420.84	339.72	249.48
270.0	1167.58	1079.80	956.32	848.63	747.39	622.74	527.35	437.81	335.98
315.0	1074.41	976.39	872.63	741.83	640.24	545.61	459.58	357.57	283.19
360.0	1112.86	1024.03	928.05	801.76	702.74	605.42	511.95	399.65	320.53

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	249.66	175.98	128.75	87.55	72.57	66.42	61.86	57.41	54.25
45.0	343.00	303.79	303.79	138.52	91.06	71.81	65.84	60.28	56.77
90.0	257.50	193.83	126.12	87.14	68.76	63.61	59.46	54.72	50.97
135.0	343.59	305.55	305.55	129.16	91.47	70.99	65.78	61.21	56.06
180.0	301.45	301.45	144.26	102.30	78.89	69.58	65.31	61.45	55.48
225.0	187.80	136.53	98.49	75.03	69.17	63.09	59.22	55.60	52.03
270.0	298.52	298.52	129.98	93.75	74.91	67.07	62.50	58.93	55.60
315.0	215.77	144.20	102.24	73.27	65.55	61.33	57.88	54.13	51.56
360.0	249.66	175.98	128.75	87.55	72.57	66.42	61.86	57.41	54.25

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	51.32	48.75	45.82	43.66	41.61	39.62	37.34	35.70	34.06
45.0	52.73	50.15	47.70	45.47	42.96	40.91	39.03	37.22	35.17
90.0	48.52	45.71	43.72	41.84	39.56	37.81	35.76	34.18	32.71
135.0	52.90	50.27	47.17	44.95	42.78	40.26	38.39	36.58	34.94
180.0	52.61	49.98	47.05	44.77	42.66	40.61	38.33	36.58	34.88
225.0	49.33	46.94	44.71	42.08	40.09	38.27	36.46	34.35	32.77
270.0	52.79	49.39	46.99	44.83	42.19	40.20	38.39	36.11	34.35
315.0	49.16	46.94	44.42	42.49	40.56	38.74	36.58	34.88	32.95
360.0	51.32	48.75	45.82	43.66	41.61	39.62	37.34	35.70	34.06
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	32.01	30.55	29.14	27.39	26.04	24.87	23.41	22.41	21.48
45.0	33.65	32.07	30.26	28.91	27.45	25.81	24.70	23.17	22.12
90.0	31.25	29.50	28.09	26.74	25.52	24.46	23.00	22.00	21.13
135.0	32.95	31.37	29.96	28.56	26.92	25.63	24.52	23.06	21.95
180.0	33.24	31.25	29.79	28.38	26.69	25.46	24.29	22.88	21.95
225.0	31.13	29.32	27.97	26.63	25.11	23.99	22.88	21.65	20.72
270.0	32.42	30.90	29.50	28.03	26.34	25.16	24.05	22.88	21.71
315.0	31.43	29.96	28.27	26.92	25.69	24.23	23.12	22.12	21.19
360.0	32.01	30.55	29.14	27.39	26.04	24.87	23.41	22.41	21.48
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.37	19.55	18.84	18.14	17.26	16.62	16.09	15.39	14.86
45.0	21.24	20.37	19.31	18.55	17.91	17.21	16.50	15.98	15.33
90.0	20.07	19.20	18.43	17.73	16.97	16.27	15.80	15.22	14.69
135.0	20.89	19.96	19.20	18.49	17.62	16.97	16.39	15.86	15.16
180.0	20.72	19.78	19.08	18.38	17.44	16.80	16.27	15.80	15.10
225.0	19.84	19.08	18.14	17.44	16.80	16.27	15.63	15.04	14.63
270.0	20.78	19.84	18.90	18.14	17.44	16.62	16.09	15.45	14.86
315.0	20.01	19.25	18.49	17.79	16.97	16.39	15.80	15.16	14.69
360.0	20.37	19.55	18.84	18.14	17.26	16.62	16.09	15.39	14.86
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.46	13.93	13.52	13.23	12.87	12.58	12.29	12.00	11.65
45.0	14.81	14.34	13.93	13.40	13.11	12.82	12.47	12.17	11.94
90.0	14.16	13.81	13.40	12.99	12.70	12.41	12.17	11.82	11.59
135.0	14.69	14.22	13.87	13.34	13.05	12.70	12.41	12.17	11.82
180.0	14.63	14.22	13.75	13.28	12.99	12.58	12.29	12.11	11.76
225.0	14.10	13.69	13.17	12.93	12.58	12.29	11.94	11.70	11.41
270.0	14.51	14.10	13.69	13.17	12.87	12.64	12.35	11.94	11.70
315.0	14.16	13.75	13.40	13.05	12.64	12.35	12.17	11.88	11.41
360.0	14.46	13.93	13.52	13.23	12.87	12.58	12.29	12.00	11.65
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.41	11.18	10.94	10.48	10.24	10.07	9.89	9.77	9.66
45.0	11.59	11.29	11.18	10.83	10.36	10.12	10.01	9.83	9.71
90.0	11.35	11.06	10.83	10.42	10.18	10.01	9.83	9.71	9.60
135.0	11.65	11.35	11.00	10.71	10.36	10.12	9.95	9.71	9.71
180.0	11.53	11.18	10.94	10.53	10.30	10.12	9.83	9.77	9.60
225.0	11.18	10.89	10.53	10.24	10.07	9.95	9.71	9.66	9.60
270.0	11.41	11.06	10.83	10.53	10.18	10.07	9.83	9.77	9.60
315.0	11.18	10.94	10.89	10.30	10.12	9.95	9.77	9.89	9.60
360.0	11.41	11.18	10.94	10.48	10.24	10.07	9.89	9.77	9.66

Intensity data(cd)

C/γ(°)	90.0
0.0	9.60
45.0	9.54
90.0	9.54
135.0	9.54
180.0	9.71
225.0	9.66
270.0	9.71
315.0	9.83
360.0	9.60