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## Nata

Client:

LumCAT: 2-2748-L

Luminaire: 92.70.412.00

Report No: 2024826-B011

Ballast type: AC

Test No: 2024826-C011

Voltage(V): 34.840

LampCAT: Fortimo\_SLM\_C\_1210

Current(A): 0.715

Lamp flux(lm): 4003.0

Power (W): 24.910

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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## Photometric Results

Lumens(lm): 3756.38, Efficiency(%): 93.84% , Luminous Efficacy(lm/W): 150.80

Central intensity(cd): 18907.890, Maximum intensity(cd): 18907.890

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=18.2

[C90/270]Total=18.2

Field angle(10%Imax): [C0/180]Total=47.6

[C90/270]Total=47.6

Maximum s/h(1/2): C0\_180=0.31 C90\_270=0.31

Maximum s/h(1/4): C0\_180=0.34 C90\_270=0.34

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.84%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 99.101%

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Equipment: GMS 1800  
Temperature(°C): 25.0

Date: 2024/8/26  
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	18907.889	0.000	0	0.00%	0.00%
1.0	18790.885	18.038	18.038	0.45%	0.48%
2.0	18452.406	53.455	71.493	1.34%	1.90%
3.0	17896.639	86.935	158.428	2.17%	4.22%
4.0	17042.785	116.953	275.382	2.92%	7.33%
5.0	15907.568	141.751	417.132	3.54%	11.10%
6.0	14003.885	157.193	574.325	3.93%	15.29%
7.0	12108.416	162.079	736.404	4.05%	19.60%
8.0	11148.703	166.447	902.85	4.16%	24.04%
9.0	9662.400	168.663	1071.513	4.21%	28.53%
10.0	8223.804	161.864	1233.377	4.04%	32.83%
11.0	7272.521	154.840	1388.217	3.87%	36.96%
12.0	6285.995	148.214	1536.431	3.70%	40.90%
13.0	5560.850	140.592	1677.023	3.51%	44.64%
14.0	4925.126	134.220	1811.243	3.35%	48.22%
15.0	4384.054	127.801	1939.043	3.19%	51.62%
16.0	3920.144	121.680	2060.723	3.04%	54.86%
17.0	3516.274	115.805	2176.528	2.89%	57.94%
18.0	3182.252	110.444	2286.972	2.76%	60.88%
19.0	2873.940	105.365	2392.337	2.63%	63.69%
20.0	2669.656	101.463	2493.801	2.53%	66.39%
21.0	2505.963	99.382	2593.183	2.48%	69.03%
22.0	2188.755	94.342	2687.525	2.36%	71.55%
23.0	2011.790	88.139	2775.664	2.20%	73.89%
24.0	1857.664	84.600	2860.264	2.11%	76.14%
25.0	1722.966	81.416	2941.68	2.03%	78.31%
26.0	1620.443	78.922	3020.601	1.97%	80.41%
27.0	1498.787	76.313	3096.914	1.91%	82.44%
28.0	1363.596	72.469	3169.384	1.81%	84.37%
29.0	1238.162	68.069	3237.453	1.70%	86.19%
30.0	1135.908	64.099	3301.552	1.60%	87.89%
31.0	1015.126	59.860	3361.412	1.50%	89.49%
32.0	884.804	54.431	3415.843	1.36%	90.93%
33.0	751.151	48.196	3464.039	1.20%	92.22%
34.0	625.849	41.672	3505.711	1.04%	93.33%
35.0	507.314	35.192	3540.903	0.88%	94.26%
36.0	396.177	28.767	3569.67	0.72%	95.03%
37.0	302.287	22.780	3592.45	0.57%	95.64%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	248.561	18.387	3610.837	0.46%	96.13%
39.0	183.430	14.745	3625.582	0.37%	96.52%
40.0	122.464	10.668	3636.25	0.27%	96.80%
41.0	95.979	7.779	3644.029	0.19%	97.01%
42.0	85.000	6.575	3650.604	0.16%	97.18%
43.0	77.083	6.004	3656.608	0.15%	97.34%
44.0	69.389	5.528	3662.137	0.14%	97.49%
45.0	63.436	5.105	3667.241	0.13%	97.63%
46.0	58.502	4.769	3672.01	0.12%	97.75%
47.0	54.153	4.481	3676.491	0.11%	97.87%
48.0	50.677	4.238	3680.728	0.11%	97.99%
49.0	47.267	4.022	3684.75	0.10%	98.09%
50.0	44.455	3.824	3688.575	0.10%	98.19%
51.0	42.188	3.666	3692.24	0.09%	98.29%
52.0	40.486	3.548	3695.788	0.09%	98.39%
53.0	38.955	3.456	3699.244	0.09%	98.48%
54.0	37.878	3.386	3702.63	0.08%	98.57%
55.0	37.175	3.350	3705.98	0.08%	98.66%
56.0	36.597	3.334	3709.314	0.08%	98.75%
57.0	36.202	3.329	3712.642	0.08%	98.84%
58.0	35.913	3.335	3715.977	0.08%	98.92%
59.0	35.342	3.331	3719.309	0.08%	99.01%
60.0	34.146	3.283	3722.591	0.08%	99.10%
61.0	32.510	3.181	3725.772	0.08%	99.19%
62.0	30.480	3.035	3728.808	0.08%	99.27%
63.0	27.648	2.827	3731.635	0.07%	99.34%
64.0	24.639	2.566	3734.2	0.06%	99.41%
65.0	21.150	2.266	3736.466	0.06%	99.47%
66.0	17.944	1.951	3738.417	0.05%	99.52%
67.0	15.775	1.695	3740.112	0.04%	99.57%
68.0	13.673	1.492	3741.604	0.04%	99.61%
69.0	12.359	1.328	3742.932	0.03%	99.64%
70.0	11.347	1.217	3744.15	0.03%	99.67%
71.0	10.506	1.129	3745.279	0.03%	99.70%
72.0	9.849	1.058	3746.337	0.03%	99.73%
73.0	9.251	0.999	3747.336	0.02%	99.76%
74.0	8.633	0.940	3748.276	0.02%	99.78%
75.0	8.049	0.881	3749.158	0.02%	99.81%

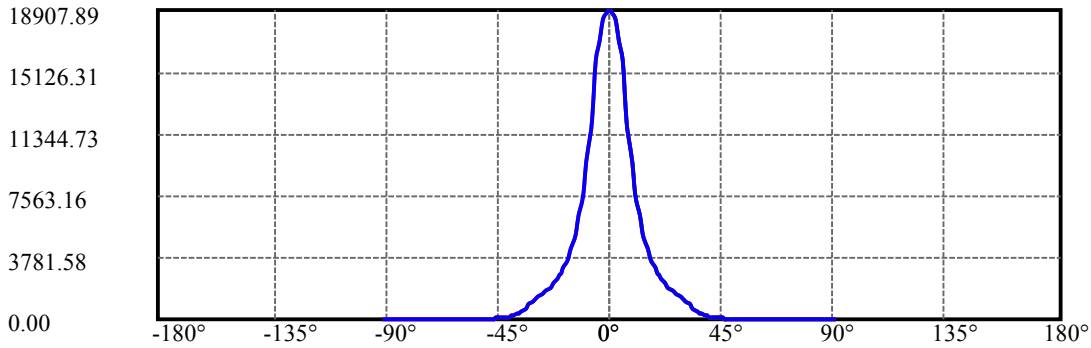
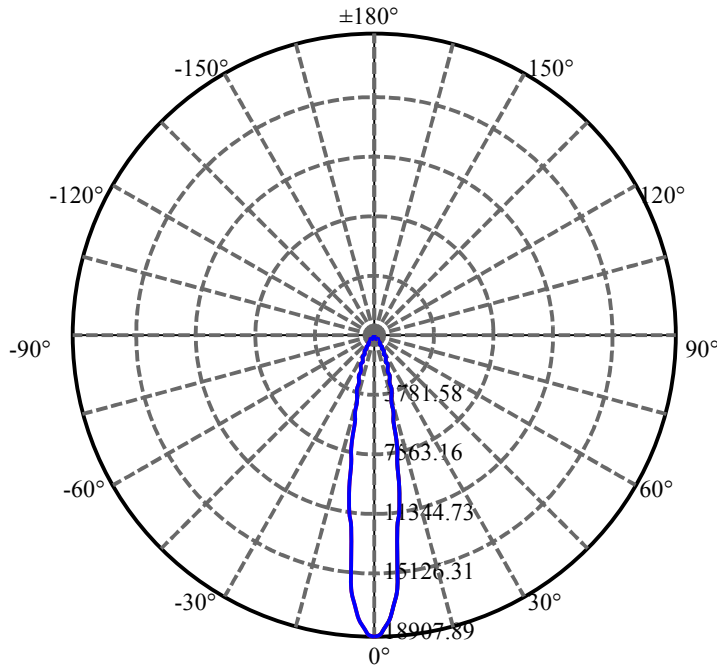
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.490	0.825	3749.983	0.02%	99.83%
77.0	6.984	0.772	3750.754	0.02%	99.85%
78.0	6.524	0.723	3751.478	0.02%	99.87%
79.0	6.012	0.674	3752.151	0.02%	99.89%
80.0	5.539	0.623	3752.774	0.02%	99.90%
81.0	5.033	0.572	3753.345	0.01%	99.92%
82.0	4.586	0.522	3753.867	0.01%	99.93%
83.0	4.087	0.471	3754.339	0.01%	99.95%
84.0	3.614	0.420	3754.758	0.01%	99.96%
85.0	3.193	0.372	3755.13	0.01%	99.97%
86.0	2.865	0.331	3755.461	0.01%	99.98%
87.0	2.523	0.295	3755.756	0.01%	99.98%
88.0	2.103	0.253	3756.009	0.01%	99.99%
89.0	1.610	0.203	3756.212	0.01%	100.00%
90.0	1.419	0.166	3756.378	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3301.55	82.48%	87.89%
0-40	3636.25	90.84%	96.80%
0-60	3722.59	93.00%	99.10%
0-90	3756.21	93.83%	100.00%
0-120	3756.21	93.83%	100.00%
0-180	3756.38	93.84%	100.00%
60-90	33.62	0.84%	0.90%
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%
0-25.80	3005.10	75.07%	80.00%

ZONAL LUMEN SUMMARY

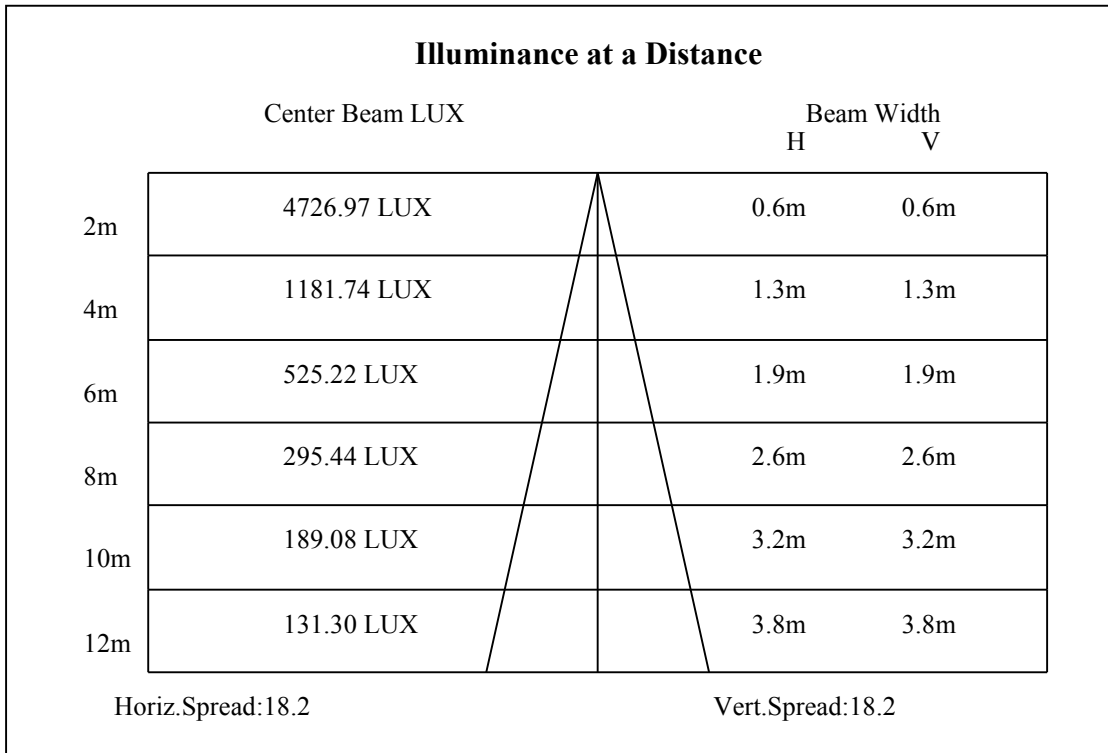
0-10	1233.38
10-20	1260.42
20-30	807.75
30-40	334.70
40-50	52.32
50-60	34.02
60-70	21.56
70-80	8.62
80-90	3.44
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

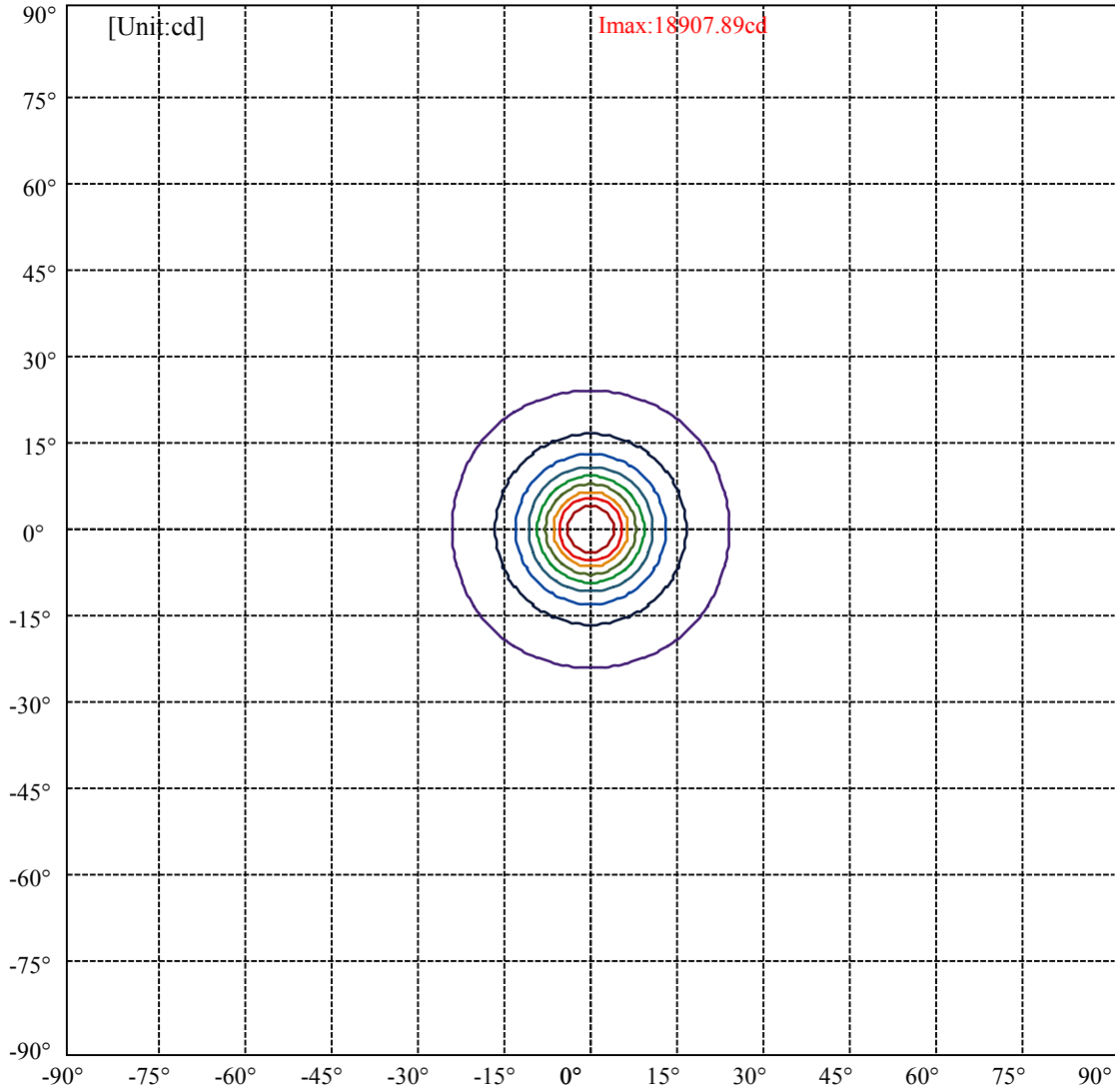


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:23.8 Right:23.8  
:C90/270Left:23.8 Right:23.8

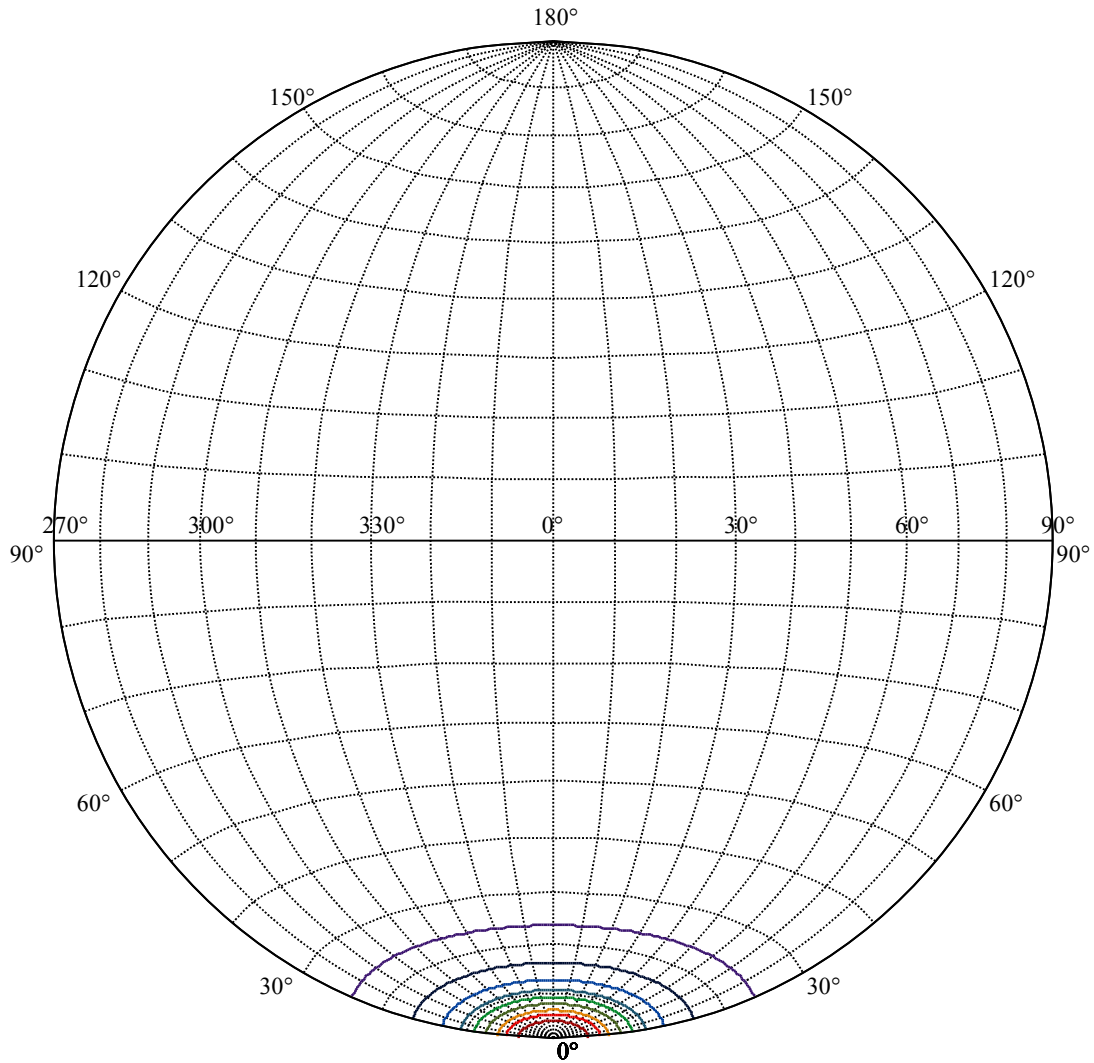
Beam Angle(50%Imax):C0/180Left:9.1 Right:9.1  
:C90/270Left:9.1 Right:9.1





(10%Imax) 1890.79	—
(20%Imax) 3781.58	—
(30%Imax) 5672.37	—
(40%Imax) 7563.16	—
(50%Imax) 9453.94	—
(60%Imax) 11344.7	—
(70%Imax) 13235.5	—
(80%Imax) 15126.3	—
(90%Imax) 17017.1	—





House

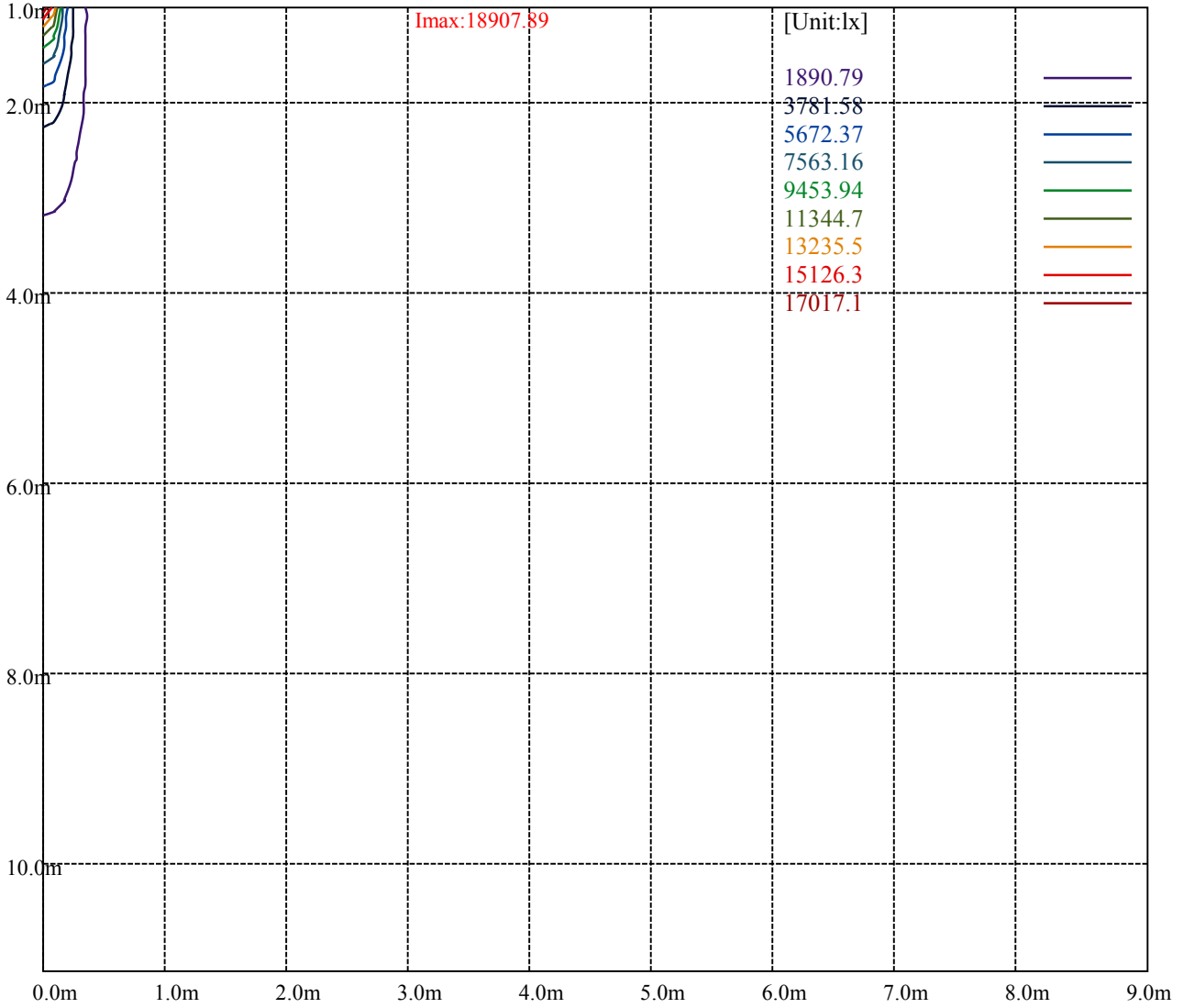
[Unit:cd]

Road

**Imax:18907.89**

(10%Imax) 1890.79	—
(20%Imax) 3781.58	—
(30%Imax) 5672.37	—
(40%Imax) 7563.16	—
(50%Imax) 9453.94	—
(60%Imax) 11344.7	—
(70%Imax) 13235.5	—
(80%Imax) 15126.3	—
(90%Imax) 17017.1	—





Luminance Table

$\gamma$	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

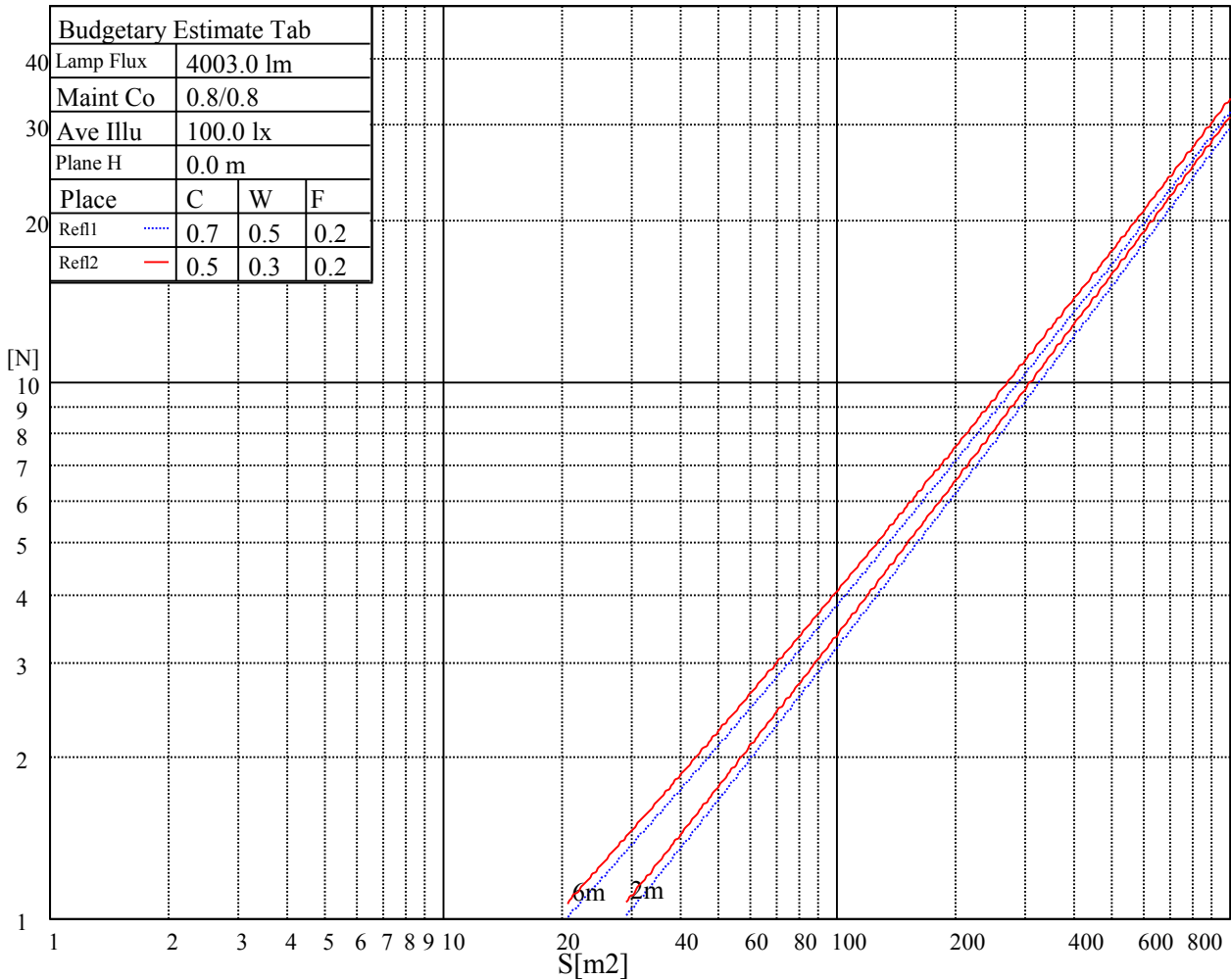
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

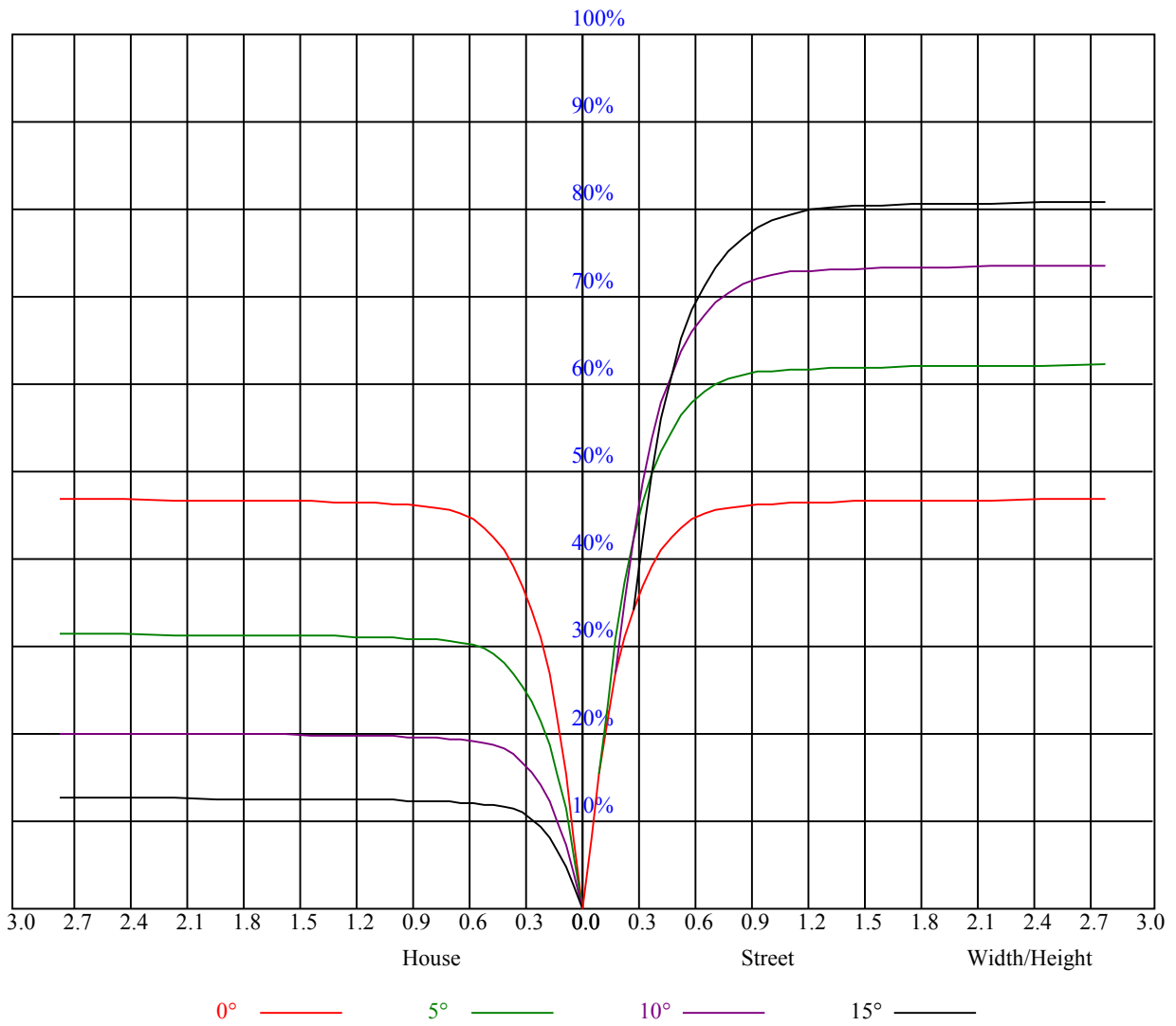


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字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

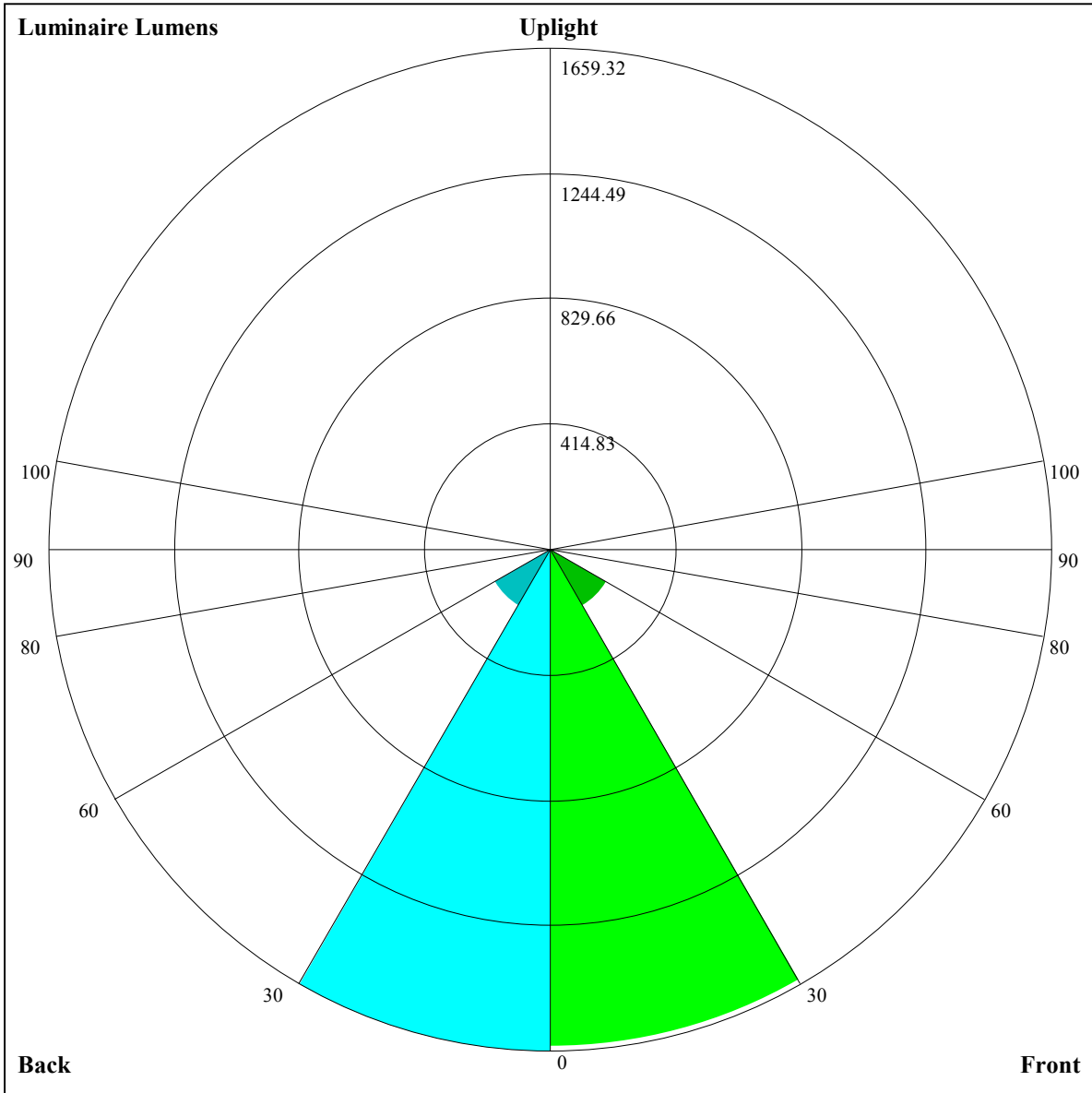
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.12	1.12	1.12	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.05	1.03	1.02	1.03	1.02	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90
2	1.00	0.97	0.94	0.98	0.95	0.93	0.95	0.93	0.91	0.93	0.91	0.89	0.90	0.89	0.87	0.86
3	0.95	0.91	0.88	0.94	0.90	0.87	0.91	0.88	0.86	0.89	0.87	0.85	0.87	0.85	0.83	0.82
4	0.91	0.86	0.83	0.90	0.86	0.83	0.88	0.84	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
5	0.87	0.82	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.76
6	0.83	0.79	0.76	0.83	0.78	0.75	0.81	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
7	0.80	0.76	0.73	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.74	0.71	0.70
8	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
9	0.75	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
10	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.70	0.67	0.65	0.64







Luminaire Lumens:

FL=1644.66,FM=213.82,FH=14.92,FVH=1.78

BL=1659.32,BM=213.21,BH=15.15,BVH=1.81

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	18935.75	18701.74	18250.44	17553.98	16523.23	15169.33	11076.71	10425.93	10103.35
45.0	18941.32	18907.89	18685.02	18211.43	17492.69	16489.80	15152.61	13525.70	11804.07
90.0	18802.03	18417.58	17799.13	16896.53	15670.77	14127.43	10724.01	10724.01	9492.10
135.0	18963.60	18790.88	18395.30	17754.56	16812.96	15832.35	14316.87	12639.81	10973.89
180.0	18935.75	18930.17	18724.02	18289.44	17581.84	16601.23	15849.07	13676.13	11954.50
225.0	18919.03	18701.74	18239.29	17732.27	16812.96	15537.05	14004.86	10571.32	10571.32
270.0	18802.03	18941.32	18874.46	18579.16	18044.29	17225.26	16083.07	14628.88	13614.84
315.0	18963.60	18935.75	18651.59	18155.72	17403.55	16278.08	14823.89	10675.55	10675.55
360.0	18935.75	18701.74	18250.44	17553.98	16523.23	15169.33	11076.71	10425.93	10103.35
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8922.69	7621.72	6611.05	5793.65	5106.71	4533.36	4039.17	3619.09	3261.35
45.0	10138.15	8683.96	7447.06	6466.45	5669.71	5017.83	4460.66	3970.36	3558.06
90.0	7896.94	7030.55	6136.30	5414.78	4806.95	4290.47	3840.79	3448.57	3106.50
135.0	9413.84	8065.51	6990.18	6126.58	5424.56	4817.25	4293.52	3864.50	3474.49
180.0	10946.04	8778.67	8015.36	6928.89	6037.43	5335.41	4739.25	4226.66	3780.93
225.0	9031.92	7709.18	6665.08	5828.24	5155.70	4572.36	4084.32	3665.87	3295.35
270.0	11230.19	9603.27	8734.10	7480.48	6494.31	5703.14	5045.68	4482.95	3998.22
315.0	9719.44	8297.57	7581.04	6248.89	5791.44	5131.20	4569.05	4083.16	3655.30
360.0	8922.69	7621.72	6611.05	5793.65	5106.71	4533.36	4039.17	3619.09	3261.35
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2937.67	2664.66	2425.60	2225.60	2050.67	1896.88	1770.41	1655.61	1544.18
45.0	3201.48	3006.47	2817.03	2817.03	2246.21	2053.46	1876.80	1725.84	1592.64
90.0	2817.30	2566.05	2342.03	2152.07	1975.46	1831.12	1702.97	1590.44	1532.51
135.0	3129.05	2822.61	2822.61	2362.11	2238.95	2063.45	1905.81	1769.83	1651.15
180.0	3413.20	3073.33	2833.75	2833.75	2280.74	2087.41	1924.73	1776.51	1698.50
225.0	3098.14	2683.05	2527.57	2304.18	2108.02	1933.67	1778.19	1646.73	1527.47
270.0	3574.78	3212.62	2895.04	2895.04	2362.11	2164.31	1994.96	1845.05	1767.05
315.0	3286.42	2962.74	2693.62	2457.93	2247.89	2064.02	1907.44	1773.72	1650.04
360.0	2937.67	2664.66	2425.60	2225.60	2050.67	1896.88	1770.41	1655.61	1544.18
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1427.76	1254.46	1095.72	1095.72	951.07	812.35	677.90	555.01	441.42
45.0	1474.01	1360.32	1242.21	1119.06	987.60	853.88	727.41	632.12	494.51
90.0	1383.18	1068.91	1068.91	1040.00	897.35	756.32	622.45	496.77	377.35
135.0	1540.87	1421.08	1294.56	1148.60	1001.53	856.09	714.01	577.50	452.14
180.0	1590.44	1490.15	1375.93	1243.89	1102.92	963.05	827.70	697.29	574.19
225.0	1424.39	1320.21	1038.21	1038.21	902.97	776.24	658.87	542.29	475.69
270.0	1609.94	1552.54	1458.40	1358.64	1234.43	1102.34	963.05	823.76	686.15
315.0	1539.71	1441.11	1331.36	1043.16	1043.16	958.16	817.82	682.05	557.06
360.0	1427.76	1254.46	1095.72	1095.72	951.07	812.35	677.90	555.01	441.42
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	338.66	246.31	179.19	137.82	112.48	97.77	87.31	78.58	71.06
45.0	389.75	317.90	301.18	215.51	130.46	107.23	93.72	82.84	73.80
90.0	275.37	188.86	127.15	95.19	83.99	76.37	69.91	65.07	58.19
135.0	337.40	296.72	296.72	126.20	99.08	87.94	80.00	73.06	66.91
180.0	457.71	350.75	311.75	292.25	116.90	93.77	82.05	76.22	70.12
225.0	370.99	241.89	195.69	134.88	99.19	86.89	78.90	71.43	65.76
270.0	558.00	439.32	330.67	291.14	210.78	113.59	94.77	86.83	75.80
315.0	441.53	336.56	246.15	174.45	126.83	104.28	93.35	82.63	73.48
360.0	338.66	246.31	179.19	137.82	112.48	97.77	87.31	78.58	71.06

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	66.12	60.71	55.14	52.04	48.52	45.26	42.89	41.10	39.11
45.0	66.70	60.39	55.30	52.67	47.31	44.52	43.05	41.00	39.63
90.0	53.51	50.14	46.78	43.73	41.42	39.58	38.42	37.53	36.79
135.0	61.66	56.82	52.77	49.46	46.26	43.57	41.47	40.05	38.69
180.0	63.18	59.34	55.24	51.41	48.15	45.05	42.79	40.74	38.63
225.0	60.45	55.98	52.40	48.62	45.15	42.79	41.16	39.58	38.69
270.0	68.91	63.18	58.55	54.61	50.78	47.46	44.47	42.00	39.95
315.0	66.96	61.45	57.03	52.88	50.57	47.41	43.26	41.89	40.16
360.0	66.12	60.71	55.14	52.04	48.52	45.26	42.89	41.10	39.11
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	37.74	37.42	36.79	35.95	35.74	34.90	32.90	30.80	28.75
45.0	38.53	38.00	37.37	37.00	36.58	36.22	34.80	33.32	31.12
90.0	36.48	36.58	36.32	35.80	35.53	34.43	32.43	30.54	27.75
135.0	37.69	37.37	37.27	36.85	36.74	36.48	35.48	33.85	31.91
180.0	37.53	36.53	35.69	35.43	35.11	34.74	34.06	32.59	31.48
225.0	38.00	37.11	36.85	36.74	36.43	35.80	34.43	32.38	30.12
270.0	38.48	37.06	35.85	35.48	35.37	34.85	34.53	33.53	31.70
315.0	38.58	37.32	36.64	36.37	35.80	35.32	34.53	33.06	31.01
360.0	37.74	37.42	36.79	35.95	35.74	34.90	32.90	30.80	28.75
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.39	23.29	18.61	15.61	14.30	12.19	11.46	10.51	9.46
45.0	28.54	24.97	21.76	18.82	15.82	13.82	12.35	11.25	10.41
90.0	24.07	20.71	16.87	14.24	13.30	11.25	10.35	9.88	9.25
135.0	28.91	25.44	22.23	18.50	15.98	14.35	13.09	12.19	11.35
180.0	28.75	25.49	23.39	19.24	17.14	14.40	12.88	11.56	10.72
225.0	26.91	23.13	20.08	16.82	14.30	12.93	11.72	10.78	10.09
270.0	29.75	28.49	23.60	20.87	18.92	15.45	13.67	12.35	11.25
315.0	28.86	25.60	22.65	19.45	16.45	14.98	13.35	12.25	11.51
360.0	25.39	23.29	18.61	15.61	14.30	12.19	11.46	10.51	9.46
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.04	8.52	7.94	7.36	6.78	6.36	5.94	5.41	4.94
45.0	9.78	9.15	8.41	7.99	7.52	6.94	6.47	5.94	5.47
90.0	8.67	8.04	7.52	6.94	6.52	5.99	5.52	4.94	4.52
135.0	10.62	10.04	9.36	8.62	7.99	7.62	7.04	6.62	6.04
180.0	10.09	9.41	8.78	8.30	7.67	7.10	6.62	6.15	5.73
225.0	9.51	8.99	8.46	7.88	7.31	6.83	6.52	5.89	5.52
270.0	10.46	9.78	9.15	8.52	7.94	7.36	6.83	6.41	5.89
315.0	10.62	10.09	9.46	8.78	8.20	7.67	7.25	6.73	6.20
360.0	9.04	8.52	7.94	7.36	6.78	6.36	5.94	5.41	4.94
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.47	4.05	3.57	3.21	2.73	2.42	2.10	1.73	1.21
45.0	4.94	4.47	3.89	3.31	2.94	2.52	2.21	1.84	1.37
90.0	4.10	3.68	3.21	2.79	2.47	2.26	1.94	1.52	1.37
135.0	5.52	5.05	4.57	4.05	3.63	3.42	3.15	2.31	1.31
180.0	5.15	4.73	4.10	3.68	3.21	2.94	2.52	2.26	1.79
225.0	4.84	4.47	3.99	3.47	3.00	2.52	2.26	2.00	1.58
270.0	5.47	5.05	4.47	3.94	3.57	3.10	2.79	2.42	2.05
315.0	5.78	5.20	4.89	4.47	3.99	3.73	3.21	2.73	2.21
360.0	4.47	4.05	3.57	3.21	2.73	2.42	2.10	1.73	1.21

Intensity data(cd)

C/γ(°)	90.0
0.0	1.26
45.0	1.16
90.0	1.37
135.0	1.21
180.0	1.31
225.0	1.31
270.0	1.68
315.0	2.05
360.0	1.26