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NT

Client:

LumCAT: 2-2681-L

Luminaire: 92.70.411.00

Report No: 2024418-B008

Ballast type: AC

Test No: 2024418-C008

Voltage(V): 33.650

LampCAT: NICHIA NFCWJ120B-V3

Current(A): 0.576

Lamp flux(lm): 2726.0

Power (W): 19.382

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2265.30, Efficiency(%): 83.10% , Luminous Efficacy(lm/W): 116.88

Central intensity(cd): 4072.274, Maximum intensity(cd): 4072.274

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

Beam Angle(50%Imax): [C0/180]Total=44.2

[C90/270]Total=44.2

Field angle(10%Imax): [C0/180]Total=68.2

[C90/270]Total=68.2

Maximum s/h(1/2): C0\_180=0.71 C90\_270=0.71

Maximum s/h(1/4): C0\_180=0.69 C90\_270=0.69

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 83.10%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.642%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/4/18  
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	4072.274	0.000	0	0.00%	0.00%
1.0	4068.323	3.895	3.895	0.14%	0.17%
2.0	4050.767	11.653	15.548	0.43%	0.69%
3.0	4023.773	19.312	34.86	0.71%	1.54%
4.0	3985.221	26.809	61.669	0.98%	2.72%
5.0	3942.280	34.104	95.772	1.25%	4.23%
6.0	3882.222	41.120	136.892	1.51%	6.04%
7.0	3818.725	47.800	184.692	1.75%	8.15%
8.0	3746.011	54.139	238.831	1.99%	10.54%
9.0	3666.347	60.073	298.904	2.20%	13.19%
10.0	3575.271	65.534	364.438	2.40%	16.09%
11.0	3480.904	70.506	434.944	2.59%	19.20%
12.0	3382.293	75.025	509.969	2.75%	22.51%
13.0	3274.027	78.994	588.962	2.90%	26.00%
14.0	3159.396	82.347	671.31	3.02%	29.63%
15.0	3046.959	85.204	756.513	3.13%	33.40%
16.0	2920.843	87.445	843.958	3.21%	37.26%
17.0	2792.460	88.971	932.93	3.26%	41.18%
18.0	2646.958	89.684	1022.614	3.29%	45.14%
19.0	2505.407	89.641	1112.255	3.29%	49.10%
20.0	2345.567	88.786	1201.041	3.26%	53.02%
21.0	2194.725	87.183	1288.224	3.20%	56.87%
22.0	2051.418	85.328	1373.552	3.13%	60.63%
23.0	1901.747	82.948	1456.5	3.04%	64.30%
24.0	1757.416	80.002	1536.502	2.93%	67.83%
25.0	1606.062	76.478	1612.98	2.81%	71.20%
26.0	1430.868	71.687	1684.667	2.63%	74.37%
27.0	1273.150	66.154	1750.822	2.43%	77.29%
28.0	1173.244	61.938	1812.759	2.27%	80.02%
29.0	1030.735	57.662	1870.422	2.12%	82.57%
30.0	891.919	51.911	1922.333	1.90%	84.86%
31.0	753.865	45.800	1968.133	1.68%	86.88%
32.0	640.624	39.950	2008.083	1.47%	88.65%
33.0	521.479	34.236	2042.319	1.26%	90.16%
34.0	413.754	28.303	2070.622	1.04%	91.41%
35.0	324.068	22.914	2093.536	0.84%	92.42%
36.0	260.959	18.627	2112.164	0.68%	93.24%
37.0	196.636	14.924	2127.088	0.55%	93.90%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	132.019	10.970	2138.058	0.40%	94.38%
39.0	84.338	7.385	2145.443	0.27%	94.71%
40.0	67.681	5.302	2150.745	0.19%	94.94%
41.0	58.559	4.495	2155.24	0.16%	95.14%
42.0	52.743	4.044	2159.284	0.15%	95.32%
43.0	48.596	3.754	2163.038	0.14%	95.49%
44.0	45.348	3.546	2166.583	0.13%	95.64%
45.0	42.692	3.383	2169.967	0.12%	95.79%
46.0	40.549	3.255	2173.222	0.12%	95.94%
47.0	38.720	3.153	2176.375	0.12%	96.07%
48.0	37.059	3.063	2179.438	0.11%	96.21%
49.0	35.677	2.987	2182.425	0.11%	96.34%
50.0	34.316	2.918	2185.344	0.11%	96.47%
51.0	33.146	2.854	2188.198	0.10%	96.60%
52.0	32.122	2.801	2190.998	0.10%	96.72%
53.0	31.119	2.751	2193.749	0.10%	96.84%
54.0	30.227	2.704	2196.453	0.10%	96.96%
55.0	29.444	2.664	2199.117	0.10%	97.08%
56.0	28.654	2.625	2201.742	0.10%	97.19%
57.0	27.959	2.588	2204.331	0.09%	97.31%
58.0	27.220	2.552	2206.882	0.09%	97.42%
59.0	26.555	2.514	2209.396	0.09%	97.53%
60.0	25.874	2.477	2211.873	0.09%	97.64%
61.0	25.231	2.439	2214.312	0.09%	97.75%
62.0	24.601	2.401	2216.713	0.09%	97.86%
63.0	23.921	2.360	2219.073	0.09%	97.96%
64.0	23.277	2.316	2221.389	0.08%	98.06%
65.0	22.641	2.272	2223.662	0.08%	98.16%
66.0	21.939	2.224	2225.886	0.08%	98.26%
67.0	21.288	2.174	2228.059	0.08%	98.36%
68.0	20.651	2.124	2230.184	0.08%	98.45%
69.0	20.110	2.079	2232.263	0.08%	98.54%
70.0	19.642	2.042	2234.305	0.07%	98.63%
71.0	19.283	2.012	2236.317	0.07%	98.72%
72.0	18.917	1.986	2238.303	0.07%	98.81%
73.0	18.449	1.954	2240.257	0.07%	98.89%
74.0	18.047	1.919	2242.176	0.07%	98.98%
75.0	17.637	1.885	2244.061	0.07%	99.06%

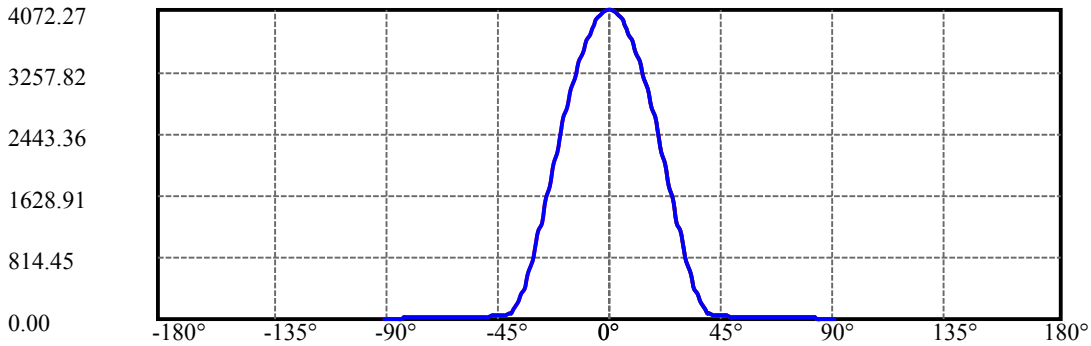
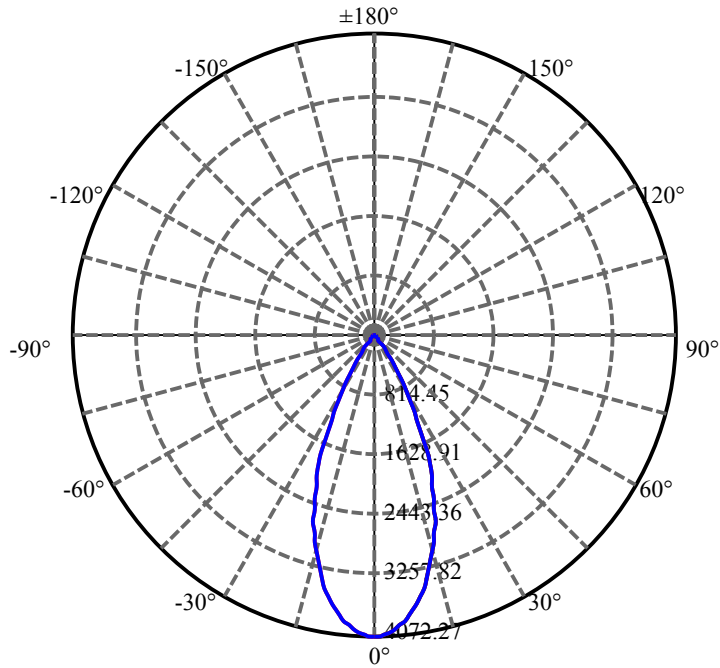
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.169	1.848	2245.909	0.07%	99.14%
77.0	16.650	1.803	2247.712	0.07%	99.22%
78.0	16.145	1.756	2249.467	0.06%	99.30%
79.0	15.487	1.700	2251.167	0.06%	99.38%
80.0	14.865	1.636	2252.803	0.06%	99.45%
81.0	13.958	1.559	2254.362	0.06%	99.52%
82.0	13.197	1.473	2255.834	0.05%	99.58%
83.0	12.590	1.402	2257.236	0.05%	99.64%
84.0	11.807	1.329	2258.565	0.05%	99.70%
85.0	10.988	1.244	2259.809	0.05%	99.76%
86.0	10.337	1.166	2260.975	0.04%	99.81%
87.0	10.022	1.114	2262.089	0.04%	99.86%
88.0	9.817	1.087	2263.176	0.04%	99.91%
89.0	9.649	1.067	2264.243	0.04%	99.95%
90.0	9.598	1.055	2265.298	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1922.33	70.52%	84.86%
0-40	2150.74	78.90%	94.94%
0-60	2211.87	81.14%	97.64%
0-90	2264.24	83.06%	99.95%
0-120	2264.24	83.06%	99.95%
0-180	2265.30	83.10%	100.00%
60-90	52.37	1.92%	2.31%
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%
0-27.99	1812.24	66.48%	80.00%

ZONAL LUMEN SUMMARY

0-10	364.44
10-20	836.60
20-30	721.29
30-40	228.41
40-50	34.60
50-60	26.53
60-70	22.43
70-80	18.50
80-90	11.44
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: —————

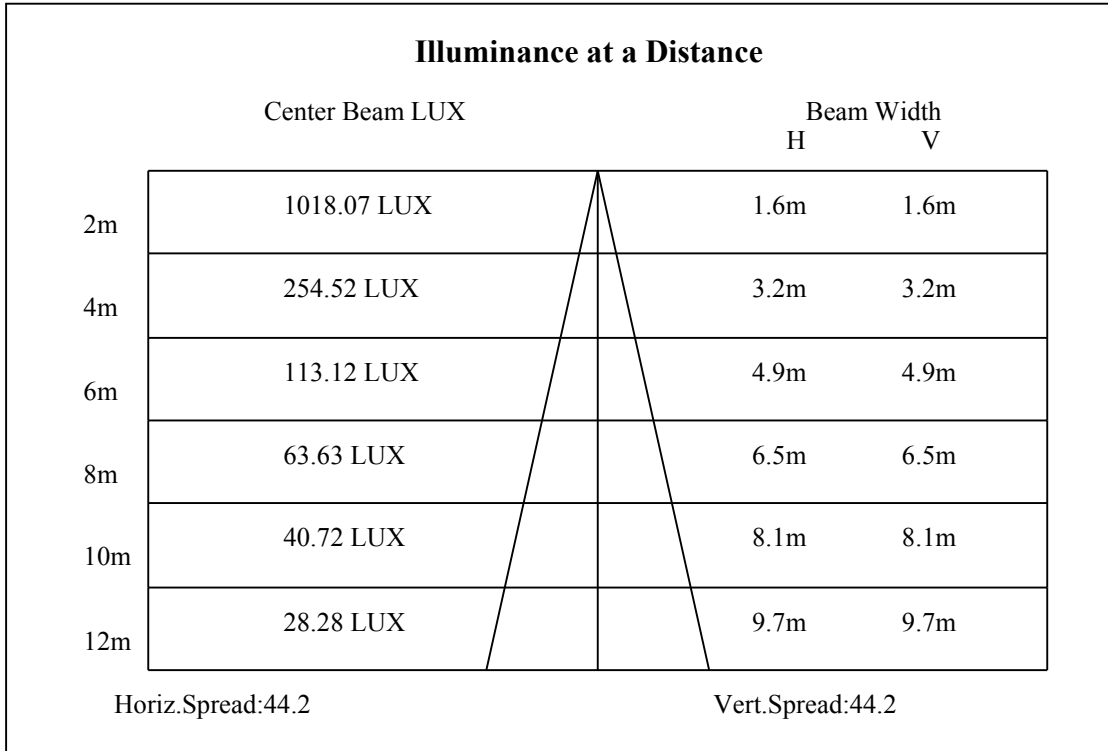
C90/C270: —————

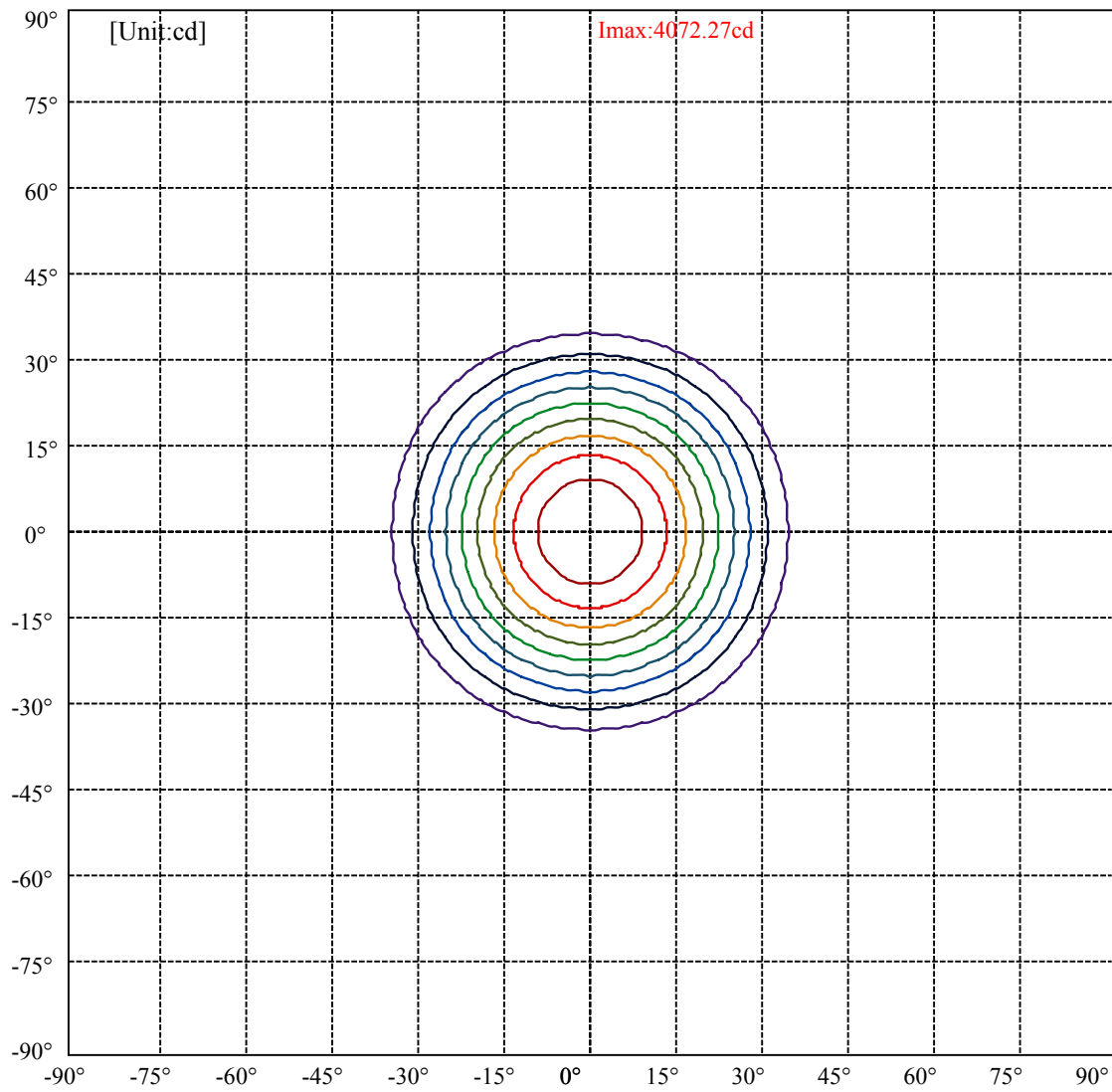
Field angle(10%Imax):C0/180Left:34.1 Right:34.1

:C90/270Left:34.1 Right:34.1

Beam Angle(50%Imax):C0/180Left:22.1 Right:22.1

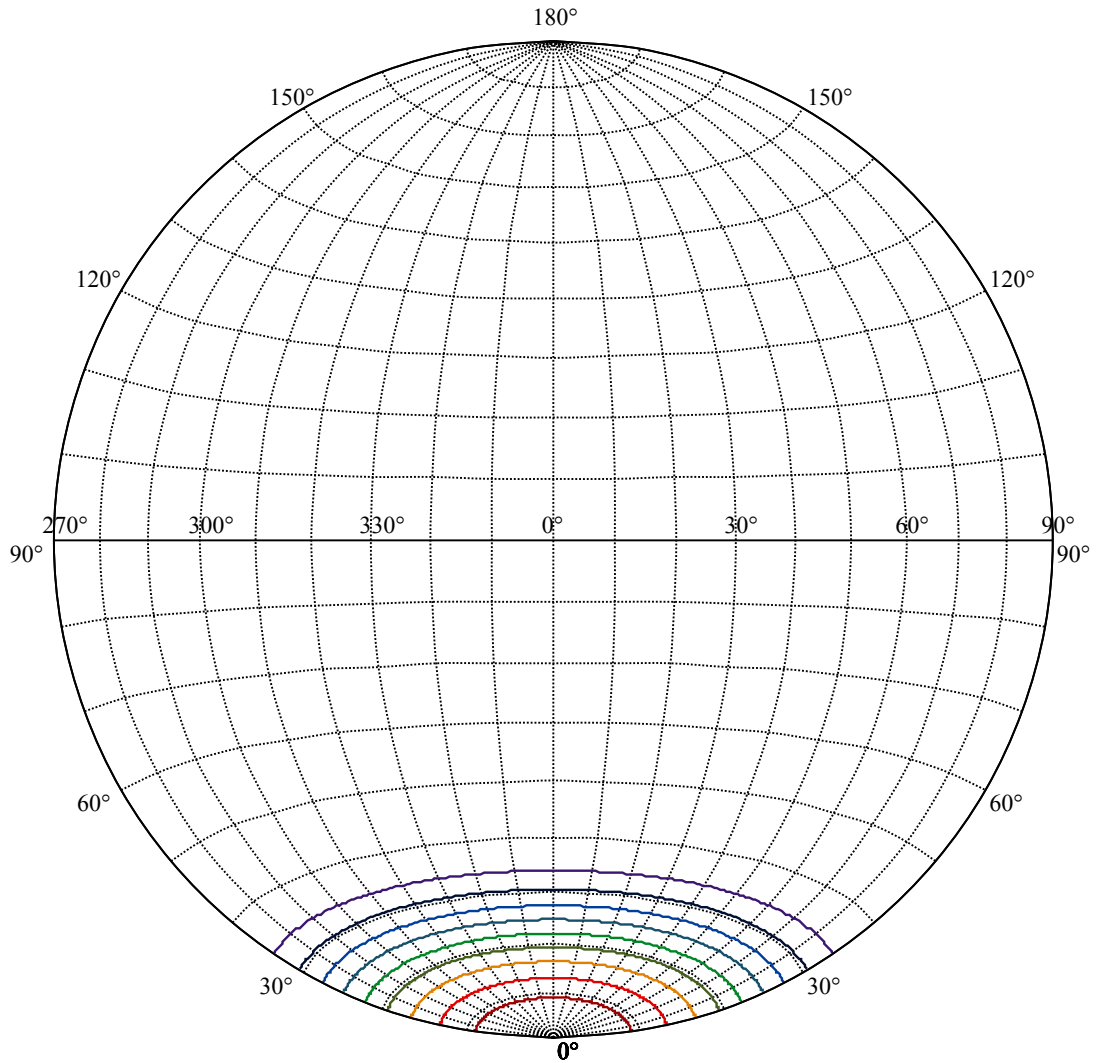
:C90/270Left:22.1 Right:22.1





(10%Imax) 407.227	—
(20%Imax) 814.455	—
(30%Imax) 1221.68	—
(40%Imax) 1628.91	—
(50%Imax) 2036.14	—
(60%Imax) 2443.36	—
(70%Imax) 2850.59	—
(80%Imax) 3257.82	—
(90%Imax) 3665.05	—





House

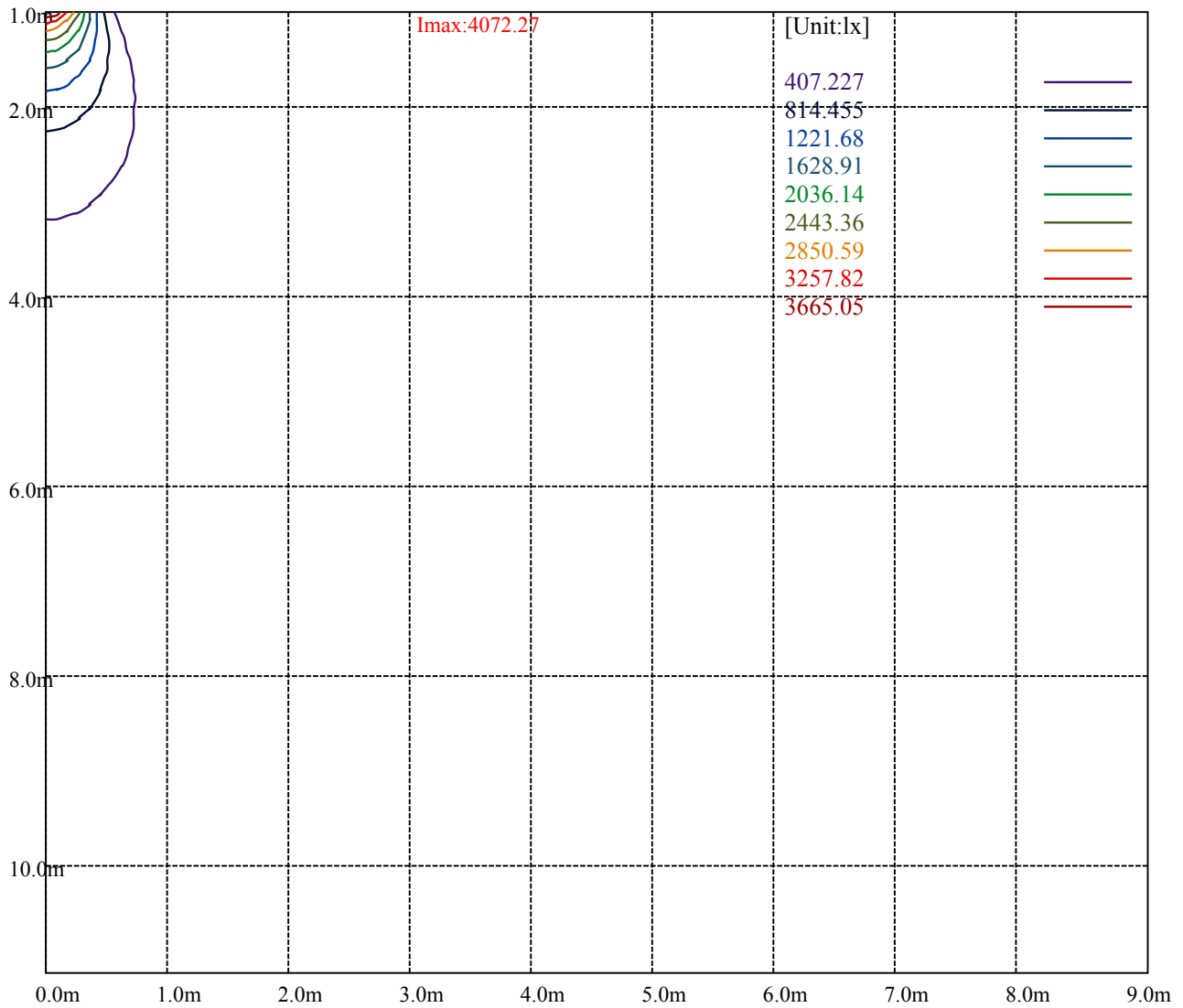
[Unit:cd]

Road

**Imax:4072.27**

(10%Imax)	407.227	—
(20%Imax)	814.455	—
(30%Imax)	1221.68	—
(40%Imax)	1628.91	—
(50%Imax)	2036.14	—
(60%Imax)	2443.36	—
(70%Imax)	2850.59	—
(80%Imax)	3257.82	—
(90%Imax)	3665.05	—





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

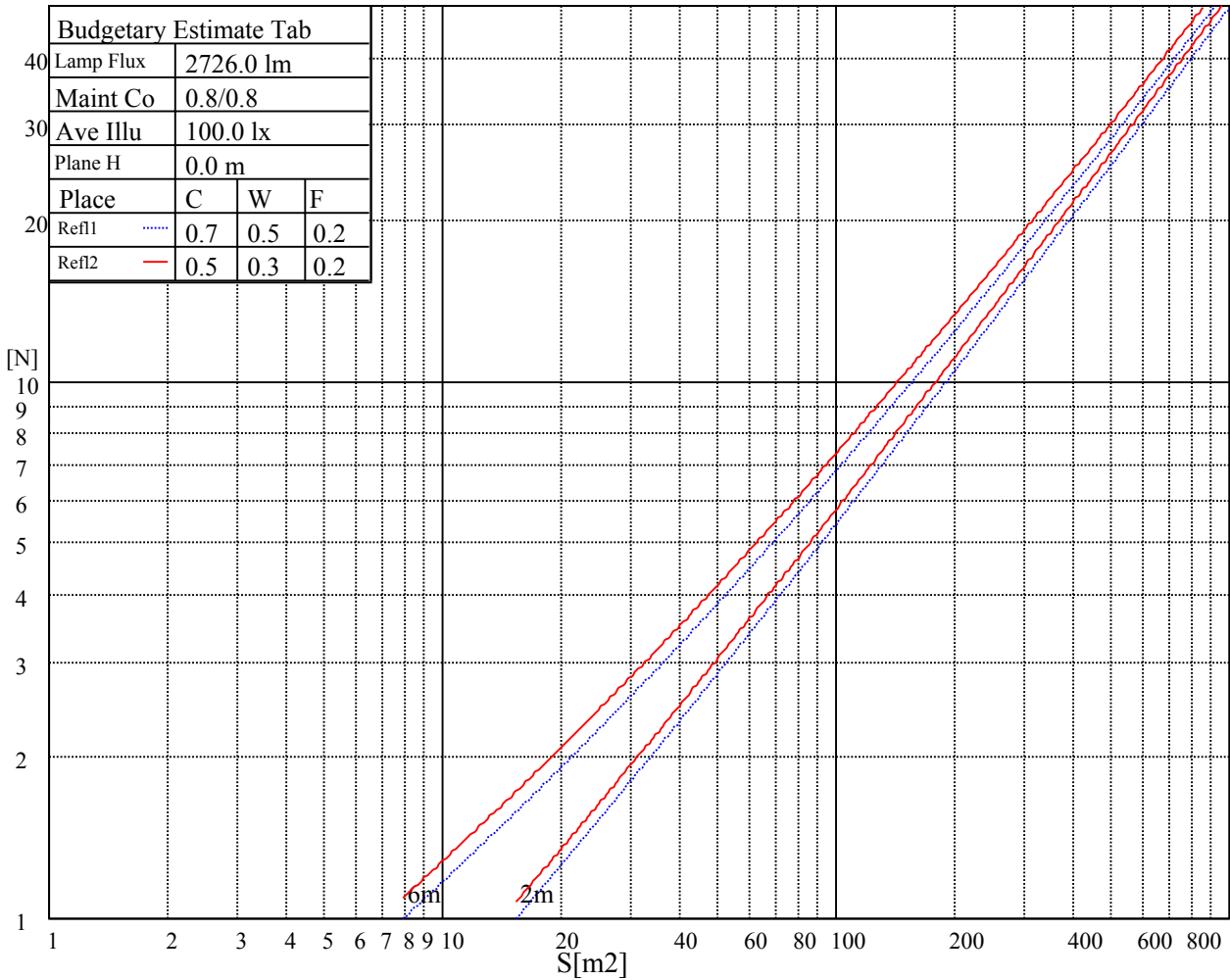
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

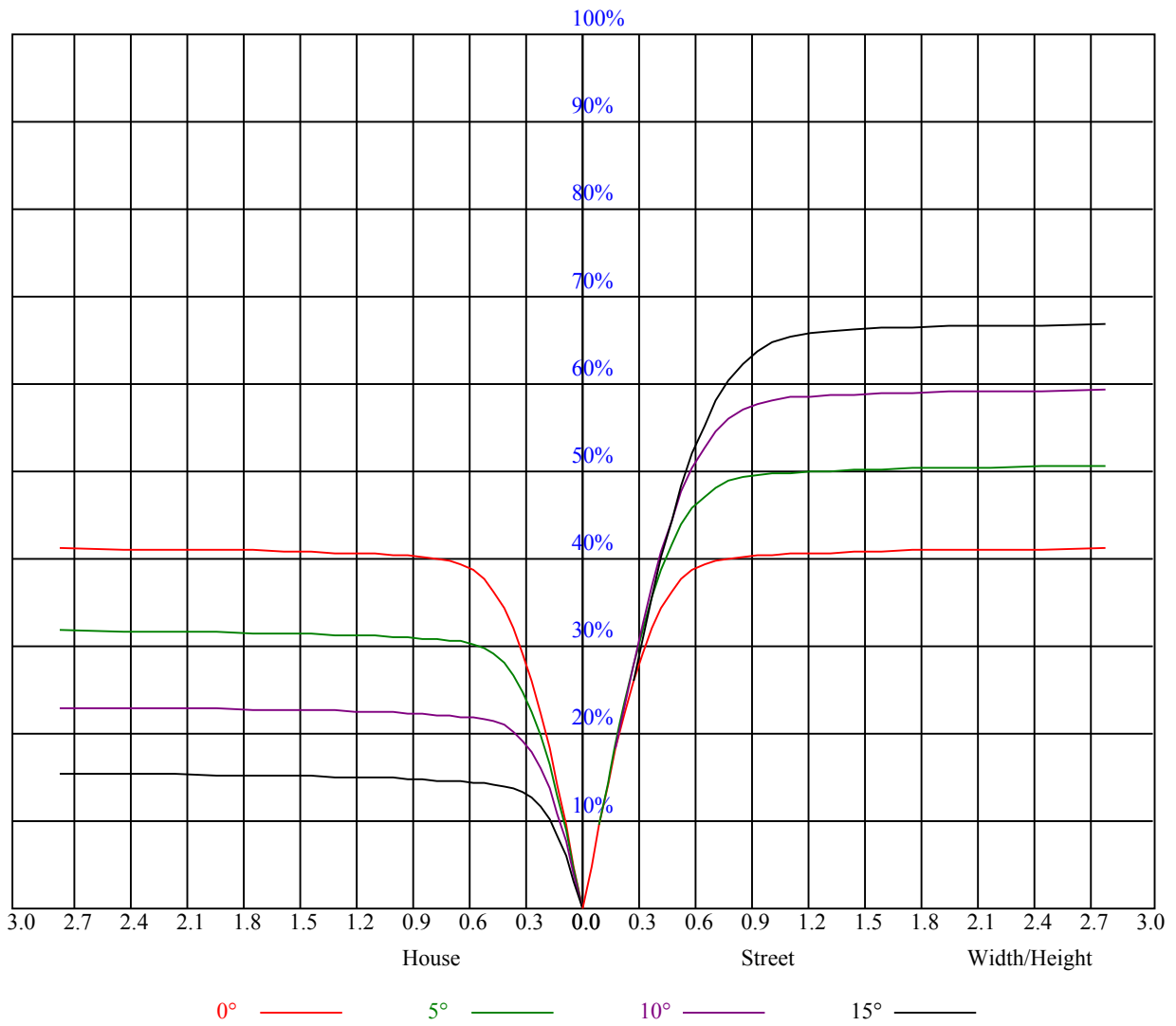


Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X	Y									
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数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

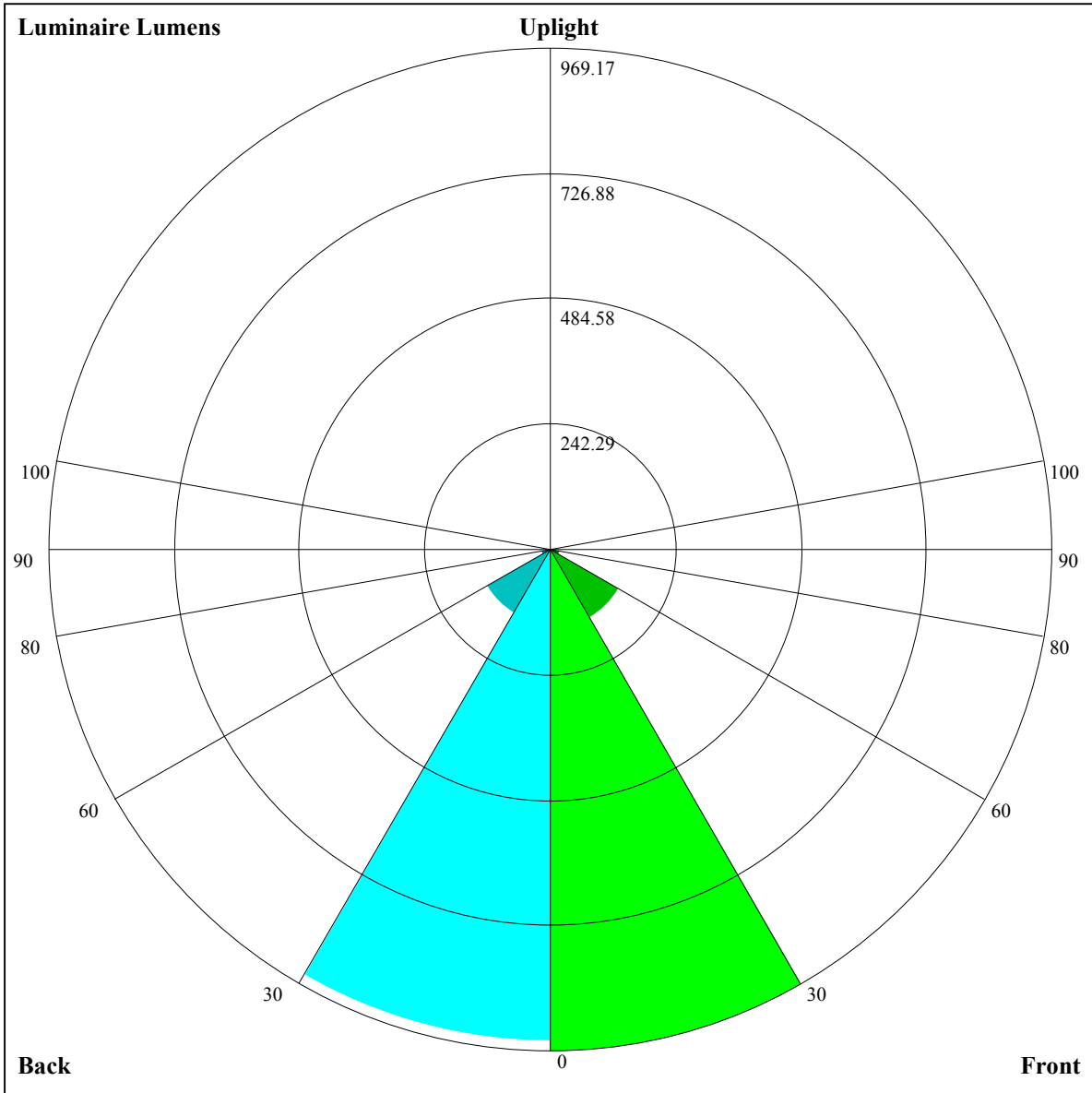
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.92	0.90	0.88	0.90	0.89	0.87	0.87	0.86	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.78
2	0.86	0.83	0.81	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.75	0.73
3	0.81	0.78	0.74	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.71	0.69
4	0.77	0.73	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.67	0.71	0.69	0.67	0.65
5	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
6	0.69	0.65	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
7	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.56
8	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.54	0.53
9	0.60	0.55	0.52	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.57	0.54	0.52	0.51
10	0.57	0.53	0.50	0.57	0.53	0.50	0.56	0.52	0.50	0.56	0.52	0.50	0.55	0.52	0.50	0.49







Luminaire Lumens:

FL=969.17,FM=151.55,FH=20.44,FVH=6.3

BL=951.43,BM=141.33,BH=20.34,BVH=6.24

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	4080.83	4077.32	4057.42	4030.50	3989.54	3948.57	3881.86	3821.58	3754.86
45.0	4066.20	4076.15	4076.74	4059.18	4032.84	4004.75	3950.33	3901.75	3840.89
90.0	4073.22	4069.71	4046.89	4021.14	3986.03	3939.21	3868.40	3805.78	3733.21
135.0	4065.62	4065.62	4062.69	4035.18	4010.02	3965.54	3918.14	3863.71	3786.46
180.0	4080.83	4076.15	4058.01	4028.75	3983.69	3940.96	3886.54	3826.26	3743.74
225.0	4066.20	4048.65	4017.63	3984.27	3929.26	3887.12	3802.85	3729.11	3650.69
270.0	4079.66	4077.32	4058.01	4034.60	3987.78	3949.74	3892.98	3834.45	3760.71
315.0	4065.62	4055.67	4028.75	3996.56	3962.62	3902.34	3856.69	3767.15	3697.51
360.0	4080.83	4077.32	4057.42	4030.50	3989.54	3948.57	3881.86	3821.58	3754.86
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3684.64	3580.47	3492.68	3399.05	3300.73	3171.98	3061.37	2944.91	2820.84
45.0	3761.30	3689.90	3609.73	3499.70	3411.34	3313.02	3211.19	3074.25	2957.79
90.0	3658.30	3561.74	3467.52	3375.64	3248.06	3144.47	3039.72	2903.36	2772.27
135.0	3715.65	3617.33	3538.33	3452.89	3335.26	3231.09	3128.09	2986.46	2865.91
180.0	3667.08	3585.73	3473.37	3376.22	3251.57	3149.15	3036.79	2917.99	2765.25
225.0	3549.45	3455.81	3335.84	3236.94	3125.16	2984.12	2868.83	2741.25	2610.75
270.0	3681.71	3604.46	3515.51	3399.63	3298.39	3193.63	3058.44	2943.16	2819.09
315.0	3612.65	3506.73	3414.26	3318.28	3221.72	3087.71	2971.25	2855.37	2727.79
360.0	3684.64	3580.47	3492.68	3399.05	3300.73	3171.98	3061.37	2944.91	2820.84
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2667.51	2529.40	2356.17	2204.02	2066.49	1896.77	1768.61	1636.93	1467.22
45.0	2841.91	2711.99	2546.37	2407.09	2263.71	2090.48	1954.12	1796.70	1659.17
90.0	2643.52	2480.83	2336.86	2189.97	2051.27	1881.56	1750.47	1620.55	1483.02
135.0	2741.84	2608.99	2438.69	2292.97	2147.25	2006.21	1842.93	1711.84	1575.48
180.0	2628.89	2485.51	2321.06	2165.98	2018.50	1893.26	1725.89	1598.89	1459.02
225.0	2435.18	2291.21	2149.00	2010.31	1847.61	1722.38	1591.87	1319.74	1145.69
270.0	2659.32	2515.36	2341.54	2191.73	2053.61	1920.18	1751.64	1624.64	1492.97
315.0	2557.49	2419.96	2274.83	2095.75	1962.90	1803.14	1673.80	1539.20	1164.36
360.0	2667.51	2529.40	2356.17	2204.02	2066.49	1896.77	1768.61	1636.93	1467.22
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1150.38	1150.38	1052.18	887.14	766.64	653.05	545.66	419.49	328.95
45.0	1521.64	1379.43	1202.70	1066.92	937.00	811.77	667.22	558.95	457.12
90.0	1166.65	1166.65	1032.22	902.48	747.33	629.53	496.45	398.25	308.94
135.0	1400.50	1259.46	1086.82	953.98	824.06	705.25	566.56	464.14	371.09
180.0	1284.63	1147.10	1011.91	850.39	726.32	613.96	484.04	389.82	303.79
225.0	1145.69	1009.34	852.03	728.61	593.36	491.00	398.89	311.81	220.34
270.0	1351.34	1179.87	1048.78	911.84	752.66	645.56	540.22	411.47	328.95
315.0	1164.36	1093.73	959.24	834.00	683.54	574.87	472.80	356.11	273.36
360.0	1150.38	1150.38	1052.18	887.14	766.64	653.05	545.66	419.49	328.95
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	248.72	182.00	117.51	83.57	66.31	59.11	53.43	48.57	45.71
45.0	340.07	297.94	297.94	118.68	84.97	69.35	59.93	54.19	49.98
90.0	215.71	156.66	110.20	81.00	66.01	59.05	53.67	48.81	45.94
135.0	306.72	306.72	139.75	98.43	75.73	64.02	57.47	52.90	48.46
180.0	303.79	152.28	107.86	79.18	66.07	57.29	52.14	48.57	45.12
225.0	160.41	113.36	76.31	63.38	56.36	50.86	46.35	43.66	41.38
270.0	309.64	219.34	114.76	80.53	65.55	56.12	50.50	46.76	43.89
315.0	202.60	144.78	91.82	69.93	60.45	52.67	48.46	45.30	42.31
360.0	248.72	182.00	117.51	83.57	66.31	59.11	53.43	48.57	45.71

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	43.31	41.20	38.98	37.45	36.05	34.76	33.42	32.42	31.37
45.0	46.12	43.66	41.55	39.68	37.98	36.11	34.88	33.77	32.48
90.0	43.37	41.20	38.98	37.40	36.05	34.41	33.30	32.07	31.13
135.0	45.82	42.96	41.08	39.33	37.40	36.05	34.76	33.65	32.42
180.0	42.78	40.44	38.80	37.40	36.05	34.53	33.42	32.48	31.49
225.0	39.09	37.45	35.99	34.47	33.42	32.42	31.31	30.43	29.73
270.0	40.85	39.03	37.45	35.52	34.29	33.18	31.95	31.08	30.14
315.0	40.20	38.45	36.93	35.23	34.18	33.07	32.13	31.08	30.20
360.0	43.31	41.20	38.98	37.45	36.05	34.76	33.42	32.42	31.37
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	30.61	29.79	28.97	28.27	27.62	26.98	26.22	25.57	24.99
45.0	31.54	30.72	29.79	28.97	28.09	27.45	26.80	26.16	25.34
90.0	30.26	29.55	28.56	27.86	27.21	26.57	25.93	25.16	24.64
135.0	31.43	30.61	29.79	29.09	28.21	27.51	26.74	26.16	25.52
180.0	30.49	29.61	28.79	28.15	27.33	26.69	25.93	25.34	24.76
225.0	29.03	28.15	27.56	26.92	26.22	25.40	24.81	24.05	23.47
270.0	29.14	28.50	27.80	27.21	26.45	25.87	25.28	24.70	23.99
315.0	29.32	28.62	27.97	27.21	26.63	25.98	25.28	24.70	24.11
360.0	30.61	29.79	28.97	28.27	27.62	26.98	26.22	25.57	24.99
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	24.40	23.64	23.06	22.41	21.65	21.01	20.42	20.25	20.48
45.0	24.70	24.11	23.53	22.77	22.12	21.48	20.89	20.13	19.55
90.0	23.88	23.35	22.71	21.89	21.30	20.66	19.96	19.37	18.79
135.0	24.70	24.05	23.47	22.71	22.06	21.54	21.01	20.31	19.78
180.0	23.94	23.29	22.65	21.83	21.24	20.72	20.48	20.78	21.24
225.0	22.88	22.12	21.48	20.83	20.25	19.43	18.90	18.32	17.73
270.0	23.41	22.82	22.06	21.48	20.72	20.13	19.55	18.84	18.26
315.0	23.47	22.82	22.18	21.59	20.95	20.25	19.66	19.14	18.43
360.0	24.40	23.64	23.06	22.41	21.65	21.01	20.42	20.25	20.48
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	20.72	20.25	19.55	18.73	17.62	16.74	15.86	15.16	14.34
45.0	18.79	18.08	17.50	16.68	16.09	15.63	15.22	14.69	14.34
90.0	18.20	17.44	16.85	16.50	16.09	15.86	15.57	15.04	14.57
135.0	19.31	18.84	18.32	18.02	17.73	17.32	16.85	16.27	15.74
180.0	21.59	21.30	20.66	19.96	19.14	18.14	17.38	16.27	15.57
225.0	16.91	16.27	15.74	15.22	14.81	14.40	14.05	13.64	13.28
270.0	17.73	17.38	17.56	17.62	17.62	17.38	16.97	16.44	15.51
315.0	18.08	18.02	18.20	18.38	18.26	17.73	17.26	16.39	15.57
360.0	20.72	20.25	19.55	18.73	17.62	16.74	15.86	15.16	14.34
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.87	13.40	12.87	12.06	11.24	10.48	10.07	9.89	9.66
45.0	13.99	13.64	13.23	12.64	11.76	10.89	10.30	10.07	9.83
90.0	13.64	13.05	12.47	11.70	10.83	10.24	10.07	9.83	9.66
135.0	15.04	13.99	13.11	12.29	11.29	10.42	10.12	9.89	9.71
180.0	14.28	13.23	12.47	11.59	10.71	10.12	9.95	9.77	9.60
225.0	12.87	12.52	11.88	10.89	10.24	10.01	9.77	9.54	9.54
270.0	14.22	12.93	12.35	11.82	11.06	10.36	10.01	9.83	9.60
315.0	13.75	12.82	12.35	11.47	10.77	10.18	9.89	9.71	9.60
360.0	13.87	13.40	12.87	12.06	11.24	10.48	10.07	9.89	9.66

Intensity data(cd)

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