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NT

Client:

LumCAT: 2-2681-L

Luminaire: 92.70.411.00

Report No: 2024416-B009

Ballast type: AC

Test No: 2024416-C009

Voltage(V): 33.770

LampCAT: NICHIA NFCWJ108B-V3

Current(A): 0.577

Lamp flux(lm): 2647.0

Power (W): 19.485

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2187.77, Efficiency(%): 82.65% , Luminous Efficacy(lm/W): 112.28

Central intensity(cd): 3926.626, Maximum intensity(cd): 3926.626

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

Beam Angle(50%Imax): [C0/180]Total=44.4

[C90/270]Total=44.4

Field angle(10%Imax): [C0/180]Total=68.0

[C90/270]Total=68.0

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(%): 82.65%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.747%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/4/16  
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	3926.626	0.000	0	0.00%	0.00%
1.0	3920.627	3.755	3.755	0.14%	0.17%
2.0	3908.849	11.238	14.992	0.42%	0.69%
3.0	3888.147	18.648	33.64	0.70%	1.54%
4.0	3852.156	25.909	59.549	0.98%	2.72%
5.0	3809.946	32.962	92.511	1.25%	4.23%
6.0	3758.008	39.772	132.283	1.50%	6.05%
7.0	3695.828	46.266	178.549	1.75%	8.16%
8.0	3626.844	52.407	230.956	1.98%	10.56%
9.0	3549.302	58.159	289.115	2.20%	13.22%
10.0	3462.103	63.451	352.565	2.40%	16.12%
11.0	3378.270	68.349	420.915	2.58%	19.24%
12.0	3274.173	72.721	493.635	2.75%	22.56%
13.0	3170.954	76.487	570.123	2.89%	26.06%
14.0	3058.298	79.734	649.857	3.01%	29.70%
15.0	2939.058	82.334	732.191	3.11%	33.47%
16.0	2820.331	84.391	816.582	3.19%	37.32%
17.0	2690.923	85.825	902.407	3.24%	41.25%
18.0	2565.100	86.660	989.068	3.27%	45.21%
19.0	2418.647	86.707	1075.775	3.28%	49.17%
20.0	2278.047	85.963	1161.737	3.25%	53.10%
21.0	2135.106	84.741	1246.479	3.20%	56.97%
22.0	1990.189	82.900	1329.378	3.13%	60.76%
23.0	1845.931	80.492	1409.87	3.04%	64.44%
24.0	1696.553	77.451	1487.322	2.93%	67.98%
25.0	1563.633	74.129	1561.451	2.80%	71.37%
26.0	1315.074	67.952	1629.404	2.57%	74.48%
27.0	1246.895	62.679	1692.083	2.37%	77.34%
28.0	1121.876	59.972	1752.055	2.27%	80.08%
29.0	981.020	55.018	1807.073	2.08%	82.60%
30.0	846.382	49.339	1856.412	1.86%	84.85%
31.0	710.727	43.332	1899.744	1.64%	86.83%
32.0	590.711	37.285	1937.029	1.41%	88.54%
33.0	486.512	31.735	1968.764	1.20%	89.99%
34.0	395.100	26.680	1995.444	1.01%	91.21%
35.0	315.268	22.061	2017.506	0.83%	92.22%
36.0	260.169	18.322	2035.828	0.69%	93.05%
37.0	226.511	15.873	2051.701	0.60%	93.78%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	143.797	12.360	2064.061	0.47%	94.35%
39.0	107.316	8.571	2072.632	0.32%	94.74%
40.0	85.106	6.711	2079.343	0.25%	95.04%
41.0	68.413	5.467	2084.81	0.21%	95.29%
42.0	57.330	4.568	2089.378	0.17%	95.50%
43.0	49.510	3.958	2093.336	0.15%	95.68%
44.0	44.572	3.551	2096.887	0.13%	95.85%
45.0	40.746	3.279	2100.166	0.12%	96.00%
46.0	37.988	3.079	2103.245	0.12%	96.14%
47.0	35.860	2.937	2106.182	0.11%	96.27%
48.0	34.038	2.826	2109.008	0.11%	96.40%
49.0	32.590	2.736	2111.744	0.10%	96.52%
50.0	31.346	2.666	2114.41	0.10%	96.65%
51.0	30.278	2.607	2117.017	0.10%	96.77%
52.0	29.291	2.556	2119.573	0.10%	96.88%
53.0	28.369	2.508	2122.081	0.09%	97.00%
54.0	27.579	2.466	2124.547	0.09%	97.11%
55.0	26.723	2.424	2126.971	0.09%	97.22%
56.0	25.969	2.381	2129.352	0.09%	97.33%
57.0	25.245	2.342	2131.694	0.09%	97.44%
58.0	24.528	2.302	2133.995	0.09%	97.54%
59.0	23.870	2.263	2136.258	0.09%	97.65%
60.0	23.190	2.223	2138.481	0.08%	97.75%
61.0	22.568	2.184	2140.665	0.08%	97.85%
62.0	21.931	2.144	2142.809	0.08%	97.94%
63.0	21.310	2.103	2144.912	0.08%	98.04%
64.0	20.695	2.061	2146.973	0.08%	98.14%
65.0	20.059	2.017	2148.99	0.08%	98.23%
66.0	19.473	1.972	2150.963	0.07%	98.32%
67.0	18.888	1.929	2152.892	0.07%	98.41%
68.0	18.369	1.887	2154.779	0.07%	98.49%
69.0	17.915	1.851	2156.63	0.07%	98.58%
70.0	17.549	1.821	2158.451	0.07%	98.66%
71.0	17.330	1.803	2160.254	0.07%	98.74%
72.0	17.235	1.797	2162.051	0.07%	98.82%
73.0	17.111	1.796	2163.847	0.07%	98.91%
74.0	17.015	1.794	2165.641	0.07%	98.99%
75.0	16.774	1.785	2167.427	0.07%	99.07%

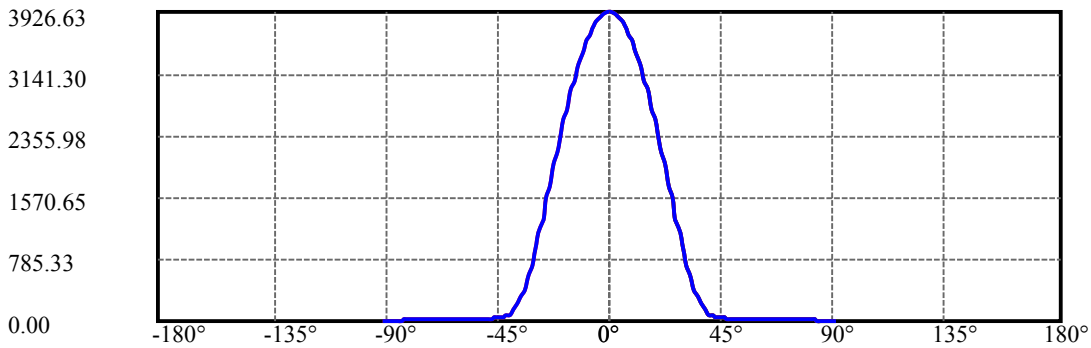
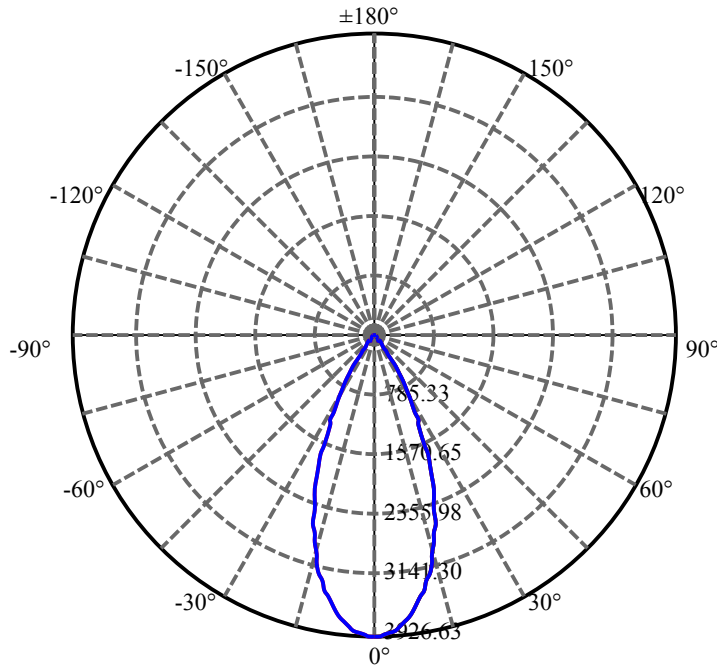
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.408	1.761	2169.188	0.07%	99.15%
77.0	16.101	1.733	2170.921	0.07%	99.23%
78.0	15.640	1.699	2172.621	0.06%	99.31%
79.0	15.033	1.648	2174.269	0.06%	99.38%
80.0	14.331	1.583	2175.852	0.06%	99.46%
81.0	13.563	1.508	2177.36	0.06%	99.52%
82.0	12.714	1.425	2178.785	0.05%	99.59%
83.0	11.982	1.343	2180.128	0.05%	99.65%
84.0	11.141	1.260	2181.387	0.05%	99.71%
85.0	10.337	1.172	2182.56	0.04%	99.76%
86.0	9.803	1.101	2183.66	0.04%	99.81%
87.0	9.525	1.058	2184.718	0.04%	99.86%
88.0	9.320	1.032	2185.75	0.04%	99.91%
89.0	9.195	1.015	2186.765	0.04%	99.95%
90.0	9.144	1.006	2187.771	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1856.41	70.13%	84.85%
0-40	2079.34	78.55%	95.04%
0-60	2138.48	80.79%	97.75%
0-90	2186.77	82.61%	99.95%
0-120	2186.77	82.61%	99.95%
0-180	2187.77	82.65%	100.00%
60-90	48.28	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%
0-27.97	1750.22	66.12%	80.00%

ZONAL LUMEN SUMMARY

0-10	352.57
10-20	809.17
20-30	694.67
30-40	222.93
40-50	35.07
50-60	24.07
60-70	19.97
70-80	17.40
80-90	10.91
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: —————

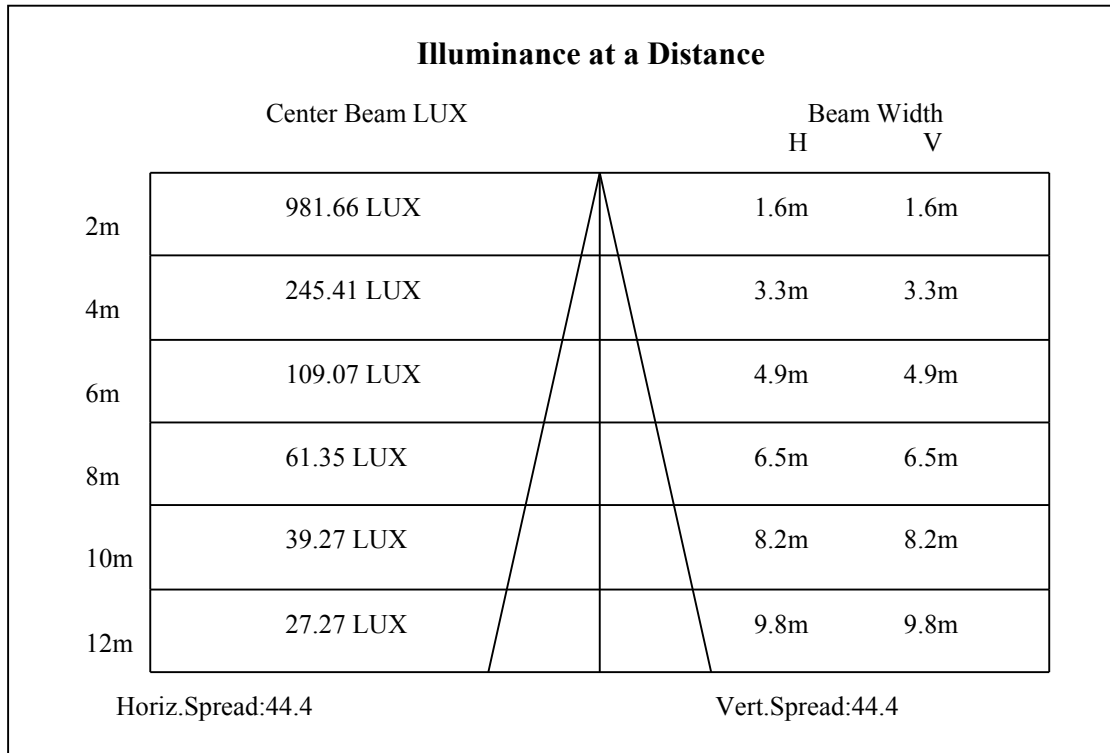
C90/C270: —————

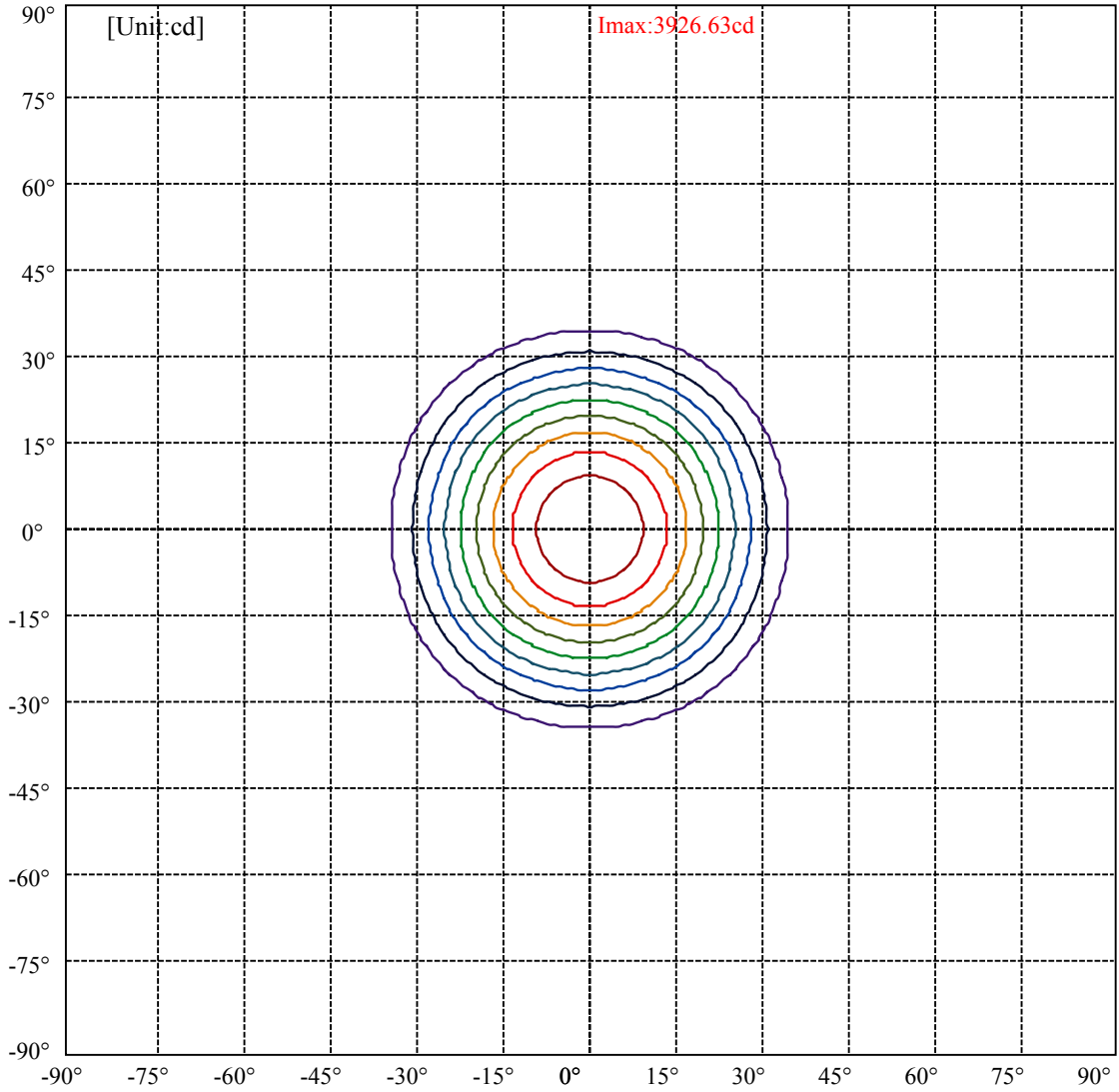
Field angle(10%Imax):C0/180Left:34.0 Right:34.0

:C90/270Left:34.0 Right:34.0

Beam Angle(50%Imax):C0/180Left:22.2 Right:22.2

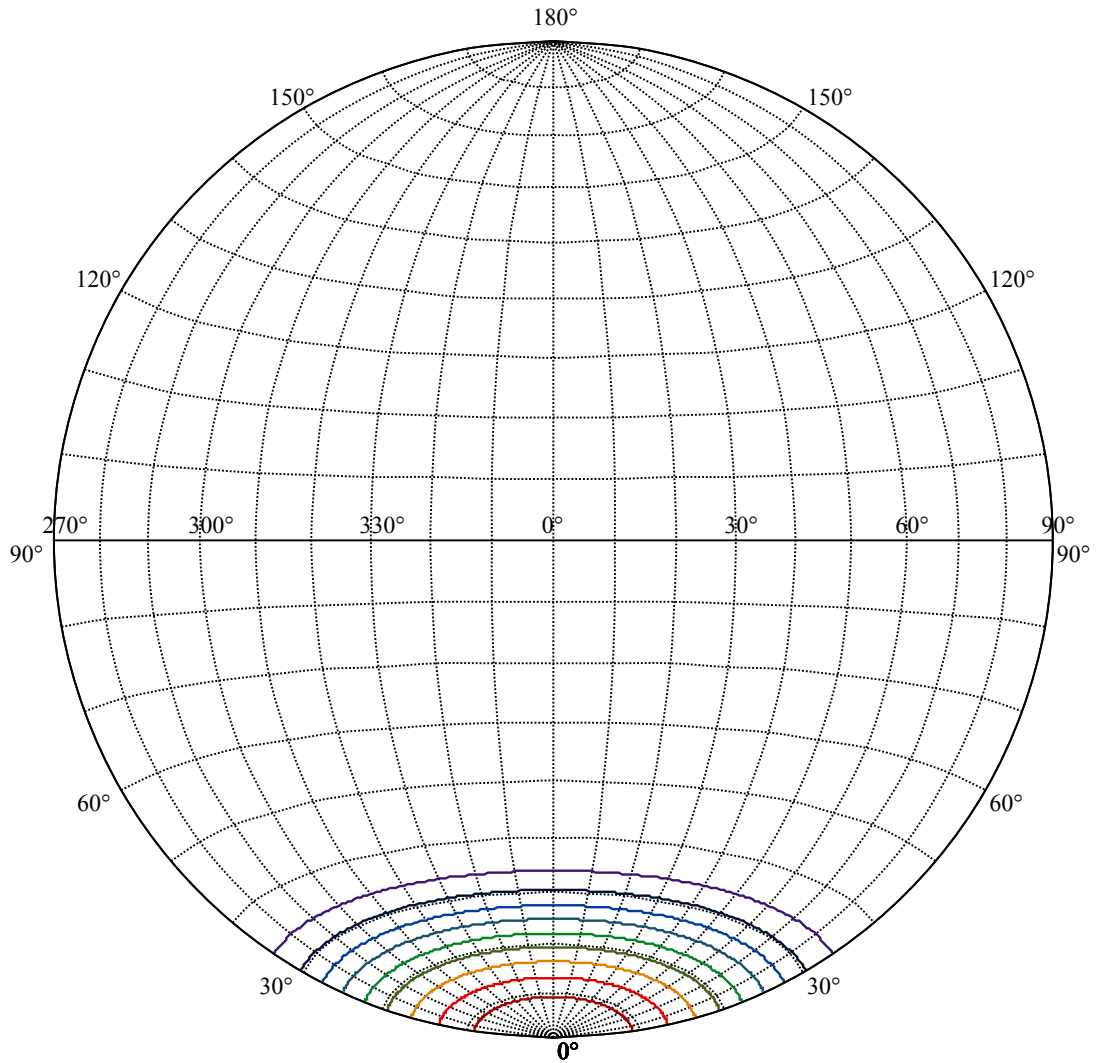
:C90/270Left:22.2 Right:22.2





(10%Imax) 392.663	—
(20%Imax) 785.325	—
(30%Imax) 1177.99	—
(40%Imax) 1570.65	—
(50%Imax) 1963.31	—
(60%Imax) 2355.98	—
(70%Imax) 2748.64	—
(80%Imax) 3141.3	—
(90%Imax) 3533.96	—





House

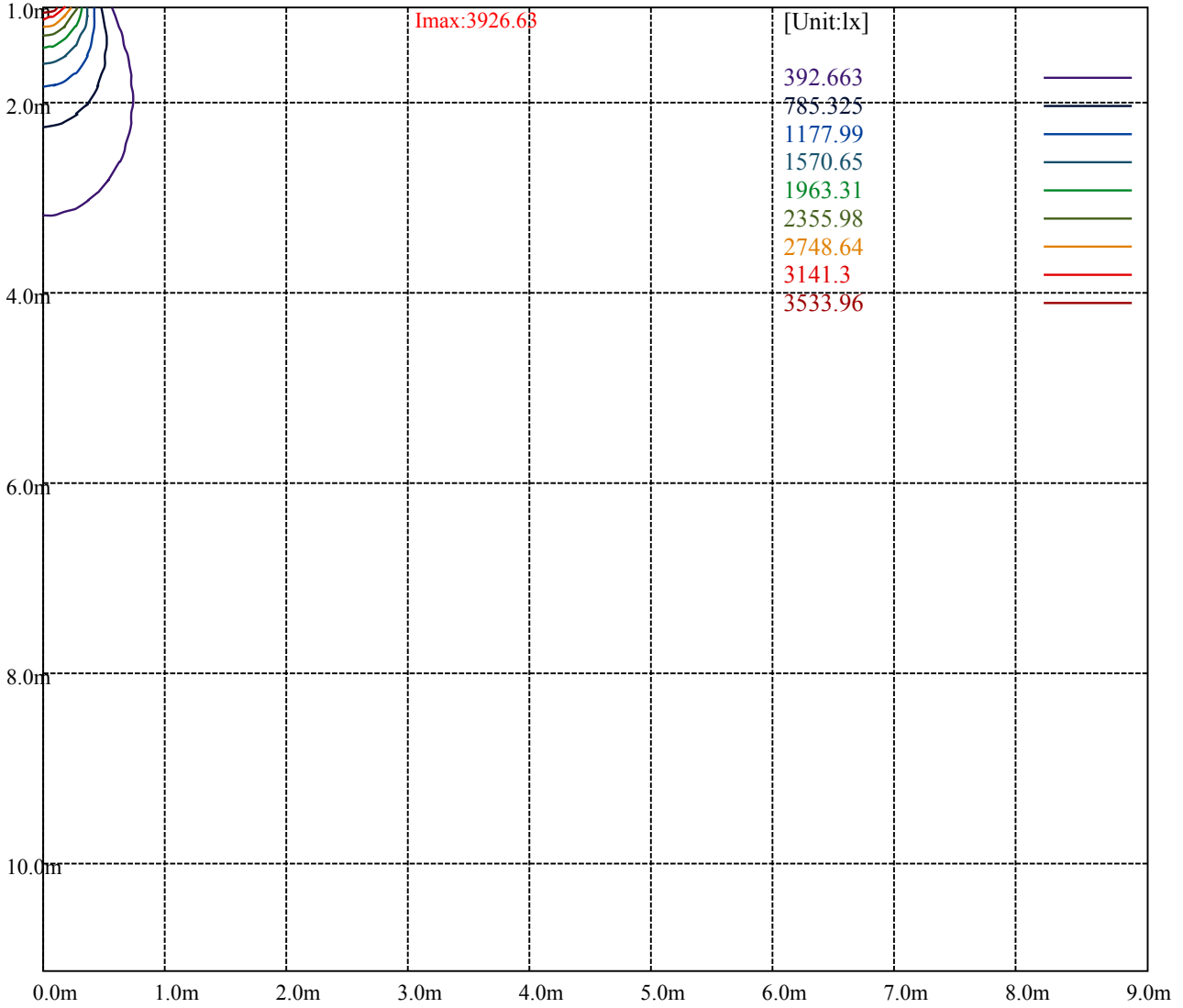
[Unit:cd]

Road

**Imax:3926.63**

(10%Imax)	392.663	—
(20%Imax)	785.325	—
(30%Imax)	1177.99	—
(40%Imax)	1570.65	—
(50%Imax)	1963.31	—
(60%Imax)	2355.98	—
(70%Imax)	2748.64	—
(80%Imax)	3141.3	—
(90%Imax)	3533.96	—





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

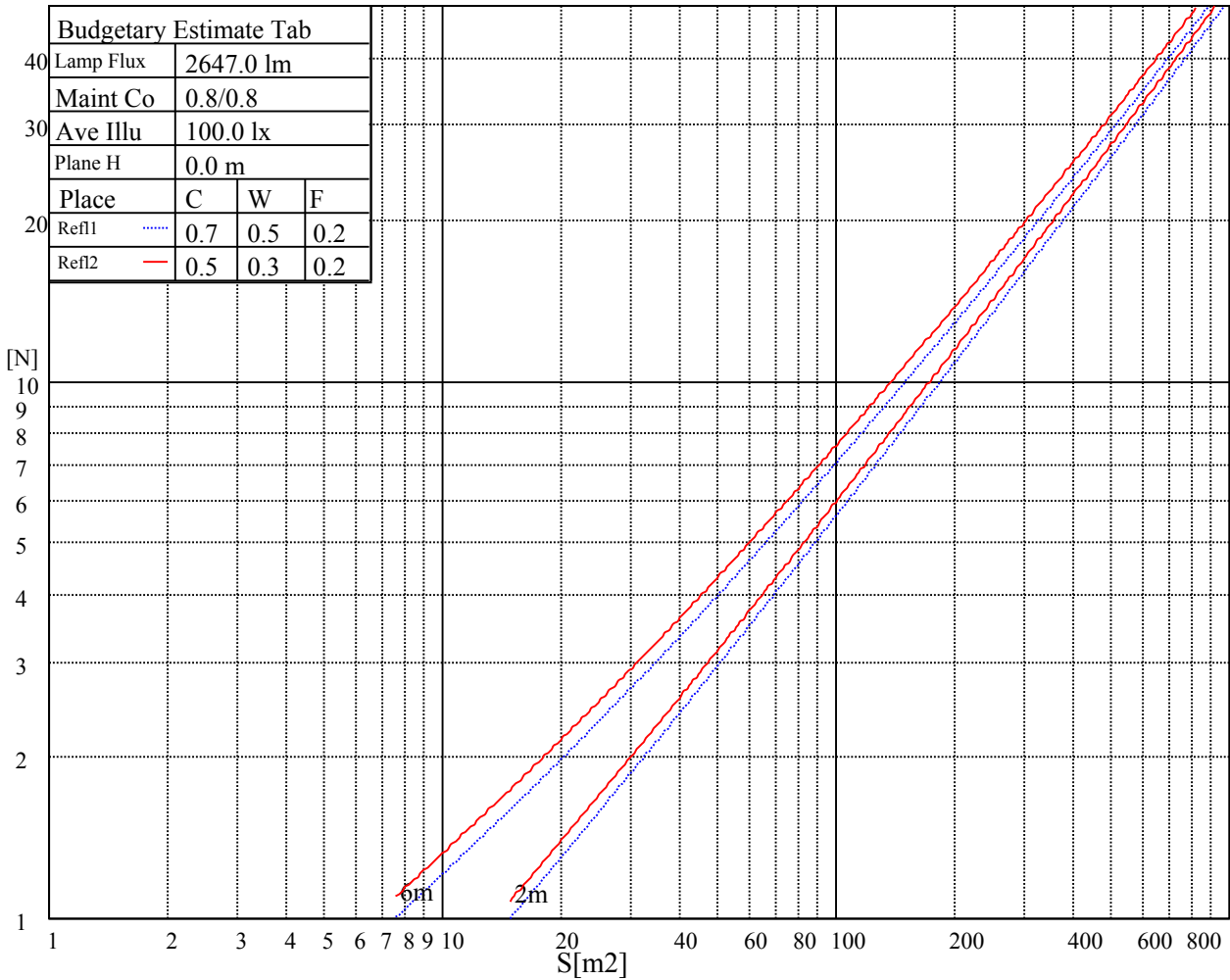
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

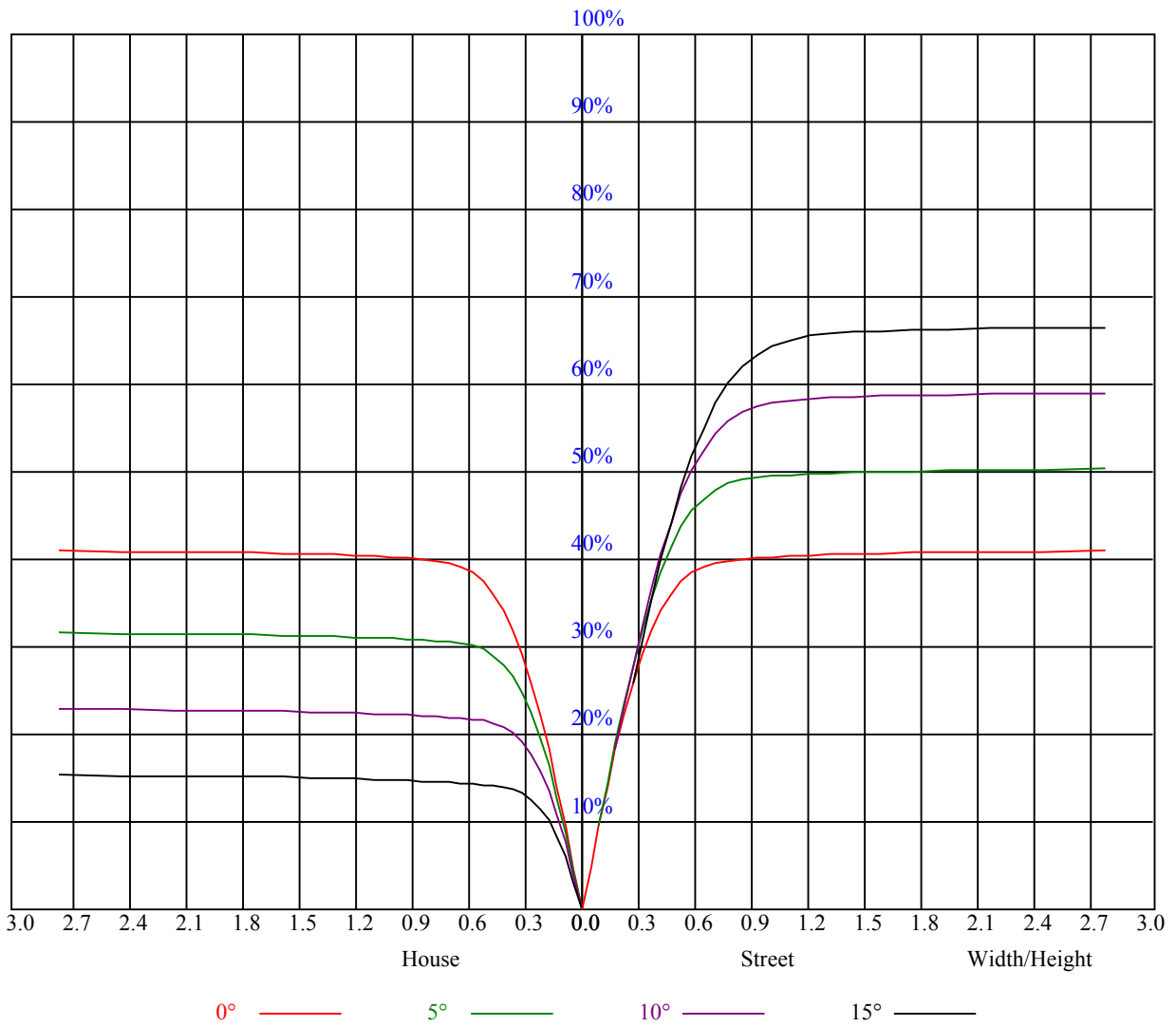


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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

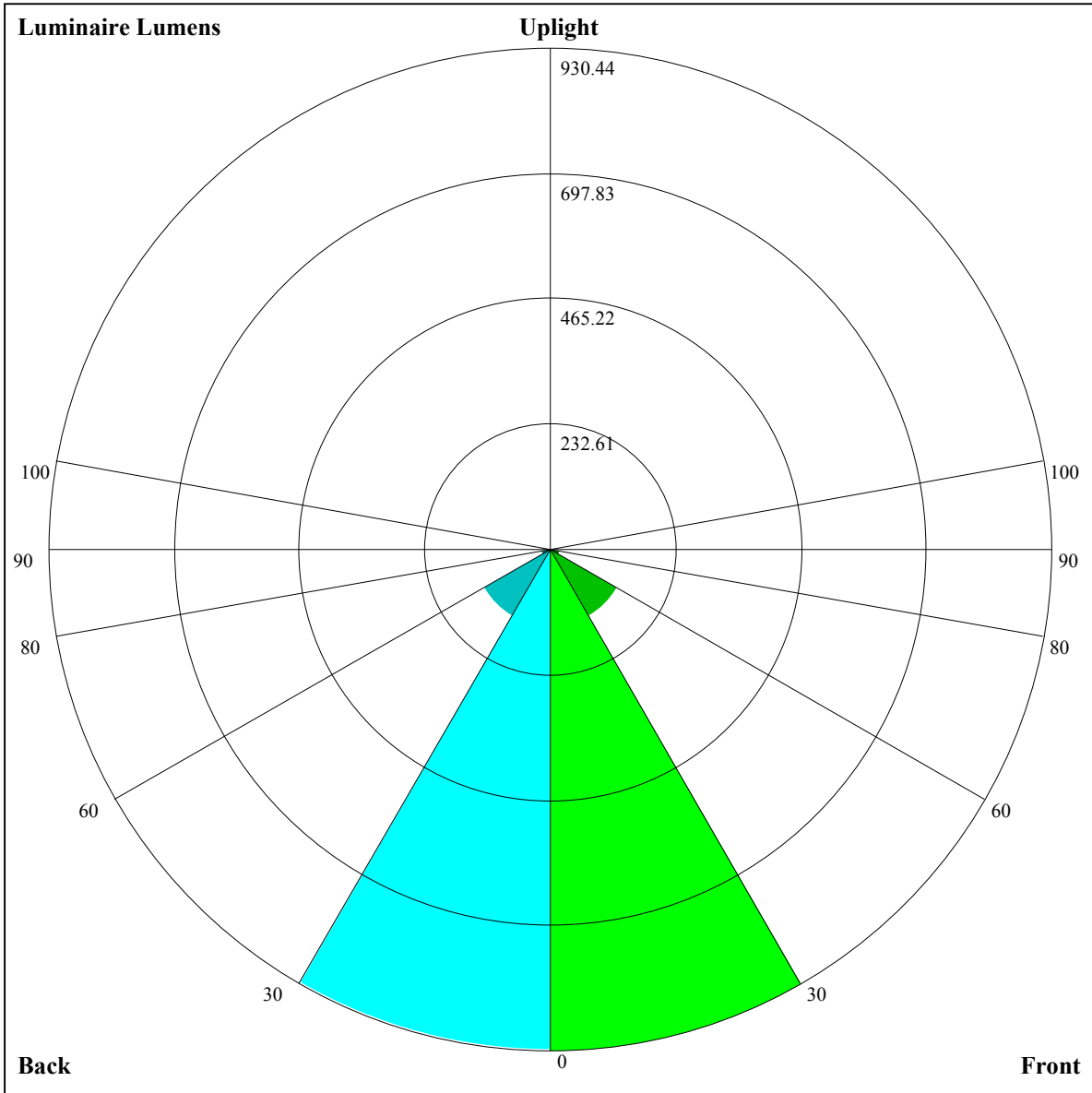
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	0.85	0.84	0.84	0.82	0.81	0.81	0.80	0.79	0.78
2	0.86	0.83	0.80	0.85	0.82	0.79	0.82	0.80	0.78	0.80	0.78	0.76	0.77	0.76	0.74	0.73
3	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.72	0.76	0.73	0.71	0.74	0.72	0.70	0.69
4	0.76	0.72	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.72	0.69	0.67	0.71	0.68	0.66	0.65
5	0.72	0.68	0.65	0.72	0.68	0.65	0.70	0.67	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
6	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
7	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.57	0.56
8	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.54	0.59	0.56	0.54	0.53
9	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	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	0.55	0.52	0.50	0.55	0.52	0.49	0.48







Luminaire Lumens:

FL=930.44,FM=144.09,FH=18.58,FVH=5.97

BL=927.81,BM=141.79,BH=18.6,BVH=5.96

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	3926.92	3925.16	3909.95	3889.46	3839.13	3799.92	3751.35	3689.90	3626.70
45.0	3924.58	3923.41	3925.16	3915.21	3881.27	3849.67	3809.29	3760.13	3682.88
90.0	3931.01	3918.14	3900.58	3878.93	3838.55	3789.98	3739.65	3677.03	3589.83
135.0	3923.99	3916.97	3908.19	3895.90	3867.23	3830.94	3784.71	3720.92	3661.23
180.0	3926.92	3927.50	3913.46	3895.90	3866.64	3816.90	3767.74	3711.56	3648.94
225.0	3924.58	3909.95	3900.00	3859.62	3820.99	3775.34	3705.12	3636.65	3564.66
270.0	3931.01	3924.58	3920.48	3899.41	3871.32	3837.38	3791.73	3722.09	3657.71
315.0	3923.99	3919.31	3892.98	3870.74	3832.11	3779.44	3714.48	3648.35	3582.81
360.0	3926.92	3925.16	3909.95	3889.46	3839.13	3799.92	3751.35	3689.90	3626.70
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3532.48	3453.47	3366.86	3250.98	3152.67	3047.91	2910.97	2800.95	2652.30
45.0	3617.33	3545.94	3469.27	3365.69	3269.13	3144.47	3038.55	2929.69	2781.05
90.0	3516.09	3413.09	3328.82	3227.57	3125.75	2989.97	2881.12	2761.74	2637.67
135.0	3592.17	3520.19	3436.50	3325.31	3228.74	3133.94	2999.34	2885.80	2765.83
180.0	3564.08	3479.81	3395.53	3299.56	3180.76	3074.25	2967.15	2828.45	2716.09
225.0	3486.24	3382.66	3295.46	3197.73	3098.82	2965.98	2847.18	2738.91	2582.07
270.0	3576.95	3495.61	3416.02	3300.73	3207.68	3109.94	3002.85	2868.25	2761.15
315.0	3592.17	3406.07	3317.70	3225.82	3104.09	2999.92	2865.32	2748.86	2631.23
360.0	3532.48	3453.47	3366.86	3250.98	3152.67	3047.91	2910.97	2800.95	2652.30
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2525.89	2391.29	2261.95	2127.94	1962.90	1822.45	1688.43	1555.00	1149.44
45.0	2664.00	2538.18	2382.51	2246.15	2109.21	1979.29	1809.57	1671.46	1536.86
90.0	2486.68	2355.59	2221.57	2081.70	1913.16	1776.80	1603.58	1469.56	1166.29
135.0	2648.79	2494.87	2364.37	2194.65	2062.98	1931.89	1759.24	1619.38	1483.60
180.0	2595.53	2427.57	2288.87	2120.91	1993.92	1858.73	1714.77	1585.43	1416.89
225.0	2457.42	2292.97	2155.44	2025.52	1856.98	1720.03	1588.94	1456.10	1152.25
270.0	2638.25	2506.58	2338.03	2209.28	2082.87	1908.48	1771.53	1645.71	1477.75
315.0	2504.24	2342.13	2211.62	2074.68	1939.49	1769.78	1636.35	1506.43	1137.50
360.0	2525.89	2391.29	2261.95	2127.94	1962.90	1822.45	1688.43	1555.00	1149.44
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1149.44	1115.26	951.22	826.10	680.38	573.64	478.71	373.72	302.15
45.0	1401.67	1229.03	1094.43	961.00	804.74	686.53	553.10	459.46	376.94
90.0	1166.29	1030.64	901.89	772.38	625.72	521.90	431.90	350.96	264.11
135.0	1344.91	1172.85	1038.25	906.57	781.92	634.44	530.86	438.98	343.00
180.0	1281.12	1155.88	1020.69	852.15	729.83	612.79	485.80	399.18	310.23
225.0	1152.25	1017.88	885.33	758.63	614.49	511.43	421.24	327.61	264.23
270.0	1341.98	1183.38	1050.54	913.59	781.92	648.49	543.73	444.24	365.24
315.0	1137.50	1070.08	905.81	780.63	666.81	536.48	446.76	366.64	296.24
360.0	1149.44	1115.26	951.22	826.10	680.38	573.64	478.71	373.72	302.15
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	238.30	185.63	142.85	103.41	82.63	68.12	56.01	49.45	44.71
45.0	304.96	304.96	169.95	129.74	100.72	80.47	63.56	54.60	48.22
90.0	205.30	157.84	120.85	88.90	72.51	58.52	50.97	45.76	41.20
135.0	307.89	307.89	151.46	116.23	91.06	70.52	59.58	51.97	46.64
180.0	310.23	234.91	147.89	107.86	85.38	69.58	58.87	49.80	45.00
225.0	195.99	151.87	117.81	87.37	70.87	59.34	51.27	44.54	40.79
270.0	297.35	297.35	166.91	127.58	99.43	75.61	62.68	52.09	46.41
315.0	221.33	171.65	132.67	97.44	78.24	65.14	55.71	47.87	43.60
360.0	238.30	185.63	142.85	103.41	82.63	68.12	56.01	49.45	44.71

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	40.56	38.10	36.17	34.18	32.83	31.43	30.43	29.50	28.68
45.0	42.84	39.74	37.34	35.11	33.59	32.30	30.96	30.02	29.14
90.0	38.51	36.28	34.53	32.77	31.60	30.55	29.67	28.62	27.86
135.0	41.90	39.21	37.04	35.29	33.47	32.30	31.25	30.14	29.32
180.0	41.55	38.86	36.28	34.65	33.24	31.78	30.72	29.79	28.73
225.0	37.98	35.87	33.77	32.36	31.13	29.90	28.97	28.09	27.10
270.0	42.25	38.45	36.17	34.35	32.48	31.25	30.08	29.14	28.03
315.0	40.38	37.40	35.58	33.59	32.36	31.25	30.14	29.03	28.09
360.0	40.56	38.10	36.17	34.18	32.83	31.43	30.43	29.50	28.68
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.92	26.98	26.16	25.52	24.70	24.11	23.47	22.88	22.12
45.0	28.21	27.51	26.74	25.98	25.11	24.46	23.82	23.23	22.47
90.0	27.10	26.22	25.52	24.81	24.05	23.41	22.65	22.06	21.54
135.0	28.56	27.62	26.92	26.10	25.40	24.76	24.17	23.35	22.77
180.0	27.97	27.04	26.34	25.63	24.93	24.11	23.53	22.88	22.30
225.0	26.39	25.46	24.81	24.17	23.58	22.94	22.24	21.65	21.07
270.0	27.21	26.39	25.63	24.76	24.11	23.47	22.71	22.12	21.42
315.0	27.27	26.57	25.63	24.99	24.35	23.70	22.94	22.36	21.77
360.0	27.92	26.98	26.16	25.52	24.70	24.11	23.47	22.88	22.12
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.59	21.01	20.31	19.72	19.14	18.90	18.90	19.14	19.66
45.0	21.89	21.24	20.66	20.13	19.43	18.84	18.32	17.73	17.26
90.0	20.95	20.25	19.72	19.14	18.61	17.97	17.50	17.09	16.68
135.0	22.12	21.65	20.83	20.37	19.78	19.14	18.61	18.14	17.67
180.0	21.54	20.95	20.37	19.66	19.14	18.61	18.02	17.73	17.97
225.0	20.48	19.78	19.20	18.67	18.02	17.56	16.97	16.56	16.09
270.0	20.83	20.25	19.72	18.96	18.38	17.85	17.38	16.80	16.44
315.0	21.07	20.42	19.66	19.14	18.61	18.08	17.62	17.21	16.85
360.0	21.59	21.01	20.31	19.72	19.14	18.90	18.90	19.14	19.66
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	20.07	20.07	19.78	18.96	18.14	17.38	16.33	15.51	14.51
45.0	16.80	16.33	15.86	15.45	15.10	14.86	14.46	14.10	13.64
90.0	16.56	16.91	17.38	17.67	17.67	17.56	17.15	16.44	15.51
135.0	17.67	18.02	18.79	19.20	19.31	19.49	19.61	18.73	17.32
180.0	18.61	18.38	17.85	17.21	16.44	15.80	15.22	14.63	13.99
225.0	15.63	15.27	15.04	14.75	14.40	14.10	13.75	13.40	13.05
270.0	15.98	15.51	15.16	14.92	14.63	14.40	13.99	13.58	13.23
315.0	16.56	16.39	16.27	16.04	15.57	15.22	14.63	13.87	13.40
360.0	20.07	20.07	19.78	18.96	18.14	17.38	16.33	15.51	14.51
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.40	12.70	12.17	11.24	10.53	10.01	9.60	9.42	9.25
45.0	13.34	12.93	12.35	11.82	11.06	10.36	9.77	9.42	9.31
90.0	13.99	12.35	11.76	10.83	10.12	9.60	9.48	9.31	9.19
135.0	15.92	13.93	12.41	11.53	10.59	9.83	9.60	9.36	9.25
180.0	13.52	12.82	12.17	11.12	10.12	9.71	9.48	9.36	9.19
225.0	12.58	12.06	11.18	10.36	9.71	9.54	9.36	9.19	9.13
270.0	12.87	12.41	12.00	11.29	10.42	9.77	9.48	9.31	9.13
315.0	12.87	12.52	11.82	10.94	10.12	9.60	9.42	9.19	9.13
360.0	13.40	12.70	12.17	11.24	10.53	10.01	9.60	9.42	9.25

Intensity data(cd)

C/γ(°)	90.0
0.0	9.25
45.0	9.13
90.0	9.13
135.0	9.13
180.0	9.13
225.0	9.13
270.0	9.13
315.0	9.13
360.0	9.25