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NT

Client:

LumCAT: 2-2684-L

Luminaire: 92.70.411.00

Report No: 2024416-B015

Ballast type: AC

Test No: 2024416-C015

Voltage(V): 33.780

LampCAT: NICHIA NFCWJ108B-V3

Current(A): 0.577

Lamp flux(lm): 2647.0

Power (W): 19.491

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2247.61, Efficiency(%): 84.91% , Luminous Efficacy(lm/W): 115.32

Central intensity(cd): 5202.270, Maximum intensity(cd): 5202.270

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=34.4

[C90/270]Total=34.4

Field angle(10%Imax): [C0/180]Total=64.4

[C90/270]Total=64.4

Maximum s/h(1/2): C0_180=0.56 C90_270=0.56

Maximum s/h(1/4): C0_180=0.60 C90_270=0.60

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.91%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.979%

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	5202.270	0.000	0	0.00%	0.00%
1.0	5188.444	4.972	4.972	0.19%	0.22%
2.0	5147.186	14.835	19.806	0.56%	0.88%
3.0	5074.837	24.448	44.254	0.92%	1.97%
4.0	4980.543	33.659	77.913	1.27%	3.47%
5.0	4879.665	42.418	120.331	1.60%	5.35%
6.0	4752.378	50.619	170.95	1.91%	7.61%
7.0	4613.972	58.137	229.087	2.20%	10.19%
8.0	4458.888	64.933	294.019	2.45%	13.08%
9.0	4294.732	70.943	364.963	2.68%	16.24%
10.0	4116.092	76.115	441.078	2.88%	19.62%
11.0	3928.967	80.387	521.464	3.04%	23.20%
12.0	3723.479	83.652	605.116	3.16%	26.92%
13.0	3500.143	85.726	690.843	3.24%	30.74%
14.0	3282.586	86.818	777.661	3.28%	34.60%
15.0	3067.662	87.179	864.84	3.29%	38.48%
16.0	2852.372	86.745	951.585	3.28%	42.34%
17.0	2637.521	85.492	1037.077	3.23%	46.14%
18.0	2451.712	83.910	1120.988	3.17%	49.87%
19.0	2271.683	82.177	1203.165	3.10%	53.53%
20.0	2109.795	80.193	1283.358	3.03%	57.10%
21.0	1941.762	77.798	1361.157	2.94%	60.56%
22.0	1791.140	75.014	1436.171	2.83%	63.90%
23.0	1644.248	72.084	1508.254	2.72%	67.10%
24.0	1479.983	68.307	1576.561	2.58%	70.14%
25.0	1292.455	63.039	1639.601	2.38%	72.95%
26.0	1219.367	59.292	1698.892	2.24%	75.59%
27.0	1109.382	56.973	1755.866	2.15%	78.12%
28.0	993.222	53.233	1809.099	2.01%	80.49%
29.0	870.061	48.749	1857.848	1.84%	82.66%
30.0	752.336	43.804	1901.652	1.65%	84.61%
31.0	644.998	38.886	1940.538	1.47%	86.34%
32.0	542.526	34.021	1974.559	1.29%	87.85%
33.0	452.269	29.307	2003.866	1.11%	89.16%
34.0	374.998	25.036	2028.902	0.95%	90.27%
35.0	314.844	21.424	2050.326	0.81%	91.22%
36.0	274.090	18.752	2069.078	0.71%	92.06%
37.0	238.860	16.730	2085.807	0.63%	92.80%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	197.374	14.561	2100.368	0.55%	93.45%
39.0	152.949	11.957	2112.326	0.45%	93.98%
40.0	128.742	9.824	2122.15	0.37%	94.42%
41.0	108.259	8.440	2130.589	0.32%	94.79%
42.0	92.217	7.284	2137.873	0.28%	95.12%
43.0	79.144	6.348	2144.221	0.24%	95.40%
44.0	69.064	5.594	2149.815	0.21%	95.65%
45.0	61.068	5.001	2154.816	0.19%	95.87%
46.0	54.711	4.528	2159.344	0.17%	96.07%
47.0	50.139	4.170	2163.514	0.16%	96.26%
48.0	46.240	3.896	2167.41	0.15%	96.43%
49.0	43.102	3.669	2171.079	0.14%	96.59%
50.0	40.234	3.475	2174.553	0.13%	96.75%
51.0	37.886	3.305	2177.858	0.12%	96.90%
52.0	35.779	3.161	2181.02	0.12%	97.04%
53.0	33.928	3.032	2184.052	0.11%	97.17%
54.0	31.997	2.906	2186.958	0.11%	97.30%
55.0	30.490	2.789	2189.747	0.11%	97.43%
56.0	28.881	2.683	2192.43	0.10%	97.54%
57.0	27.491	2.577	2195.007	0.10%	97.66%
58.0	26.130	2.480	2197.487	0.09%	97.77%
59.0	24.938	2.387	2199.874	0.09%	97.88%
60.0	23.819	2.303	2202.178	0.09%	97.98%
61.0	22.838	2.227	2204.404	0.08%	98.08%
62.0	21.880	2.155	2206.559	0.08%	98.17%
63.0	20.914	2.081	2208.64	0.08%	98.27%
64.0	20.081	2.012	2210.652	0.08%	98.36%
65.0	19.320	1.950	2212.602	0.07%	98.44%
66.0	18.676	1.896	2214.498	0.07%	98.53%
67.0	17.959	1.842	2216.34	0.07%	98.61%
68.0	17.279	1.785	2218.125	0.07%	98.69%
69.0	16.730	1.735	2219.86	0.07%	98.77%
70.0	16.203	1.691	2221.551	0.06%	98.84%
71.0	15.618	1.645	2223.196	0.06%	98.91%
72.0	15.128	1.599	2224.795	0.06%	98.98%
73.0	14.638	1.557	2226.351	0.06%	99.05%
74.0	14.236	1.518	2227.869	0.06%	99.12%
75.0	13.789	1.481	2229.35	0.06%	99.19%

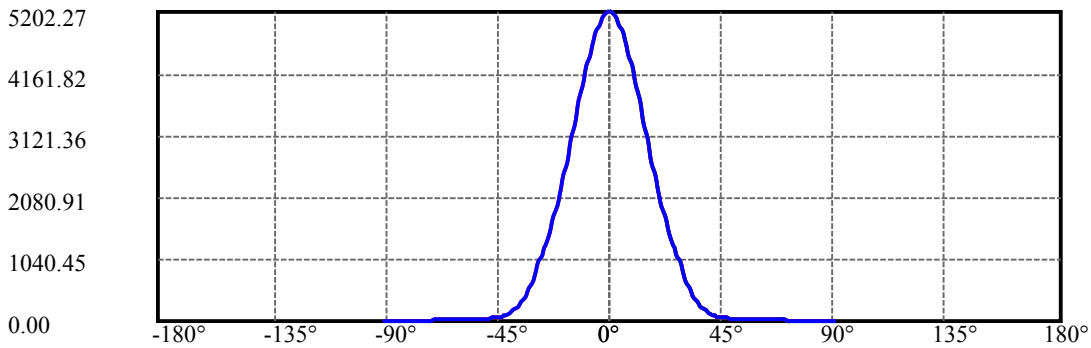
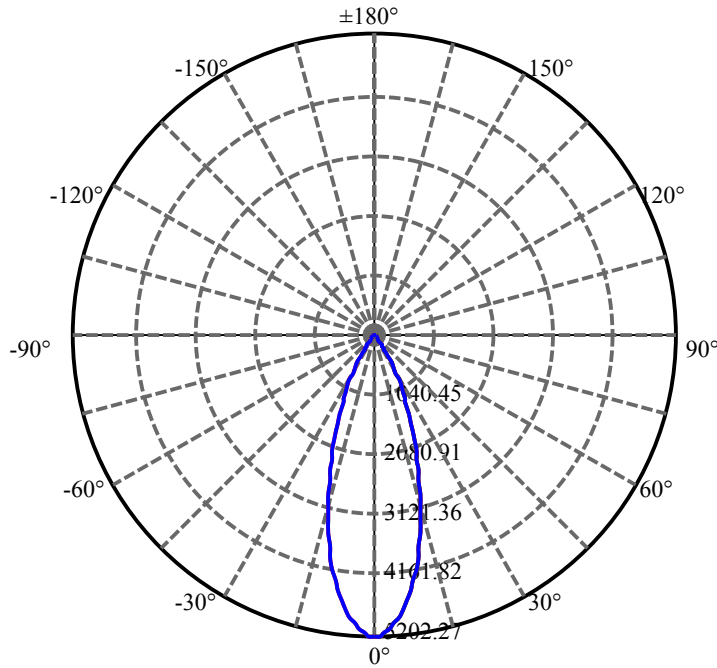
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.409	1.444	2230.794	0.05%	99.25%
77.0	13.058	1.411	2232.205	0.05%	99.31%
78.0	12.729	1.380	2233.585	0.05%	99.38%
79.0	12.341	1.347	2234.932	0.05%	99.44%
80.0	11.931	1.309	2236.241	0.05%	99.49%
81.0	11.631	1.274	2237.515	0.05%	99.55%
82.0	11.288	1.243	2238.758	0.05%	99.61%
83.0	10.907	1.207	2239.964	0.05%	99.66%
84.0	10.505	1.166	2241.131	0.04%	99.71%
85.0	10.278	1.134	2242.265	0.04%	99.76%
86.0	10.044	1.111	2243.376	0.04%	99.81%
87.0	9.824	1.087	2244.463	0.04%	99.86%
88.0	9.634	1.066	2245.529	0.04%	99.91%
89.0	9.451	1.046	2246.575	0.04%	99.95%
90.0	9.444	1.036	2247.611	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1901.65	71.84%	84.61%
0-40	2122.15	80.17%	94.42%
0-60	2202.18	83.20%	97.98%
0-90	2246.58	84.87%	99.95%
0-120	2246.58	84.87%	99.95%
0-180	2247.61	84.91%	100.00%
60-90	44.40	1.68%	1.98%
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%
0-27.79	1798.09	67.93%	80.00%

ZONAL LUMEN SUMMARY

0-10	441.08
10-20	842.28
20-30	618.29
30-40	220.50
40-50	52.40
50-60	27.62
60-70	19.37
70-80	14.69
80-90	10.33
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



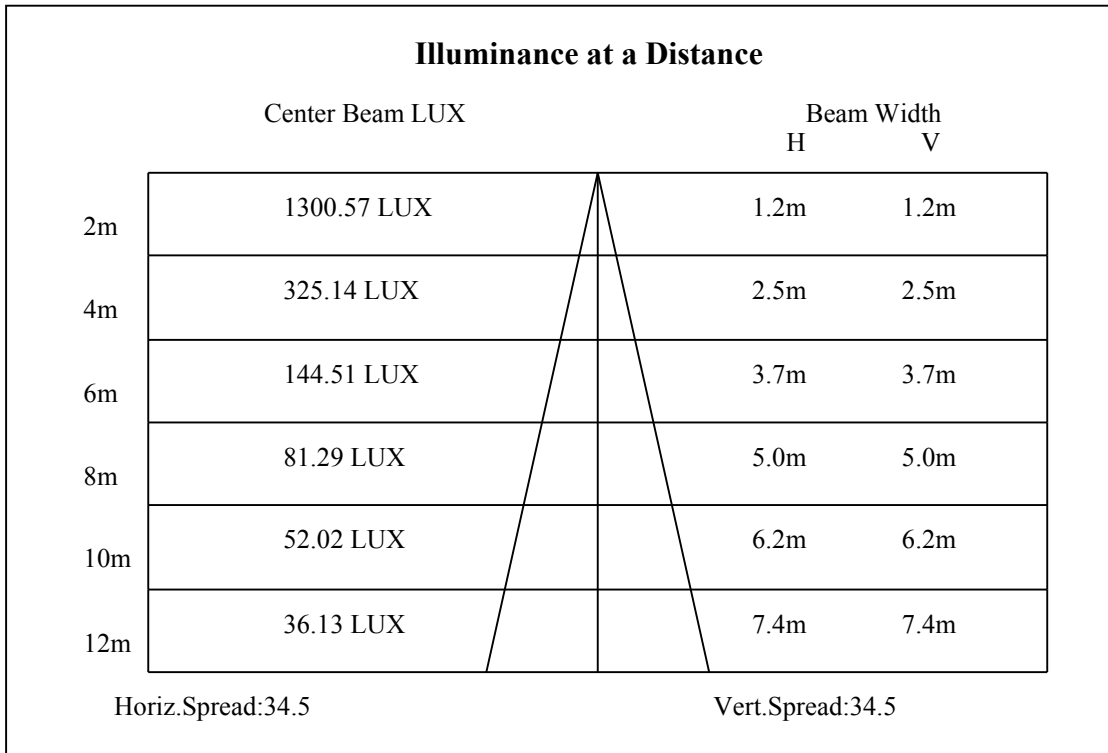
C0(Max): ———

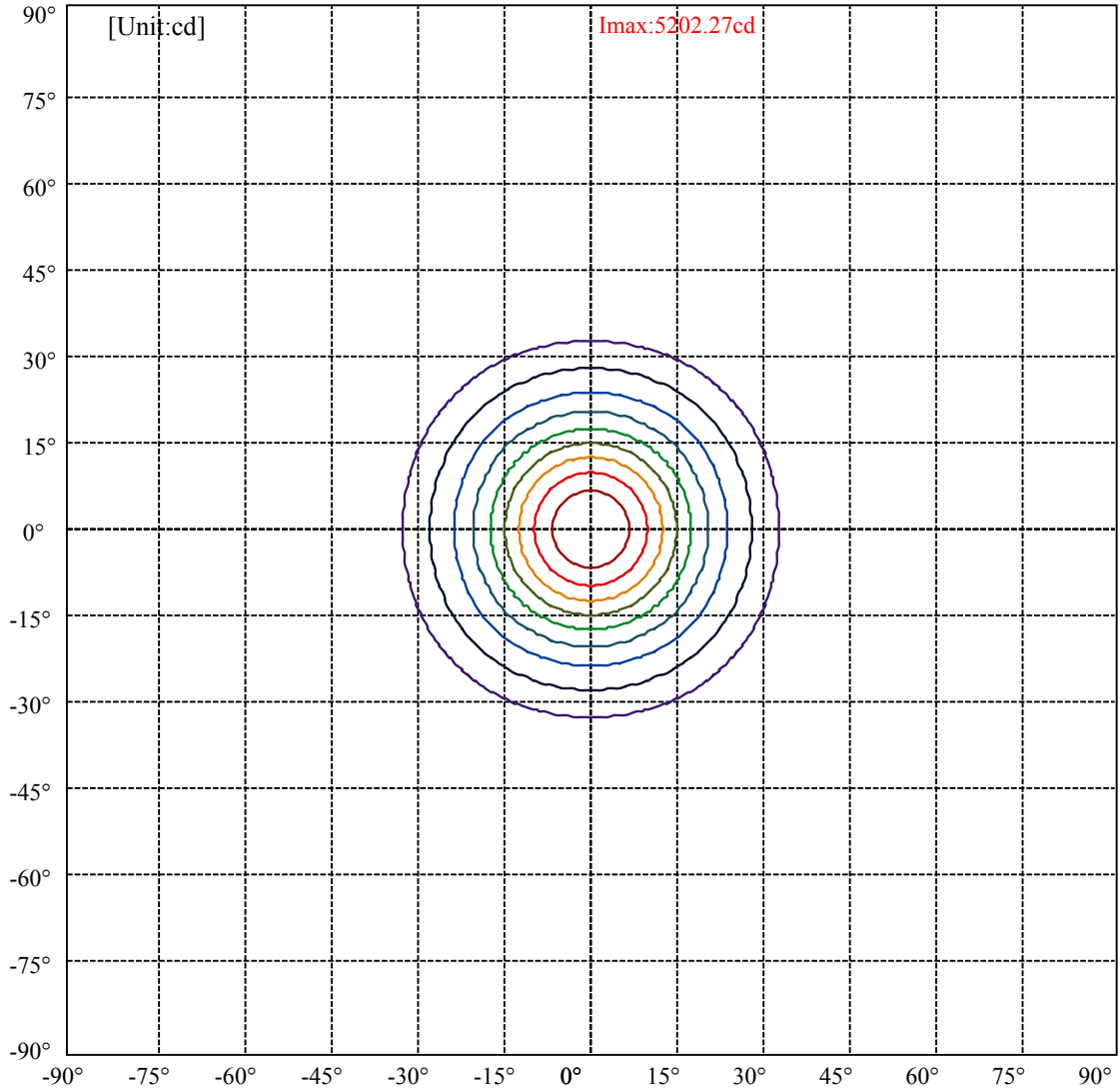
C0/C180: ———

C90/C270: ———

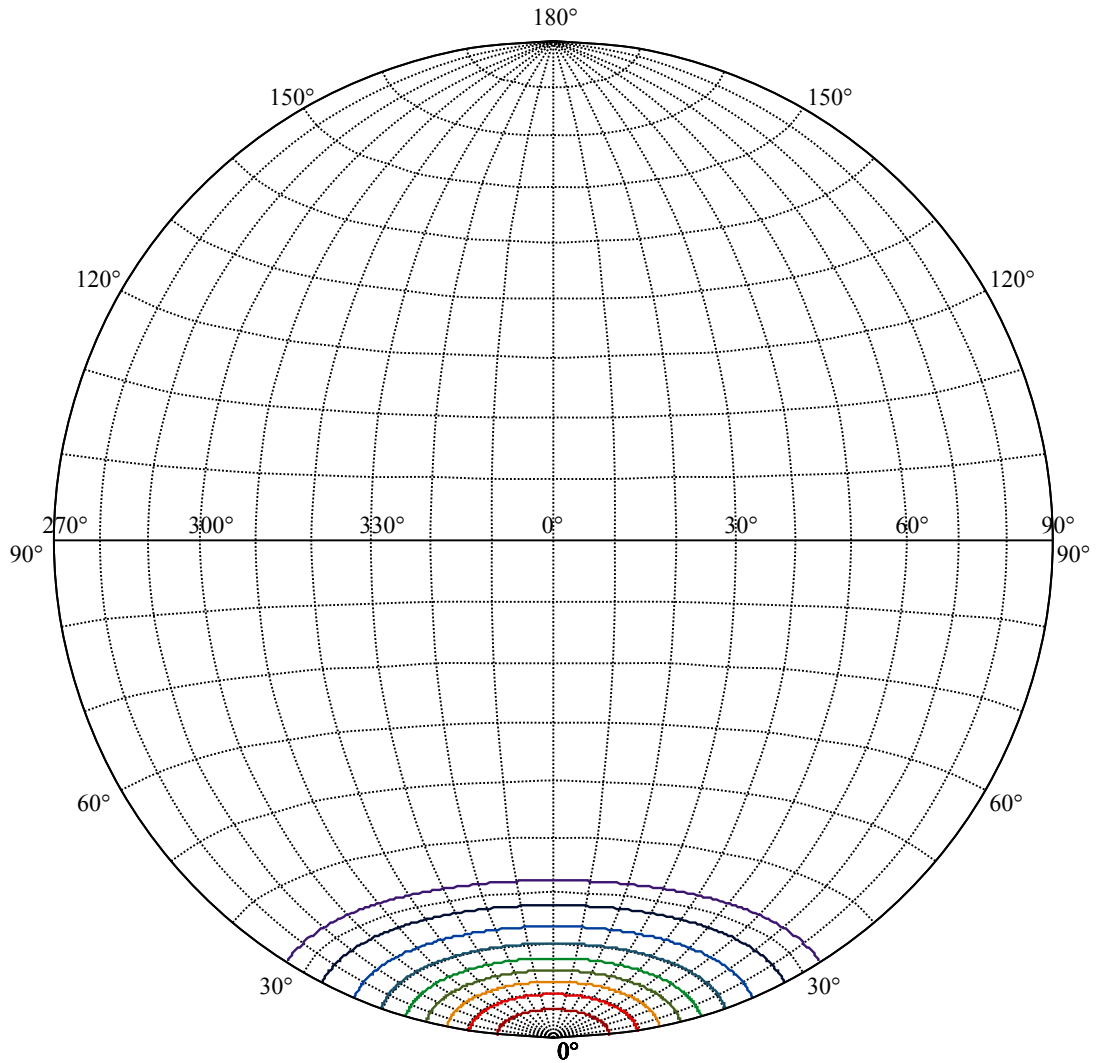
Field angle(10%Imax):C0/180Left:32.2 Right:32.2
:C90/270Left:32.2 Right:32.2

Beam Angle(50%Imax):C0/180Left:17.2 Right:17.2
:C90/270Left:17.2 Right:17.2





(10%Imax) 520.227	—
(20%Imax) 1040.45	—
(30%Imax) 1560.68	—
(40%Imax) 2080.91	—
(50%Imax) 2601.14	—
(60%Imax) 3121.36	—
(70%Imax) 3641.59	—
(80%Imax) 4161.82	—
(90%Imax) 4682.04	—



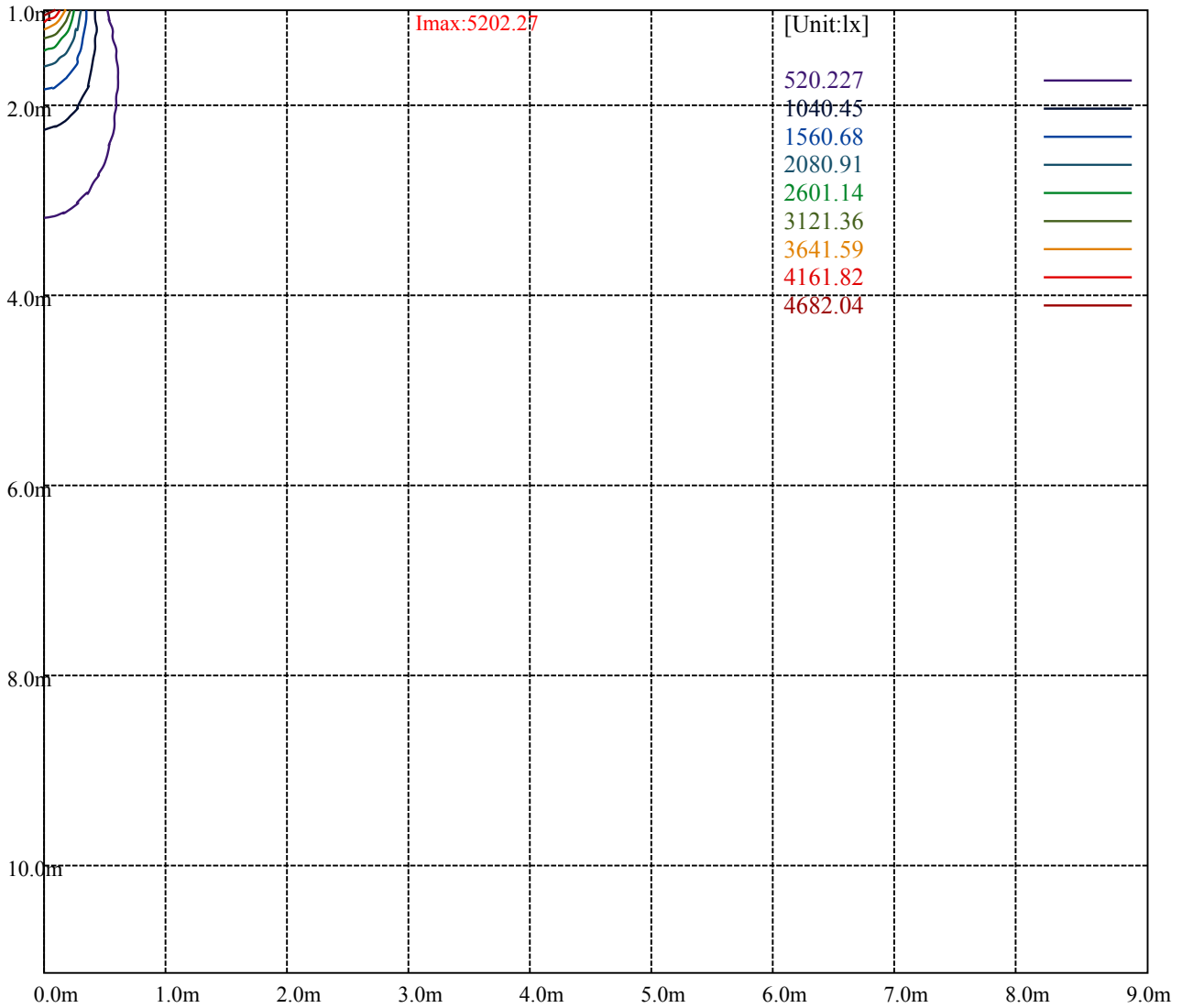
House

[Unit:cd]

Road

Imax:5202.27

(10%Imax) 520.227	—
(20%Imax) 1040.45	—
(30%Imax) 1560.68	—
(40%Imax) 2080.91	—
(50%Imax) 2601.14	—
(60%Imax) 3121.36	—
(70%Imax) 3641.59	—
(80%Imax) 4161.82	—
(90%Imax) 4682.04	—



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

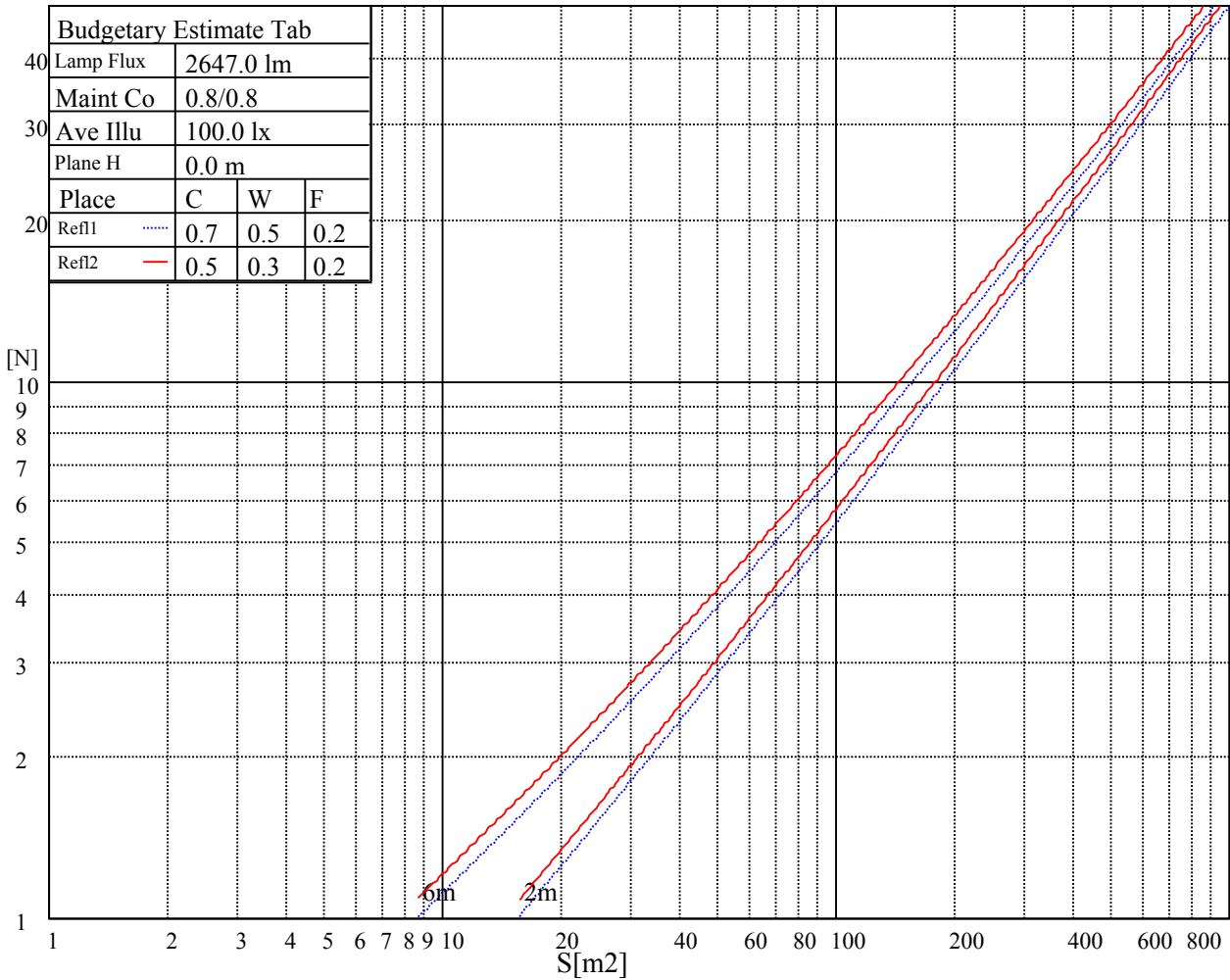
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

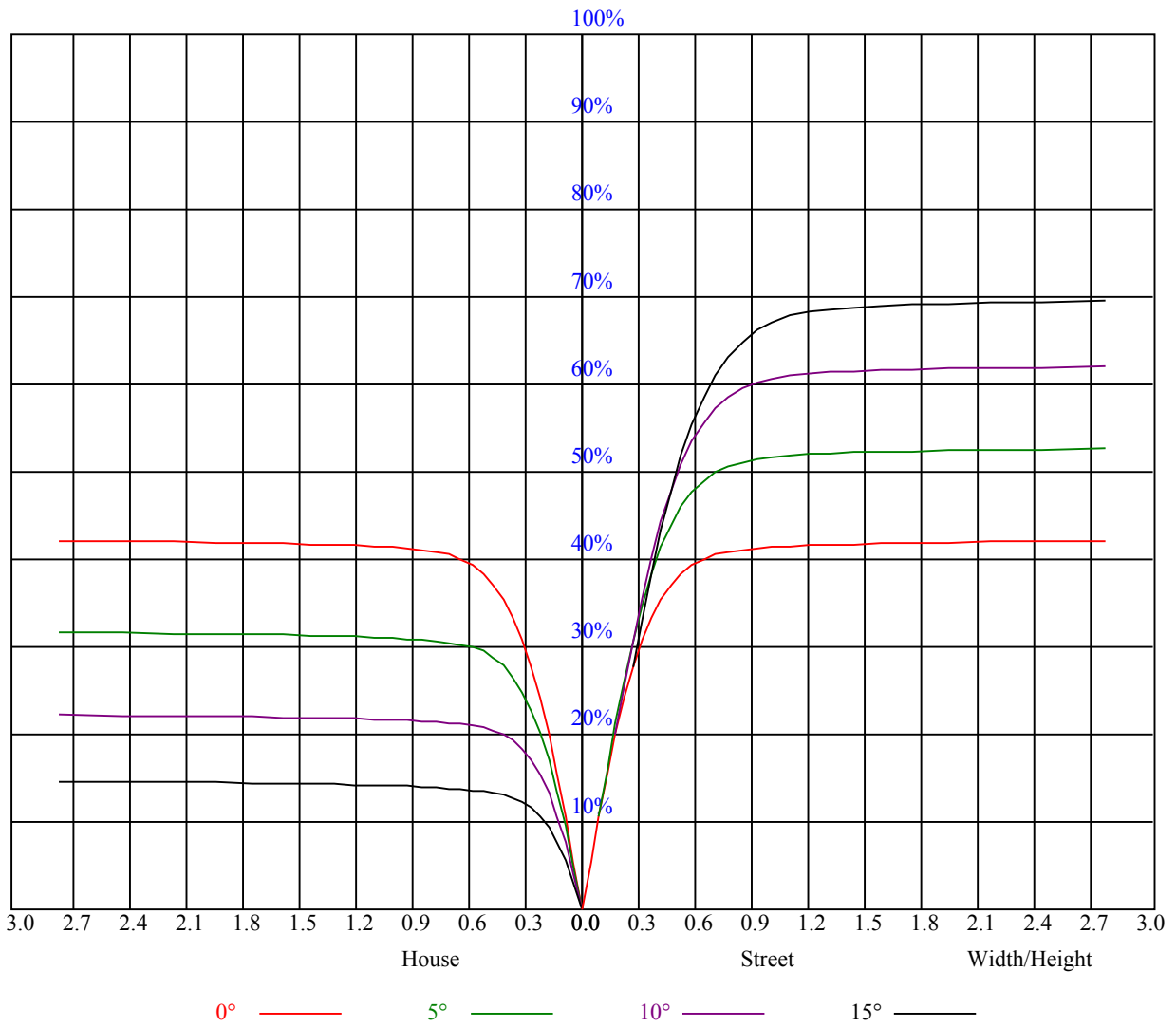


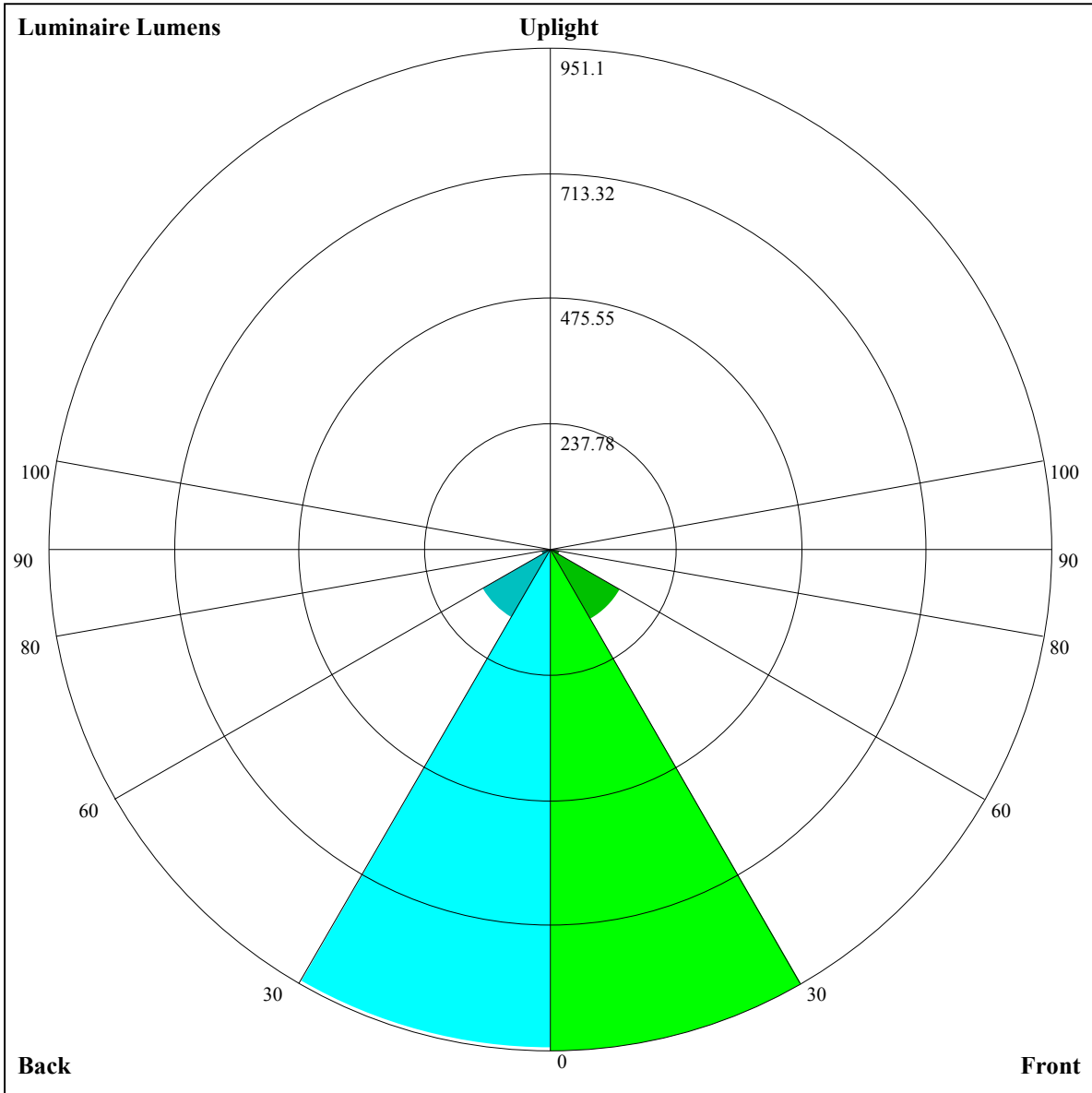
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.94	0.92	0.91	0.93	0.91	0.89	0.89	0.88	0.86	0.86	0.85	0.84	0.83	0.82	0.81	0.80
2	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.77	0.76
3	0.84	0.80	0.77	0.83	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.76	0.74	0.73	0.71
4	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.73	0.71	0.69	0.68
5	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.70	0.68	0.66	0.64
6	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.65	0.63	0.67	0.65	0.62	0.61
7	0.68	0.64	0.61	0.68	0.63	0.61	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.59
8	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
9	0.62	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	0.55	0.54
10	0.60	0.56	0.53	0.60	0.55	0.53	0.59	0.55	0.53	0.58	0.55	0.52	0.58	0.55	0.52	0.51





Luminaire Lumens:

FL=951.1,FM=154.43,FH=17.12,FVH=5.71

BL=945.12,BM=148.36,BH=16.97,BVH=5.69

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	5198.03	5150.04	5100.29	5026.56	4950.48	4835.77	4724.58	4605.78	4446.60
45.0	5224.36	5193.93	5164.08	5097.37	5034.16	4944.04	4853.33	4739.80	4592.90
90.0	5194.52	5150.62	5100.88	5024.80	4926.48	4835.19	4721.07	4572.42	4436.65
135.0	5192.17	5202.71	5181.06	5115.51	5034.75	4944.62	4810.02	4690.05	4551.94
180.0	5198.03	5212.66	5205.63	5150.04	5021.87	4920.63	4807.68	4636.80	4486.98
225.0	5224.36	5223.19	5151.21	5046.45	4932.33	4811.78	4635.04	4469.42	4295.02
270.0	5194.52	5216.75	5199.20	5142.43	5026.56	4937.60	4817.05	4683.03	4499.85
315.0	5192.17	5157.65	5075.13	4995.54	4917.70	4807.68	4650.26	4514.48	4361.16
360.0	5198.03	5150.04	5100.29	5026.56	4950.48	4835.77	4724.58	4605.78	4446.60
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4299.12	4137.60	3902.34	3698.68	3496.78	3236.35	3028.01	2832.55	2593.19
45.0	4482.88	4336.58	4167.45	3940.96	3743.74	3538.33	3328.82	3066.05	2867.66
90.0	4292.10	4077.91	3889.46	3693.41	3430.65	3228.74	3025.67	2830.79	2589.68
135.0	4382.22	4223.63	4069.71	3842.65	3648.35	3447.62	3236.35	2975.93	2777.54
180.0	4280.98	4106.00	3936.28	3753.69	3516.68	3317.11	3102.34	2891.66	2653.47
225.0	4114.19	3892.98	3716.82	3531.89	3288.44	3078.93	2819.09	2623.04	2439.28
270.0	4342.43	4165.10	3952.08	3768.91	3527.21	3322.38	3105.85	2897.51	2662.83
315.0	4163.93	3988.95	3797.58	3557.64	3349.30	3091.22	2895.17	2701.46	2516.53
360.0	4299.12	4137.60	3902.34	3698.68	3496.78	3236.35	3028.01	2832.55	2593.19
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2422.30	2257.27	2103.94	1917.26	1777.97	1642.20	1482.43	1149.79	1149.79
45.0	2682.14	2457.42	2293.56	2137.30	1952.95	1818.35	1650.98	1526.33	1401.67
90.0	2414.11	2244.98	2091.07	1907.31	1771.53	1608.84	1488.87	1167.11	1167.11
135.0	2589.68	2415.87	2213.96	2057.71	1911.99	1735.84	1604.16	1447.91	1323.84
180.0	2459.17	2284.78	2122.67	1936.57	1794.36	1658.00	1489.46	1358.37	1206.79
225.0	2270.15	2074.10	1927.79	1781.48	1638.69	1474.83	1166.12	1166.12	1107.54
270.0	2473.22	2298.82	2140.23	1955.30	1810.74	1670.88	1534.52	1372.41	1246.59
315.0	2302.92	2140.23	1985.14	1841.18	1670.88	1545.05	1423.33	1151.61	1151.61
360.0	2422.30	2257.27	2103.94	1917.26	1777.97	1642.20	1482.43	1149.79	1149.79
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1091.33	978.61	873.45	742.30	637.49	541.10	453.78	365.41	309.35
45.0	1277.60	1157.63	1014.25	903.65	797.13	662.53	563.63	474.68	399.77
90.0	1110.64	999.56	894.05	760.09	652.12	552.04	464.96	375.83	316.78
135.0	1202.70	1085.65	945.78	841.03	733.93	630.35	511.55	430.20	364.65
180.0	1090.33	984.99	853.32	744.46	639.71	541.98	434.30	364.65	310.23
225.0	963.98	852.97	715.73	610.74	515.47	414.16	349.79	296.83	241.41
270.0	1102.04	989.09	875.56	734.52	628.00	530.86	447.17	360.56	306.72
315.0	1036.43	897.27	788.36	681.90	556.14	467.19	392.98	331.82	269.85
360.0	1091.33	978.61	873.45	742.30	637.49	541.10	453.78	365.41	309.35
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	262.94	223.85	182.41	155.32	132.96	109.96	94.98	82.87	70.87
45.0	326.61	301.45	301.45	187.92	159.77	131.03	112.48	97.32	84.92
90.0	266.45	224.38	179.90	151.16	123.07	105.05	90.12	75.44	66.36
135.0	297.35	297.35	243.45	169.60	142.91	121.38	99.72	85.85	74.73
180.0	297.94	244.33	180.89	153.74	125.24	106.80	91.70	76.61	67.18
225.0	205.00	174.40	148.65	121.32	103.58	88.95	77.07	65.43	58.52
270.0	306.72	250.30	177.03	149.82	127.34	104.05	89.07	76.96	65.25
315.0	229.70	194.82	165.21	134.72	115.06	98.84	82.58	72.68	64.67
360.0	262.94	223.85	182.41	155.32	132.96	109.96	94.98	82.87	70.87

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	63.38	57.53	51.62	47.70	44.24	41.32	38.92	36.46	34.53
45.0	74.79	64.78	58.52	52.26	48.22	44.65	40.85	38.57	36.52
90.0	59.22	52.55	48.52	45.18	42.25	39.15	37.10	35.29	33.59
135.0	63.97	57.64	52.49	48.46	44.24	41.38	39.03	36.99	34.76
180.0	59.69	53.02	48.87	45.53	42.78	39.68	37.51	35.64	33.83
225.0	51.97	47.93	44.77	41.55	39.27	37.22	35.35	33.18	31.54
270.0	58.41	51.91	47.99	44.89	42.19	39.27	37.22	35.35	33.65
315.0	57.12	52.32	48.34	44.36	41.61	39.21	37.10	34.76	33.01
360.0	63.38	57.53	51.62	47.70	44.24	41.32	38.92	36.46	34.53
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	32.36	30.78	29.32	27.56	26.39	25.22	23.88	22.88	22.00
45.0	34.24	32.48	30.90	29.44	27.68	26.45	25.28	24.17	22.82
90.0	31.60	30.14	28.44	27.10	25.93	24.58	23.53	22.59	21.77
135.0	32.95	31.43	29.61	28.32	26.69	25.63	24.52	23.47	22.53
180.0	31.72	30.26	28.79	27.15	25.98	24.70	23.64	22.71	21.83
225.0	30.08	28.68	26.98	25.87	24.81	23.47	22.53	21.77	20.72
270.0	31.66	30.20	28.85	27.56	26.04	24.99	23.76	22.88	22.00
315.0	31.37	29.96	28.15	26.92	25.52	24.46	23.41	22.24	21.36
360.0	32.36	30.78	29.32	27.56	26.39	25.22	23.88	22.88	22.00
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.95	20.13	19.43	18.79	18.14	17.38	16.80	16.33	15.63
45.0	22.00	21.13	20.13	19.49	18.67	17.97	17.32	16.80	16.15
90.0	20.78	19.96	19.31	18.67	17.91	17.26	16.74	16.09	15.57
135.0	21.48	20.66	19.78	19.02	18.43	17.62	17.09	16.56	15.92
180.0	20.78	19.96	19.25	18.61	17.85	17.21	16.68	16.09	15.63
225.0	19.90	19.20	18.38	17.79	17.15	16.62	16.04	15.57	15.04
270.0	20.95	20.07	19.37	18.79	17.91	17.32	16.80	16.33	15.63
315.0	20.48	19.55	18.90	18.26	17.62	16.85	16.39	15.86	15.39
360.0	20.95	20.13	19.43	18.79	18.14	17.38	16.80	16.33	15.63
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.16	14.75	14.22	13.81	13.46	13.05	12.76	12.41	11.94
45.0	15.63	15.10	14.69	14.16	13.81	13.40	13.05	12.70	12.29
90.0	15.10	14.63	14.22	13.81	13.34	13.05	12.76	12.41	11.94
135.0	15.45	14.86	14.51	14.05	13.69	13.34	12.99	12.70	12.23
180.0	15.10	14.57	14.16	13.69	13.34	12.99	12.70	12.23	11.82
225.0	14.63	14.10	13.81	13.40	12.99	12.70	12.35	11.82	11.59
270.0	15.16	14.69	14.22	13.87	13.46	13.11	12.76	12.41	11.94
315.0	14.81	14.40	14.05	13.52	13.17	12.82	12.47	12.06	11.70
360.0	15.16	14.75	14.22	13.81	13.46	13.05	12.76	12.41	11.94
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.70	11.35	11.06	10.48	10.30	10.07	9.83	9.66	9.42
45.0	11.88	11.65	11.29	10.89	10.48	10.24	10.01	9.77	9.60
90.0	11.65	11.29	10.89	10.53	10.36	10.12	9.83	9.60	9.42
135.0	11.88	11.53	11.18	10.65	10.42	10.18	9.95	9.66	9.54
180.0	11.59	11.29	10.83	10.48	10.24	10.01	9.77	9.66	9.36
225.0	11.29	10.89	10.42	10.24	10.01	9.83	9.66	9.42	9.42
270.0	11.59	11.29	10.94	10.48	10.30	10.07	9.83	9.71	9.42
315.0	11.47	11.00	10.65	10.30	10.12	9.83	9.71	9.60	9.42
360.0	11.70	11.35	11.06	10.48	10.30	10.07	9.83	9.66	9.42

Intensity data(cd)

C/γ(°)	90.0
0.0	9.36
45.0	9.42
90.0	9.42
135.0	9.36
180.0	9.48
225.0	9.48
270.0	9.54
315.0	9.48
360.0	9.36