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NT

Client:

LumCAT: 2-2682-L

Luminaire: 92.70.411.00

Report No: 2024416-B010

Ballast type: AC

Test No: 2024416-C010

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): 2275.91, Efficiency(%): 85.98% , Luminous Efficacy(lm/W): 116.80

Central intensity(cd): 10071.640, Maximum intensity(cd): 10071.640

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=53.0

[C90/270]Total=53.0

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

Maximum s/h(1/4): C0\_180=0.37 C90\_270=0.37

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.98%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.036%

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	10071.634	0.000	0	0.00%	0.00%
1.0	9973.975	9.591	9.591	0.36%	0.42%
2.0	9692.043	28.227	37.818	1.07%	1.66%
3.0	9243.248	45.287	83.105	1.71%	3.65%
4.0	8708.207	60.089	143.194	2.27%	6.29%
5.0	8023.054	71.977	215.171	2.72%	9.45%
6.0	7258.531	80.309	295.48	3.03%	12.98%
7.0	6499.860	85.398	380.878	3.23%	16.74%
8.0	5747.553	87.652	468.531	3.31%	20.59%
9.0	5109.439	87.990	556.521	3.32%	24.45%
10.0	4546.891	87.386	643.907	3.30%	28.29%
11.0	4098.536	86.386	730.292	3.26%	32.09%
12.0	3666.347	84.881	815.174	3.21%	35.82%
13.0	3329.330	83.021	898.195	3.14%	39.47%
14.0	3015.942	81.219	979.414	3.07%	43.03%
15.0	2747.544	79.124	1058.537	2.99%	46.51%
16.0	2495.604	76.827	1135.364	2.90%	49.89%
17.0	2282.875	74.414	1209.778	2.81%	53.16%
18.0	2076.729	71.880	1281.658	2.72%	56.31%
19.0	1897.943	69.151	1350.81	2.61%	59.35%
20.0	1730.935	66.419	1417.228	2.51%	62.27%
21.0	1585.360	63.680	1480.908	2.41%	65.07%
22.0	1414.167	60.277	1541.184	2.28%	67.72%
23.0	1275.703	56.441	1597.625	2.13%	70.20%
24.0	1208.870	54.322	1651.947	2.05%	72.58%
25.0	1123.120	53.024	1704.971	2.00%	74.91%
26.0	1043.734	51.149	1756.12	1.93%	77.16%
27.0	974.114	49.367	1805.487	1.87%	79.33%
28.0	907.260	47.632	1853.12	1.80%	81.42%
29.0	830.368	45.461	1898.581	1.72%	83.42%
30.0	748.744	42.636	1941.217	1.61%	85.29%
31.0	654.728	39.057	1980.273	1.48%	87.01%
32.0	571.787	35.138	2015.411	1.33%	88.55%
33.0	483.849	31.099	2046.511	1.17%	89.92%
34.0	399.270	26.726	2073.237	1.01%	91.09%
35.0	319.072	22.309	2095.546	0.84%	92.08%
36.0	264.251	18.573	2114.119	0.70%	92.89%
37.0	222.488	15.875	2129.993	0.60%	93.59%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	141.251	12.141	2142.135	0.46%	94.12%
39.0	90.739	7.918	2150.053	0.30%	94.47%
40.0	73.131	5.715	2155.768	0.22%	94.72%
41.0	65.194	4.926	2160.694	0.19%	94.94%
42.0	60.907	4.581	2165.275	0.17%	95.14%
43.0	57.301	4.379	2169.654	0.17%	95.33%
44.0	53.636	4.187	2173.841	0.16%	95.52%
45.0	50.856	4.016	2177.857	0.15%	95.69%
46.0	48.661	3.892	2181.749	0.15%	95.86%
47.0	46.803	3.797	2185.546	0.14%	96.03%
48.0	44.916	3.708	2189.254	0.14%	96.19%
49.0	43.533	3.632	2192.886	0.14%	96.35%
50.0	42.217	3.575	2196.461	0.14%	96.51%
51.0	41.273	3.532	2199.993	0.13%	96.66%
52.0	40.819	3.523	2203.516	0.13%	96.82%
53.0	40.212	3.525	2207.041	0.13%	96.97%
54.0	39.722	3.523	2210.564	0.13%	97.13%
55.0	39.605	3.541	2214.105	0.13%	97.28%
56.0	39.188	3.560	2217.666	0.13%	97.44%
57.0	38.413	3.548	2221.214	0.13%	97.60%
58.0	37.074	3.491	2224.704	0.13%	97.75%
59.0	34.726	3.357	2228.061	0.13%	97.90%
60.0	31.851	3.145	2231.206	0.12%	98.04%
61.0	29.122	2.910	2234.116	0.11%	98.16%
62.0	26.518	2.681	2236.797	0.10%	98.28%
63.0	23.504	2.433	2239.23	0.09%	98.39%
64.0	20.527	2.161	2241.391	0.08%	98.48%
65.0	18.237	1.918	2243.309	0.07%	98.57%
66.0	16.591	1.738	2245.047	0.07%	98.64%
67.0	15.582	1.618	2246.664	0.06%	98.72%
68.0	14.967	1.547	2248.212	0.06%	98.78%
69.0	14.514	1.504	2249.716	0.06%	98.85%
70.0	14.133	1.471	2251.187	0.06%	98.91%
71.0	13.760	1.442	2252.629	0.05%	98.98%
72.0	13.446	1.415	2254.043	0.05%	99.04%
73.0	13.182	1.392	2255.436	0.05%	99.10%
74.0	12.955	1.374	2256.81	0.05%	99.16%
75.0	12.721	1.357	2258.167	0.05%	99.22%

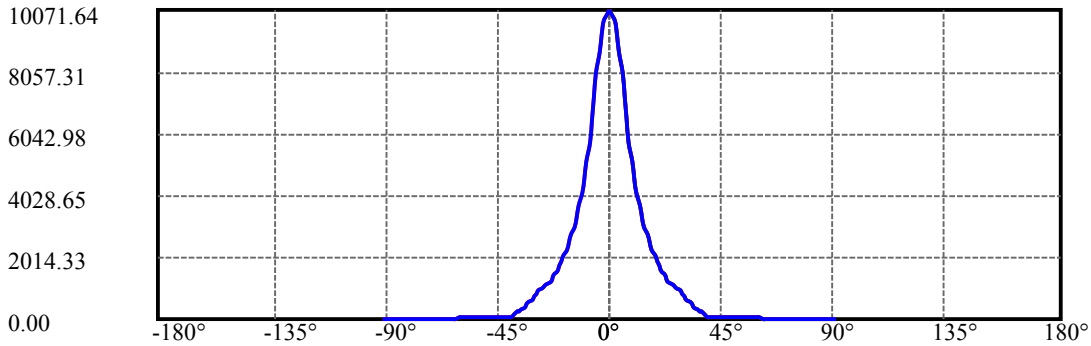
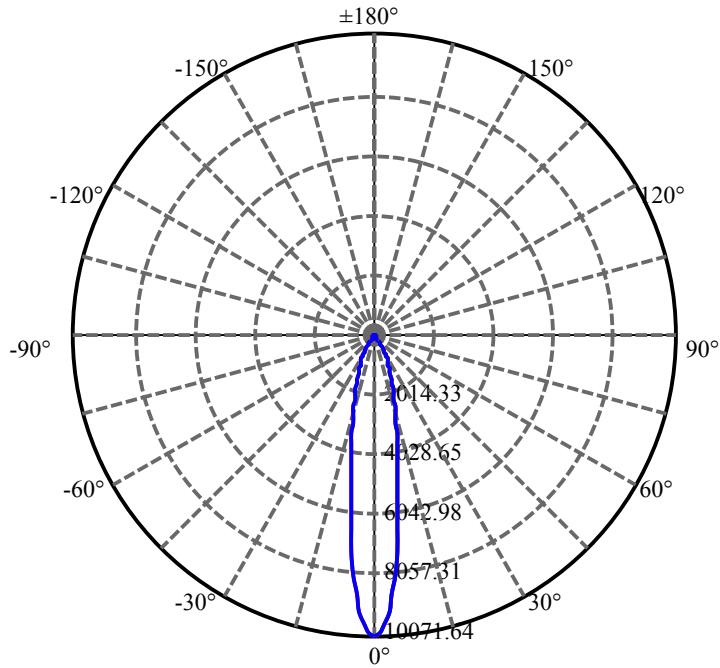
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.509	1.339	2259.506	0.05%	99.28%
77.0	12.297	1.323	2260.829	0.05%	99.34%
78.0	12.078	1.305	2262.133	0.05%	99.39%
79.0	11.822	1.284	2263.417	0.05%	99.45%
80.0	11.529	1.259	2264.676	0.05%	99.51%
81.0	11.222	1.230	2265.907	0.05%	99.56%
82.0	10.958	1.203	2267.109	0.05%	99.61%
83.0	10.666	1.176	2268.285	0.04%	99.67%
84.0	10.439	1.150	2269.435	0.04%	99.72%
85.0	10.212	1.127	2270.562	0.04%	99.77%
86.0	10.000	1.105	2271.667	0.04%	99.81%
87.0	9.832	1.085	2272.752	0.04%	99.86%
88.0	9.642	1.067	2273.819	0.04%	99.91%
89.0	9.510	1.050	2274.868	0.04%	99.95%
90.0	9.459	1.040	2275.908	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1941.22	73.34%	85.29%
0-40	2155.77	81.44%	94.72%
0-60	2231.21	84.29%	98.04%
0-90	2274.87	85.94%	99.95%
0-120	2274.87	85.94%	99.95%
0-180	2275.91	85.98%	100.00%
60-90	43.66	1.65%	1.92%
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%
0-27.32	1820.73	68.78%	80.00%

ZONAL LUMEN SUMMARY

0-10	643.91
10-20	773.32
20-30	523.99
30-40	214.55
40-50	40.69
50-60	34.75
60-70	19.98
70-80	13.49
80-90	10.19
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: —————

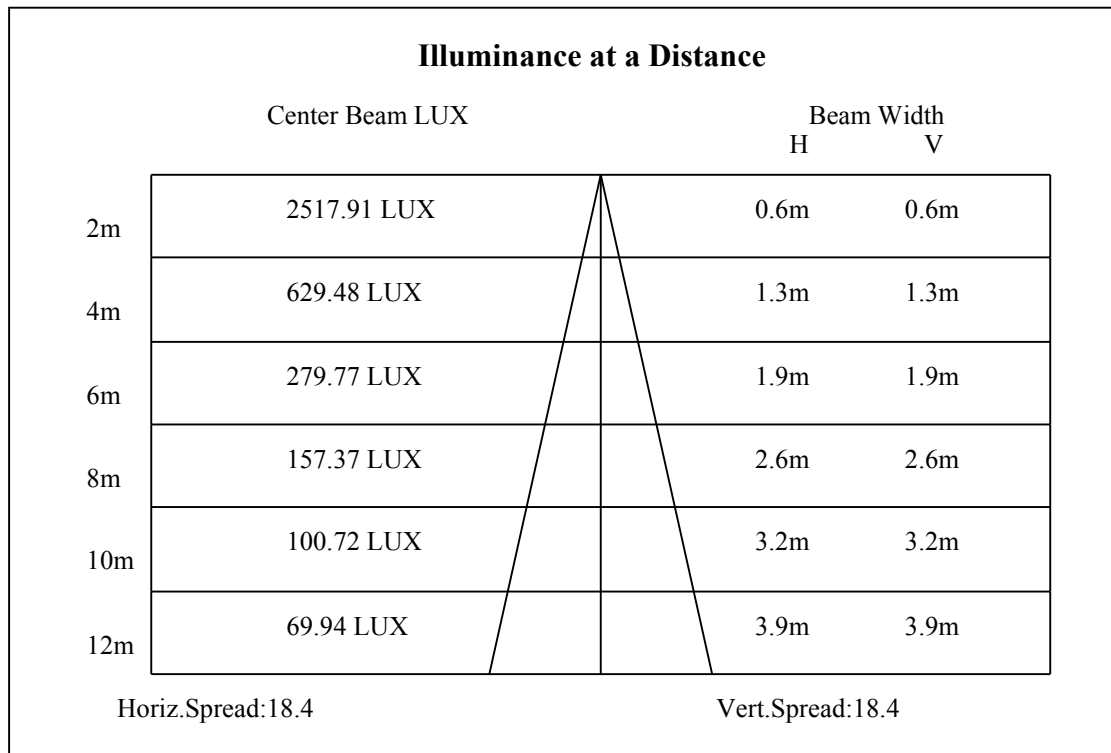
C90/C270: —————

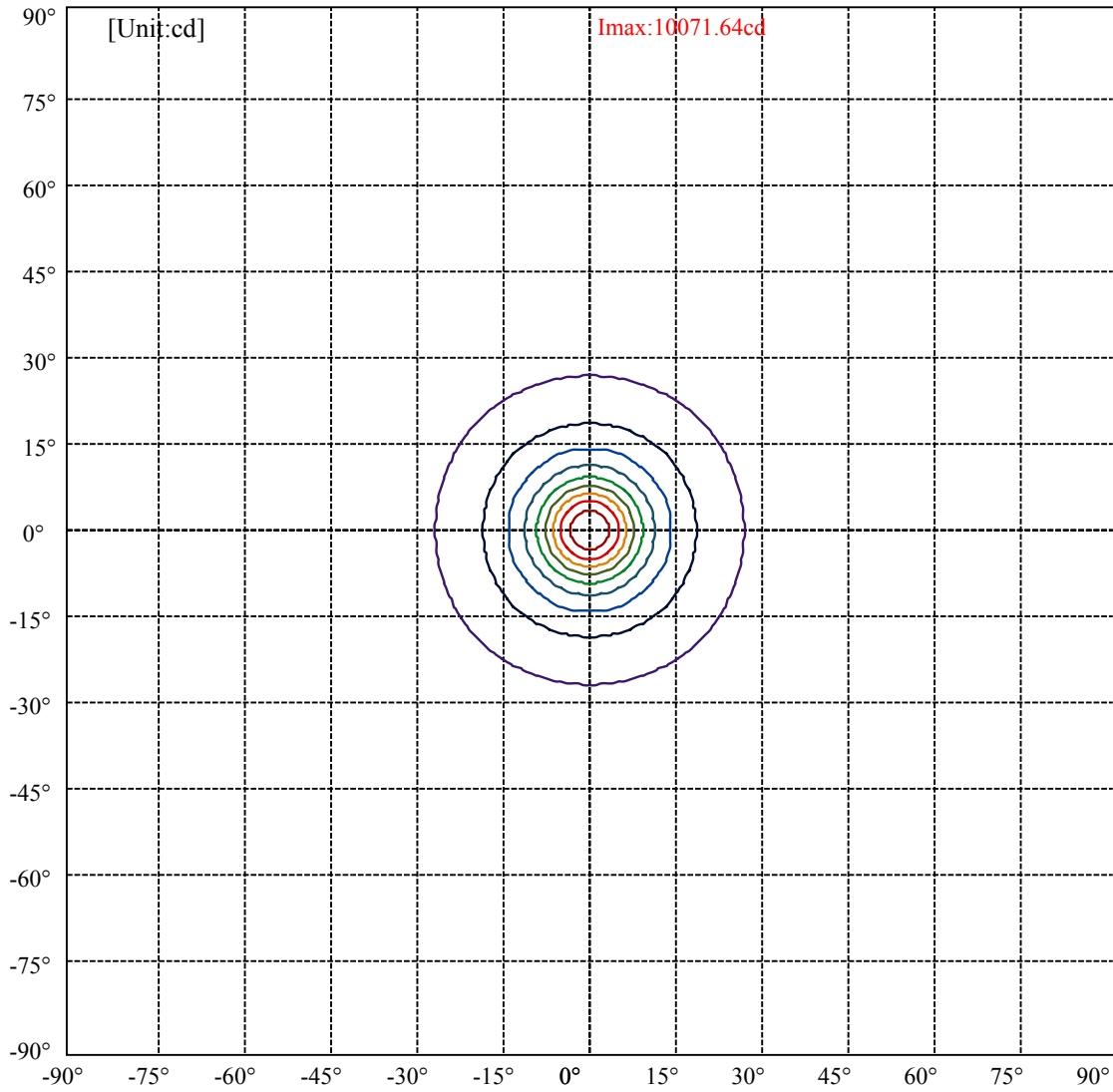
Field angle(10%Imax):C0/180Left:26.5 Right:26.5

:C90/270Left:26.5 Right:26.5

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

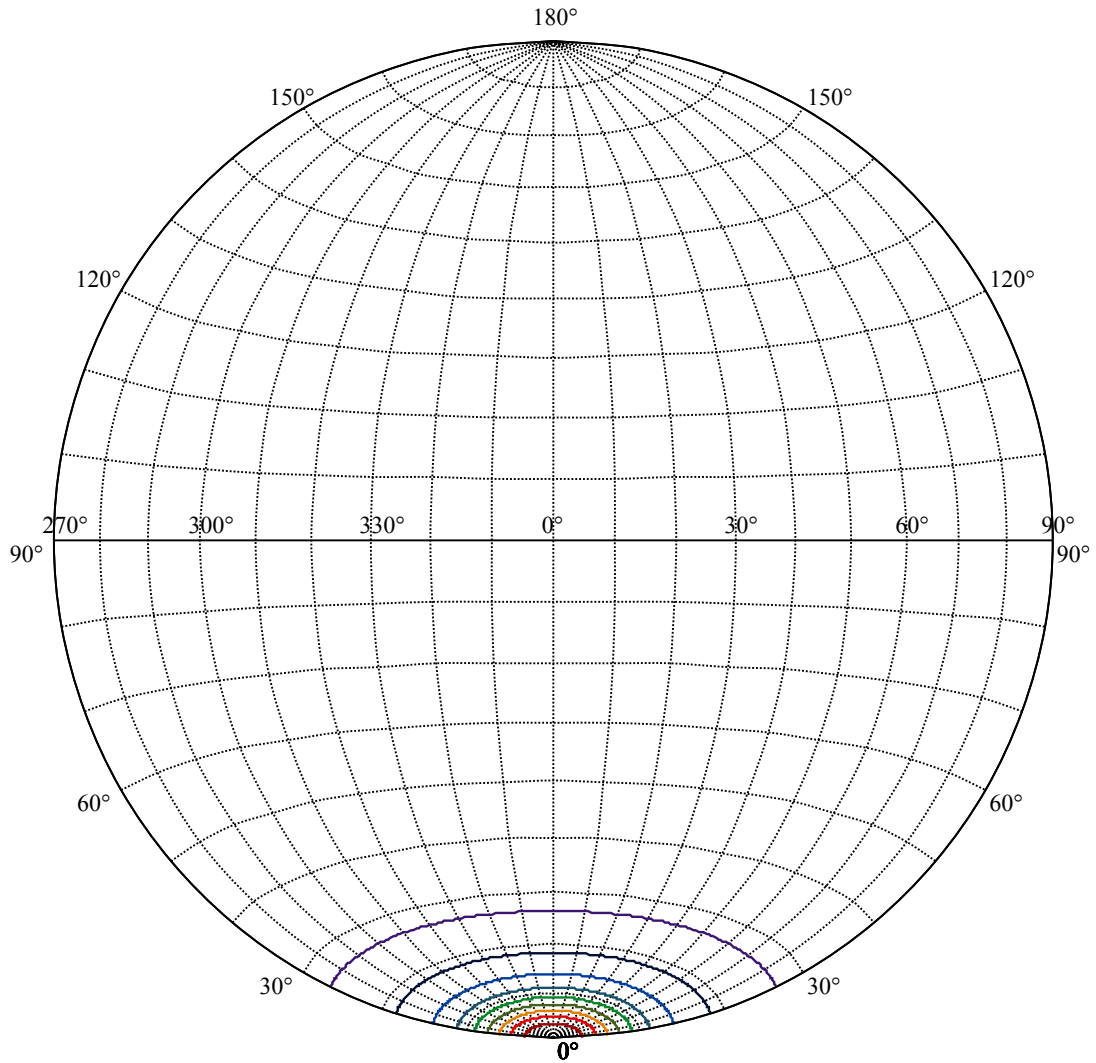
:C90/270Left:9.1 Right:9.1





(10%Imax) 1007.16	—
(20%Imax) 2014.33	—
(30%Imax) 3021.49	—
(40%Imax) 4028.65	—
(50%Imax) 5035.82	—
(60%Imax) 6042.98	—
(70%Imax) 7050.15	—
(80%Imax) 8057.31	—
(90%Imax) 9064.47	—





House

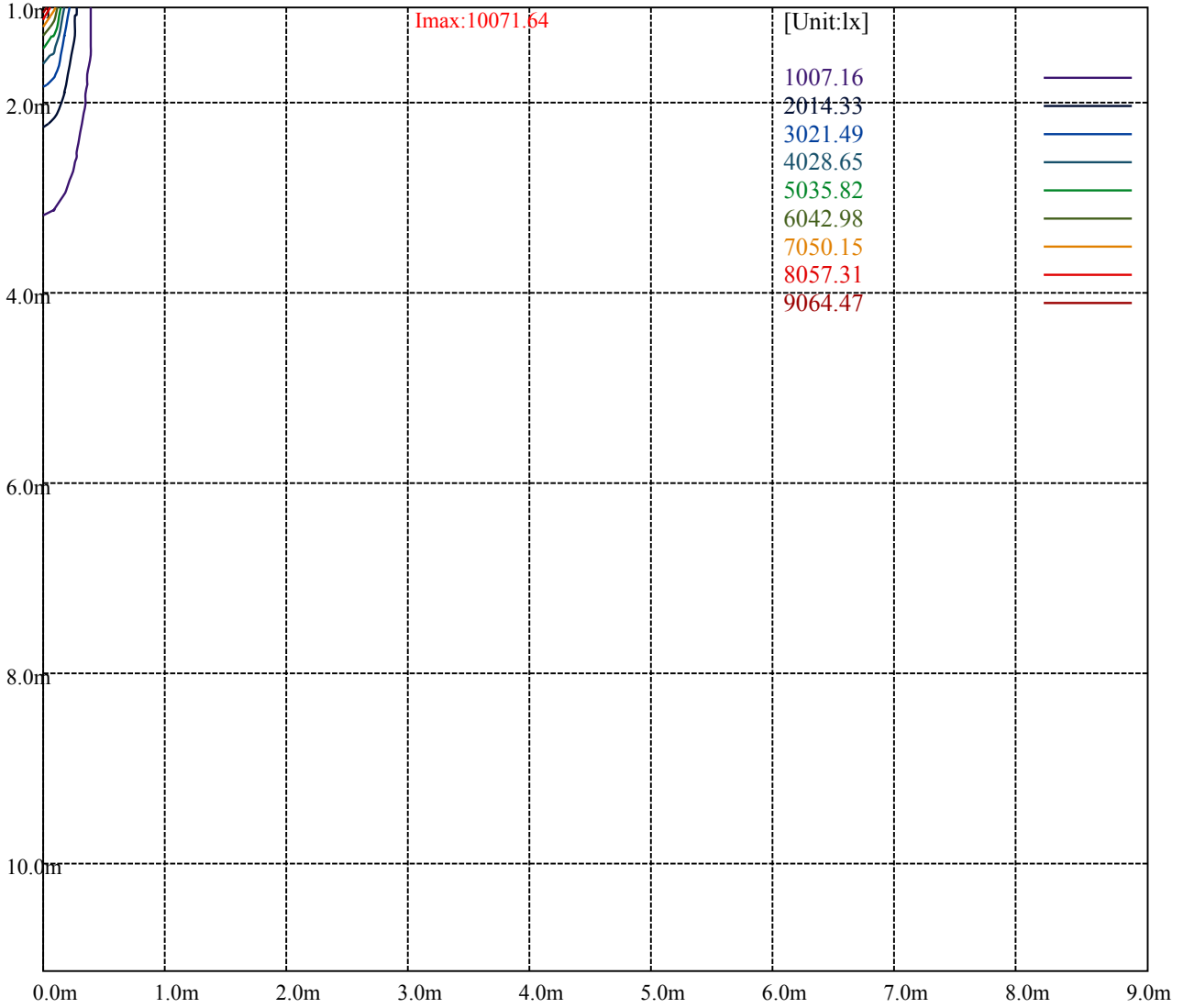
[Unit:cd]

Road

**Imax:10071.64**

(10%Imax)	1007.16	—
(20%Imax)	2014.33	—
(30%Imax)	3021.49	—
(40%Imax)	4028.65	—
(50%Imax)	5035.82	—
(60%Imax)	6042.98	—
(70%Imax)	7050.15	—
(80%Imax)	8057.31	—
(90%Imax)	9064.47	—





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

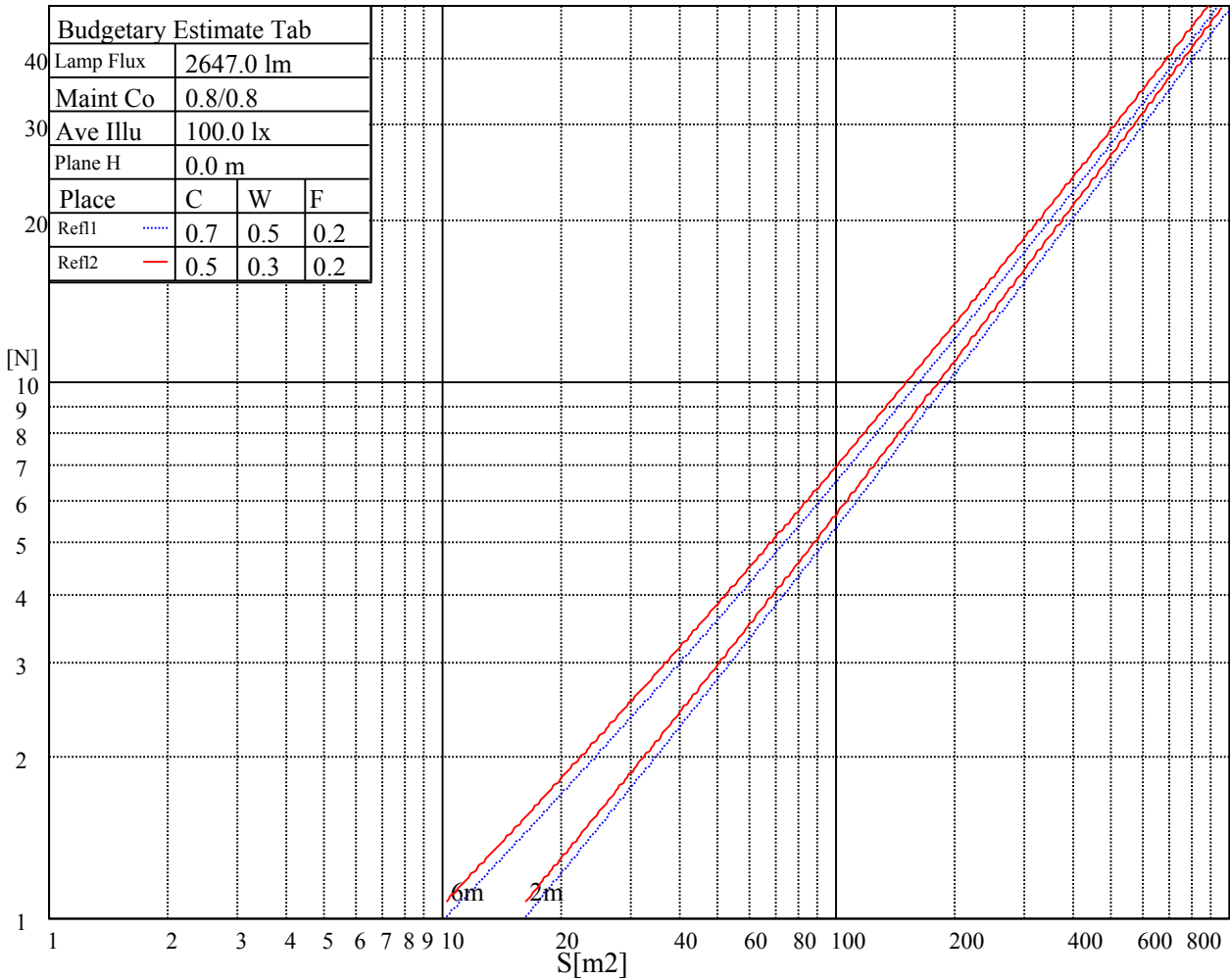
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

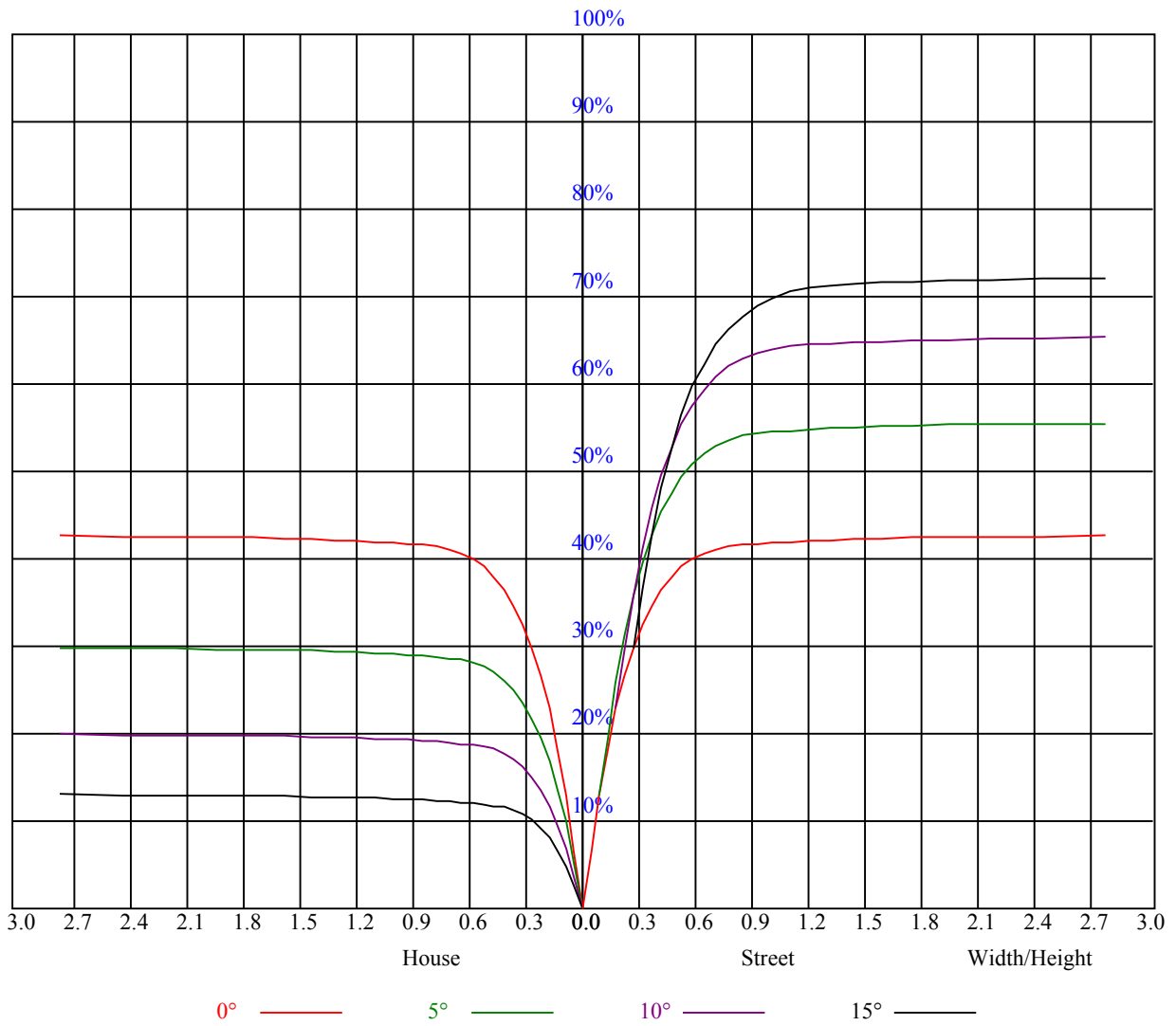


Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X	Y									
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	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
	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	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
	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
8H	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	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	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				

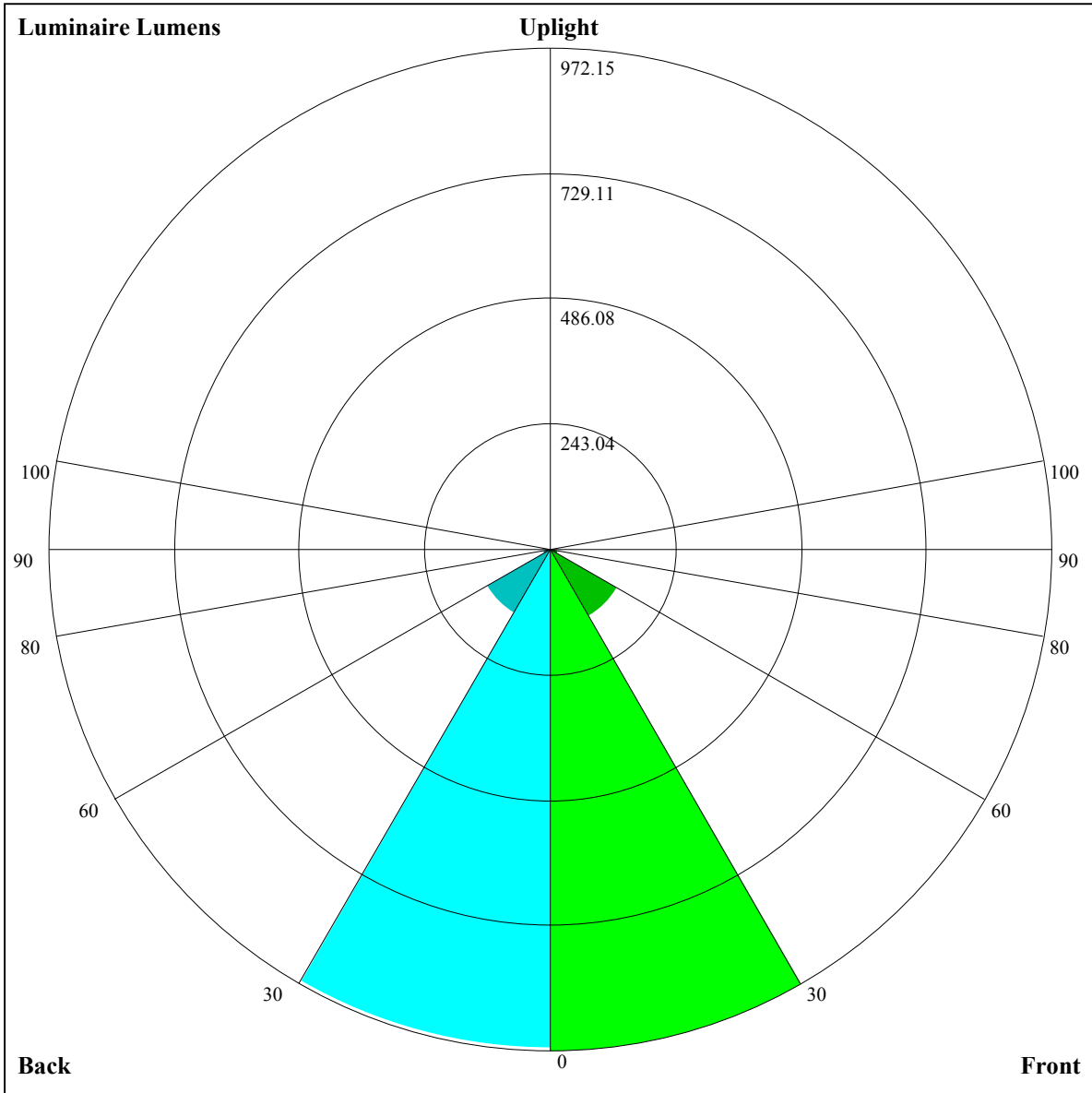
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.00	1.00	1.00	0.96	0.96	0.96	0.91	0.91	0.91	0.88	0.88	0.88	0.86
1	0.96	0.94	0.92	0.94	0.92	0.91	0.91	0.89	0.88	0.87	0.86	0.85	0.85	0.84	0.83	0.81
2	0.90	0.87	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.80	0.81	0.80	0.79	0.77
3	0.86	0.82	0.79	0.85	0.81	0.78	0.82	0.80	0.77	0.80	0.78	0.76	0.78	0.77	0.75	0.74
4	0.81	0.77	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.76	0.73	0.71	0.70
5	0.78	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.73	0.70	0.68	0.67
6	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.65
7	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
8	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.58	0.58
10	0.64	0.60	0.57	0.63	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.56	0.56







Luminaire Lumens:

FL=972.15,FM=149.89,FH=16.82,FVH=5.63

BL=967.32,BM=141.5,BH=16.75,BVH=5.62

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	10081.14	9902.65	9567.90	9014.86	8468.26	7652.46	6974.77	6295.32	5672.64
45.0	10067.10	10075.29	9913.18	9487.73	9007.26	8450.71	7796.43	7093.57	6242.65
90.0	10070.61	9885.09	9411.06	8930.59	8345.95	7655.39	6738.92	6018.51	5387.64
135.0	10067.68	10067.10	9893.87	9563.22	8958.68	8373.46	7672.36	6720.78	5969.94
180.0	10081.14	10039.59	9818.96	9456.71	8982.09	8230.66	7545.95	6755.31	5992.76
225.0	10067.10	9894.46	9474.27	8990.87	8417.35	7567.60	6810.91	6039.58	5201.54
270.0	10070.61	10079.97	9948.88	9567.90	9118.45	8546.10	7724.44	6984.13	6067.09
315.0	10067.68	9847.64	9508.21	8934.10	8367.61	7708.06	6804.47	6091.67	5446.16
360.0	10081.14	9902.65	9567.90	9014.86	8468.26	7652.46	6974.77	6295.32	5672.64
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4971.54	4486.39	4058.59	3681.12	3276.73	2996.41	2747.10	2459.17	2249.66
45.0	5633.43	4928.82	4438.99	3923.41	3568.76	3249.81	2967.73	2652.88	2429.91
90.0	4827.58	4234.16	3833.87	3403.73	3108.77	2850.69	2561.59	2354.42	2163.05
135.0	5318.00	4763.20	4309.66	3821.58	3475.12	3103.51	2844.25	2602.55	2339.79
180.0	5175.20	4635.04	4185.59	3718.58	3384.41	3092.97	2773.44	2542.28	2335.11
225.0	4659.62	4213.68	3746.67	3414.26	3116.38	2789.83	2558.08	2347.40	2153.10
270.0	5407.54	4830.51	4333.06	3833.87	3487.41	3170.81	2895.75	2596.12	2381.34
315.0	4882.59	4283.32	3881.86	3534.23	3217.04	2873.51	2632.40	2410.02	2211.04
360.0	4971.54	4486.39	4058.59	3681.12	3276.73	2996.41	2747.10	2459.17	2249.66
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2062.98	1849.37	1701.31	1568.46	1418.06	1160.09	1160.09	1104.79	1038.83
45.0	2222.74	2039.57	1831.81	1685.51	1551.49	1432.69	1299.84	1203.87	1120.76
90.0	1952.95	1797.87	1657.42	1526.91	1295.75	1166.00	1166.00	1085.65	1003.31
135.0	2146.66	1976.36	1820.69	1645.71	1518.13	1398.16	1262.39	1162.32	1076.87
180.0	2094.58	1924.28	1765.68	1619.96	1464.88	1351.93	1244.83	1140.66	1032.98
225.0	1975.78	1779.14	1633.42	1470.73	1167.47	1167.47	1120.30	1041.64	977.50
270.0	2179.44	1998.60	1797.87	1656.83	1503.50	1381.77	1270.00	1155.88	1075.70
315.0	1978.70	1818.35	1639.27	1508.77	1394.06	1147.51	1147.51	1090.16	1023.91
360.0	2062.98	1849.37	1701.31	1568.46	1418.06	1160.09	1160.09	1104.79	1038.83
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	984.47	927.58	839.86	757.34	674.06	592.19	491.65	411.30	336.33
45.0	1034.74	977.97	900.72	832.25	753.24	653.75	574.16	492.23	410.89
90.0	942.62	861.33	783.50	700.40	596.17	512.83	434.00	358.51	266.16
135.0	1007.23	925.88	856.83	781.33	679.50	599.91	498.08	418.49	341.24
180.0	966.26	901.89	812.35	729.83	627.42	556.02	476.43	374.02	309.06
225.0	898.26	824.76	744.35	661.95	562.28	482.34	404.45	329.89	247.49
270.0	1004.89	948.12	884.33	787.19	707.01	622.15	519.15	436.05	341.24
315.0	954.44	890.54	821.01	739.67	638.13	555.09	472.86	373.67	300.16
360.0	984.47	927.58	839.86	757.34	674.06	592.19	491.65	411.30	336.33
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	252.58	191.72	126.70	91.59	74.32	68.76	63.67	58.58	54.13
45.0	316.67	299.11	299.11	131.97	96.27	74.62	68.88	64.32	59.28
90.0	201.38	144.67	100.31	73.27	65.90	61.74	58.70	54.02	51.27
135.0	305.55	305.55	133.14	94.05	72.68	64.20	60.57	57.94	53.96
180.0	309.06	233.80	119.44	85.74	67.07	61.74	57.00	54.72	51.91
225.0	188.38	137.00	98.26	71.98	64.90	60.40	57.64	54.78	51.85
270.0	304.96	304.96	135.95	96.91	76.49	67.89	62.33	59.11	55.83
315.0	235.44	163.10	117.10	80.41	67.42	62.21	58.46	54.95	50.86
360.0	252.58	191.72	126.70	91.59	74.32	68.76	63.67	58.58	54.13

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	51.85	49.39	47.64	46.41	45.12	43.25	42.78	42.49	41.55
45.0	54.60	51.79	49.51	47.17	45.41	44.13	42.60	41.90	41.02
90.0	48.63	46.88	44.89	43.48	42.31	40.85	40.38	40.03	39.33
135.0	50.50	48.57	46.58	44.77	43.48	42.19	40.85	40.44	40.44
180.0	49.45	47.11	45.59	43.60	42.25	41.20	39.80	39.74	39.27
225.0	49.57	47.75	46.12	44.18	42.96	41.79	41.20	40.61	40.20
270.0	53.55	50.91	48.87	46.58	44.77	43.66	42.55	41.43	40.73
315.0	48.69	46.88	45.24	43.13	41.96	40.67	40.03	39.91	39.15
360.0	51.85	49.39	47.64	46.41	45.12	43.25	42.78	42.49	41.55
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	40.91	40.85	40.09	39.21	37.40	34.47	31.60	29.09	26.98
45.0	40.38	40.03	39.91	39.27	38.10	36.34	33.18	30.49	27.39
90.0	39.03	39.15	38.33	37.34	35.87	32.54	29.67	27.74	24.58
135.0	39.74	39.44	39.56	39.44	38.51	36.81	34.29	30.55	28.21
180.0	38.98	38.86	38.62	38.39	37.28	34.94	32.13	29.32	26.34
225.0	39.85	39.74	39.03	37.75	35.99	33.30	30.26	27.45	24.87
270.0	40.20	40.03	39.85	38.80	37.81	35.76	33.47	30.55	28.21
315.0	38.68	38.74	38.10	37.10	35.64	33.65	30.20	27.80	25.57
360.0	40.91	40.85	40.09	39.21	37.40	34.47	31.60	29.09	26.98
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	23.17	20.54	18.43	16.91	15.86	15.33	14.75	14.40	13.99
45.0	24.87	22.06	19.37	17.38	16.27	15.57	15.10	14.57	14.16
90.0	21.24	18.61	16.85	15.74	15.16	14.57	14.22	13.87	13.58
135.0	25.63	21.77	19.20	17.03	15.86	15.27	14.75	14.34	13.93
180.0	23.64	20.72	17.91	16.39	15.22	14.69	14.28	13.93	13.52
225.0	21.54	19.20	17.03	15.80	15.16	14.57	14.22	13.93	13.52
270.0	25.34	22.00	19.66	17.44	16.04	15.16	14.69	14.28	13.93
315.0	22.59	19.31	17.44	16.04	15.10	14.57	14.10	13.75	13.46
360.0	23.17	20.54	18.43	16.91	15.86	15.33	14.75	14.40	13.99
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.64	13.34	13.11	12.87	12.64	12.41	12.17	11.94	11.53
45.0	13.81	13.52	13.23	12.99	12.76	12.52	12.35	12.00	11.76
90.0	13.23	12.99	12.82	12.64	12.41	12.17	11.94	11.65	11.35
135.0	13.64	13.34	13.11	12.82	12.64	12.41	12.23	12.00	11.65
180.0	13.23	13.05	12.82	12.58	12.41	12.23	12.00	11.76	11.53
225.0	13.28	12.99	12.82	12.58	12.35	12.17	11.88	11.65	11.41
270.0	13.58	13.28	13.05	12.82	12.58	12.41	12.23	12.00	11.65
315.0	13.17	12.93	12.70	12.47	12.29	12.06	11.82	11.59	11.35
360.0	13.64	13.34	13.11	12.87	12.64	12.41	12.17	11.94	11.53
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.29	11.00	10.71	10.48	10.24	10.07	9.89	9.71	9.60
45.0	11.41	11.18	10.89	10.65	10.36	10.12	9.95	9.71	9.60
90.0	11.06	10.83	10.53	10.30	10.07	9.89	9.77	9.54	9.48
135.0	11.35	11.12	10.77	10.53	10.30	10.07	9.89	9.71	9.54
180.0	11.18	11.00	10.65	10.48	10.24	10.01	9.83	9.71	9.54
225.0	11.06	10.77	10.53	10.30	10.12	9.89	9.71	9.54	9.48
270.0	11.41	11.06	10.77	10.53	10.30	10.07	9.89	9.66	9.48
315.0	11.00	10.71	10.48	10.24	10.07	9.89	9.71	9.54	9.36
360.0	11.29	11.00	10.71	10.48	10.24	10.07	9.89	9.71	9.60

Intensity data(cd)

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