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NT

Client:

LumCAT: 3-2834-L

Luminaire: 92.70.411.00

Report No: 2024422-B007

Ballast type: AC

Test No: 2024422-C007

Voltage(V): 33.610

LampCAT: NICHIA NFCWJ120B-V3

Current(A): 0.576

Lamp flux(lm): 2731.0

Power (W): 19.359

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2303.22, Efficiency(%): 84.34% , Luminous Efficacy(lm/W): 118.97

Central intensity(cd): 5326.191, Maximum intensity(cd): 5326.191

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.2

[C90/270]Total=35.2

Field angle(10%Imax): [C0/180]Total=65.0

[C90/270]Total=65.0

Maximum s/h(1/2): C0_180=0.58 C90_270=0.58

Maximum s/h(1/4): C0_180=0.59 C90_270=0.59

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.34%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.881%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/21
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	5326.191	0.000	0	0.00%	0.00%
1.0	5315.438	5.092	5.092	0.19%	0.22%
2.0	5287.493	15.218	20.31	0.56%	0.88%
3.0	5242.577	25.184	45.495	0.92%	1.98%
4.0	5192.687	34.930	80.425	1.28%	3.49%
5.0	5122.679	44.376	124.801	1.62%	5.42%
6.0	5040.016	53.408	178.209	1.96%	7.74%
7.0	4935.554	61.918	240.127	2.27%	10.43%
8.0	4800.440	69.679	309.805	2.55%	13.45%
9.0	4632.700	76.450	386.256	2.80%	16.77%
10.0	4442.063	82.123	468.379	3.01%	20.34%
11.0	4241.842	86.770	555.149	3.18%	24.10%
12.0	4003.290	90.131	645.28	3.30%	28.02%
13.0	3761.373	92.147	737.427	3.37%	32.02%
14.0	3525.454	93.271	830.698	3.42%	36.07%
15.0	3281.415	93.448	924.146	3.42%	40.12%
16.0	3035.767	92.564	1016.71	3.39%	44.14%
17.0	2783.681	90.624	1107.335	3.32%	48.08%
18.0	2565.612	88.198	1195.533	3.23%	51.91%
19.0	2345.640	85.446	1280.979	3.13%	55.62%
20.0	2141.324	82.124	1363.103	3.01%	59.18%
21.0	1944.249	78.451	1441.554	2.87%	62.59%
22.0	1761.074	74.460	1516.014	2.73%	65.82%
23.0	1606.794	70.667	1586.681	2.59%	68.89%
24.0	1416.581	66.102	1652.783	2.42%	71.76%
25.0	1273.362	61.163	1713.946	2.24%	74.42%
26.0	1196.097	58.292	1772.238	2.13%	76.95%
27.0	1086.829	55.852	1828.09	2.05%	79.37%
28.0	993.266	52.664	1880.754	1.93%	81.66%
29.0	906.945	49.715	1930.469	1.82%	83.82%
30.0	802.863	46.164	1976.633	1.69%	85.82%
31.0	693.653	41.646	2018.279	1.52%	87.63%
32.0	584.135	36.607	2054.886	1.34%	89.22%
33.0	479.475	31.334	2086.22	1.15%	90.58%
34.0	367.265	25.625	2111.845	0.94%	91.69%
35.0	276.607	19.996	2131.842	0.73%	92.56%
36.0	225.926	16.001	2147.842	0.59%	93.25%
37.0	160.074	12.589	2160.432	0.46%	93.80%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	97.462	8.596	2169.028	0.31%	94.17%
39.0	85.860	6.257	2175.285	0.23%	94.45%
40.0	78.625	5.737	2181.022	0.21%	94.69%
41.0	72.348	5.376	2186.398	0.20%	94.93%
42.0	66.928	5.060	2191.458	0.19%	95.15%
43.0	62.202	4.783	2196.241	0.18%	95.36%
44.0	58.179	4.544	2200.785	0.17%	95.55%
45.0	54.389	4.326	2205.111	0.16%	95.74%
46.0	51.339	4.135	2209.246	0.15%	95.92%
47.0	48.369	3.966	2213.211	0.15%	96.09%
48.0	45.926	3.812	2217.023	0.14%	96.26%
49.0	43.694	3.680	2220.703	0.13%	96.42%
50.0	41.668	3.559	2224.262	0.13%	96.57%
51.0	39.810	3.447	2227.71	0.13%	96.72%
52.0	38.047	3.341	2231.051	0.12%	96.87%
53.0	36.511	3.243	2234.294	0.12%	97.01%
54.0	35.099	3.156	2237.45	0.12%	97.14%
55.0	33.548	3.064	2240.514	0.11%	97.28%
56.0	32.158	2.969	2243.483	0.11%	97.41%
57.0	30.754	2.876	2246.36	0.11%	97.53%
58.0	29.415	2.782	2249.142	0.10%	97.65%
59.0	27.981	2.683	2251.826	0.10%	97.77%
60.0	26.672	2.582	2254.408	0.09%	97.88%
61.0	25.479	2.489	2256.896	0.09%	97.99%
62.0	24.280	2.398	2259.294	0.09%	98.09%
63.0	23.168	2.308	2261.602	0.08%	98.19%
64.0	22.114	2.222	2263.824	0.08%	98.29%
65.0	21.244	2.146	2265.969	0.08%	98.38%
66.0	20.329	2.074	2268.044	0.08%	98.47%
67.0	19.466	2.001	2270.045	0.07%	98.56%
68.0	18.742	1.935	2271.98	0.07%	98.64%
69.0	18.018	1.875	2273.855	0.07%	98.73%
70.0	17.381	1.818	2275.673	0.07%	98.80%
71.0	16.715	1.762	2277.436	0.06%	98.88%
72.0	16.064	1.704	2279.14	0.06%	98.95%
73.0	15.501	1.651	2280.791	0.06%	99.03%
74.0	14.974	1.602	2282.393	0.06%	99.10%
75.0	14.557	1.560	2283.953	0.06%	99.16%

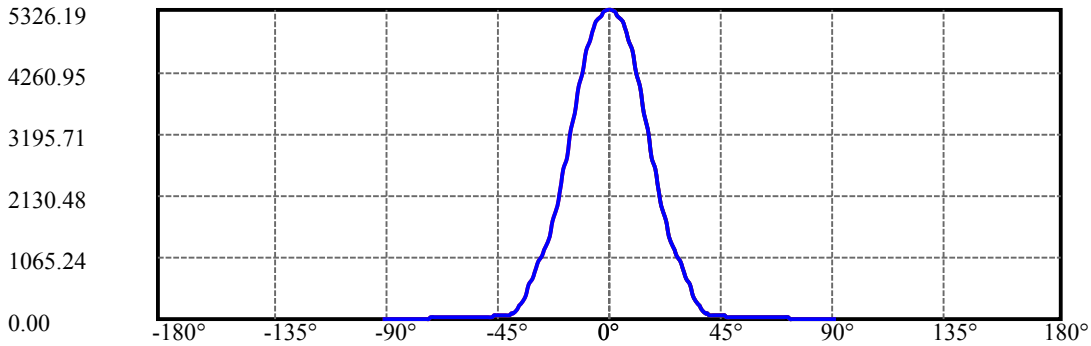
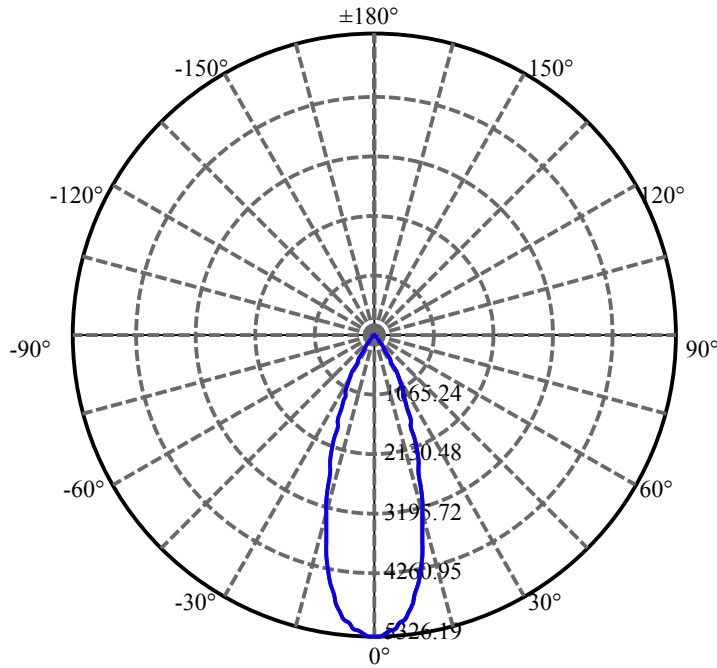
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.199	1.527	2285.48	0.06%	99.23%
77.0	13.914	1.499	2286.979	0.05%	99.30%
78.0	13.636	1.475	2288.453	0.05%	99.36%
79.0	13.321	1.448	2289.902	0.05%	99.42%
80.0	12.868	1.412	2291.314	0.05%	99.48%
81.0	12.151	1.353	2292.667	0.05%	99.54%
82.0	11.712	1.294	2293.961	0.05%	99.60%
83.0	11.390	1.256	2295.217	0.05%	99.65%
84.0	11.134	1.227	2296.444	0.04%	99.71%
85.0	10.856	1.200	2297.644	0.04%	99.76%
86.0	10.527	1.169	2298.813	0.04%	99.81%
87.0	10.256	1.137	2299.95	0.04%	99.86%
88.0	10.000	1.110	2301.06	0.04%	99.91%
89.0	9.788	1.085	2302.144	0.04%	99.95%
90.0	9.766	1.072	2303.216	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1976.63	72.38%	85.82%
0-40	2181.02	79.86%	94.69%
0-60	2254.41	82.55%	97.88%
0-90	2302.14	84.30%	99.95%
0-120	2302.14	84.30%	99.95%
0-180	2303.22	84.34%	100.00%
60-90	47.74	1.75%	2.07%
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%
0-27.28	1842.57	67.47%	80.00%

ZONAL LUMEN SUMMARY

0-10	468.38
10-20	894.72
20-30	613.53
30-40	204.39
40-50	43.24
50-60	30.15
60-70	21.27
70-80	15.64
80-90	10.83
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: —————

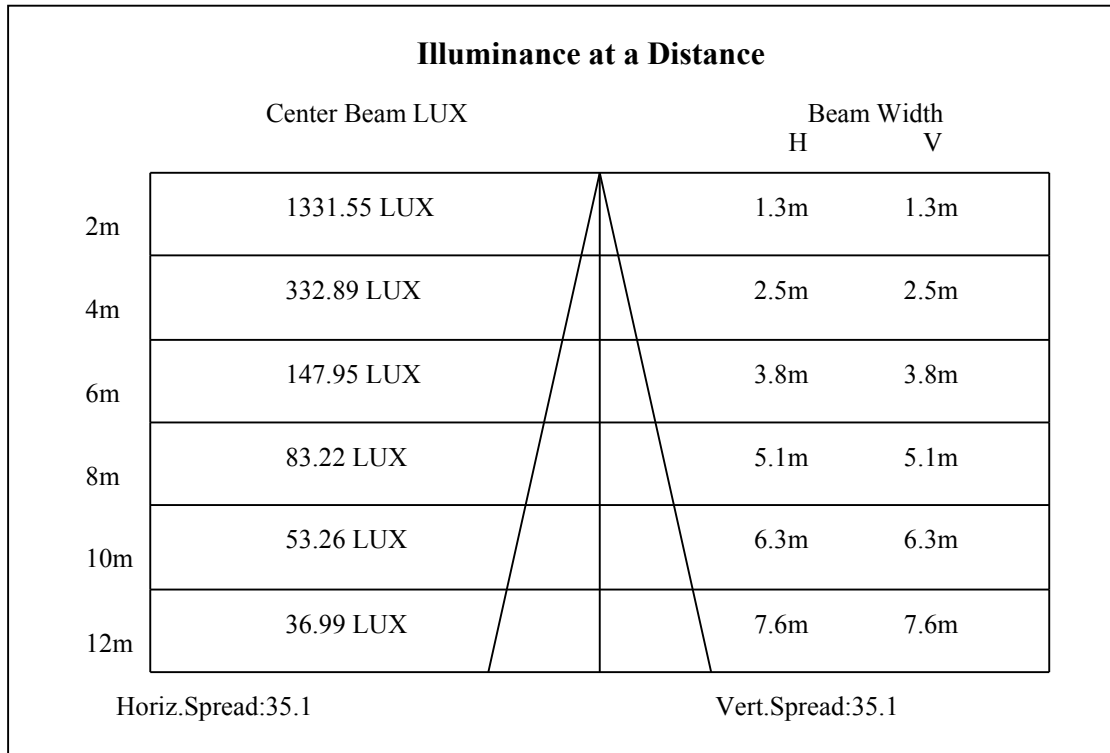
C90/C270: —————

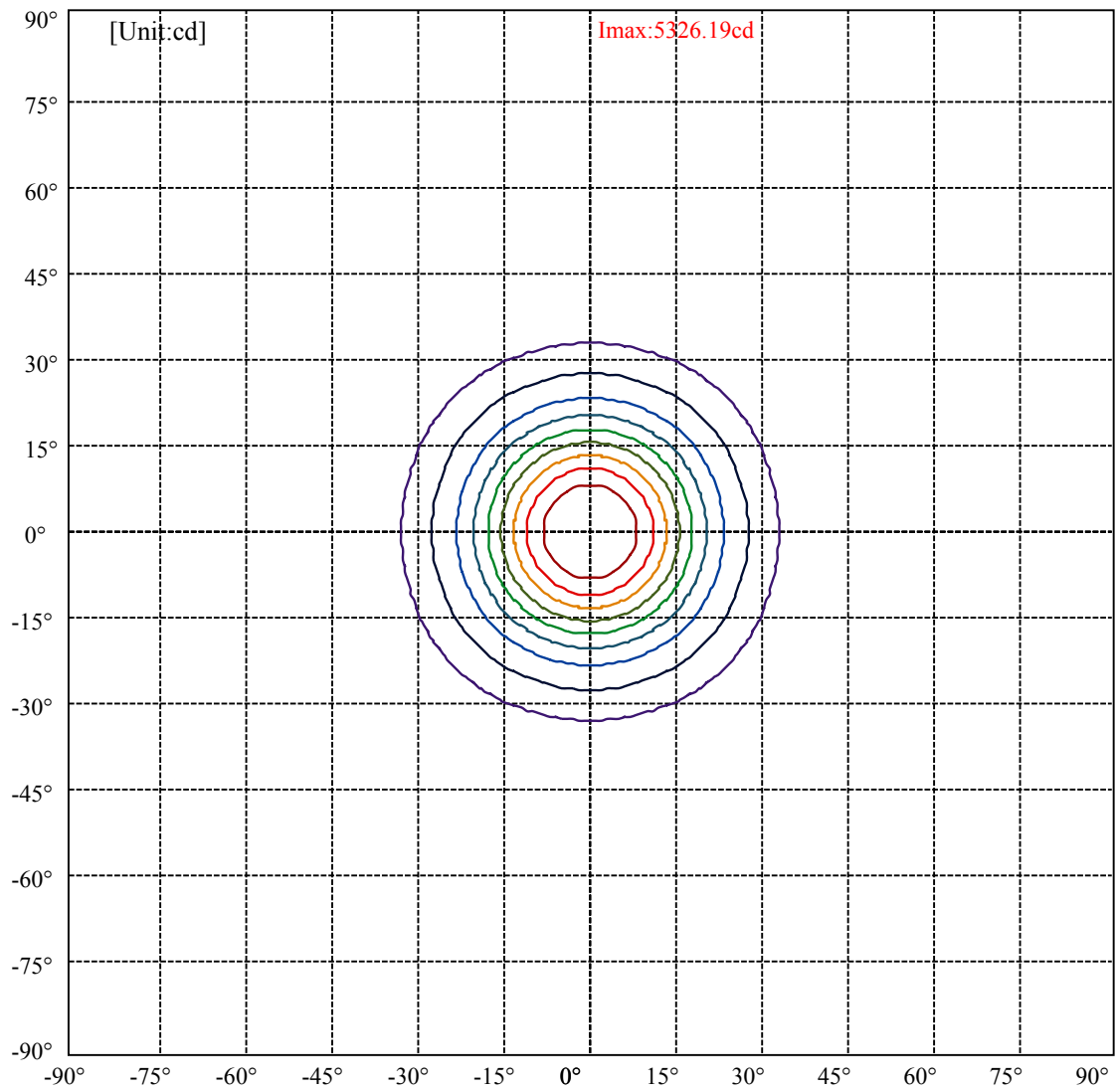
Field angle(10%Imax):C0/180Left:32.5 Right:32.5

:C90/270Left:32.5 Right:32.5

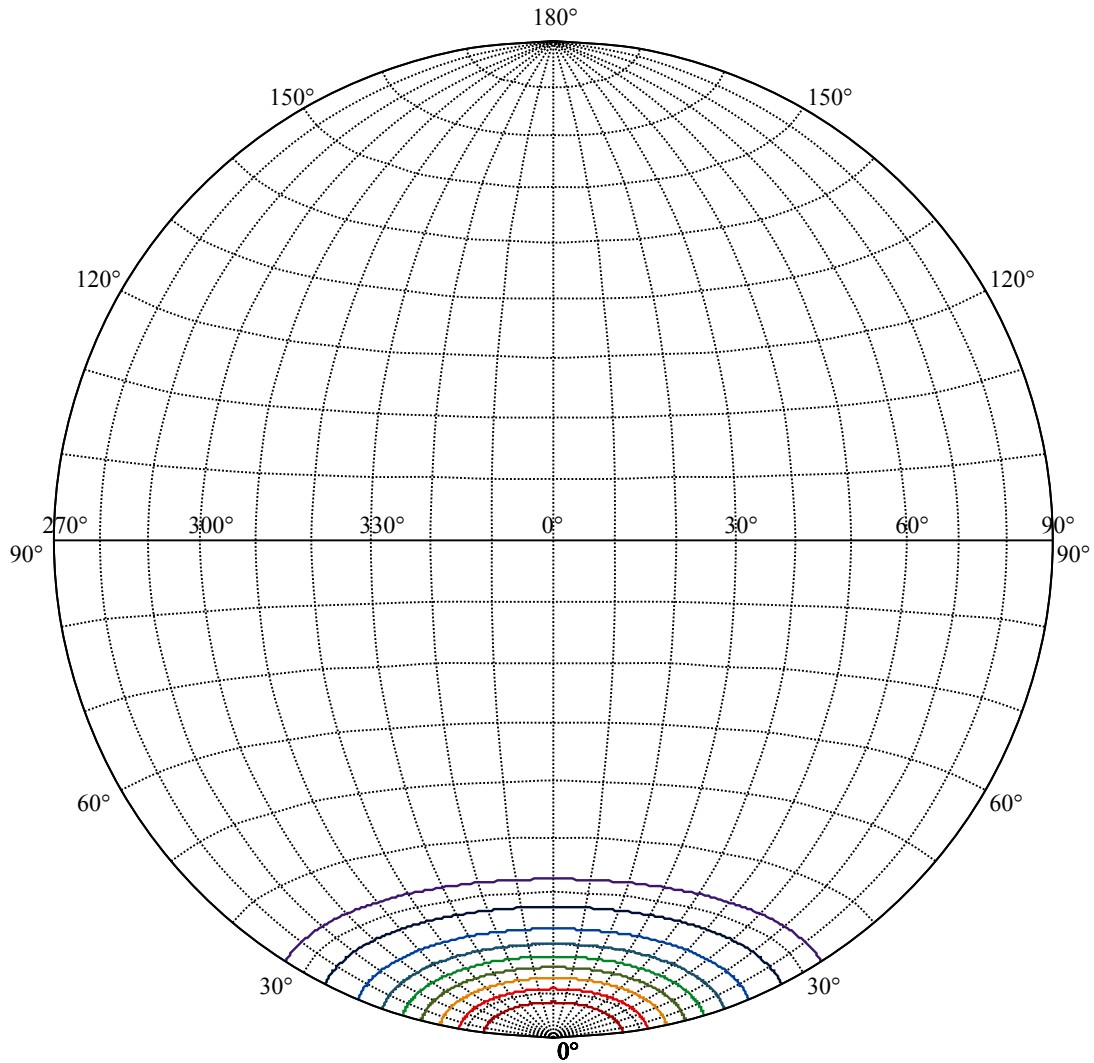
Beam Angle(50%Imax):C0/180Left:17.6 Right:17.6

:C90/270Left:17.6 Right:17.6





(10%Imax) 532.619	—
(20%Imax) 1065.24	—
(30%Imax) 1597.86	—
(40%Imax) 2130.48	—
(50%Imax) 2663.1	—
(60%Imax) 3195.71	—
(70%Imax) 3728.33	—
(80%Imax) 4260.95	—
(90%Imax) 4793.57	—



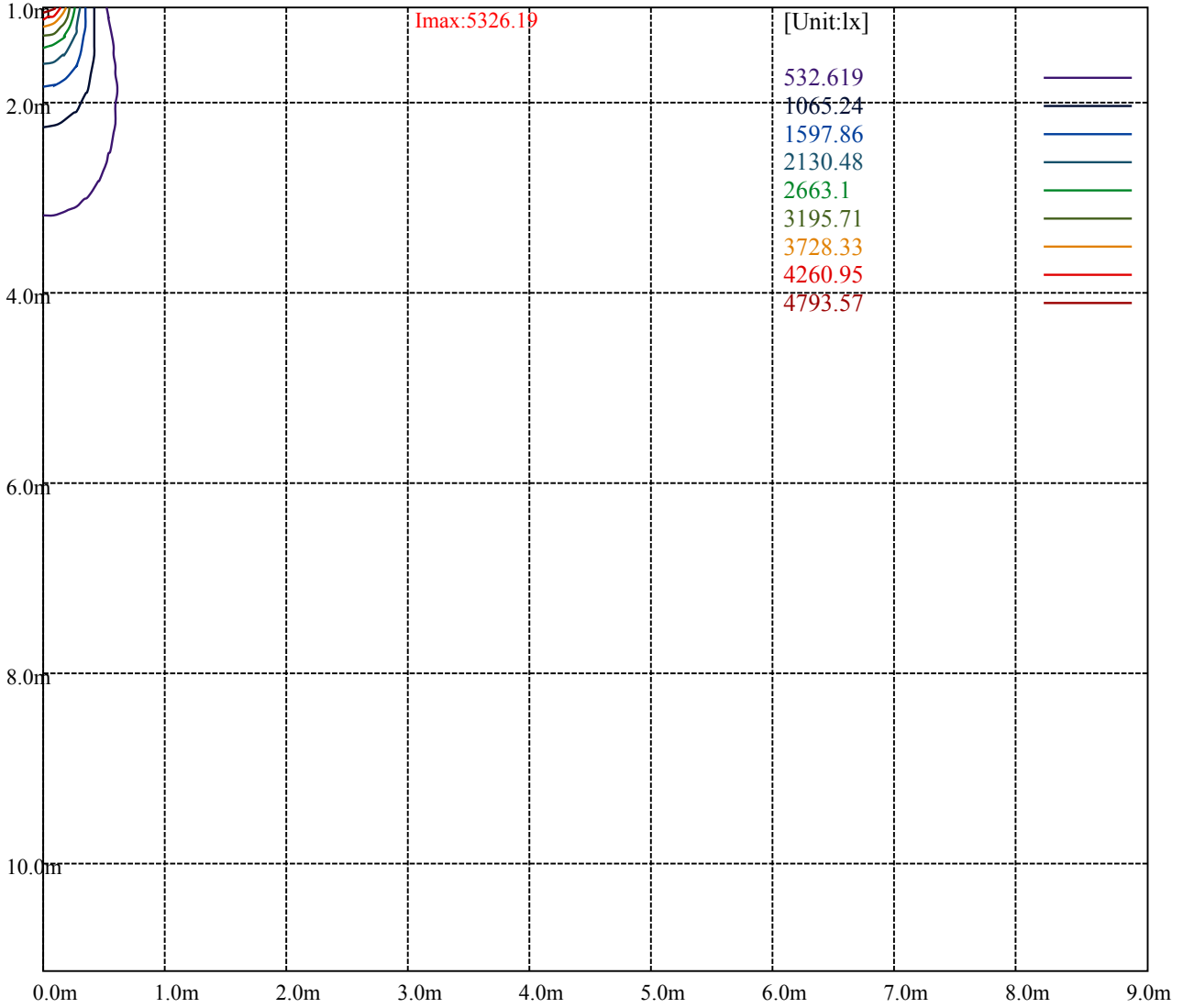
House

[Unit:cd]

Road

Imax:5326.19

(10%Imax) 532.619	—
(20%Imax) 1065.24	—
(30%Imax) 1597.86	—
(40%Imax) 2130.48	—
(50%Imax) 2663.1	—
(60%Imax) 3195.71	—
(70%Imax) 3728.33	—
(80%Imax) 4260.95	—
(90%Imax) 4793.57	—



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

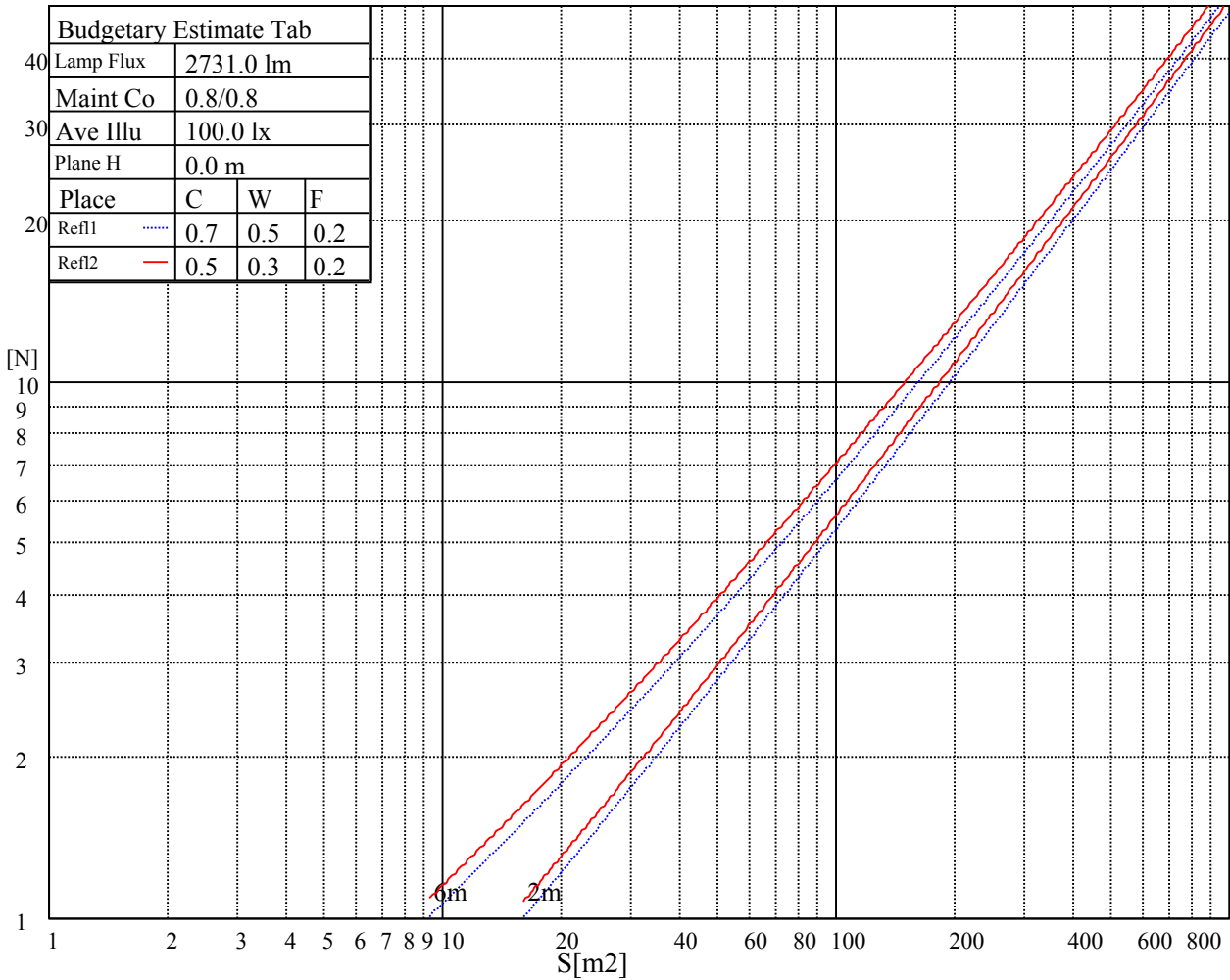
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

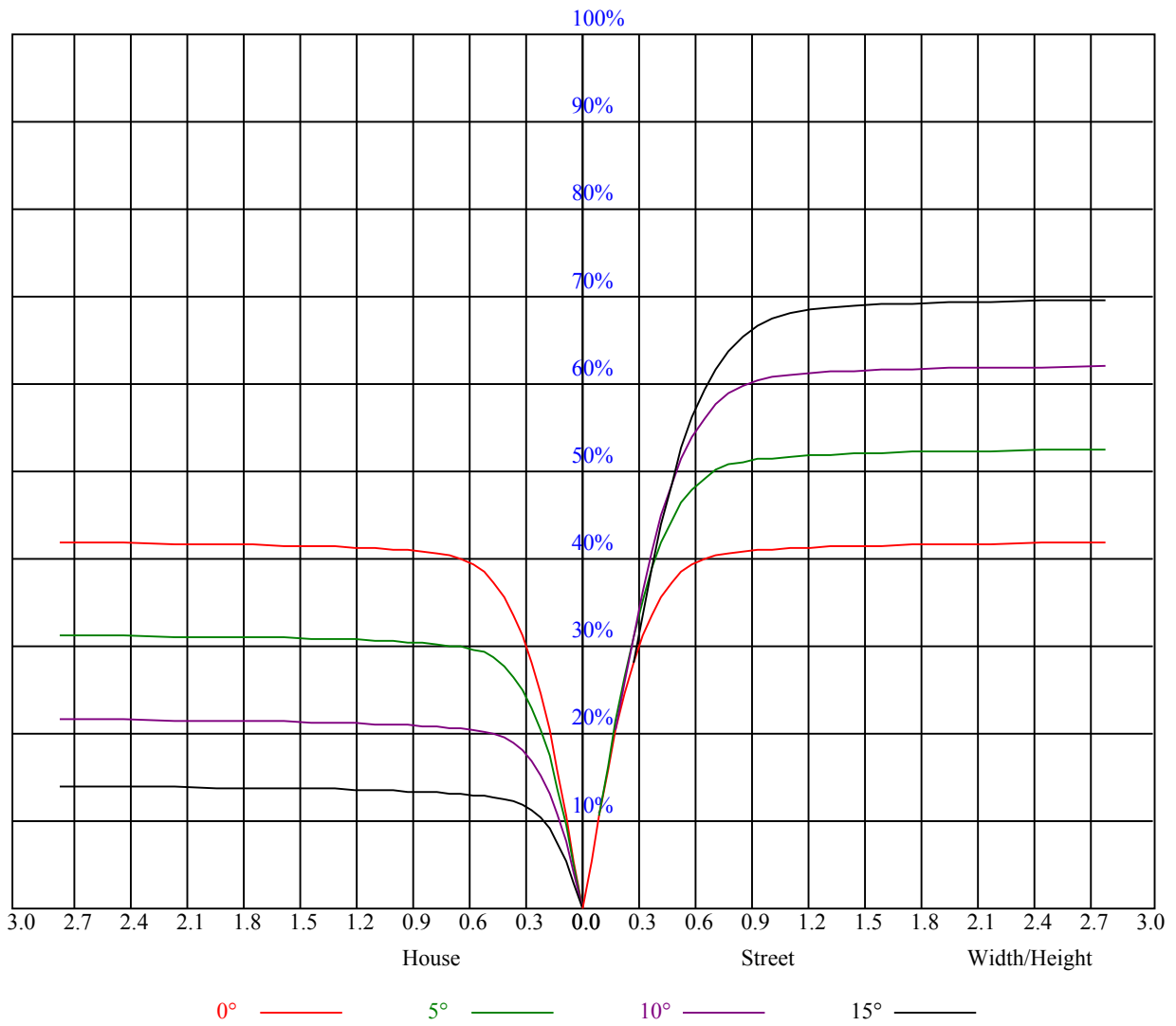


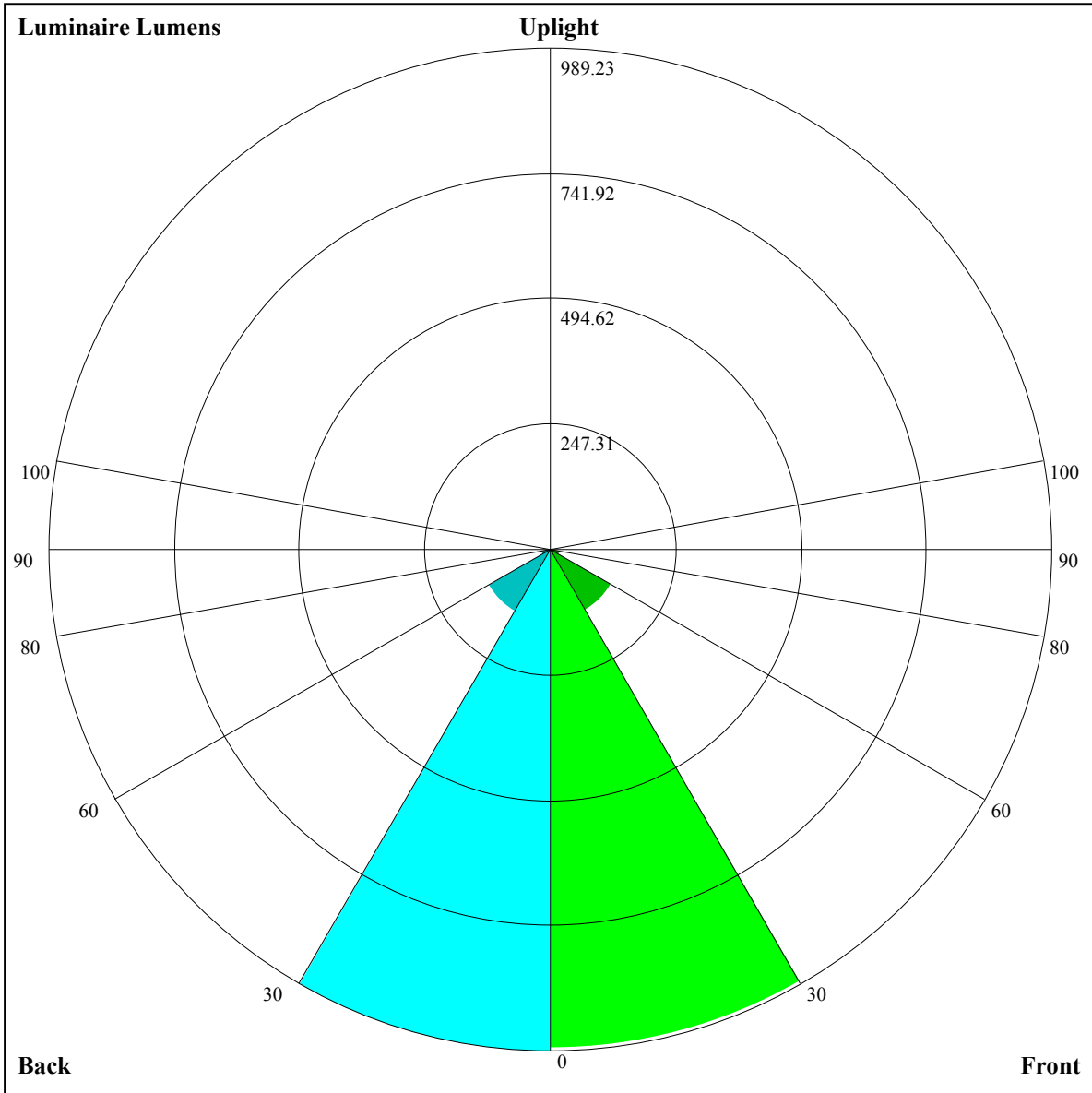
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
	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	
8H	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	1.00	1.00	1.00	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.84
1	0.94	0.92	0.90	0.92	0.90	0.89	0.89	0.87	0.86	0.86	0.84	0.83	0.83	0.82	0.81	0.80
2	0.88	0.85	0.83	0.87	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.78	0.79	0.78	0.77	0.75
3	0.83	0.80	0.77	0.82	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	0.70	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	0.71	0.68	0.66	0.70	0.68	0.66	0.64
6	0.71	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	0.63	0.61
7	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	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	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.56
9	0.63	0.58	0.56	0.62	0.58	0.55	0.62	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	0.56	0.53	0.59	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.52





Luminaire Lumens:

FL=983.12,FM=138.69,FH=18.54,FVH=6

BL=989.23,BM=140.02,BH=18.49,BVH=5.98

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	5325.61	5310.98	5272.94	5226.12	5173.45	5092.69	5009.00	4903.07	4768.47
45.0	5325.61	5327.95	5313.32	5272.94	5237.82	5189.25	5123.12	5035.33	4938.19
90.0	5330.87	5317.41	5270.01	5235.48	5182.81	5118.44	5022.46	4920.05	4803.00
135.0	5322.68	5326.19	5319.17	5280.54	5251.87	5188.66	5125.46	5046.45	4931.16
180.0	5325.61	5324.44	5299.86	5270.59	5227.29	5162.33	5077.47	4988.52	4870.89
225.0	5325.61	5292.83	5271.18	5213.24	5146.53	5055.82	4953.99	4821.73	4628.02
270.0	5330.87	5325.61	5306.29	5248.94	5204.46	5128.39	5047.62	4957.50	4800.66
315.0	5322.68	5298.10	5247.19	5192.76	5117.27	5045.87	4961.01	4811.78	4663.13
360.0	5325.61	5310.98	5272.94	5226.12	5173.45	5092.69	5009.00	4903.07	4768.47
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4565.40	4387.49	4183.25	3964.37	3679.37	3444.11	3215.87	2985.29	2720.18
45.0	4815.29	4628.02	4458.30	4208.41	3997.15	3768.32	3536.57	3242.79	3010.46
90.0	4659.62	4444.84	4239.43	3972.57	3744.33	3512.58	3222.89	2995.83	2775.78
135.0	4795.98	4650.84	4435.48	4237.67	3973.74	3749.01	3519.60	3279.66	2992.31
180.0	4695.32	4524.43	4327.80	4069.71	3852.01	3618.50	3327.65	3097.07	2815.58
225.0	4444.26	4195.54	3984.86	3760.71	3530.14	3241.62	3008.70	2786.31	2566.86
270.0	4652.01	4470.01	4272.79	4004.17	3777.69	3558.81	3332.33	3032.69	2802.70
315.0	4433.72	4235.33	4032.84	3808.70	3536.57	3310.68	3087.71	2866.49	2585.58
360.0	4565.40	4387.49	4183.25	3964.37	3679.37	3444.11	3215.87	2985.29	2720.18
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2513.60	2312.28	2078.19	1899.70	1693.70	1544.47	1411.62	1145.81	1145.81
45.0	2783.39	2570.37	2317.55	2122.08	1945.93	1780.90	1599.48	1464.29	1306.87
90.0	2561.59	2305.85	2113.89	1930.13	1762.76	1580.75	1447.32	1149.09	1149.09
135.0	2773.44	2556.91	2349.74	2106.87	1920.77	1765.10	1616.45	1444.39	1316.23
180.0	2611.33	2386.61	2198.16	1968.17	1785.58	1641.61	1499.40	1339.64	1224.35
225.0	2311.11	2117.99	1935.40	1770.36	1591.29	1459.02	1162.26	1162.26	1085.30
270.0	2596.12	2335.11	2144.32	1974.61	1758.07	1613.52	1443.81	1329.10	1212.64
315.0	2374.32	2180.02	1993.33	1782.07	1630.50	1468.97	1152.31	1152.31	1128.49
360.0	2513.60	2312.28	2078.19	1899.70	1693.70	1544.47	1411.62	1145.81	1145.81
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1047.49	969.95	889.02	770.68	671.78	567.49	467.48	343.12	249.42
45.0	1191.58	1087.41	1002.55	896.62	801.82	701.74	571.24	468.82	369.34
90.0	1077.57	992.60	891.59	796.43	690.62	560.12	459.11	358.74	240.41
135.0	1169.34	1071.61	987.92	882.58	786.02	680.09	574.75	448.34	349.44
180.0	1114.91	1007.23	931.15	844.54	708.18	609.28	509.79	374.02	307.30
225.0	977.15	894.69	804.39	700.98	568.43	467.71	369.10	277.57	181.42
270.0	1104.38	994.36	913.59	817.62	713.45	581.19	478.77	380.45	310.81
315.0	1012.21	928.28	835.35	713.45	608.93	505.46	405.56	287.05	204.71
360.0	1047.49	969.95	889.02	770.68	671.78	567.49	467.48	343.12	249.42
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	155.55	107.51	90.94	80.82	75.03	69.52	63.79	59.87	56.30
45.0	297.35	297.35	115.70	93.87	83.45	77.48	71.98	66.13	62.09
90.0	166.38	115.35	96.56	85.91	79.88	74.21	69.17	63.85	60.04
135.0	302.03	302.03	113.59	97.50	88.49	80.35	74.27	68.12	63.79
180.0	307.30	136.88	97.97	89.25	81.40	75.73	68.47	64.02	59.87
225.0	125.47	96.33	84.62	77.60	71.63	65.08	60.75	56.94	52.79
270.0	310.81	125.94	92.23	83.57	76.78	69.58	64.67	60.40	56.59
315.0	142.50	99.20	88.08	78.36	72.33	66.83	62.33	58.29	53.96
360.0	155.55	107.51	90.94	80.82	75.03	69.52	63.79	59.87	56.30

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	53.20	49.69	47.17	44.89	42.90	40.50	38.98	37.10	35.70
45.0	57.59	54.43	51.50	48.87	45.88	43.83	41.79	40.03	38.04
90.0	55.89	52.79	50.10	46.99	44.83	42.72	41.08	38.98	37.57
135.0	59.81	56.36	52.44	49.57	47.05	44.89	42.49	40.79	39.15
180.0	55.42	52.26	48.92	46.47	44.42	42.49	40.32	38.57	37.04
225.0	49.86	47.34	44.42	42.49	40.67	39.03	37.10	35.70	34.35
270.0	52.44	49.63	47.11	44.83	42.43	40.61	39.03	37.04	35.76
315.0	50.91	48.22	45.30	43.31	41.38	39.27	37.69	36.17	34.47
360.0	53.20	49.69	47.17	44.89	42.90	40.50	38.98	37.10	35.70
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	34.29	32.77	31.43	30.08	28.85	27.27	26.16	24.99	23.94
45.0	36.64	35.17	33.88	32.36	30.90	29.32	27.97	26.74	25.28
90.0	36.05	34.70	32.95	31.49	30.14	28.50	27.27	26.04	24.70
135.0	37.75	35.82	34.47	33.07	31.43	30.02	28.32	27.15	25.87
180.0	35.64	33.88	32.60	31.13	29.96	28.32	27.10	25.63	24.46
225.0	32.95	31.49	30.20	28.62	27.39	26.22	24.81	23.70	22.77
270.0	34.35	32.66	31.49	30.14	28.73	27.51	26.39	25.28	23.94
315.0	33.12	31.89	30.26	29.14	27.92	26.69	25.34	24.29	23.29
360.0	34.29	32.77	31.43	30.08	28.85	27.27	26.16	24.99	23.94
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.71	21.77	21.01	19.96	19.20	18.55	17.67	17.15	16.56
45.0	24.17	23.12	22.18	21.13	20.25	19.49	18.84	17.97	17.38
90.0	23.64	22.59	21.59	20.66	19.90	19.02	18.26	17.67	17.09
135.0	24.40	23.41	22.47	21.65	20.48	19.78	19.08	18.32	17.50
180.0	23.41	22.12	21.30	20.42	19.37	18.73	17.97	17.38	16.68
225.0	21.77	20.72	19.90	19.14	18.43	17.62	17.09	16.50	15.74
270.0	22.94	21.95	21.07	20.07	19.31	18.67	17.85	17.26	16.56
315.0	22.30	21.24	20.42	19.61	18.79	18.08	17.38	16.80	16.21
360.0	22.71	21.77	21.01	19.96	19.20	18.55	17.67	17.15	16.56
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.80	15.27	14.81	14.34	13.81	13.46	13.05	12.70	12.29
45.0	16.74	15.92	15.39	14.86	14.28	13.87	13.52	13.05	12.76
90.0	16.21	15.74	15.16	14.69	14.16	13.93	13.69	13.46	13.17
135.0	16.91	16.21	15.51	14.98	14.51	13.99	13.69	13.40	12.93
180.0	16.04	15.51	14.98	14.34	13.93	13.58	13.11	12.76	12.35
225.0	15.27	14.75	14.16	13.75	13.40	12.93	12.58	12.35	12.00
270.0	15.98	15.51	15.04	14.86	14.81	14.86	14.81	14.63	13.93
315.0	15.57	15.10	14.75	14.63	14.69	14.69	14.63	14.22	13.52
360.0	15.80	15.27	14.81	14.34	13.81	13.46	13.05	12.70	12.29
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.94	11.59	11.29	11.06	10.77	10.59	10.24	10.01	9.71
45.0	12.47	12.06	11.70	11.41	11.12	10.89	10.48	10.24	9.95
90.0	12.00	11.76	11.41	11.18	10.83	10.53	10.30	10.01	9.71
135.0	12.58	12.00	11.65	11.53	11.35	10.65	10.42	10.18	10.01
180.0	12.00	11.70	11.35	11.06	10.77	10.48	10.30	10.07	9.77
225.0	11.65	11.35	11.18	10.83	10.48	10.24	10.01	9.77	9.77
270.0	12.64	11.76	11.41	11.12	10.89	10.48	10.24	9.89	9.66
315.0	11.94	11.47	11.12	10.89	10.65	10.36	10.07	9.83	9.71
360.0	11.94	11.59	11.29	11.06	10.77	10.59	10.24	10.01	9.71

Intensity data(cd)

C/γ(°)	90.0
0.0	9.77
45.0	9.71
90.0	9.77
135.0	9.77
180.0	9.77
225.0	9.77
270.0	9.77
315.0	9.77
360.0	9.77