



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:

LumCAT: 1-1306-L

Luminaire: 92.70.428.00

Report No: 2024720-B012

Ballast type: AC

Test No: 2024720-C013

Voltage(V): 34.920

LampCAT: CREE CXA1516 LES8.9

Current(A): 0.330

Lamp flux(lm): 1726.0

Power (W): 11.523

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1573.77, Efficiency(%): 91.18% , Luminous Efficacy(lm/W): 136.58

Central intensity(cd): 2385.289, Maximum intensity(cd): 2386.826

Angle of maximum intensity: C=0.0 γ =2.0

Beam Angle(50%Imax): [C0/180]Total=50.8

[C90/270]Total=50.8

Field angle(10%Imax): [C0/180]Total=70.2

[C90/270]Total=70.2

Maximum s/h(1/2): C0_180=0.81 C90_270=0.81

Maximum s/h(1/4): C0_180=0.77 C90_270=0.77

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.18%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.893%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/20
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	2385.289	0.000	0	0.00%	0.00%
1.0	2385.509	2.283	2.283	0.13%	0.15%
2.0	2386.826	6.850	9.132	0.40%	0.58%
3.0	2381.339	11.404	20.536	0.66%	1.30%
4.0	2365.904	15.891	36.427	0.92%	2.31%
5.0	2353.321	20.302	56.729	1.18%	3.60%
6.0	2333.570	24.631	81.36	1.43%	5.17%
7.0	2313.160	28.842	110.202	1.67%	7.00%
8.0	2288.800	32.935	143.137	1.91%	9.10%
9.0	2257.345	36.844	179.981	2.13%	11.44%
10.0	2222.816	40.544	220.525	2.35%	14.01%
11.0	2184.703	44.040	264.565	2.55%	16.81%
12.0	2142.275	47.300	311.865	2.74%	19.82%
13.0	2091.067	50.239	362.104	2.91%	23.01%
14.0	2034.813	52.811	414.915	3.06%	26.36%
15.0	1983.898	55.171	470.086	3.20%	29.87%
16.0	1924.425	57.268	527.354	3.32%	33.51%
17.0	1865.610	59.021	586.375	3.42%	37.26%
18.0	1798.821	60.419	646.793	3.50%	41.10%
19.0	1730.057	61.395	708.189	3.56%	45.00%
20.0	1653.539	61.929	770.118	3.59%	48.93%
21.0	1577.533	62.043	832.161	3.59%	52.88%
22.0	1497.942	61.803	893.964	3.58%	56.80%
23.0	1410.085	61.018	954.982	3.54%	60.68%
24.0	1265.922	58.507	1013.489	3.39%	64.40%
25.0	1224.371	56.624	1070.113	3.28%	68.00%
26.0	1153.596	56.132	1126.245	3.25%	71.56%
27.0	1048.065	53.864	1180.109	3.12%	74.99%
28.0	931.400	50.116	1230.225	2.90%	78.17%
29.0	816.645	45.734	1275.959	2.65%	81.08%
30.0	699.380	40.932	1316.891	2.37%	83.68%
31.0	578.890	35.572	1352.464	2.06%	85.94%
32.0	475.517	30.208	1382.671	1.75%	87.86%
33.0	373.644	25.017	1407.688	1.45%	89.45%
34.0	289.123	20.057	1427.745	1.16%	90.72%
35.0	243.359	16.537	1444.282	0.96%	91.77%
36.0	201.464	14.163	1458.445	0.82%	92.67%
37.0	124.865	10.643	1469.088	0.62%	93.35%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	100.790	7.532	1476.62	0.44%	93.83%
39.0	85.626	6.363	1482.983	0.37%	94.23%
40.0	73.365	5.545	1488.528	0.32%	94.58%
41.0	64.338	4.904	1493.432	0.28%	94.90%
42.0	57.118	4.413	1497.845	0.26%	95.18%
43.0	51.178	4.012	1501.856	0.23%	95.43%
44.0	45.633	3.654	1505.51	0.21%	95.66%
45.0	41.185	3.337	1508.847	0.19%	95.87%
46.0	37.396	3.073	1511.92	0.18%	96.07%
47.0	34.016	2.840	1514.76	0.16%	96.25%
48.0	31.397	2.644	1517.404	0.15%	96.42%
49.0	29.195	2.488	1519.893	0.14%	96.58%
50.0	27.111	2.348	1522.24	0.14%	96.73%
51.0	25.282	2.217	1524.457	0.13%	96.87%
52.0	23.819	2.107	1526.564	0.12%	97.00%
53.0	22.487	2.014	1528.578	0.12%	97.13%
54.0	21.200	1.926	1530.504	0.11%	97.25%
55.0	20.117	1.844	1532.348	0.11%	97.37%
56.0	19.100	1.772	1534.12	0.10%	97.48%
57.0	18.164	1.704	1535.824	0.10%	97.59%
58.0	17.396	1.644	1537.468	0.10%	97.69%
59.0	16.752	1.596	1539.065	0.09%	97.80%
60.0	16.108	1.552	1540.617	0.09%	97.89%
61.0	15.523	1.510	1542.127	0.09%	97.99%
62.0	15.040	1.473	1543.599	0.09%	98.08%
63.0	14.565	1.440	1545.039	0.08%	98.17%
64.0	14.104	1.407	1546.446	0.08%	98.26%
65.0	13.702	1.376	1547.822	0.08%	98.35%
66.0	13.292	1.347	1549.169	0.08%	98.44%
67.0	12.897	1.317	1550.486	0.08%	98.52%
68.0	12.560	1.290	1551.775	0.07%	98.60%
69.0	12.202	1.263	1553.039	0.07%	98.68%
70.0	11.858	1.236	1554.274	0.07%	98.76%
71.0	11.536	1.209	1555.483	0.07%	98.84%
72.0	11.229	1.184	1556.667	0.07%	98.91%
73.0	10.929	1.159	1557.826	0.07%	98.99%
74.0	10.600	1.132	1558.958	0.07%	99.06%
75.0	10.329	1.106	1560.063	0.06%	99.13%

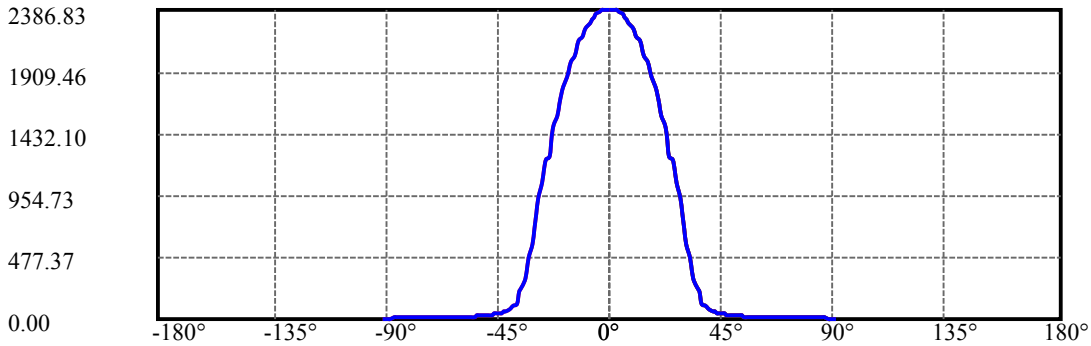
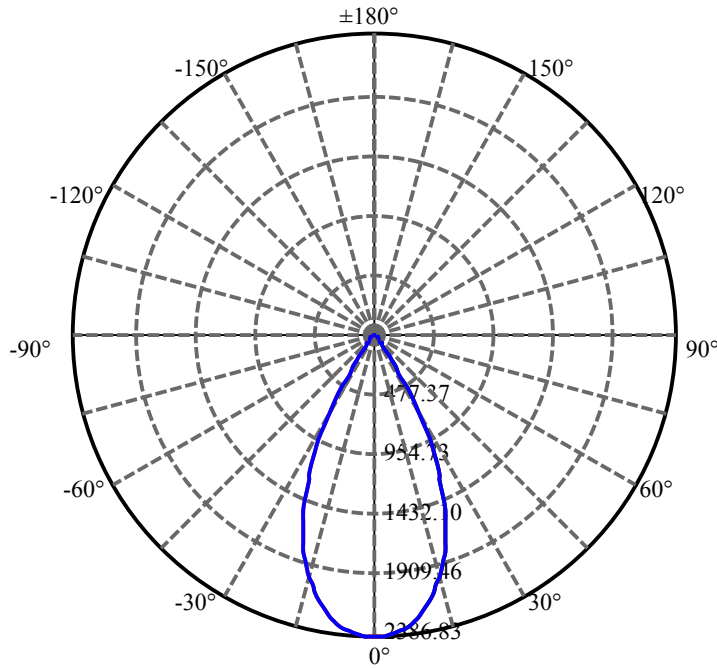
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.059	1.082	1561.146	0.06%	99.20%
77.0	9.759	1.057	1562.202	0.06%	99.27%
78.0	9.503	1.031	1563.233	0.06%	99.33%
79.0	9.232	1.007	1564.24	0.06%	99.39%
80.0	8.969	0.981	1565.221	0.06%	99.46%
81.0	8.691	0.955	1566.176	0.06%	99.52%
82.0	8.464	0.930	1567.106	0.05%	99.58%
83.0	8.200	0.906	1568.012	0.05%	99.63%
84.0	7.974	0.881	1568.893	0.05%	99.69%
85.0	7.769	0.859	1569.753	0.05%	99.74%
86.0	7.571	0.839	1570.591	0.05%	99.80%
87.0	7.403	0.820	1571.411	0.05%	99.85%
88.0	7.271	0.804	1572.215	0.05%	99.90%
89.0	7.067	0.786	1573	0.05%	99.95%
90.0	6.898	0.766	1573.766	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1316.89	76.30%	83.68%
0-40	1488.53	86.24%	94.58%
0-60	1540.62	89.26%	97.89%
0-90	1573.00	91.14%	99.95%
0-120	1573.00	91.14%	99.95%
0-180	1573.77	91.18%	100.00%
60-90	32.38	1.88%	2.06%
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%
0-28.63	1259.01	72.94%	80.00%

ZONAL LUMEN SUMMARY

0-10	220.52
10-20	549.59
20-30	546.77
30-40	171.64
40-50	33.71
50-60	18.38
60-70	13.66
70-80	10.95
80-90	7.78
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: —————

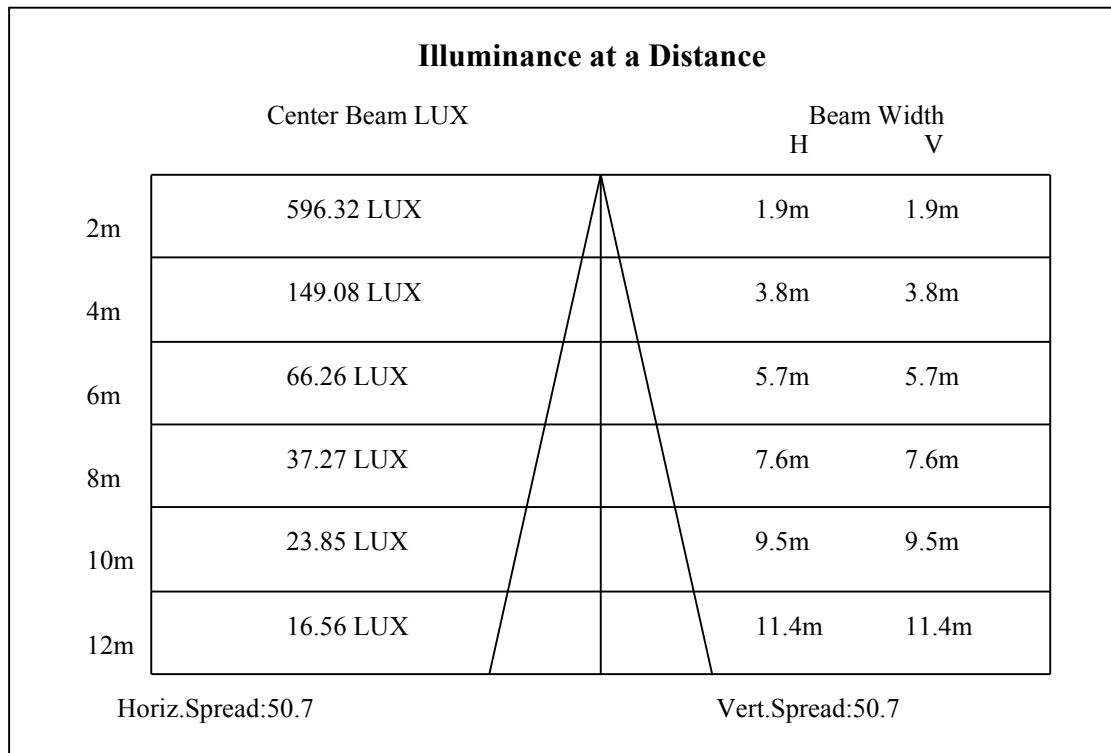
C90/C270: —————

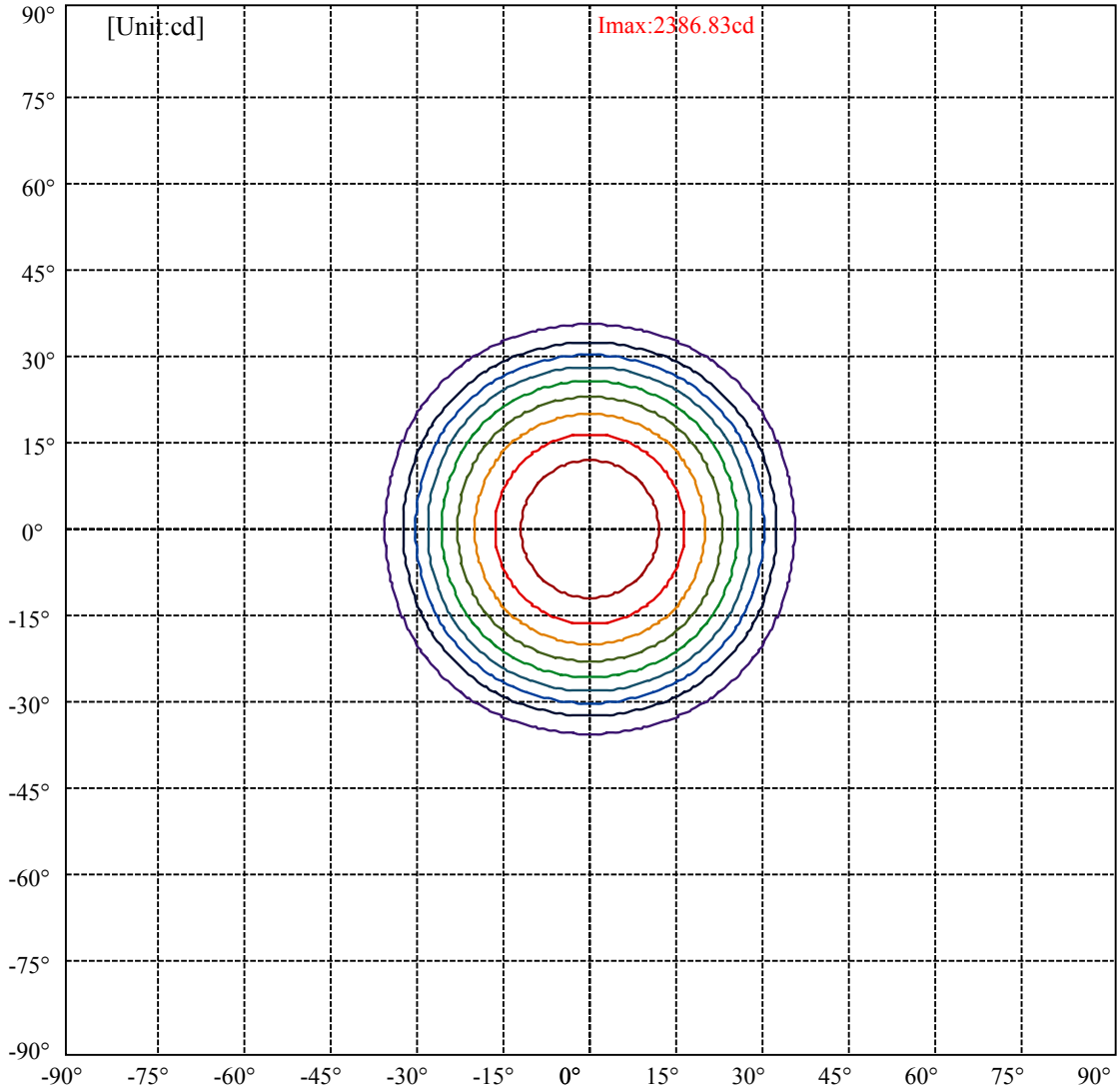
Field angle(10%Imax):C0/180Left:37.1 Right:33.1

:C90/270Left:37.1 Right:33.1

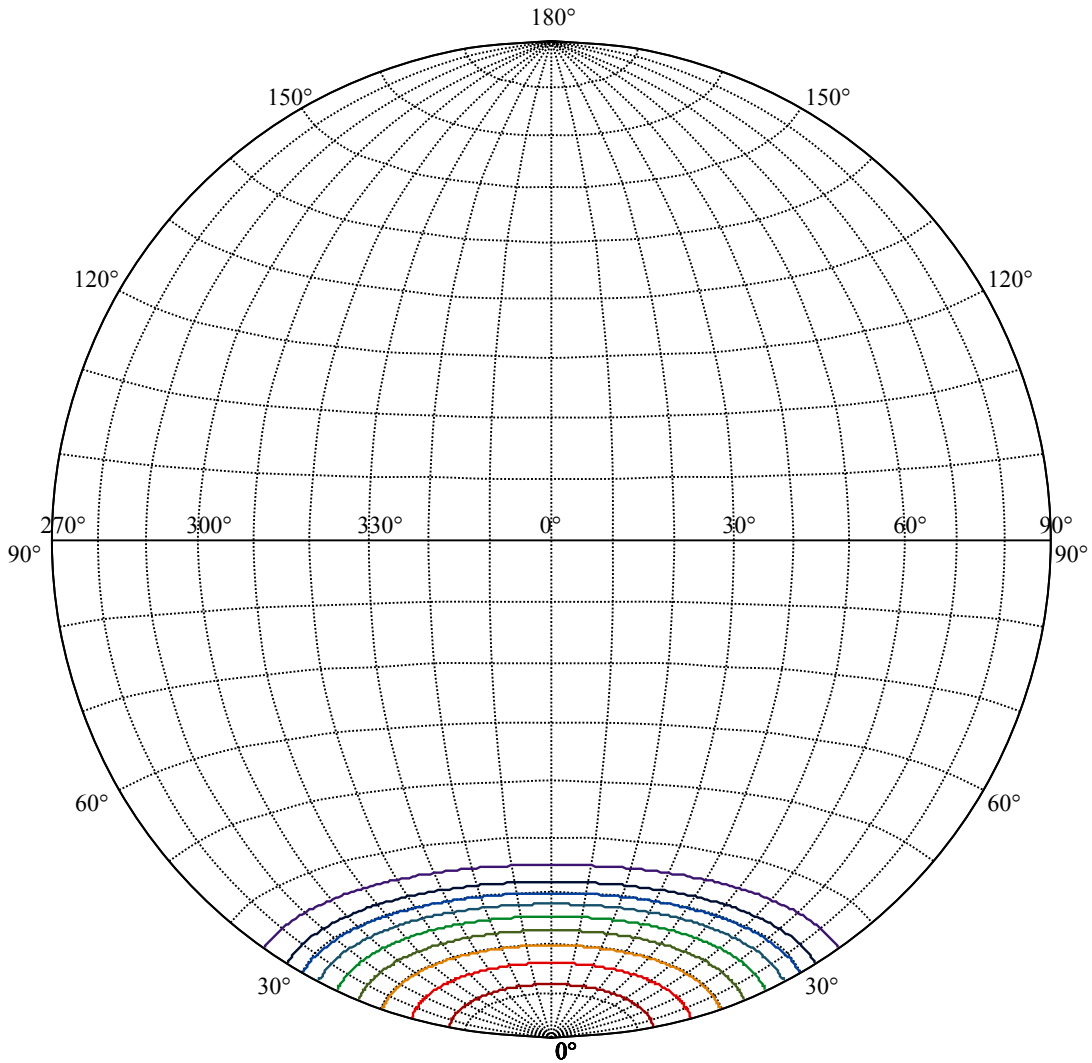
Beam Angle(50%Imax):C0/180Left:27.4 Right:23.4

:C90/270Left:27.4 Right:23.4





(10%I _{max}) 238.683	—
(20%I _{max}) 477.365	—
(30%I _{max}) 716.048	—
(40%I _{max}) 954.73	—
(50%I _{max}) 1193.41	—
(60%I _{max}) 1432.1	—
(70%I _{max}) 1670.78	—
(80%I _{max}) 1909.46	—
(90%I _{max}) 2148.14	—



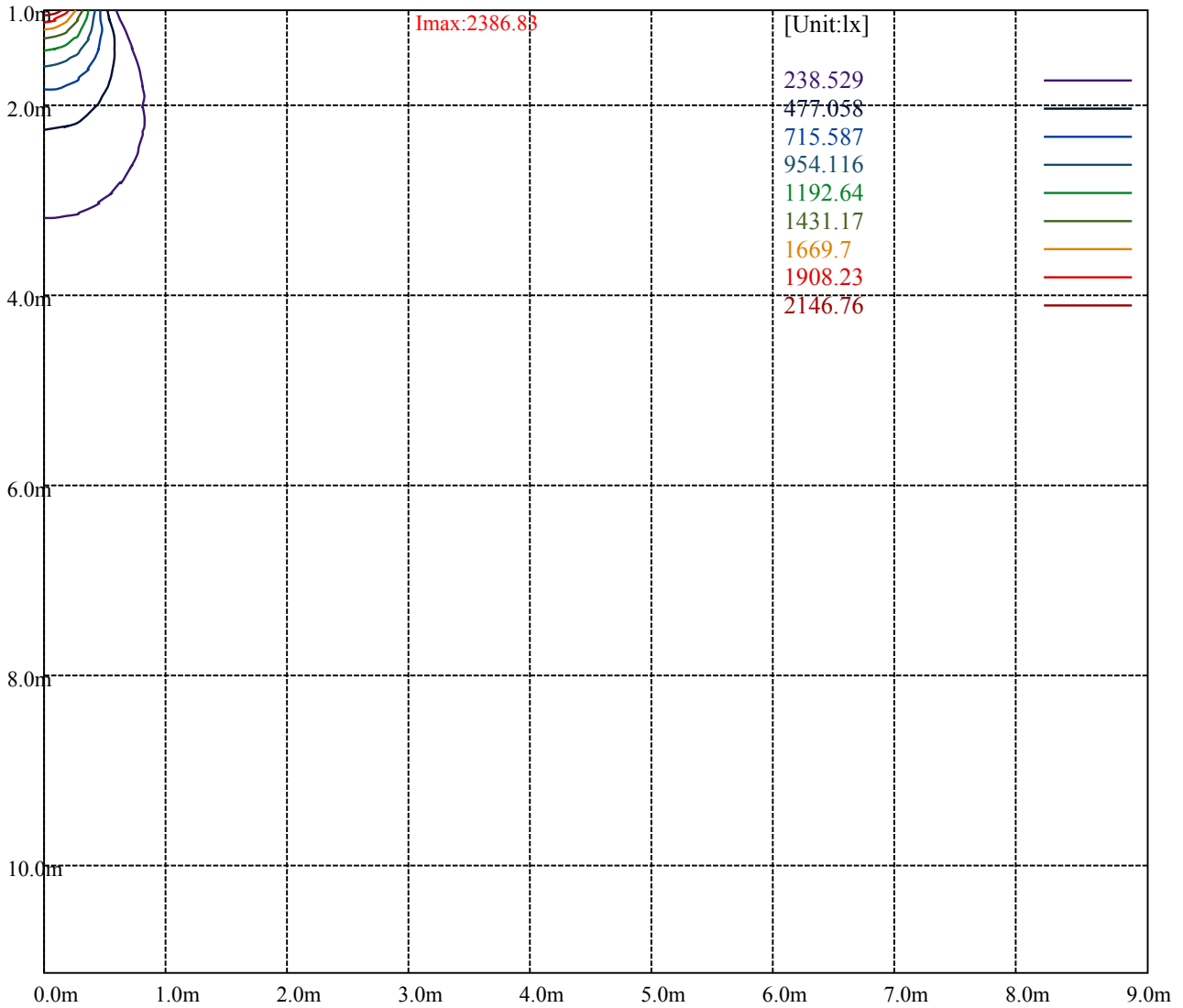
House

[Unit:cd]

Road

Imax:2386.83

(10%Imax)	238.683	—
(20%Imax)	477.365	—
(30%Imax)	716.048	—
(40%Imax)	954.73	—
(50%Imax)	1193.41	—
(60%Imax)	1432.1	—
(70%Imax)	1670.78	—
(80%Imax)	1909.46	—
(90%Imax)	2148.14	—



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

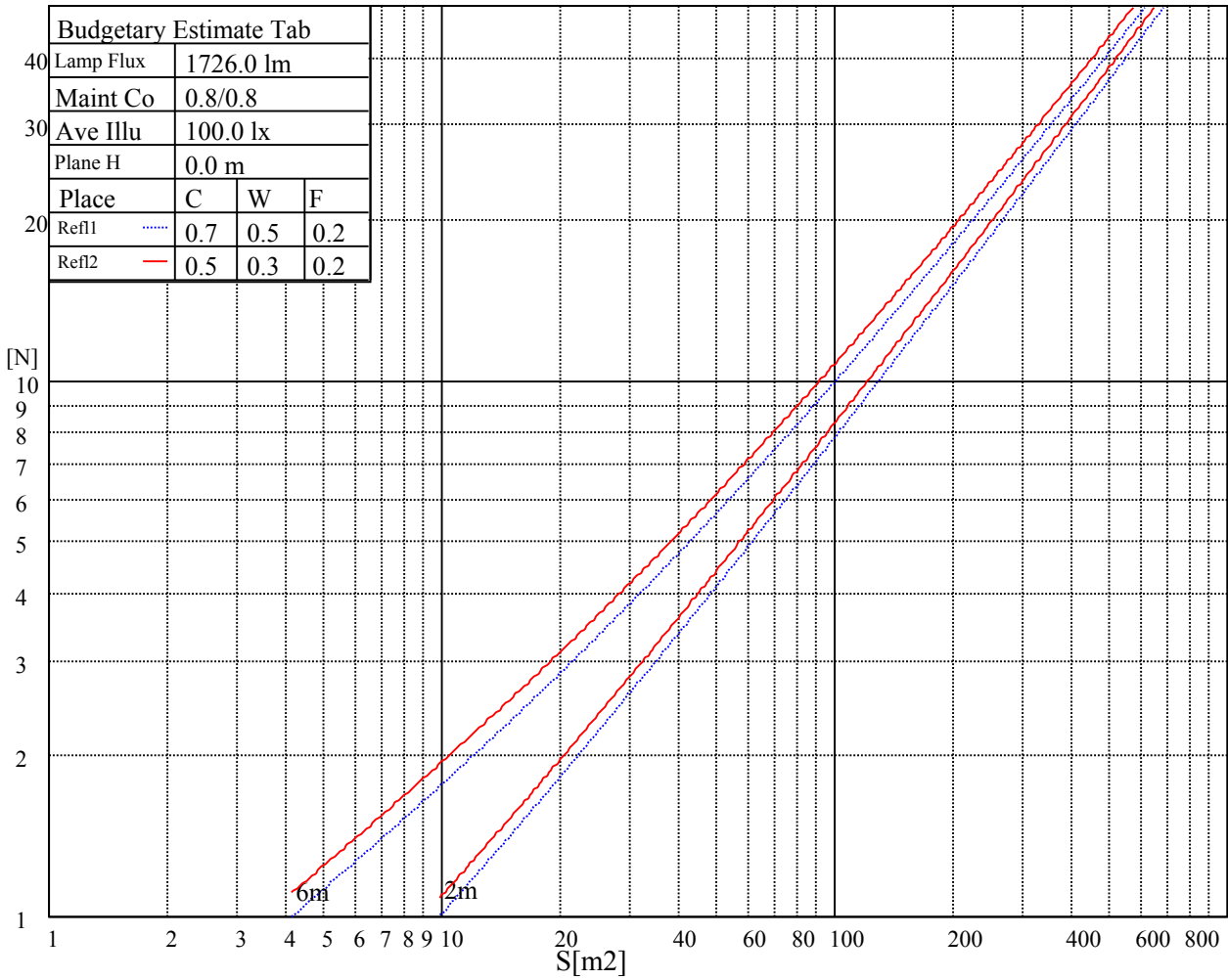
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

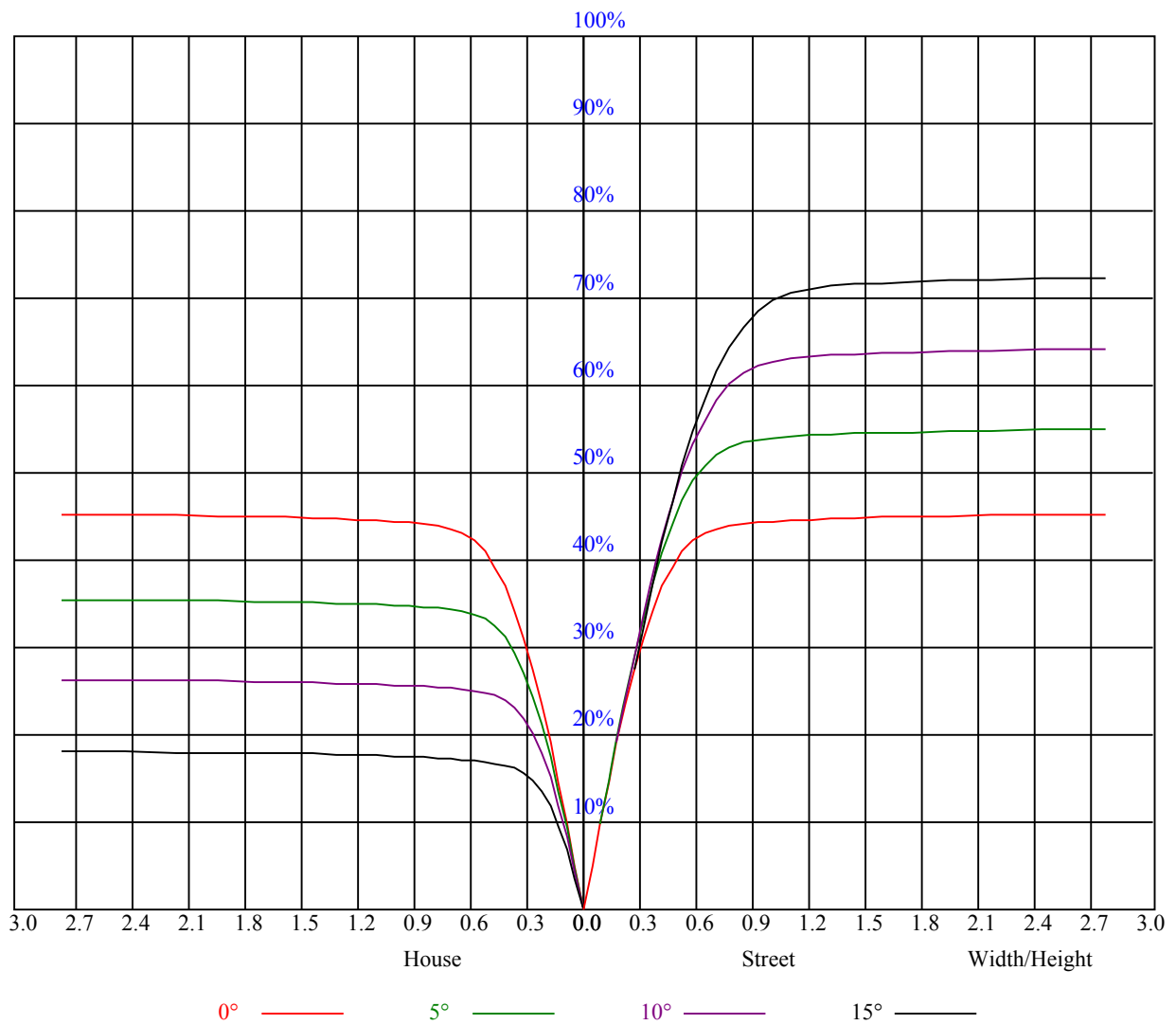


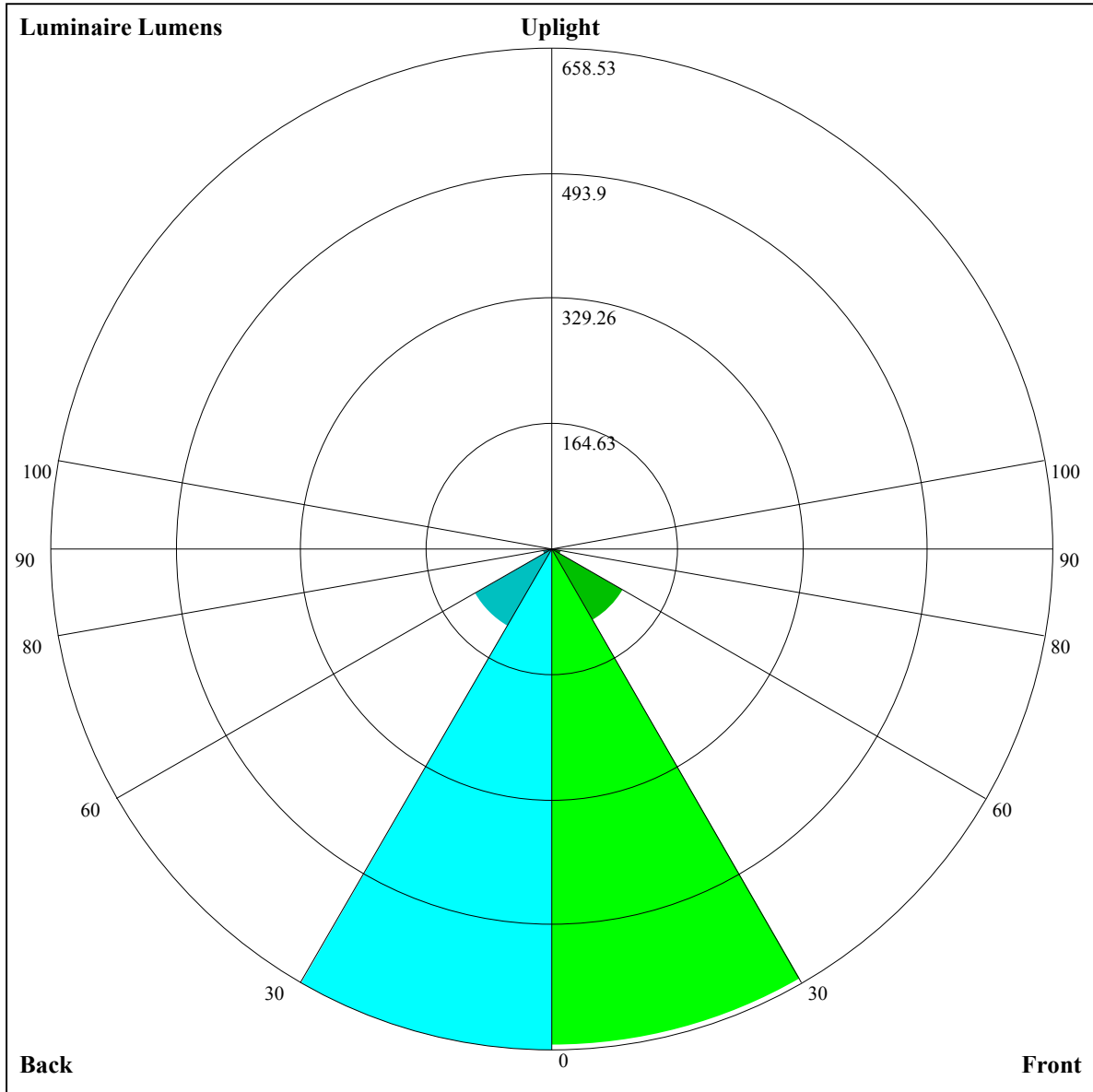
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.09	1.09	1.09	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.92	0.92	0.91	0.90	0.89	0.88	0.87	0.85
2	0.95	0.91	0.88	0.93	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.82	0.80
3	0.89	0.85	0.81	0.88	0.84	0.81	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.75
4	0.84	0.79	0.75	0.83	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.72	0.71
5	0.79	0.74	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.68	0.67
6	0.75	0.70	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.70	0.67	0.65	0.64
7	0.71	0.66	0.62	0.70	0.66	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.61	0.60
8	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.57
9	0.64	0.59	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.62	0.58	0.55	0.54
10	0.61	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.52





Luminaire Lumens:

FL=652.64,FM=108.9,FH=12.14,FVH=4.21

BL=658.53,BM=117.01,BH=12.37,BVH=4.31

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	2376.66	2374.90	2376.07	2373.15	2360.27	2353.25	2345.64	2326.91	2304.09
45.0	2386.02	2380.75	2390.70	2393.04	2388.95	2383.68	2374.32	2357.93	2340.96
90.0	2391.29	2402.99	2412.36	2408.26	2393.63	2381.34	2359.69	2330.42	2316.96
135.0	2387.19	2389.53	2401.24	2404.16	2400.07	2392.46	2376.07	2362.03	2336.86
180.0	2376.66	2380.17	2381.92	2381.34	2357.93	2347.98	2327.50	2307.02	2280.68
225.0	2386.02	2377.83	2367.88	2343.88	2323.99	2299.41	2264.88	2237.96	2216.31
270.0	2391.29	2387.19	2387.78	2383.09	2358.52	2340.37	2319.31	2297.65	2260.20
315.0	2387.19	2390.70	2376.66	2363.78	2343.88	2328.08	2301.16	2285.36	2254.35
360.0	2376.66	2374.90	2376.07	2373.15	2360.27	2353.25	2345.64	2326.91	2304.09
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2281.27	2250.25	2202.26	2156.03	2093.99	2039.57	1989.24	1933.06	1859.32
45.0	2316.96	2290.04	2250.25	2223.33	2177.10	2126.77	2084.63	2022.01	1968.17
90.0	2290.04	2256.10	2214.55	2173.58	2122.08	2060.05	2006.80	1951.20	1890.92
135.0	2299.41	2278.34	2250.25	2208.70	2173.58	2132.03	2080.53	2014.40	1963.49
180.0	2243.81	2208.70	2176.51	2149.59	2110.38	2061.22	2013.23	1962.32	1886.24
225.0	2185.29	2141.40	2099.26	2043.08	1989.24	1914.91	1865.17	1806.06	1754.56
270.0	2223.91	2176.51	2139.06	2093.41	2027.28	1975.19	1916.67	1842.35	1789.68
315.0	2218.06	2181.19	2145.49	2090.48	2034.89	1968.76	1914.91	1864.00	1812.50
360.0	2281.27	2250.25	2202.26	2156.03	2093.99	2039.57	1989.24	1933.06	1859.32
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1792.02	1719.45	1639.27	1543.88	1466.05	1388.80	1156.58	1156.58	1112.22
45.0	1893.85	1823.03	1727.06	1647.47	1562.02	1482.43	1384.70	1307.45	1220.84
90.0	1800.21	1729.98	1654.49	1555.00	1464.88	1354.27	1158.80	1158.80	1095.54
135.0	1904.38	1837.08	1756.90	1690.77	1618.21	1519.89	1433.86	1334.96	1254.20
180.0	1831.23	1758.66	1689.60	1624.06	1547.39	1450.25	1375.92	1297.50	1218.50
225.0	1696.04	1622.30	1559.68	1490.63	1420.98	1332.03	1163.31	1163.31	1103.73
270.0	1731.15	1677.31	1598.89	1536.86	1464.88	1391.72	1299.26	1221.42	1137.74
315.0	1741.69	1672.63	1602.40	1531.59	1439.13	1361.29	1154.94	1154.94	1086.00
360.0	1792.02	1719.45	1639.27	1543.88	1466.05	1388.80	1156.58	1156.58	1112.22
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1009.34	871.11	759.33	623.15	518.51	420.66	333.40	239.18	179.66
45.0	1133.05	997.28	886.67	774.90	665.46	536.71	441.90	333.05	313.15
90.0	970.30	860.46	752.60	646.09	518.22	424.46	341.07	264.17	185.28
135.0	1162.32	1054.05	909.50	796.55	683.60	577.09	451.27	358.80	297.35
180.0	1110.82	1009.57	897.79	784.26	644.98	537.30	416.74	331.88	311.98
225.0	984.11	881.41	773.32	662.65	529.45	433.18	327.61	255.80	197.34
270.0	1032.98	934.66	826.40	692.38	589.38	489.31	376.36	300.86	300.86
315.0	981.60	842.67	727.55	615.07	481.52	385.43	300.81	229.23	161.23
360.0	1009.34	871.11	759.33	623.15	518.51	420.66	333.40	239.18	179.66
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	137.29	107.27	91.35	79.01	69.82	60.34	54.37	49.10	43.60
45.0	313.15	145.02	110.20	93.23	78.01	68.82	61.39	55.13	49.63
90.0	140.69	111.90	91.06	78.65	67.30	59.87	53.78	47.11	42.43
135.0	297.35	141.33	111.02	89.54	77.78	68.47	59.40	53.43	48.05
180.0	230.17	140.10	111.78	94.75	78.65	69.12	61.21	54.48	47.64
225.0	143.67	117.10	99.55	85.85	72.80	64.67	58.11	52.55	46.64
270.0	223.91	132.09	106.57	90.59	78.13	66.13	58.64	52.38	45.94
315.0	125.47	104.11	84.80	73.39	64.43	57.29	50.04	45.24	41.14
360.0	137.29	107.27	91.35	79.01	69.82	60.34	54.37	49.10	43.60

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	39.91	36.64	33.18	30.96	28.97	26.80	25.22	23.88	22.59
45.0	43.72	39.80	36.40	33.47	30.61	28.68	26.63	25.16	23.88
90.0	38.16	34.59	31.02	28.79	26.98	25.22	23.47	22.24	21.13
135.0	43.54	38.68	35.46	32.60	30.14	27.68	25.87	24.40	22.82
180.0	43.01	39.33	36.05	32.54	30.31	28.38	26.28	24.76	23.06
225.0	42.78	39.62	35.93	33.47	31.31	28.91	27.15	25.16	23.76
270.0	41.61	36.81	33.65	30.90	28.62	26.22	24.52	23.06	21.89
315.0	36.75	33.71	30.43	28.44	26.63	24.99	23.12	21.89	20.78
360.0	39.91	36.64	33.18	30.96	28.97	26.80	25.22	23.88	22.59
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	21.13	20.01	19.02	18.14	17.26	16.62	16.04	15.45	14.98
45.0	22.41	21.48	20.60	19.61	18.90	18.20	17.50	16.62	15.98
90.0	19.96	19.08	18.32	17.50	16.85	16.33	15.68	15.22	14.75
135.0	21.59	20.25	19.20	18.26	17.32	16.68	16.09	15.57	15.04
180.0	21.83	20.72	19.78	18.73	18.02	17.38	16.80	16.15	15.74
225.0	22.41	21.13	19.72	18.79	17.91	17.21	16.39	15.80	15.27
270.0	20.60	19.61	18.61	17.50	16.74	16.15	15.39	14.92	14.51
315.0	19.66	18.67	17.56	16.80	16.15	15.45	14.98	14.46	14.05
360.0	21.13	20.01	19.02	18.14	17.26	16.62	16.04	15.45	14.98
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.46	14.05	13.69	13.34	12.87	12.58	12.23	11.94	11.53
45.0	15.33	14.81	14.22	13.81	13.34	12.93	12.52	12.06	11.70
90.0	14.34	13.81	13.46	13.11	12.76	12.35	12.06	11.70	11.35
135.0	14.51	14.16	13.81	13.40	12.99	12.64	12.23	11.94	11.65
180.0	15.33	14.81	14.46	14.05	13.69	13.40	13.05	12.70	12.41
225.0	14.81	14.22	13.75	13.17	12.76	12.47	12.00	11.70	11.35
270.0	14.05	13.69	13.28	12.87	12.52	12.23	11.94	11.59	11.29
315.0	13.69	13.28	12.93	12.58	12.23	11.88	11.59	11.24	11.00
360.0	14.46	14.05	13.69	13.34	12.87	12.58	12.23	11.94	11.53
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.24	10.94	10.59	10.36	10.07	9.71	9.48	9.19	8.90
45.0	11.41	11.12	10.71	10.48	10.18	9.89	9.60	9.31	9.07
90.0	11.06	10.71	10.42	10.12	9.89	9.54	9.25	9.01	8.78
135.0	11.29	11.06	10.65	10.42	10.12	9.89	9.66	9.36	9.13
180.0	12.11	11.76	11.47	11.24	10.94	10.59	10.36	10.12	9.89
225.0	11.06	10.71	10.42	10.12	9.89	9.54	9.31	9.01	8.72
270.0	11.00	10.77	10.42	10.12	9.83	9.60	9.36	9.07	8.78
315.0	10.65	10.36	10.12	9.77	9.54	9.31	9.01	8.78	8.49
360.0	11.24	10.94	10.59	10.36	10.07	9.71	9.48	9.19	8.90
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.66	8.43	8.19	7.96	7.78	7.55	7.37	7.26	6.91
45.0	8.72	8.54	8.19	7.96	7.72	7.55	7.32	7.20	7.02
90.0	8.43	8.19	7.90	7.72	7.55	7.32	7.14	7.02	6.85
135.0	8.90	8.54	8.25	8.02	7.78	7.61	7.43	7.26	7.14
180.0	9.54	9.31	9.07	8.78	8.54	8.31	8.19	8.08	7.72
225.0	8.49	8.25	8.08	7.84	7.61	7.49	7.32	7.20	7.02
270.0	8.54	8.31	8.08	7.84	7.67	7.43	7.32	7.14	7.02
315.0	8.25	8.13	7.84	7.67	7.49	7.32	7.14	7.02	6.85
360.0	8.66	8.43	8.19	7.96	7.78	7.55	7.37	7.26	6.91

Intensity data(cd)

C/γ(°)	90.0
0.0	6.91
45.0	6.91
90.0	6.85
135.0	6.91
180.0	6.96
225.0	6.91
270.0	6.91
315.0	6.85
360.0	6.91