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NT

Client:

LumCAT: 62-0029透镜

Luminaire: 92.70.410.00 Hodel

Report No: 2024506-B012

Ballast type: AC

Test No: 2024506-C012

Voltage(V): 34.870

LampCAT: LUMILEDS 1203

Current(A): 0.281

Lamp flux(lm): 1231.8

Power (W): 9.798

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1140.47, Efficiency(%): 92.59% , Luminous Efficacy(lm/W): 116.40

Central intensity(cd): 4420.117, Maximum intensity(cd): 4420.117

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=26.8

[C90/270]Total=26.8

Field angle(10%Imax): [C0/180]Total=46.0

[C90/270]Total=46.0

Maximum s/h(1/2): C0_180=0.45 C90_270=0.45

Maximum s/h(1/4): C0_180=0.44 C90_270=0.44

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.59%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 95.650%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/5/6
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	4420.117	0.000	0	0.00%	0.00%
1.0	4406.949	4.224	4.224	0.34%	0.37%
2.0	4365.179	12.591	16.814	1.02%	1.47%
3.0	4297.805	20.719	37.533	1.68%	3.29%
4.0	4191.147	28.415	65.948	2.31%	5.78%
5.0	4064.227	35.514	101.463	2.88%	8.90%
6.0	3904.314	41.877	143.339	3.40%	12.57%
7.0	3727.795	47.372	190.712	3.85%	16.72%
8.0	3518.065	51.857	242.569	4.21%	21.27%
9.0	3289.974	55.175	297.744	4.48%	26.11%
10.0	3048.861	57.364	355.109	4.66%	31.14%
11.0	2817.697	58.619	413.728	4.76%	36.28%
12.0	2559.247	58.778	472.505	4.77%	41.43%
13.0	2299.993	57.667	530.172	4.68%	46.49%
14.0	2053.247	55.721	585.893	4.52%	51.37%
15.0	1775.726	52.566	638.459	4.27%	55.98%
16.0	1543.977	48.643	687.102	3.95%	60.25%
17.0	1295.366	44.216	731.318	3.59%	64.12%
18.0	1175.936	40.746	772.065	3.31%	67.70%
19.0	1012.052	38.067	810.131	3.09%	71.03%
20.0	846.433	34.015	844.147	2.76%	74.02%
21.0	693.872	29.577	873.724	2.40%	76.61%
22.0	550.426	25.005	898.728	2.03%	78.80%
23.0	439.328	20.768	919.496	1.69%	80.62%
24.0	341.369	17.069	936.565	1.39%	82.12%
25.0	276.460	14.048	950.613	1.14%	83.35%
26.0	245.502	12.321	962.934	1.00%	84.43%
27.0	176.409	10.322	973.256	0.84%	85.34%
28.0	133.051	7.835	981.091	0.64%	86.03%
29.0	109.386	6.343	987.434	0.51%	86.58%
30.0	93.000	5.464	992.898	0.44%	87.06%
31.0	80.593	4.831	997.729	0.39%	87.48%
32.0	72.012	4.372	1002.101	0.35%	87.87%
33.0	65.574	4.053	1006.154	0.33%	88.22%
34.0	60.373	3.812	1009.966	0.31%	88.56%
35.0	56.160	3.619	1013.585	0.29%	88.87%
36.0	53.234	3.483	1017.068	0.28%	89.18%
37.0	51.441	3.414	1020.482	0.28%	89.48%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	50.637	3.407	1023.889	0.28%	89.78%
39.0	50.242	3.443	1027.332	0.28%	90.08%
40.0	49.554	3.481	1030.813	0.28%	90.39%
41.0	48.362	3.487	1034.3	0.28%	90.69%
42.0	47.264	3.474	1037.774	0.28%	91.00%
43.0	46.386	3.469	1041.243	0.28%	91.30%
44.0	45.450	3.466	1044.709	0.28%	91.60%
45.0	44.382	3.452	1048.162	0.28%	91.91%
46.0	43.073	3.420	1051.582	0.28%	92.21%
47.0	41.741	3.373	1054.955	0.27%	92.50%
48.0	40.146	3.310	1058.265	0.27%	92.79%
49.0	38.464	3.228	1061.493	0.26%	93.08%
50.0	36.781	3.137	1064.631	0.25%	93.35%
51.0	35.128	3.042	1067.673	0.25%	93.62%
52.0	33.504	2.945	1070.618	0.24%	93.88%
53.0	31.887	2.845	1073.463	0.23%	94.12%
54.0	30.402	2.745	1076.208	0.22%	94.37%
55.0	28.874	2.646	1078.854	0.21%	94.60%
56.0	27.506	2.548	1081.402	0.21%	94.82%
57.0	26.379	2.464	1083.865	0.20%	95.04%
58.0	25.940	2.419	1086.285	0.20%	95.25%
59.0	24.506	2.358	1088.643	0.19%	95.46%
60.0	22.341	2.213	1090.857	0.18%	95.65%
61.0	20.871	2.062	1092.919	0.17%	95.83%
62.0	19.525	1.946	1094.865	0.16%	96.00%
63.0	18.413	1.845	1096.71	0.15%	96.16%
64.0	17.447	1.760	1098.47	0.14%	96.32%
65.0	16.562	1.683	1100.153	0.14%	96.46%
66.0	15.779	1.614	1101.767	0.13%	96.61%
67.0	15.099	1.553	1103.319	0.13%	96.74%
68.0	14.455	1.497	1104.816	0.12%	96.87%
69.0	13.877	1.445	1106.262	0.12%	97.00%
70.0	13.438	1.403	1107.664	0.11%	97.12%
71.0	13.051	1.369	1109.034	0.11%	97.24%
72.0	12.963	1.353	1110.386	0.11%	97.36%
73.0	13.124	1.364	1111.75	0.11%	97.48%
74.0	13.416	1.395	1113.146	0.11%	97.60%
75.0	13.702	1.433	1114.578	0.12%	97.73%

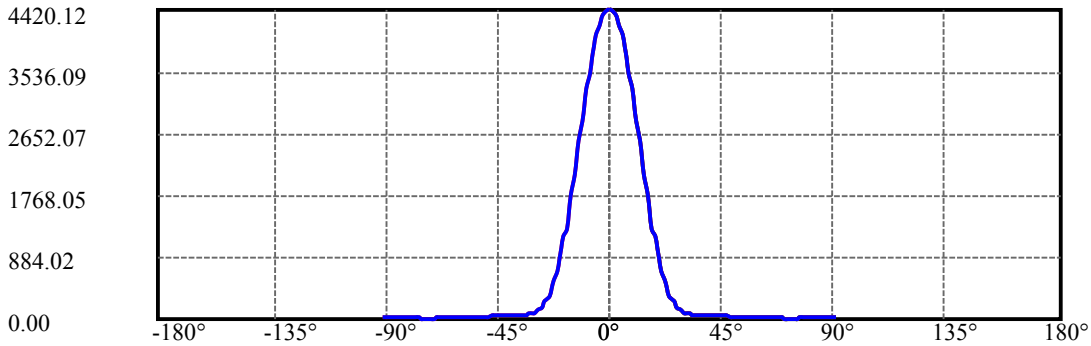
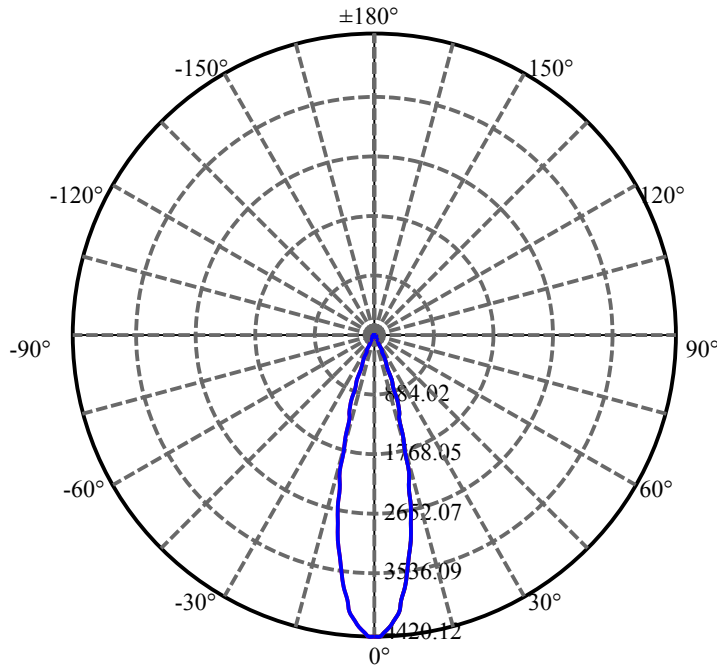
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.228	1.483	1116.061	0.12%	97.86%
77.0	15.143	1.566	1117.627	0.13%	98.00%
78.0	16.181	1.677	1119.304	0.14%	98.14%
79.0	16.942	1.780	1121.083	0.14%	98.30%
80.0	16.306	1.792	1122.876	0.15%	98.46%
81.0	15.289	1.709	1124.585	0.14%	98.61%
82.0	15.472	1.668	1126.253	0.14%	98.75%
83.0	16.262	1.725	1127.978	0.14%	98.90%
84.0	17.008	1.812	1129.79	0.15%	99.06%
85.0	18.010	1.911	1131.701	0.16%	99.23%
86.0	17.549	1.944	1133.645	0.16%	99.40%
87.0	16.181	1.846	1135.491	0.15%	99.56%
88.0	15.538	1.738	1137.229	0.14%	99.72%
89.0	14.696	1.657	1138.886	0.13%	99.86%
90.0	14.170	1.583	1140.469	0.13%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	992.90	80.61%	87.06%
0-40	1030.81	83.68%	90.39%
0-60	1090.86	88.56%	95.65%
0-90	1138.89	92.46%	99.86%
0-120	1138.89	92.46%	99.86%
0-180	1140.47	92.59%	100.00%
60-90	48.03	3.90%	4.21%
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%
0-22.66	912.37	74.07%	80.00%

ZONAL LUMEN SUMMARY

0-10	355.11
10-20	489.04
20-30	148.75
30-40	37.91
40-50	33.82
50-60	26.23
60-70	16.81
70-80	15.21
80-90	16.01
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



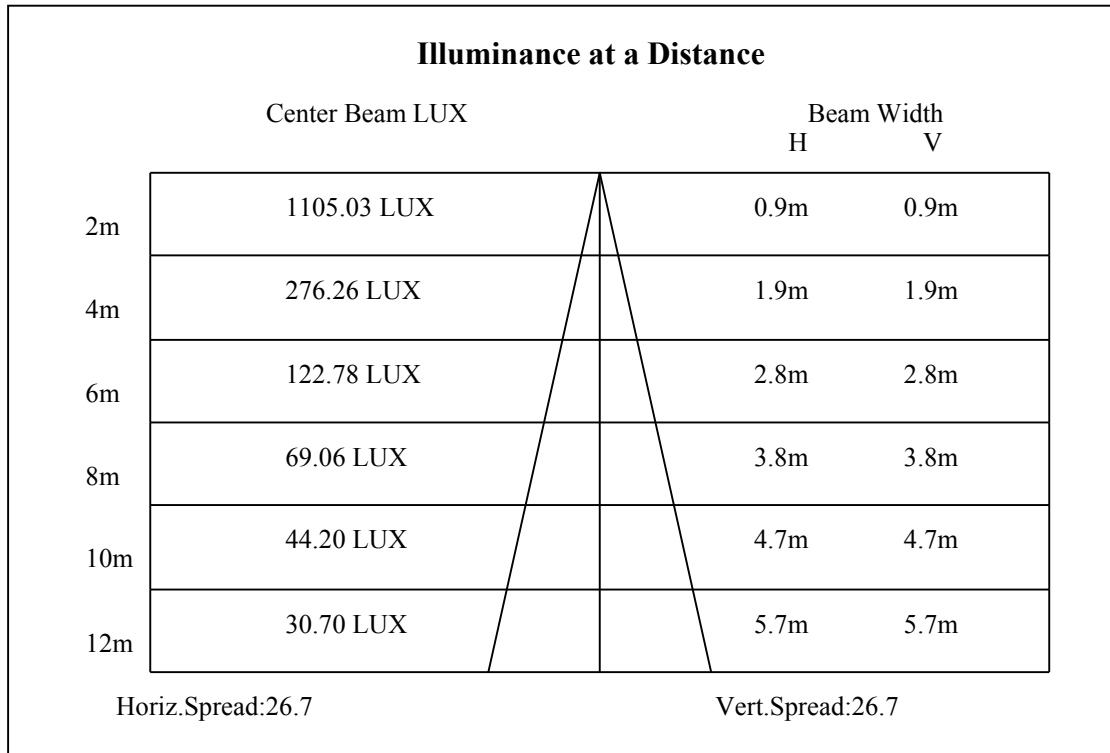
C0(Max): —————

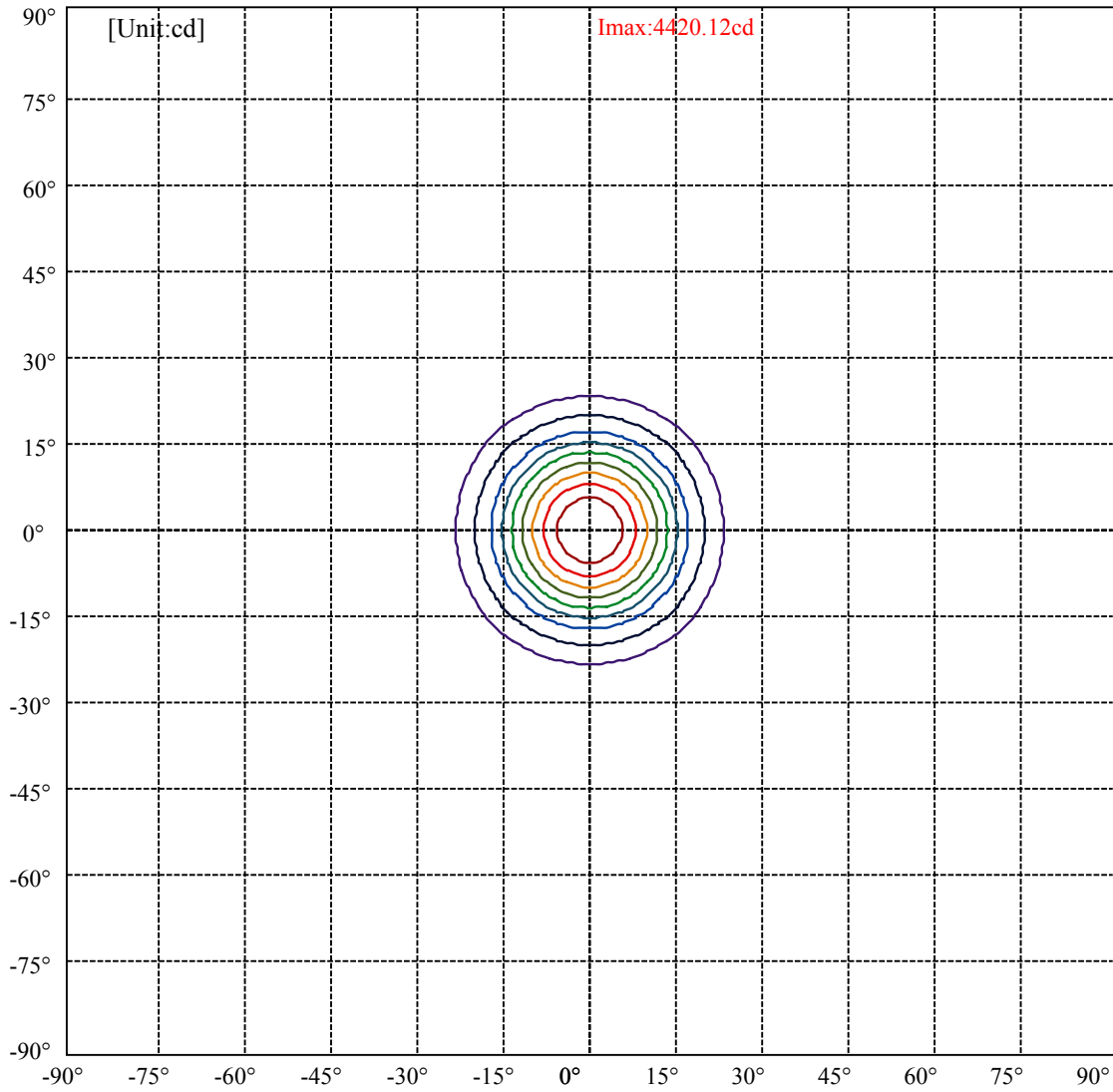
C0/C180: —————

C90/C270: —————

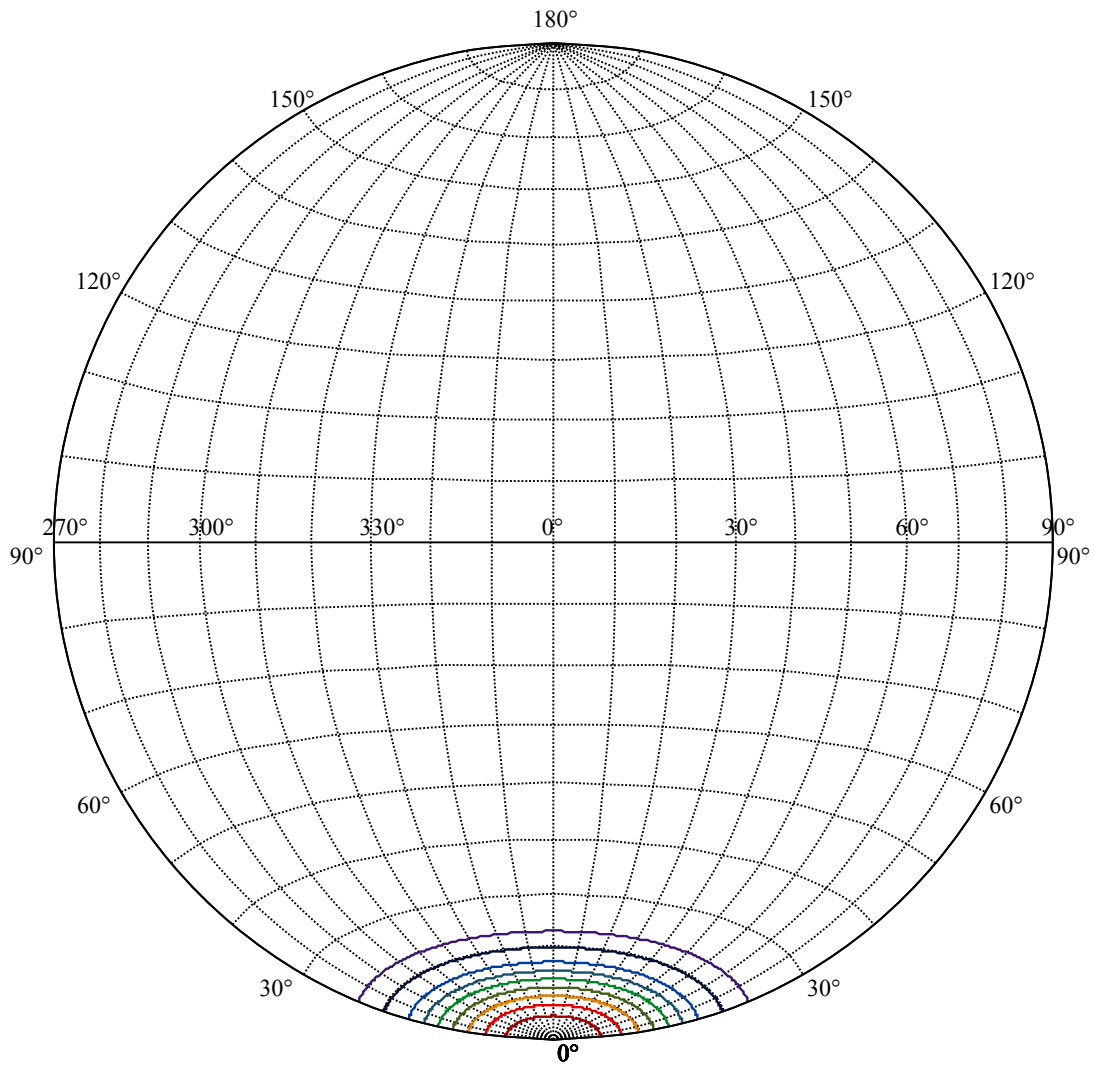
Field angle(10%Imax):C0/180Left:23.0 Right:23.0
:C90/270Left:23.0 Right:23.0

Beam Angle(50%Imax):C0/180Left:13.4 Right:13.4
:C90/270Left:13.4 Right:13.4





(10%Imax) 442.012	———
(20%Imax) 884.023	———
(30%Imax) 1326.04	———
(40%Imax) 1768.05	———
(50%Imax) 2210.06	———
(60%Imax) 2652.07	———
(70%Imax) 3094.08	———
(80%Imax) 3536.09	———
(90%Imax) 3978.1	———



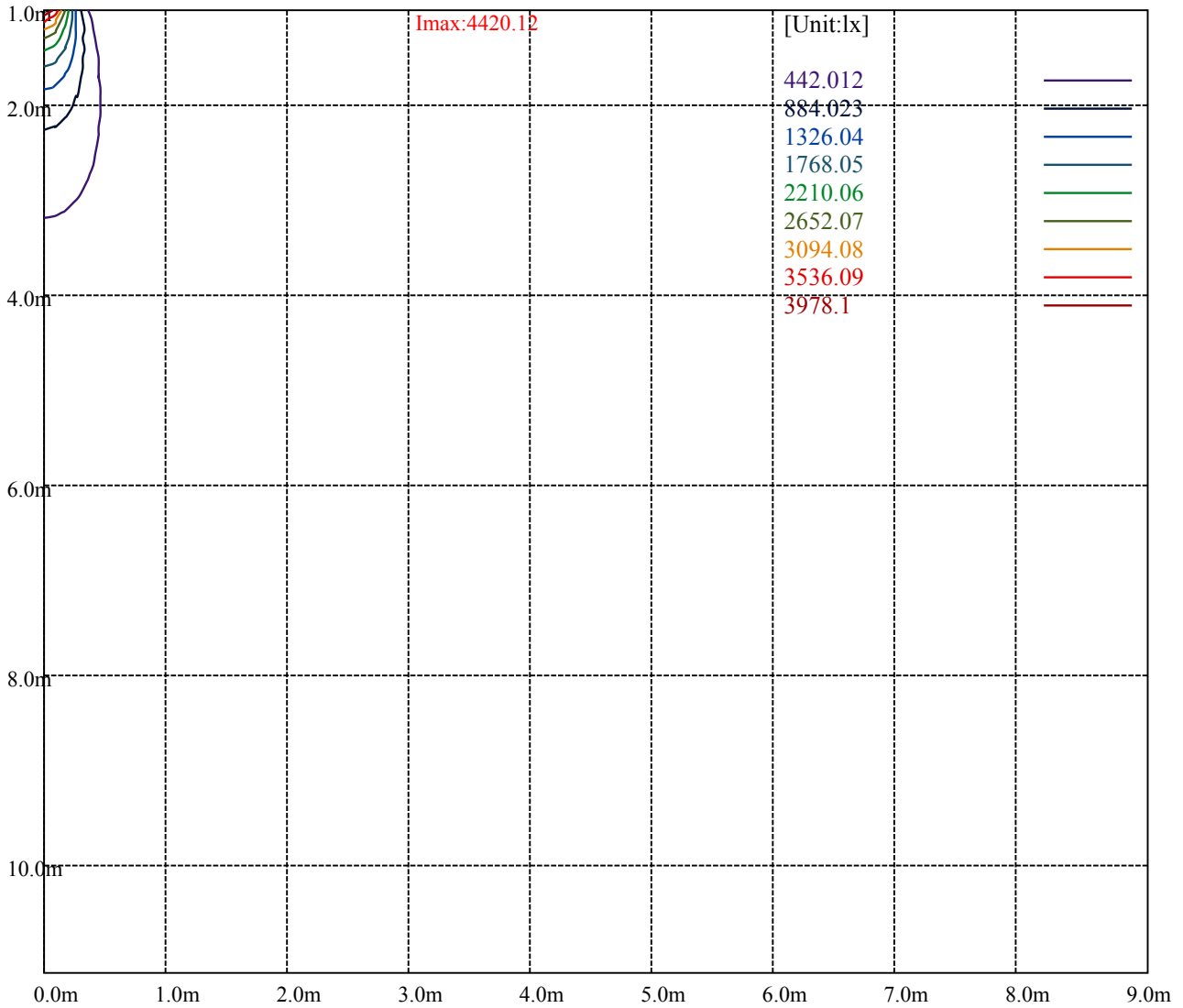
House

[Unit:cd]

Road

Imax:4420.12

(10%Imax)	442.012	—
(20%Imax)	884.023	—
(30%Imax)	1326.04	—
(40%Imax)	1768.05	—
(50%Imax)	2210.06	—
(60%Imax)	2652.07	—
(70%Imax)	3094.08	—
(80%Imax)	3536.09	—
(90%Imax)	3978.1	—



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

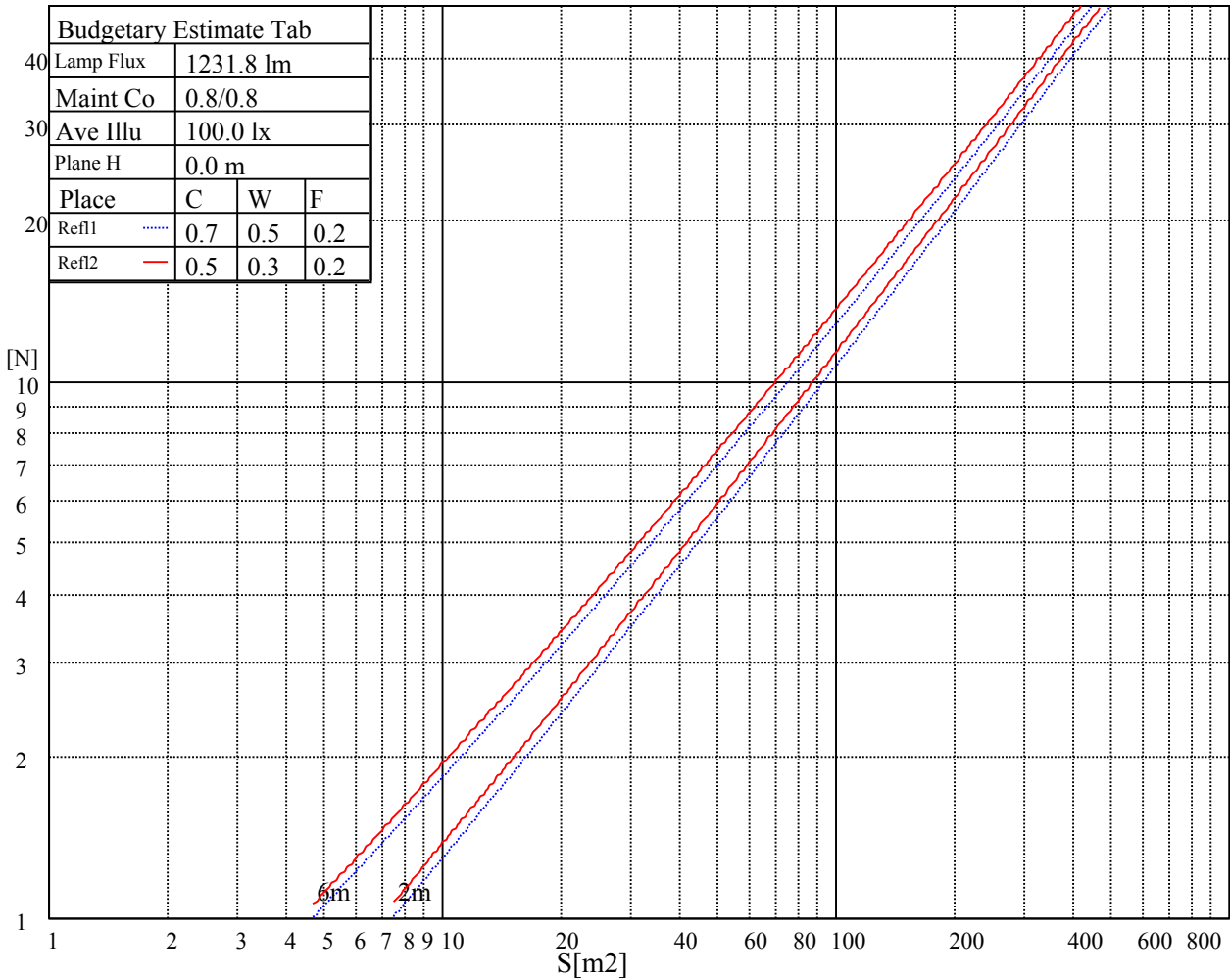
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

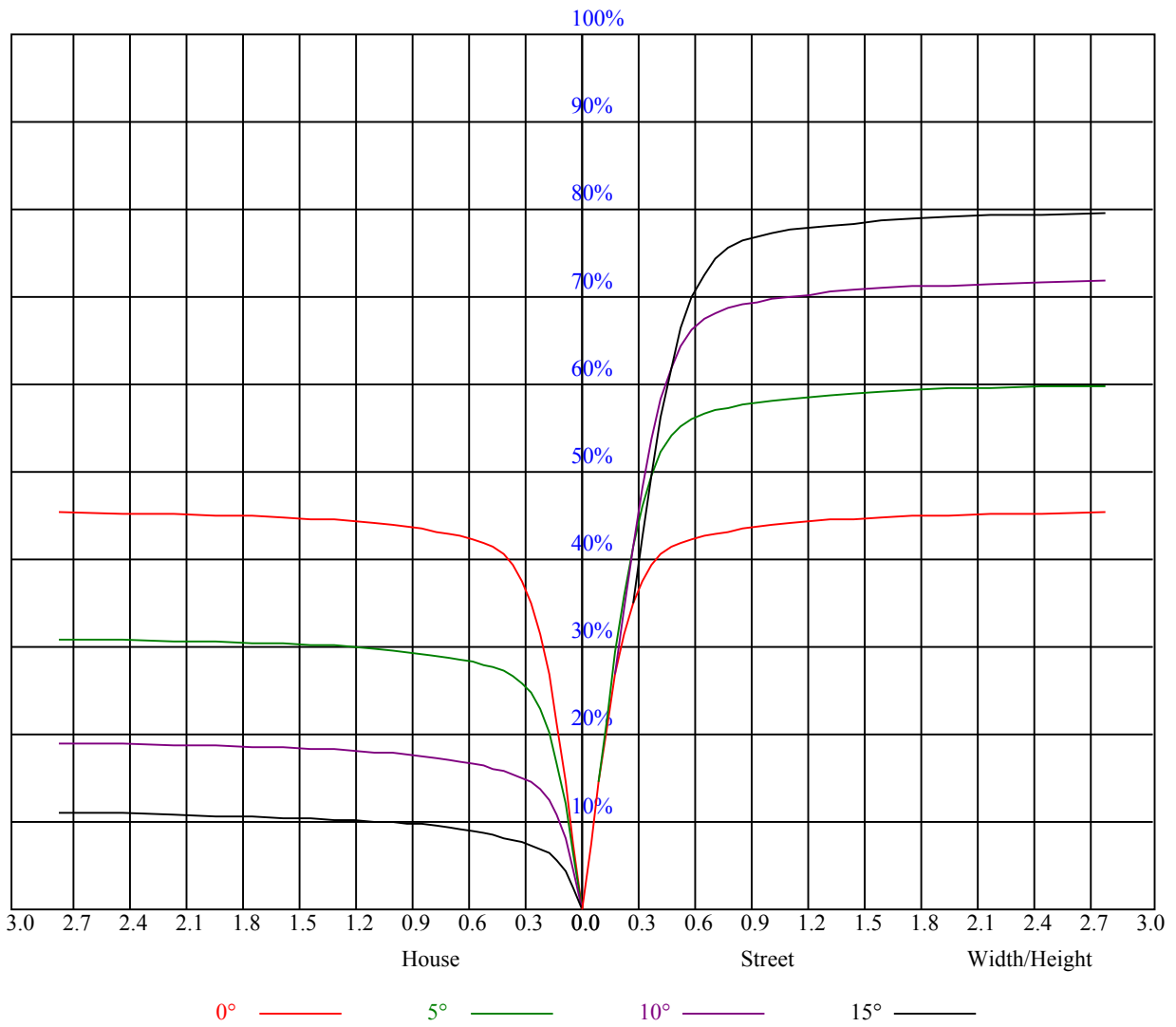
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

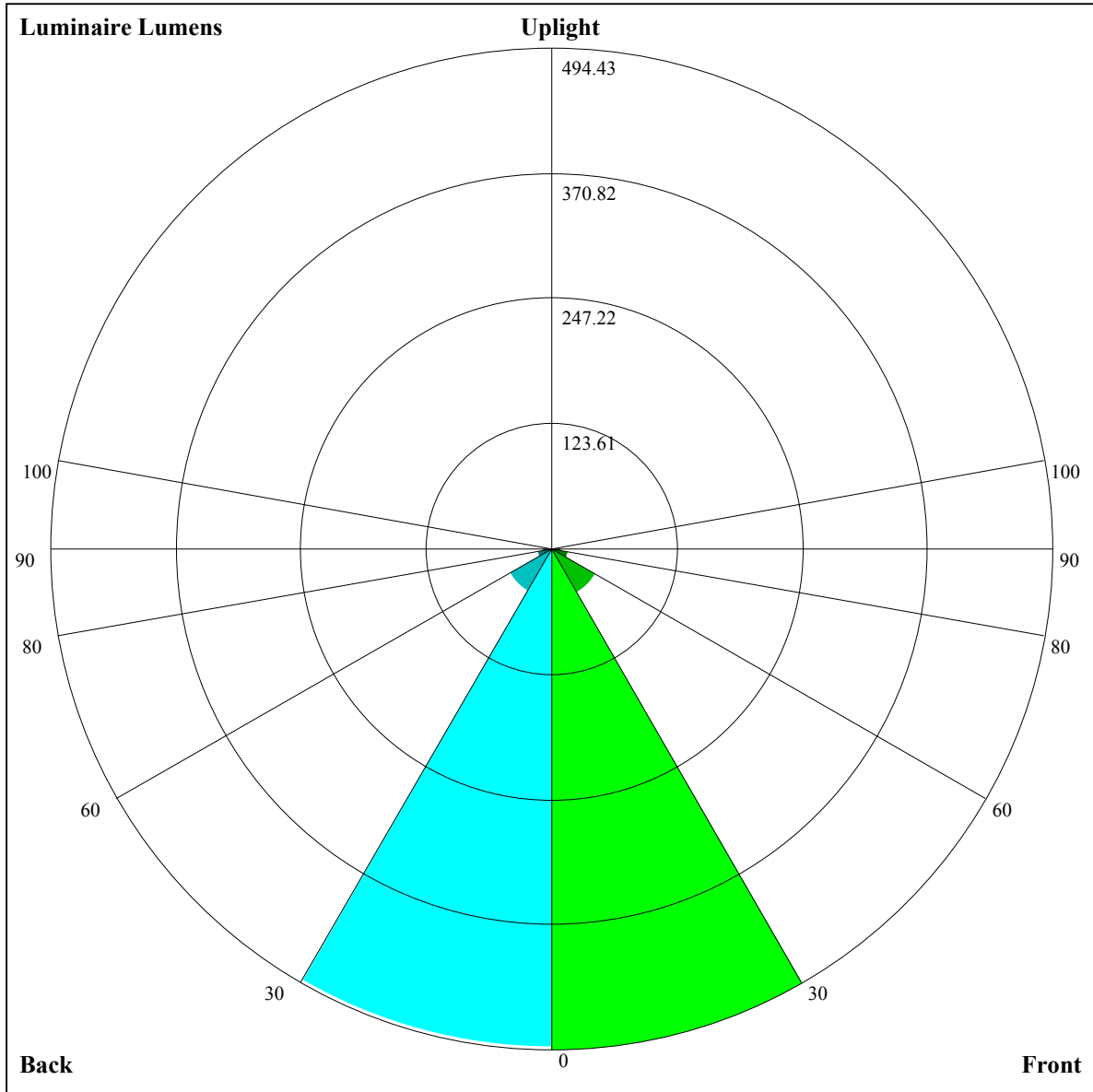
Luminance Limiting Curve





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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.93
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.95	0.94	0.94	0.92	0.91	0.90	0.89	0.89	0.87
2	0.97	0.94	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.84	0.83
3	0.92	0.88	0.85	0.91	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.84	0.82	0.80	0.79
4	0.88	0.84	0.80	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.76
5	0.84	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.73
6	0.81	0.77	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
7	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.72	0.69	0.68
8	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
9	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.64
10	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.63	0.62





Luminaire Lumens:

FL=494.43,FM=49.38,FH=16.48,FVH=8.75

BL=492.27,BM=47.62,BH=14.78,BVH=8.75

UL=0,UH=0

BUG Rating:B1-U0-G0

NT 62-0029透镜

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	4427.29	4398.61	4347.11	4264.59	4110.09	3947.40	3770.66	3577.54	3376.81
45.0	4419.09	4411.48	4388.08	4325.46	4228.89	4091.95	3920.48	3722.67	3465.18
90.0	4403.29	4370.52	4271.03	4156.91	4003.58	3826.26	3582.22	3370.95	3145.64
135.0	4430.80	4404.46	4359.98	4282.74	4143.45	4010.61	3860.20	3688.15	3438.26
180.0	4427.29	4419.68	4383.98	4335.99	4262.84	4142.87	4028.16	3885.37	3713.90
225.0	4419.09	4403.29	4363.50	4310.83	4210.17	4118.29	3991.29	3789.98	3603.87
270.0	4403.29	4427.29	4420.85	4390.42	4346.52	4273.37	4159.25	4034.60	3837.96
315.0	4430.80	4420.26	4386.91	4315.51	4223.63	4103.07	3922.24	3753.11	3562.91
360.0	4427.29	4398.61	4347.11	4264.59	4110.09	3947.40	3770.66	3577.54	3376.81
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3120.48	2908.63	2687.41	2463.27	2182.95	1960.56	1701.31	1510.52	1144.23
45.0	3258.01	2987.63	2767.59	2538.18	2266.05	2048.93	1835.32	1584.85	1405.18
90.0	2852.45	2617.77	2379.58	2098.68	1882.14	1679.65	1142.59	1142.59	1105.72
135.0	3217.63	2987.63	2749.45	2453.32	2217.48	1995.68	1737.59	1540.96	1314.47
180.0	3468.10	3254.49	3026.84	2783.97	2463.27	2210.45	1978.12	1713.01	1488.29
225.0	3390.27	3102.92	2847.76	2588.51	2331.01	2023.77	1788.51	1389.97	1142.48
270.0	3658.89	3448.20	3219.97	2910.97	2649.37	2386.61	2127.35	1839.42	1602.99
315.0	3353.98	3083.61	2862.98	2637.08	2407.67	2120.33	1895.02	1630.50	1159.56
360.0	3120.48	2908.63	2687.41	2463.27	2182.95	1960.56	1701.31	1510.52	1144.23
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1144.23	997.87	857.88	694.37	575.69	466.19	372.14	277.98	221.04
45.0	1248.34	1106.13	934.66	804.74	679.50	565.97	438.39	349.44	311.40
90.0	963.46	796.84	671.08	553.27	446.06	333.17	262.82	209.45	168.31
135.0	1147.10	988.50	835.17	657.85	532.61	423.18	333.64	295.60	295.60
180.0	1251.27	1066.92	892.53	732.17	561.87	447.76	352.95	295.60	295.60
225.0	1095.37	914.00	749.50	602.84	451.33	354.88	264.70	211.09	168.84
270.0	1398.16	1152.37	960.41	785.43	601.08	480.53	358.22	300.28	300.28
315.0	1159.56	1073.77	870.23	720.29	555.26	442.96	348.09	272.25	202.96
360.0	1144.23	997.87	857.88	694.37	575.69	466.19	372.14	277.98	221.04
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	180.60	153.80	123.54	103.99	91.35	82.11	75.14	69.06	60.40
45.0	311.40	162.17	135.42	110.08	93.87	82.52	72.57	65.72	61.04
90.0	130.68	109.55	89.42	77.19	65.84	59.28	54.31	50.21	46.76
135.0	152.74	123.72	99.14	85.68	74.32	67.42	60.98	55.36	52.49
180.0	167.73	137.88	111.13	96.27	85.91	75.26	68.35	63.85	59.40
225.0	130.62	109.03	94.10	83.57	72.92	67.30	62.85	59.63	57.18
270.0	173.69	132.85	109.44	92.06	79.82	69.64	64.02	59.52	56.18
315.0	163.80	135.42	112.89	95.16	80.70	72.57	66.36	59.63	55.83
360.0	180.60	153.80	123.54	103.99	91.35	82.11	75.14	69.06	60.40
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	55.89	54.07	55.42	55.36	52.14	48.98	46.88	46.41	46.00
45.0	56.06	50.74	49.04	49.51	49.51	46.64	44.71	43.83	43.54
90.0	44.71	43.66	43.19	42.96	42.96	42.96	42.90	42.31	41.73
135.0	50.62	49.33	48.34	47.87	47.70	47.52	47.23	46.70	46.06
180.0	57.64	56.77	55.01	54.19	53.37	52.38	51.03	49.69	48.05
225.0	55.89	55.01	54.31	53.78	53.02	51.56	50.21	48.46	46.06
270.0	52.73	50.86	49.63	48.92	48.81	48.63	48.11	47.52	46.70
315.0	52.32	51.09	50.15	49.33	48.92	48.22	47.05	46.17	45.47
360.0	55.89	54.07	55.42	55.36	52.14	48.98	46.88	46.41	46.00

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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	45.47	44.77	44.07	43.31	41.90	40.56	38.80	37.45	36.11
45.0	43.37	42.90	42.25	41.55	40.44	39.09	37.69	36.28	34.65
90.0	41.08	39.97	38.98	37.40	36.05	34.59	33.24	31.31	29.73
135.0	44.83	43.42	41.96	39.85	38.04	35.82	34.06	32.71	31.43
180.0	46.35	44.07	42.19	40.50	38.27	36.58	34.82	32.95	31.49
225.0	44.07	42.08	40.20	37.81	35.93	34.18	32.13	30.49	29.03
270.0	45.12	43.66	41.79	39.91	37.75	36.23	34.70	32.89	30.72
315.0	44.77	43.72	42.49	40.85	39.33	37.22	35.58	33.94	31.95
360.0	45.47	44.77	44.07	43.31	41.90	40.56	38.80	37.45	36.11
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	34.76	32.89	31.49	30.72	33.36	30.20	26.92	24.40	22.53
45.0	33.24	31.78	30.61	30.31	32.36	32.01	25.69	22.94	21.07
90.0	28.44	27.15	25.52	24.11	22.65	21.01	19.72	18.73	17.44
135.0	29.96	28.44	27.04	25.63	23.94	22.53	21.30	20.19	18.84
180.0	30.02	28.32	27.04	25.81	24.70	23.47	22.18	21.19	20.13
225.0	27.33	26.10	24.93	23.58	22.53	21.42	20.19	19.20	18.32
270.0	29.14	27.51	26.34	25.11	23.47	22.12	21.01	19.84	18.67
315.0	30.31	28.79	27.10	25.75	24.52	23.29	21.71	20.48	19.20
360.0	34.76	32.89	31.49	30.72	33.36	30.20	26.92	24.40	22.53
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.78	19.72	18.67	17.79	17.03	16.21	15.63	15.22	14.75
45.0	19.43	18.32	17.44	16.44	15.74	15.10	14.40	13.75	13.28
90.0	16.62	15.80	14.81	14.16	13.64	13.05	12.52	12.11	11.88
135.0	17.85	16.85	16.04	15.39	14.57	13.93	13.40	12.93	12.41
180.0	19.25	18.32	17.38	16.74	16.15	15.57	14.98	14.63	14.28
225.0	17.50	16.56	15.86	15.27	14.69	14.05	13.64	13.28	12.87
270.0	17.73	16.97	16.15	15.22	14.46	13.87	13.23	12.82	12.52
315.0	18.14	17.03	16.15	15.22	14.51	13.87	13.23	12.76	12.41
360.0	20.78	19.72	18.67	17.79	17.03	16.21	15.63	15.22	14.75
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.74	17.56	19.43	21.48	23.06	24.64	26.45	26.86	23.41
45.0	13.64	15.04	17.15	18.14	19.14	20.13	21.13	23.06	22.71
90.0	11.65	11.29	11.06	10.83	10.83	11.82	12.47	12.47	12.87
135.0	12.00	11.70	11.35	11.12	11.00	11.82	13.23	13.28	13.23
180.0	13.99	13.64	13.34	13.17	13.23	14.16	14.63	16.21	16.09
225.0	12.58	12.29	12.06	11.94	12.52	13.17	13.81	14.63	13.93
270.0	12.17	11.88	11.59	11.41	11.24	11.29	11.65	12.52	12.87
315.0	11.94	11.59	11.35	11.53	12.82	14.10	16.09	16.50	15.33
360.0	15.74	17.56	19.43	21.48	23.06	24.64	26.45	26.86	23.41
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	16.97	16.15	17.15	18.20	20.13	16.44	15.92	15.10	14.57
45.0	20.66	17.56	15.57	15.33	16.91	17.26	14.92	14.57	13.75
90.0	13.52	14.05	14.92	16.15	17.15	14.69	14.10	13.46	12.58
135.0	13.64	14.57	16.21	16.44	17.15	18.08	15.63	15.10	14.40
180.0	15.22	16.50	17.85	18.43	18.55	20.31	18.43	17.44	16.50
225.0	15.22	16.39	17.26	18.08	18.96	18.61	17.85	17.15	16.09
270.0	13.40	14.34	15.68	16.85	18.20	19.20	17.15	16.50	15.63
315.0	13.69	14.22	15.45	16.56	17.03	15.80	15.45	14.98	14.05
360.0	16.97	16.15	17.15	18.20	20.13	16.44	15.92	15.10	14.57

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Appendix Page: 19 Total:19

Intensity data(cd)

C/γ(°)	90.0
0.0	14.10
45.0	13.40
90.0	12.35
135.0	13.75
180.0	15.80
225.0	15.63
270.0	14.57
315.0	13.75
360.0	14.10