

Report No	:	Voltage	:	V
Test No	:	Current	:	A
LumCAT	:	Power	:	33.000 W
Luminaire	:	0003010030 33W 2200K 3729lm PF	:	
LampCAT	:	Ballast type	:	
Lamp flux	:	3729.0 lm	:	Width : 348 mm
Number of Lamps	:	1	:	Length : 348 mm
Phm Type	:	C	:	Height : 0 mm

Photometric Results

Lumens(lm)	:	3729.00	Central intensity(cd)	:	688.588
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	1361.369
Luminous Efficacy(lm/W)	:	113.00	Angle of maximum intensity	:	C=0.0 γ =57.0
Beam Angle(50%Imax)	:	[C0/180]Total=130.4 [C90/270]Total=136.8			
Field angle(10%Imax)	:	[C0/180]Total=140.0 [C90/270]Total=147.0			
Maximum s/h(1/2)	:	C0_180=2.22 C90_270=2.31			
Maximum s/h(1/4)	:	C0_180=2.39 C90_270=2.21			
Up flux rate of lamp(%)	:	0.12%			
Down flux rate of lamp(%)	:	99.88%			
Up flux rate of LUM(%)	:	0.12%			
Down flux rate of LUM(%)	:	99.88%			
CIE Type	:	Direct lighting			
Output flux ratio in π solid angle :	:	79.439%			

Zonal flux distribution table

Appendix Page: 2 Total:21

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	688.588	0.000	0	0.00%	0.00%
1.0	688.588	0.659	0.659	0.02%	0.02%
2.0	690.653	1.980	2.639	0.05%	0.07%
3.0	690.397	3.303	5.942	0.09%	0.16%
4.0	690.090	4.621	10.563	0.12%	0.28%
5.0	690.320	5.938	16.501	0.16%	0.44%
6.0	689.577	7.252	23.753	0.19%	0.64%
7.0	685.938	8.538	32.29	0.23%	0.87%
8.0	683.914	9.804	42.094	0.26%	1.13%
9.0	682.351	11.073	53.167	0.30%	1.43%
10.0	676.713	12.299	65.466	0.33%	1.76%
11.0	673.176	13.488	78.954	0.36%	2.12%
12.0	668.487	14.666	93.621	0.39%	2.51%
13.0	663.541	15.808	109.428	0.42%	2.93%
14.0	659.928	16.940	126.369	0.45%	3.39%
15.0	657.135	18.081	144.45	0.48%	3.87%
16.0	653.316	19.202	163.652	0.51%	4.39%
17.0	652.522	20.335	183.987	0.55%	4.93%
18.0	655.750	21.571	205.558	0.58%	5.51%
19.0	658.185	22.860	228.417	0.61%	6.13%
20.0	664.976	24.218	252.635	0.65%	6.77%
21.0	673.535	25.702	278.337	0.69%	7.46%
22.0	682.043	27.241	305.578	0.73%	8.19%
23.0	691.243	28.815	334.393	0.77%	8.97%
24.0	706.619	30.562	364.955	0.82%	9.79%
25.0	722.814	32.502	397.458	0.87%	10.66%
26.0	736.089	34.438	431.895	0.92%	11.58%
27.0	755.539	36.493	468.388	0.98%	12.56%
28.0	779.653	38.868	507.256	1.04%	13.60%
29.0	801.256	41.361	548.617	1.11%	14.71%
30.0	820.758	43.794	592.411	1.17%	15.89%
31.0	840.080	46.219	638.63	1.24%	17.13%
32.0	854.892	48.559	687.189	1.30%	18.43%
33.0	866.193	50.704	737.893	1.36%	19.79%
34.0	882.414	52.918	790.811	1.42%	21.21%
35.0	898.918	55.322	846.132	1.48%	22.69%
36.0	908.092	57.536	903.668	1.54%	24.23%
37.0	917.574	59.543	963.211	1.60%	25.83%

Equipment: GMS-1800
Temperature($^{\circ}\text{C}$): 24.8

Date:
Humidity(%): 56%

Operator: LSC

Zonal flux distribution table

Appendix Page: 3 Total:21

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	932.565	61.755	1024.966	1.66%	27.49%
39.0	944.866	64.082	1089.048	1.72%	29.20%
40.0	959.729	66.426	1155.473	1.78%	30.99%
41.0	972.132	68.793	1224.266	1.84%	32.83%
42.0	988.405	71.230	1295.496	1.91%	34.74%
43.0	1004.754	73.832	1369.328	1.98%	36.72%
44.0	1020.131	76.425	1445.753	2.05%	38.77%
45.0	1035.198	78.989	1524.741	2.12%	40.89%
46.0	1049.857	81.542	1606.283	2.19%	43.08%
47.0	1061.824	83.987	1690.27	2.25%	45.33%
48.0	1076.918	86.459	1776.73	2.32%	47.65%
49.0	1092.601	89.093	1865.822	2.39%	50.04%
50.0	1106.567	91.691	1957.513	2.46%	52.49%
51.0	1118.791	94.152	2051.664	2.52%	55.02%
52.0	1128.247	96.422	2148.087	2.59%	57.60%
53.0	1136.960	98.536	2246.623	2.64%	60.25%
54.0	1142.342	100.462	2347.085	2.69%	62.94%
55.0	1141.112	101.930	2449.014	2.73%	65.67%
56.0	1136.140	102.903	2551.917	2.76%	68.43%
57.0	1127.786	103.512	2655.429	2.78%	71.21%
58.0	1110.027	103.484	2758.913	2.78%	73.99%
59.0	1085.605	102.647	2861.561	2.75%	76.74%
60.0	1045.987	100.704	2962.264	2.70%	79.44%
61.0	994.171	97.360	3059.625	2.61%	82.05%
62.0	933.206	92.872	3152.497	2.49%	84.54%
63.0	856.430	87.039	3239.537	2.33%	86.87%
64.0	780.473	80.322	3319.859	2.15%	89.03%
65.0	698.033	73.170	3393.029	1.96%	90.99%
66.0	610.059	65.265	3458.294	1.75%	92.74%
67.0	514.831	56.563	3514.857	1.52%	94.26%
68.0	427.574	47.739	3562.596	1.28%	95.54%
69.0	340.624	39.190	3601.786	1.05%	96.59%
70.0	249.292	30.297	3632.083	0.81%	97.40%
71.0	183.356	22.362	3654.444	0.60%	98.00%
72.0	136.358	16.624	3671.069	0.45%	98.45%
73.0	88.026	11.734	3682.802	0.31%	98.76%
74.0	62.502	7.914	3690.716	0.21%	98.97%
75.0	46.486	5.759	3696.474	0.15%	99.13%

Equipment: GMS-1800
Temperature($^{\circ}\text{C}$): 24.8

Date:
Humidity(%): 56%

Operator: LSC

Zonal flux distribution table

Appendix Page: 4 Total:21

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	36.697	4.416	3700.89	0.12%	99.25%
77.0	30.086	3.561	3704.451	0.10%	99.34%
78.0	26.498	3.029	3707.48	0.08%	99.42%
79.0	23.602	2.692	3710.171	0.07%	99.50%
80.0	20.552	2.380	3712.552	0.06%	99.56%
81.0	18.144	2.093	3714.644	0.06%	99.62%
82.0	16.042	1.854	3716.498	0.05%	99.66%
83.0	13.864	1.626	3718.124	0.04%	99.71%
84.0	11.865	1.402	3719.526	0.04%	99.75%
85.0	10.379	1.214	3720.74	0.03%	99.78%
86.0	8.790	1.048	3721.787	0.03%	99.81%
87.0	7.227	0.877	3722.664	0.02%	99.83%
88.0	5.945	0.722	3723.385	0.02%	99.85%
89.0	4.869	0.593	3723.978	0.02%	99.87%
90.0	3.818	0.476	3724.455	0.01%	99.88%
91.0	3.203	0.385	3724.839	0.01%	99.89%
92.0	2.614	0.319	3725.158	0.01%	99.90%
93.0	2.332	0.271	3725.429	0.01%	99.90%
94.0	2.152	0.245	3725.675	0.01%	99.91%
95.0	2.050	0.230	3725.904	0.01%	99.92%
96.0	1.999	0.221	3726.125	0.01%	99.92%
97.0	1.870	0.211	3726.336	0.01%	99.93%
98.0	1.768	0.198	3726.534	0.01%	99.93%
99.0	1.691	0.188	3726.721	0.01%	99.94%
100.0	1.665	0.181	3726.903	0.00%	99.94%
101.0	1.486	0.170	3727.073	0.00%	99.95%
102.0	1.358	0.153	3727.226	0.00%	99.95%
103.0	1.281	0.141	3727.367	0.00%	99.96%
104.0	1.127	0.128	3727.495	0.00%	99.96%
105.0	1.025	0.114	3727.61	0.00%	99.96%
106.0	0.948	0.104	3727.714	0.00%	99.97%
107.0	0.922	0.098	3727.812	0.00%	99.97%
108.0	0.845	0.092	3727.905	0.00%	99.97%
109.0	0.717	0.081	3727.986	0.00%	99.97%
110.0	0.692	0.073	3728.059	0.00%	99.97%
111.0	0.615	0.067	3728.126	0.00%	99.98%
112.0	0.589	0.061	3728.187	0.00%	99.98%
113.0	0.486	0.054	3728.242	0.00%	99.98%

Equipment: GMS-1800
Temperature($^{\circ}\text{C}$): 24.8

Date:
Humidity(%): 56%

Operator: LSC

Zonal flux distribution table

Appendix Page: 5 Total:21

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	0.435	0.046	3728.288	0.00%	99.98%
115.0	0.410	0.042	3728.33	0.00%	99.98%
116.0	0.410	0.041	3728.371	0.00%	99.98%
117.0	0.358	0.038	3728.408	0.00%	99.98%
118.0	0.358	0.035	3728.443	0.00%	99.99%
119.0	0.333	0.033	3728.477	0.00%	99.99%
120.0	0.333	0.032	3728.508	0.00%	99.99%
121.0	0.307	0.030	3728.539	0.00%	99.99%
122.0	0.307	0.029	3728.567	0.00%	99.99%
123.0	0.307	0.028	3728.596	0.00%	99.99%
124.0	0.307	0.028	3728.624	0.00%	99.99%
125.0	0.307	0.028	3728.652	0.00%	99.99%
126.0	0.307	0.027	3728.679	0.00%	99.99%
127.0	0.307	0.027	3728.706	0.00%	99.99%
128.0	0.307	0.027	3728.733	0.00%	99.99%
129.0	0.281	0.025	3728.758	0.00%	99.99%
130.0	0.281	0.024	3728.782	0.00%	99.99%
131.0	0.281	0.023	3728.805	0.00%	99.99%
132.0	0.281	0.023	3728.828	0.00%	100.00%
133.0	0.230	0.021	3728.849	0.00%	100.00%
134.0	0.230	0.018	3728.867	0.00%	100.00%
135.0	0.256	0.019	3728.886	0.00%	100.00%
136.0	0.281	0.021	3728.907	0.00%	100.00%
137.0	0.281	0.021	3728.928	0.00%	100.00%
138.0	0.256	0.020	3728.948	0.00%	100.00%
139.0	0.179	0.016	3728.964	0.00%	100.00%
140.0	0.179	0.013	3728.977	0.00%	100.00%
141.0	0.128	0.011	3728.987	0.00%	100.00%
142.0	0.077	0.007	3728.994	0.00%	100.00%
143.0	0.026	0.003	3728.998	0.00%	100.00%
144.0	0.026	0.002	3728.999	0.00%	100.00%
145.0	0.000	0.001	3729	0.00%	100.00%
146.0	0.000	0.000	3729	0.00%	100.00%
147.0	0.000	0.000	3729	0.00%	100.00%
148.0	0.000	0.000	3729	0.00%	100.00%
149.0	0.000	0.000	3729	0.00%	100.00%
150.0	0.000	0.000	3729	0.00%	100.00%
151.0	0.000	0.000	3729	0.00%	100.00%

Zonal flux distribution table

Appendix Page: 6 Total:21

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	0.000	0.000	3729	0.00%	100.00%
153.0	0.000	0.000	3729	0.00%	100.00%
154.0	0.000	0.000	3729	0.00%	100.00%
155.0	0.000	0.000	3729	0.00%	100.00%
156.0	0.000	0.000	3729	0.00%	100.00%
157.0	0.000	0.000	3729	0.00%	100.00%
158.0	0.000	0.000	3729	0.00%	100.00%
159.0	0.000	0.000	3729	0.00%	100.00%
160.0	0.000	0.000	3729	0.00%	100.00%
161.0	0.000	0.000	3729	0.00%	100.00%
162.0	0.000	0.000	3729	0.00%	100.00%
163.0	0.000	0.000	3729	0.00%	100.00%
164.0	0.000	0.000	3729	0.00%	100.00%
165.0	0.000	0.000	3729	0.00%	100.00%
166.0	0.000	0.000	3729	0.00%	100.00%
167.0	0.000	0.000	3729	0.00%	100.00%
168.0	0.000	0.000	3729	0.00%	100.00%
169.0	0.000	0.000	3729	0.00%	100.00%
170.0	0.000	0.000	3729	0.00%	100.00%
171.0	0.000	0.000	3729	0.00%	100.00%
172.0	0.000	0.000	3729	0.00%	100.00%
173.0	0.000	0.000	3729	0.00%	100.00%
174.0	0.000	0.000	3729	0.00%	100.00%
175.0	0.000	0.000	3729	0.00%	100.00%
176.0	0.000	0.000	3729	0.00%	100.00%
177.0	0.000	0.000	3729	0.00%	100.00%
178.0	0.000	0.000	3729	0.00%	100.00%
179.0	0.000	0.000	3729	0.00%	100.00%
180.0	0.000	0.000	3729	0.00%	100.00%

Equipment: GMS-1800
Temperature($^{\circ}\text{C}$): 24.8

Date:
Humidity(%): 56%

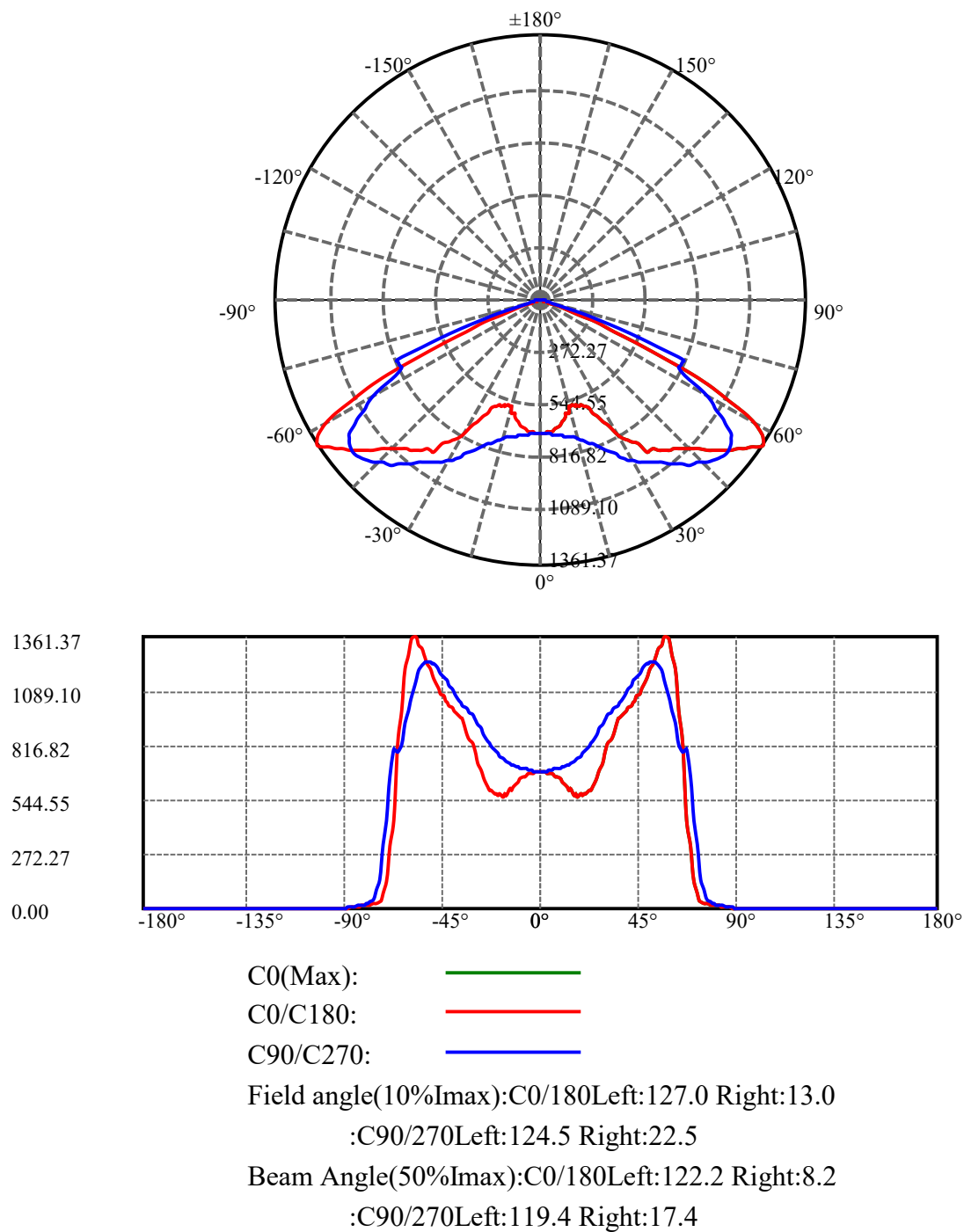
Operator: LSC

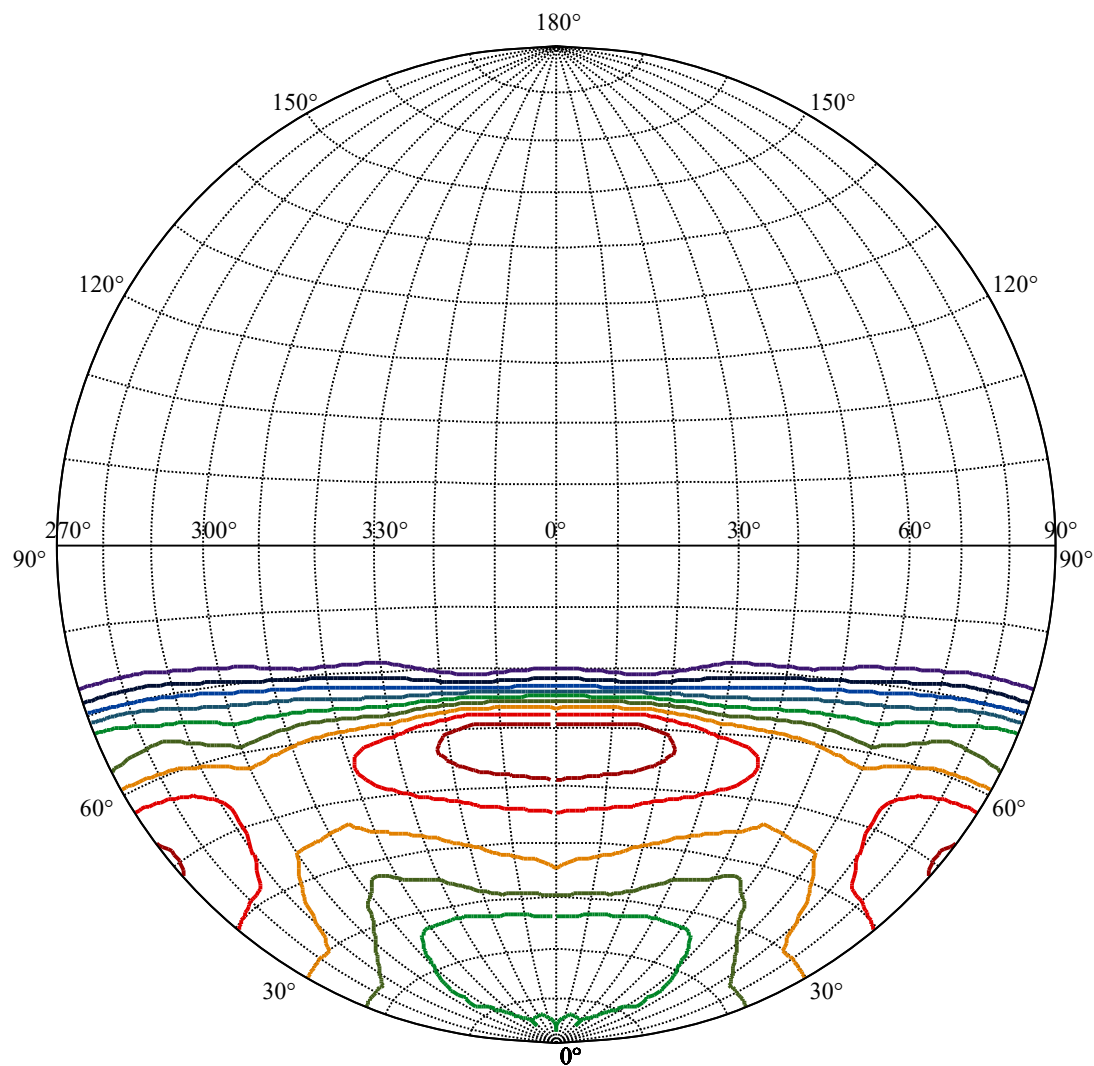
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	592.41	15.89%	15.89%
0-40	1155.47	30.99%	30.99%
0-60	2962.26	79.44%	79.44%
0-90	3724.45	99.88%	99.88%
0-120	3728.51	99.99%	99.99%
0-180	3729.00	100.00%	100.00%
60-90	762.19	20.44%	20.44%
90-120	4.05	0.11%	0.11%
90-130	4.33	0.12%	0.12%
90-150	4.55	0.12%	0.12%
90-180	4.55	0.12%	0.12%
0-60.22	2983.20	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	65.47
10-20	187.17
20-30	339.78
30-40	563.06
40-50	802.04
50-60	1004.75
60-70	669.82
70-80	80.47
80-90	11.90
90-100	2.45
100-110	1.16
110-120	0.45
120-130	0.27
130-140	0.19
140-150	0.02
150-160	0.00
160-170	0.00
170-180	0.00



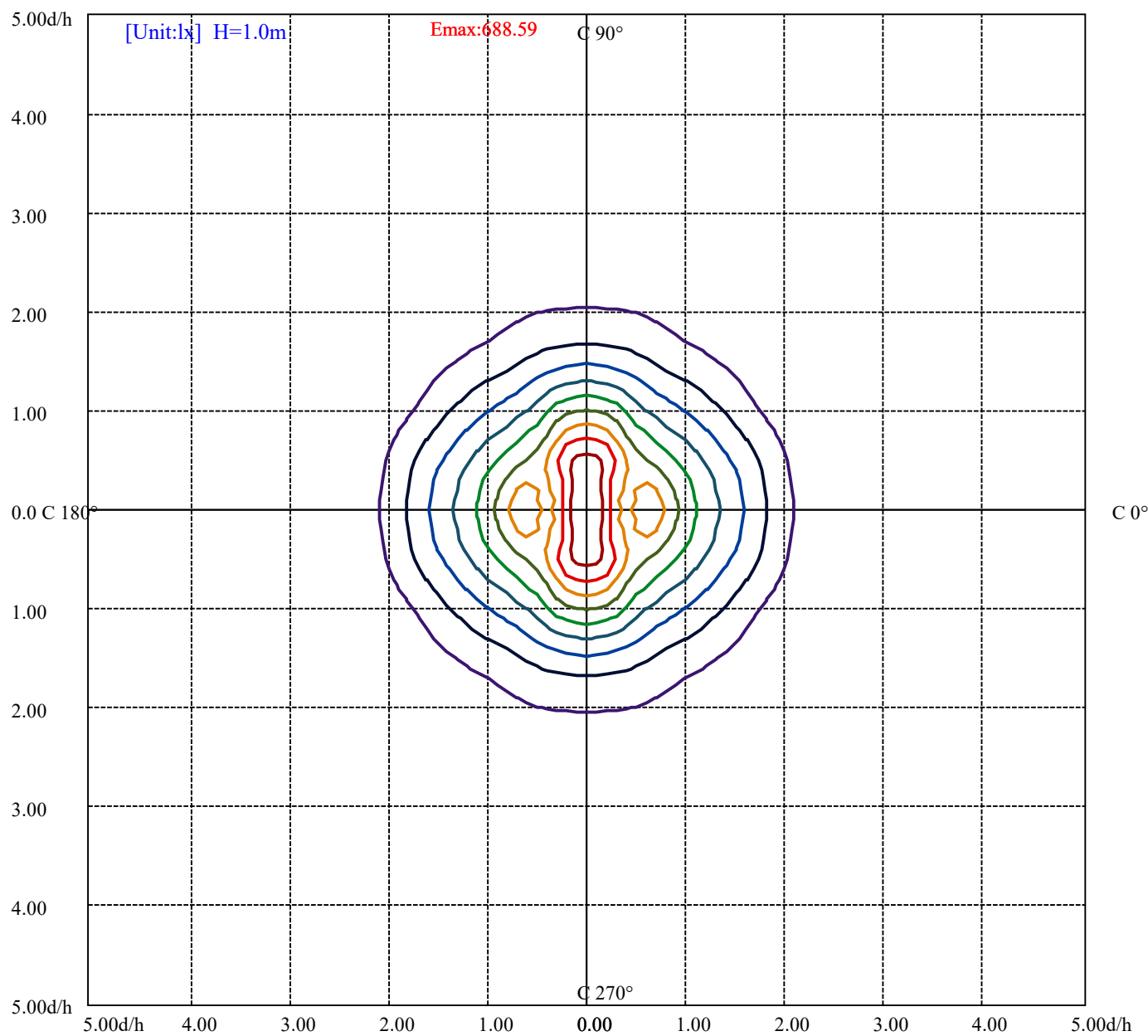


House

[Unit:cd]

Road

Imax:1361.37	
(10%Imax) 136.137	
(20%Imax) 272.274	
(30%Imax) 408.411	
(40%Imax) 544.548	
(50%Imax) 680.685	
(60%Imax) 816.821	
(70%Imax) 952.958	
(80%Imax) 1089.1	
(90%Imax) 1225.23	



Intensity data(cd)

Appendix Page: 11 Total:21

C/ γ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	688.59	688.59	684.53	678.99	679.61	678.99	671.31	661.77	656.55
15.0	688.59	688.59	690.22	692.22	692.22	691.29	685.45	679.61	673.00
30.0	688.59	688.59	686.53	685.30	682.22	680.07	680.53	671.31	671.15
45.0	688.59	688.59	696.37	696.21	694.52	695.14	696.52	692.68	683.45
60.0	688.59	688.59	685.45	685.30	686.22	687.45	688.07	686.53	689.60
75.0	688.59	688.59	700.06	700.21	700.83	701.13	702.37	704.67	706.52
90.0	688.59	688.59	686.07	687.30	689.45	694.68	697.75	699.90	702.98
105.0	688.59	688.59	700.06	700.21	700.83	701.13	702.37	704.67	706.52
120.0	688.59	688.59	685.45	685.30	686.22	687.45	688.07	686.53	689.60
135.0	688.59	688.59	696.37	696.21	694.52	695.14	696.52	692.68	683.45
150.0	688.59	688.59	686.53	685.30	682.22	680.07	680.53	671.31	671.15
165.0	688.59	688.59	690.22	692.22	692.22	691.29	685.45	679.61	673.00
180.0	688.59	688.59	684.53	678.99	679.61	678.99	671.31	661.77	656.55
195.0	688.59	688.59	690.22	692.22	692.22	691.29	685.45	679.61	673.00
210.0	688.59	688.59	686.53	685.30	682.22	680.07	680.53	671.31	671.15
225.0	688.59	688.59	696.37	696.21	694.52	695.14	696.52	692.68	683.45
240.0	688.59	688.59	685.45	685.30	686.22	687.45	688.07	686.53	689.60
255.0	688.59	688.59	700.06	700.21	700.83	701.13	702.37	704.67	706.52
270.0	688.59	688.59	686.07	687.30	689.45	694.68	697.75	699.90	702.98
285.0	688.59	688.59	700.06	700.21	700.83	701.13	702.37	704.67	706.52
300.0	688.59	688.59	685.45	685.30	686.22	687.45	688.07	686.53	689.60
315.0	688.59	688.59	696.37	696.21	694.52	695.14	696.52	692.68	683.45
330.0	688.59	688.59	686.53	685.30	682.22	680.07	680.53	671.31	671.15
345.0	688.59	688.59	690.22	692.22	692.22	691.29	685.45	679.61	673.00
360.0	688.59	688.59	684.53	678.99	679.61	678.99	671.31	661.77	656.55

C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	648.86	633.17	628.56	612.88	595.35	598.12	568.29	571.06	561.52
15.0	667.77	652.09	640.71	629.64	609.50	586.74	580.13	566.90	557.99
30.0	666.39	656.24	647.01	643.01	635.48	628.41	621.33	605.65	597.04
45.0	682.38	678.53	677.46	666.23	665.77	660.70	654.70	645.32	643.48
60.0	691.29	690.53	689.60	688.83	688.53	694.37	695.75	697.44	702.37
75.0	709.13	711.90	713.90	718.66	723.74	726.97	738.04	746.65	755.87
90.0	705.44	708.82	712.21	716.20	721.12	726.66	737.42	744.80	755.26
105.0	709.13	711.90	713.90	718.66	723.74	726.97	738.04	746.65	755.87
120.0	691.29	690.53	689.60	688.83	688.53	694.37	695.75	697.44	702.37
135.0	682.38	678.53	677.46	666.23	665.77	660.70	654.70	645.32	643.48
150.0	666.39	656.24	647.01	643.01	635.48	628.41	621.33	605.65	597.04
165.0	667.77	652.09	640.71	629.64	609.50	586.74	580.13	566.90	557.99
180.0	648.86	633.17	628.56	612.88	595.35	598.12	568.29	571.06	561.52
195.0	667.77	652.09	640.71	629.64	609.50	586.74	580.13	566.90	557.99
210.0	666.39	656.24	647.01	643.01	635.48	628.41	621.33	605.65	597.04
225.0	682.38	678.53	677.46	666.23	665.77	660.70	654.70	645.32	643.48
240.0	691.29	690.53	689.60	688.83	688.53	694.37	695.75	697.44	702.37
255.0	709.13	711.90	713.90	718.66	723.74	726.97	738.04	746.65	755.87
270.0	705.44	708.82	712.21	716.20	721.12	726.66	737.42	744.80	755.26
285.0	709.13	711.90	713.90	718.66	723.74	726.97	738.04	746.65	755.87
300.0	691.29	690.53	689.60	688.83	688.53	694.37	695.75	697.44	702.37
315.0	682.38	678.53	677.46	666.23	665.77	660.70	654.70	645.32	643.48
330.0	666.39	656.24	647.01	643.01	635.48	628.41	621.33	605.65	597.04
345.0	667.77	652.09	640.71	629.64	609.50	586.74	580.13	566.90	557.99
360.0	648.86	633.17	628.56	612.88	595.35	598.12	568.29	571.06	561.52

Intensity data(cd)

Appendix Page: 12 Total:21

C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	575.67	566.14	579.05	578.13	593.20	591.04	609.80	639.02	670.08
15.0	553.37	551.53	560.45	574.44	574.75	587.51	613.49	640.25	645.47
30.0	590.74	588.74	586.59	590.43	592.74	603.81	617.03	624.56	637.94
45.0	646.24	648.40	649.47	652.24	656.55	654.55	660.70	672.84	681.45
60.0	708.52	714.36	723.28	734.19	752.03	765.41	778.32	787.55	795.23
75.0	765.56	775.55	787.24	801.54	813.99	827.83	845.05	859.66	880.72
90.0	764.48	774.94	786.62	798.62	811.23	825.68	840.44	865.04	881.34
105.0	765.56	775.55	787.24	801.54	813.99	827.83	845.05	859.66	880.72
120.0	708.52	714.36	723.28	734.19	752.03	765.41	778.32	787.55	795.23
135.0	646.24	648.40	649.47	652.24	656.55	654.55	660.70	672.84	681.45
150.0	590.74	588.74	586.59	590.43	592.74	603.81	617.03	624.56	637.94
165.0	553.37	551.53	560.45	574.44	574.75	587.51	613.49	640.25	645.47
180.0	575.67	566.14	579.05	578.13	593.20	591.04	609.80	639.02	670.08
195.0	553.37	551.53	560.45	574.44	574.75	587.51	613.49	640.25	645.47
210.0	590.74	588.74	586.59	590.43	592.74	603.81	617.03	624.56	637.94
225.0	646.24	648.40	649.47	652.24	656.55	654.55	660.70	672.84	681.45
240.0	708.52	714.36	723.28	734.19	752.03	765.41	778.32	787.55	795.23
255.0	765.56	775.55	787.24	801.54	813.99	827.83	845.05	859.66	880.72
270.0	764.48	774.94	786.62	798.62	811.23	825.68	840.44	865.04	881.34
285.0	765.56	775.55	787.24	801.54	813.99	827.83	845.05	859.66	880.72
300.0	708.52	714.36	723.28	734.19	752.03	765.41	778.32	787.55	795.23
315.0	646.24	648.40	649.47	652.24	656.55	654.55	660.70	672.84	681.45
330.0	590.74	588.74	586.59	590.43	592.74	603.81	617.03	624.56	637.94
345.0	553.37	551.53	560.45	574.44	574.75	587.51	613.49	640.25	645.47
360.0	575.67	566.14	579.05	578.13	593.20	591.04	609.80	639.02	670.08

C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	697.45	730.35	768.17	805.38	829.68	845.97	864.12	891.79	950.53
15.0	678.99	710.05	752.34	783.40	815.84	850.28	872.73	898.40	910.55
30.0	660.85	687.45	705.29	722.05	751.11	762.48	778.17	802.31	823.37
45.0	688.68	717.13	727.58	740.96	754.03	760.18	763.87	773.40	789.85
60.0	806.46	823.37	834.13	846.74	854.28	863.04	866.42	876.11	882.72
75.0	896.41	913.94	935.61	951.61	965.60	979.59	986.66	994.66	1003.12
90.0	906.25	921.62	937.00	954.22	969.60	981.59	994.50	1007.42	1017.26
105.0	896.41	913.94	935.61	951.61	965.60	979.59	986.66	994.66	1003.12
120.0	806.46	823.37	834.13	846.74	854.28	863.04	866.42	876.11	882.72
135.0	688.68	717.13	727.58	740.96	754.03	760.18	763.87	773.40	789.85
150.0	660.85	687.45	705.29	722.05	751.11	762.48	778.17	802.31	823.37
165.0	678.99	710.05	752.34	783.40	815.84	850.28	872.73	898.40	910.55
180.0	697.45	730.35	768.17	805.38	829.68	845.97	864.12	891.79	950.53
195.0	678.99	710.05	752.34	783.40	815.84	850.28	872.73	898.40	910.55
210.0	660.85	687.45	705.29	722.05	751.11	762.48	778.17	802.31	823.37
225.0	688.68	717.13	727.58	740.96	754.03	760.18	763.87	773.40	789.85
240.0	806.46	823.37	834.13	846.74	854.28	863.04	866.42	876.11	882.72
255.0	896.41	913.94	935.61	951.61	965.60	979.59	986.66	994.66	1003.12
270.0	906.25	921.62	937.00	954.22	969.60	981.59	994.50	1007.42	1017.26
285.0	896.41	913.94	935.61	951.61	965.60	979.59	986.66	994.66	1003.12
300.0	806.46	823.37	834.13	846.74	854.28	863.04	866.42	876.11	882.72
315.0	688.68	717.13	727.58	740.96	754.03	760.18	763.87	773.40	789.85
330.0	660.85	687.45	705.29	722.05	751.11	762.48	778.17	802.31	823.37
345.0	678.99	710.05	752.34	783.40	815.84	850.28	872.73	898.40	910.55
360.0	697.45	730.35	768.17	805.38	829.68	845.97	864.12	891.79	950.53

Intensity data(cd)

Appendix Page: 13 Total:21

C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	956.06	960.06	979.74	991.12	1008.34	1017.57	1028.33	1044.01	1062.47
15.0	920.09	934.08	944.69	955.76	968.06	984.66	998.35	1015.26	1032.33
30.0	837.06	855.81	876.11	892.87	912.24	928.39	941.77	958.99	974.21
45.0	802.46	807.07	828.29	834.75	852.12	861.20	882.57	907.17	928.39
60.0	880.72	881.95	884.57	898.25	908.71	915.32	928.70	940.84	950.53
75.0	1015.57	1025.87	1040.02	1052.32	1065.23	1078.30	1095.83	1108.75	1123.81
90.0	1029.25	1041.25	1063.69	1079.38	1095.68	1112.28	1138.11	1151.03	1160.56
105.0	1015.57	1025.87	1040.02	1052.32	1065.23	1078.30	1095.83	1108.75	1123.81
120.0	880.72	881.95	884.57	898.25	908.71	915.32	928.70	940.84	950.53
135.0	802.46	807.07	828.29	834.75	852.12	861.20	882.57	907.17	928.39
150.0	837.06	855.81	876.11	892.87	912.24	928.39	941.77	958.99	974.21
165.0	920.09	934.08	944.69	955.76	968.06	984.66	998.35	1015.26	1032.33
180.0	956.06	960.06	979.74	991.12	1008.34	1017.57	1028.33	1044.01	1062.47
195.0	920.09	934.08	944.69	955.76	968.06	984.66	998.35	1015.26	1032.33
210.0	837.06	855.81	876.11	892.87	912.24	928.39	941.77	958.99	974.21
225.0	802.46	807.07	828.29	834.75	852.12	861.20	882.57	907.17	928.39
240.0	880.72	881.95	884.57	898.25	908.71	915.32	928.70	940.84	950.53
255.0	1015.57	1025.87	1040.02	1052.32	1065.23	1078.30	1095.83	1108.75	1123.81
270.0	1029.25	1041.25	1063.69	1079.38	1095.68	1112.28	1138.11	1151.03	1160.56
285.0	1015.57	1025.87	1040.02	1052.32	1065.23	1078.30	1095.83	1108.75	1123.81
300.0	880.72	881.95	884.57	898.25	908.71	915.32	928.70	940.84	950.53
315.0	802.46	807.07	828.29	834.75	852.12	861.20	882.57	907.17	928.39
330.0	837.06	855.81	876.11	892.87	912.24	928.39	941.77	958.99	974.21
345.0	920.09	934.08	944.69	955.76	968.06	984.66	998.35	1015.26	1032.33
360.0	956.06	960.06	979.74	991.12	1008.34	1017.57	1028.33	1044.01	1062.47
C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	1077.23	1100.60	1118.43	1150.11	1172.56	1196.85	1222.68	1248.51	1274.96
15.0	1050.93	1073.08	1094.75	1111.36	1136.42	1167.02	1188.09	1208.38	1227.91
30.0	993.12	1013.57	1031.25	1048.32	1075.07	1089.83	1111.21	1128.89	1143.34
45.0	942.07	950.07	955.45	973.29	983.90	1000.65	1017.72	1029.41	1037.25
60.0	962.83	968.06	973.13	982.51	992.66	998.66	1001.12	1001.42	1007.11
75.0	1135.81	1147.34	1154.57	1159.79	1166.41	1167.48	1165.48	1160.25	1155.18
90.0	1175.63	1193.47	1205.15	1222.37	1229.75	1234.67	1235.60	1233.75	1226.98
105.0	1135.81	1147.34	1154.57	1159.79	1166.41	1167.48	1165.48	1160.25	1155.18
120.0	962.83	968.06	973.13	982.51	992.66	998.66	1001.12	1001.42	1007.11
135.0	942.07	950.07	955.45	973.29	983.90	1000.65	1017.72	1029.41	1037.25
150.0	993.12	1013.57	1031.25	1048.32	1075.07	1089.83	1111.21	1128.89	1143.34
165.0	1050.93	1073.08	1094.75	1111.36	1136.42	1167.02	1188.09	1208.38	1227.91
180.0	1077.23	1100.60	1118.43	1150.11	1172.56	1196.85	1222.68	1248.51	1274.96
195.0	1050.93	1073.08	1094.75	1111.36	1136.42	1167.02	1188.09	1208.38	1227.91
210.0	993.12	1013.57	1031.25	1048.32	1075.07	1089.83	1111.21	1128.89	1143.34
225.0	942.07	950.07	955.45	973.29	983.90	1000.65	1017.72	1029.41	1037.25
240.0	962.83	968.06	973.13	982.51	992.66	998.66	1001.12	1001.42	1007.11
255.0	1135.81	1147.34	1154.57	1159.79	1166.41	1167.48	1165.48	1160.25	1155.18
270.0	1175.63	1193.47	1205.15	1222.37	1229.75	1234.67	1235.60	1233.75	1226.98
285.0	1135.81	1147.34	1154.57	1159.79	1166.41	1167.48	1165.48	1160.25	1155.18
300.0	962.83	968.06	973.13	982.51	992.66	998.66	1001.12	1001.42	1007.11
315.0	942.07	950.07	955.45	973.29	983.90	1000.65	1017.72	1029.41	1037.25
330.0	993.12	1013.57	1031.25	1048.32	1075.07	1089.83	1111.21	1128.89	1143.34
345.0	1050.93	1073.08	1094.75	1111.36	1136.42	1167.02	1188.09	1208.38	1227.91
360.0	1077.23	1100.60	1118.43	1150.11	1172.56	1196.85	1222.68	1248.51	1274.96

Intensity data(cd)

Appendix Page: 14 Total:21

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	1299.56	1322.01	1348.76	1361.37	1349.38	1321.70	1272.19	1199.31	1103.67
15.0	1248.97	1267.27	1282.18	1295.56	1298.94	1300.02	1266.35	1220.68	1150.41
30.0	1154.26	1157.95	1158.87	1153.18	1136.12	1109.05	1066.46	1011.11	916.09
45.0	1043.09	1044.47	1041.55	1036.48	1029.71	1009.11	979.44	925.01	875.19
60.0	1006.96	999.43	986.20	968.21	943.92	908.71	873.80	816.61	774.63
75.0	1143.65	1118.59	1096.29	1072.15	1044.17	1011.42	960.52	925.93	896.56
90.0	1214.69	1195.93	1154.72	1120.89	1065.23	1028.95	986.51	932.08	869.04
105.0	1143.65	1118.59	1096.29	1072.15	1044.17	1011.42	960.52	925.93	896.56
120.0	1006.96	999.43	986.20	968.21	943.92	908.71	873.80	816.61	774.63
135.0	1043.09	1044.47	1041.55	1036.48	1029.71	1009.11	979.44	925.01	875.19
150.0	1154.26	1157.95	1158.87	1153.18	1136.12	1109.05	1066.46	1011.11	916.09
165.0	1248.97	1267.27	1282.18	1295.56	1298.94	1300.02	1266.35	1220.68	1150.41
180.0	1299.56	1322.01	1348.76	1361.37	1349.38	1321.70	1272.19	1199.31	1103.67
195.0	1248.97	1267.27	1282.18	1295.56	1298.94	1300.02	1266.35	1220.68	1150.41
210.0	1154.26	1157.95	1158.87	1153.18	1136.12	1109.05	1066.46	1011.11	916.09
225.0	1043.09	1044.47	1041.55	1036.48	1029.71	1009.11	979.44	925.01	875.19
240.0	1006.96	999.43	986.20	968.21	943.92	908.71	873.80	816.61	774.63
255.0	1143.65	1118.59	1096.29	1072.15	1044.17	1011.42	960.52	925.93	896.56
270.0	1214.69	1195.93	1154.72	1120.89	1065.23	1028.95	986.51	932.08	869.04
285.0	1143.65	1118.59	1096.29	1072.15	1044.17	1011.42	960.52	925.93	896.56
300.0	1006.96	999.43	986.20	968.21	943.92	908.71	873.80	816.61	774.63
315.0	1043.09	1044.47	1041.55	1036.48	1029.71	1009.11	979.44	925.01	875.19
330.0	1154.26	1157.95	1158.87	1153.18	1136.12	1109.05	1066.46	1011.11	916.09
345.0	1248.97	1267.27	1282.18	1295.56	1298.94	1300.02	1266.35	1220.68	1150.41
360.0	1299.56	1322.01	1348.76	1361.37	1349.38	1321.70	1272.19	1199.31	1103.67
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	991.74	864.42	729.12	534.15	413.30	309.67	212.80	133.77	78.11
15.0	1016.95	883.95	728.66	563.21	366.40	232.79	131.16	57.05	43.51
30.0	813.22	722.51	609.65	525.08	446.05	372.40	277.99	219.41	153.30
45.0	815.99	734.65	663.77	590.58	516.16	438.36	332.12	239.86	145.92
60.0	728.66	689.91	653.01	607.65	545.68	473.73	403.77	301.21	237.40
75.0	859.35	824.45	773.40	708.52	614.57	565.52	514.93	392.23	318.59
90.0	817.07	790.31	790.31	796.46	786.93	655.62	554.76	438.21	324.74
105.0	859.35	824.45	773.40	708.52	614.57	565.52	514.93	392.23	318.59
120.0	728.66	689.91	653.01	607.65	545.68	473.73	403.77	301.21	237.40
135.0	815.99	734.65	663.77	590.58	516.16	438.36	332.12	239.86	145.92
150.0	813.22	722.51	609.65	525.08	446.05	372.40	277.99	219.41	153.30
165.0	1016.95	883.95	728.66	563.21	366.40	232.79	131.16	57.05	43.51
180.0	991.74	864.42	729.12	534.15	413.30	309.67	212.80	133.77	78.11
195.0	1016.95	883.95	728.66	563.21	366.40	232.79	131.16	57.05	43.51
210.0	813.22	722.51	609.65	525.08	446.05	372.40	277.99	219.41	153.30
225.0	815.99	734.65	663.77	590.58	516.16	438.36	332.12	239.86	145.92
240.0	728.66	689.91	653.01	607.65	545.68	473.73	403.77	301.21	237.40
255.0	859.35	824.45	773.40	708.52	614.57	565.52	514.93	392.23	318.59
270.0	817.07	790.31	790.31	796.46	786.93	655.62	554.76	438.21	324.74
285.0	859.35	824.45	773.40	708.52	614.57	565.52	514.93	392.23	318.59
300.0	728.66	689.91	653.01	607.65	545.68	473.73	403.77	301.21	237.40
315.0	815.99	734.65	663.77	590.58	516.16	438.36	332.12	239.86	145.92
330.0	813.22	722.51	609.65	525.08	446.05	372.40	277.99	219.41	153.30
345.0	1016.95	883.95	728.66	563.21	366.40	232.79	131.16	57.05	43.51
360.0	991.74	864.42	729.12	534.15	413.30	309.67	212.80	133.77	78.11

C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	45.21	32.90	29.22	26.75	24.29	20.60	18.45	16.61	14.15
15.0	38.75	34.75	31.67	28.91	26.29	22.14	20.76	19.07	16.30
30.0	123.93	82.11	55.66	39.21	32.14	29.37	26.29	23.99	21.22
45.0	96.87	65.81	46.90	37.82	32.90	29.06	26.75	23.06	20.91
60.0	178.67	103.02	70.88	51.05	39.05	32.29	28.29	25.99	22.45
75.0	244.17	152.07	108.09	77.34	56.28	42.13	34.13	29.98	25.52
90.0	226.33	147.92	94.41	62.43	42.75	30.44	27.06	22.45	19.68
105.0	244.17	152.07	108.09	77.34	56.28	42.13	34.13	29.98	25.52
120.0	178.67	103.02	70.88	51.05	39.05	32.29	28.29	25.99	22.45
135.0	96.87	65.81	46.90	37.82	32.90	29.06	26.75	23.06	20.91
150.0	123.93	82.11	55.66	39.21	32.14	29.37	26.29	23.99	21.22
165.0	38.75	34.75	31.67	28.91	26.29	22.14	20.76	19.07	16.30
180.0	45.21	32.90	29.22	26.75	24.29	20.60	18.45	16.61	14.15
195.0	38.75	34.75	31.67	28.91	26.29	22.14	20.76	19.07	16.30
210.0	123.93	82.11	55.66	39.21	32.14	29.37	26.29	23.99	21.22
225.0	96.87	65.81	46.90	37.82	32.90	29.06	26.75	23.06	20.91
240.0	178.67	103.02	70.88	51.05	39.05	32.29	28.29	25.99	22.45
255.0	244.17	152.07	108.09	77.34	56.28	42.13	34.13	29.98	25.52
270.0	226.33	147.92	94.41	62.43	42.75	30.44	27.06	22.45	19.68
285.0	244.17	152.07	108.09	77.34	56.28	42.13	34.13	29.98	25.52
300.0	178.67	103.02	70.88	51.05	39.05	32.29	28.29	25.99	22.45
315.0	96.87	65.81	46.90	37.82	32.90	29.06	26.75	23.06	20.91
330.0	123.93	82.11	55.66	39.21	32.14	29.37	26.29	23.99	21.22
345.0	38.75	34.75	31.67	28.91	26.29	22.14	20.76	19.07	16.30
360.0	45.21	32.90	29.22	26.75	24.29	20.60	18.45	16.61	14.15
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.92	11.07	9.84	8.00	6.46	5.54	3.69	2.77	2.15
15.0	14.91	13.22	11.07	9.53	8.15	6.77	5.54	3.84	2.77
30.0	17.99	16.30	14.30	11.84	10.61	8.77	7.38	6.31	5.07
45.0	18.76	15.84	14.15	12.76	11.23	9.69	8.46	7.23	6.15
60.0	19.68	17.53	15.53	13.07	11.99	10.30	8.92	8.00	6.92
75.0	22.91	20.60	16.76	14.61	12.61	10.92	8.92	7.38	6.31
90.0	16.30	14.45	12.92	10.76	8.92	7.07	4.61	3.08	1.85
105.0	22.91	20.60	16.76	14.61	12.61	10.92	8.92	7.38	6.31
120.0	19.68	17.53	15.53	13.07	11.99	10.30	8.92	8.00	6.92
135.0	18.76	15.84	14.15	12.76	11.23	9.69	8.46	7.23	6.15
150.0	17.99	16.30	14.30	11.84	10.61	8.77	7.38	6.31	5.07
165.0	14.91	13.22	11.07	9.53	8.15	6.77	5.54	3.84	2.77
180.0	12.92	11.07	9.84	8.00	6.46	5.54	3.69	2.77	2.15
195.0	14.91	13.22	11.07	9.53	8.15	6.77	5.54	3.84	2.77
210.0	17.99	16.30	14.30	11.84	10.61	8.77	7.38	6.31	5.07
225.0	18.76	15.84	14.15	12.76	11.23	9.69	8.46	7.23	6.15
240.0	19.68	17.53	15.53	13.07	11.99	10.30	8.92	8.00	6.92
255.0	22.91	20.60	16.76	14.61	12.61	10.92	8.92	7.38	6.31
270.0	16.30	14.45	12.92	10.76	8.92	7.07	4.61	3.08	1.85
285.0	22.91	20.60	16.76	14.61	12.61	10.92	8.92	7.38	6.31
300.0	19.68	17.53	15.53	13.07	11.99	10.30	8.92	8.00	6.92
315.0	18.76	15.84	14.15	12.76	11.23	9.69	8.46	7.23	6.15
330.0	17.99	16.30	14.30	11.84	10.61	8.77	7.38	6.31	5.07
345.0	14.91	13.22	11.07	9.53	8.15	6.77	5.54	3.84	2.77
360.0	12.92	11.07	9.84	8.00	6.46	5.54	3.69	2.77	2.15

C/γ(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	1.54	1.23	0.62	0.31	0.31	0.31	0.31	0.31	0.31
15.0	1.54	0.77	0.46	0.46	0.31	0.31	0.31	0.31	0.31
30.0	4.00	3.08	2.46	2.00	1.69	1.38	1.23	1.23	0.92
45.0	4.92	4.31	3.38	3.23	3.08	2.92	2.77	2.61	2.46
60.0	6.00	5.54	5.23	4.77	4.31	4.15	4.15	3.69	3.69
75.0	5.07	4.61	3.84	3.38	3.38	3.38	3.38	3.23	3.08
90.0	1.23	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	5.07	4.61	3.84	3.38	3.38	3.38	3.38	3.23	3.08
120.0	6.00	5.54	5.23	4.77	4.31	4.15	4.15	3.69	3.69
135.0	4.92	4.31	3.38	3.23	3.08	2.92	2.77	2.61	2.46
150.0	4.00	3.08	2.46	2.00	1.69	1.38	1.23	1.23	0.92
165.0	1.54	0.77	0.46	0.46	0.31	0.31	0.31	0.31	0.31
180.0	1.54	1.23	0.62	0.31	0.31	0.31	0.31	0.31	0.31
195.0	1.54	0.77	0.46	0.46	0.31	0.31	0.31	0.31	0.31
210.0	4.00	3.08	2.46	2.00	1.69	1.38	1.23	1.23	0.92
225.0	4.92	4.31	3.38	3.23	3.08	2.92	2.77	2.61	2.46
240.0	6.00	5.54	5.23	4.77	4.31	4.15	4.15	3.69	3.69
255.0	5.07	4.61	3.84	3.38	3.38	3.38	3.38	3.23	3.08
270.0	1.23	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	5.07	4.61	3.84	3.38	3.38	3.38	3.38	3.23	3.08
300.0	6.00	5.54	5.23	4.77	4.31	4.15	4.15	3.69	3.69
315.0	4.92	4.31	3.38	3.23	3.08	2.92	2.77	2.61	2.46
330.0	4.00	3.08	2.46	2.00	1.69	1.38	1.23	1.23	0.92
345.0	1.54	0.77	0.46	0.46	0.31	0.31	0.31	0.31	0.31
360.0	1.54	1.23	0.62	0.31	0.31	0.31	0.31	0.31	0.31
C/γ(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	0.31	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.31
15.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
30.0	0.92	0.92	0.92	0.92	0.92	0.77	0.61	0.62	0.62
45.0	2.31	2.15	1.85	1.69	1.54	1.23	1.23	1.23	1.08
60.0	3.38	3.38	2.92	2.77	2.46	2.15	2.00	1.69	1.69
75.0	3.08	3.08	2.77	2.46	2.46	2.31	2.00	1.85	1.69
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	3.08	3.08	2.77	2.46	2.46	2.31	2.00	1.85	1.69
120.0	3.38	3.38	2.92	2.77	2.46	2.15	2.00	1.69	1.69
135.0	2.31	2.15	1.85	1.69	1.54	1.23	1.23	1.23	1.08
150.0	0.92	0.92	0.92	0.92	0.92	0.77	0.61	0.62	0.62
165.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
180.0	0.31	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.31
195.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
210.0	0.92	0.92	0.92	0.92	0.92	0.77	0.61	0.62	0.62
225.0	2.31	2.15	1.85	1.69	1.54	1.23	1.23	1.23	1.08
240.0	3.38	3.38	2.92	2.77	2.46	2.15	2.00	1.69	1.69
255.0	3.08	3.08	2.77	2.46	2.46	2.31	2.00	1.85	1.69
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	3.08	3.08	2.77	2.46	2.46	2.31	2.00	1.85	1.69
300.0	3.38	3.38	2.92	2.77	2.46	2.15	2.00	1.69	1.69
315.0	2.31	2.15	1.85	1.69	1.54	1.23	1.23	1.23	1.08
330.0	0.92	0.92	0.92	0.92	0.92	0.77	0.61	0.62	0.62
345.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
360.0	0.31	0.31	0.31	0.00	0.00	0.00	0.00	0.00	0.31

Intensity data(cd)

Appendix Page: 17 Total:21

C/γ(°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
15.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
30.0	0.62	0.62	0.62	0.62	0.46	0.31	0.31	0.31	0.31
45.0	1.08	0.77	0.77	0.62	0.62	0.31	0.31	0.31	0.31
60.0	1.38	1.08	1.08	0.92	0.92	0.92	0.77	0.61	0.62
75.0	1.54	1.38	1.23	1.08	1.08	0.92	0.77	0.77	0.77
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	1.54	1.38	1.23	1.08	1.08	0.92	0.77	0.77	0.77
120.0	1.38	1.08	1.08	0.92	0.92	0.92	0.77	0.61	0.62
135.0	1.08	0.77	0.77	0.62	0.62	0.31	0.31	0.31	0.31
150.0	0.62	0.62	0.62	0.62	0.46	0.31	0.31	0.31	0.31
165.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
180.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
195.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
210.0	0.62	0.62	0.62	0.62	0.46	0.31	0.31	0.31	0.31
225.0	1.08	0.77	0.77	0.62	0.62	0.31	0.31	0.31	0.31
240.0	1.38	1.08	1.08	0.92	0.92	0.92	0.77	0.61	0.62
255.0	1.54	1.38	1.23	1.08	1.08	0.92	0.77	0.77	0.77
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	1.54	1.38	1.23	1.08	1.08	0.92	0.77	0.77	0.77
300.0	1.38	1.08	1.08	0.92	0.92	0.92	0.77	0.61	0.62
315.0	1.08	0.77	0.77	0.62	0.62	0.31	0.31	0.31	0.31
330.0	0.62	0.62	0.62	0.62	0.46	0.31	0.31	0.31	0.31
345.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
360.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31

C/γ(°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	0.31	0.31	0.31	0.31	0.62	0.62	0.62	0.62	0.62
15.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
30.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
45.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
60.0	0.62	0.62	0.46	0.46	0.31	0.31	0.31	0.31	0.31
75.0	0.46	0.46	0.46	0.46	0.31	0.31	0.31	0.31	0.31
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.46	0.46	0.46	0.46	0.31	0.31	0.31	0.31	0.31
120.0	0.62	0.62	0.46	0.46	0.31	0.31	0.31	0.31	0.31
135.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
150.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
165.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
180.0	0.31	0.31	0.31	0.31	0.62	0.62	0.62	0.62	0.62
195.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
210.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
225.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
240.0	0.62	0.62	0.46	0.46	0.31	0.31	0.31	0.31	0.31
255.0	0.46	0.46	0.46	0.46	0.31	0.31	0.31	0.31	0.31
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.46	0.46	0.46	0.46	0.31	0.31	0.31	0.31	0.31
300.0	0.62	0.62	0.46	0.46	0.31	0.31	0.31	0.31	0.31
315.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
330.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
345.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
360.0	0.31	0.31	0.31	0.31	0.62	0.62	0.62	0.62	0.62

C/γ(°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.31	0.31
15.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
30.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
45.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
60.0	0.31	0.31	0.31	0.15	0.15	0.31	0.31	0.15	0.15
75.0	0.31	0.31	0.31	0.31	0.31	0.15	0.15	0.15	0.15
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.31	0.31	0.31	0.31	0.31	0.15	0.15	0.15	0.15
120.0	0.31	0.31	0.31	0.15	0.15	0.31	0.31	0.15	0.15
135.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
150.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
165.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
180.0	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.31	0.31
195.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
210.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
225.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
240.0	0.31	0.31	0.31	0.15	0.15	0.31	0.31	0.15	0.15
255.0	0.31	0.31	0.31	0.31	0.31	0.15	0.15	0.15	0.15
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.31	0.31	0.31	0.31	0.31	0.15	0.15	0.15	0.15
300.0	0.31	0.31	0.31	0.15	0.15	0.31	0.31	0.15	0.15
315.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
330.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
345.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
360.0	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.31	0.31

C/γ(°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.00
15.0	0.31	0.46	0.46	0.31	0.15	0.15	0.15	0.00	0.00
30.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.15
45.0	0.31	0.31	0.31	0.31	0.15	0.15	0.15	0.00	0.00
60.0	0.31	0.31	0.31	0.31	0.15	0.15	0.00	0.00	0.00
75.0	0.15	0.15	0.15	0.15	0.15	0.15	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.15	0.15	0.15	0.15	0.15	0.15	0.00	0.00	0.00
120.0	0.31	0.31	0.31	0.31	0.15	0.15	0.00	0.00	0.00
135.0	0.31	0.31	0.31	0.31	0.15	0.15	0.15	0.00	0.00
150.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.15
165.0	0.31	0.46	0.46	0.31	0.15	0.15	0.15	0.00	0.00
180.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.00
195.0	0.31	0.46	0.46	0.31	0.15	0.15	0.15	0.00	0.00
210.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.15
225.0	0.31	0.31	0.31	0.31	0.15	0.15	0.15	0.00	0.00
240.0	0.31	0.31	0.31	0.31	0.15	0.15	0.00	0.00	0.00
255.0	0.15	0.15	0.15	0.15	0.15	0.15	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.15	0.15	0.15	0.15	0.15	0.15	0.00	0.00	0.00
300.0	0.31	0.31	0.31	0.31	0.15	0.15	0.00	0.00	0.00
315.0	0.31	0.31	0.31	0.31	0.15	0.15	0.15	0.00	0.00
330.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.15
345.0	0.31	0.46	0.46	0.31	0.15	0.15	0.15	0.00	0.00
360.0	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.00

C/ γ (°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/ γ (°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Intensity data(cd)

Appendix Page: 21 Total:21

C/γ(°)	180.0
0.0	0.00
15.0	0.00
30.0	0.00
45.0	0.00
60.0	0.00
75.0	0.00
90.0	0.00
105.0	0.00
120.0	0.00
135.0	0.00
150.0	0.00
165.0	0.00
180.0	0.00
195.0	0.00
210.0	0.00
225.0	0.00
240.0	0.00
255.0	0.00
270.0	0.00
285.0	0.00
300.0	0.00
315.0	0.00
330.0	0.00
345.0	0.00
360.0	0.00