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Client:

LumCAT: B7915-PBR/BRZ

Luminaire:

Report No:

Ballast type:

Test No: BST24121708-9

Voltage(V): 120.000

LampCAT:

Current(A): 0.090

Lamp flux(lm): 834.0

Power (W): 10.064

Number of Lamps: 1

PF: 0.928

Length(mm): 380

Width(mm): 380

Phm Type: C

Height(mm): 0

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Photometric Results

Lumens(lm): 37.06, Efficiency(%): 4.44% , Luminous Efficacy(lm/W): 3.68

Central intensity(cd): 0.49, Maximum intensity(cd): 17.07

Angle of maximum intensity: C=180.0  $\gamma$ =29.0

Beam Angle(50%Imax): [C0/180]Total=101.0

[C90/270]Total=155.5

Field angle(10%Imax): [C0/180]Total=203.6

[C90/270]Total=205.9

Beam angle of C180 plane : 133.88

Aveage BeamAngle(IEC 61341):79.01

IES Classification : TypeIV

Longitudinal Classification : VeryShort

Cut Off Classification : Cutoff

Max Cd(At 90°Vert) : 0

Max Cd(80 to 90°Vert) : 0.6246747

Street Side UpWard Lumens: 0.18%of Lamp 4.07%of Luminaire

Street Side DownWard Lumens: 2.11%of Lamp 47.53%of Luminaire

House Side UpWard Lumens: 0.25%of Lamp 5.65%of Luminaire

House Side DownWard Lumens: 1.90%of Lamp 42.75%of Luminaire

SLI: --- (C Flash Area: 0.035)

Throw: 107.1 (long), Spread: 13.3 (narrow), Control: --- (tight)

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Equipment: GMS-1800  
Temperature(°C): 25.0

Date: 2024-12-17  
Humidity(%): 59.0%

Operator: Liao  
Distance(m): 11.43

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	0.495	0.000	0.000	0.000%	0.000%
1.0	0.664	0.001	0.001	0.000%	0.001%
2.0	1.041	0.002	0.003	0.000%	0.008%
3.0	1.887	0.007	0.010	0.001%	0.027%
4.0	2.993	0.016	0.026	0.002%	0.071%
5.0	4.164	0.031	0.057	0.004%	0.154%
6.0	5.531	0.051	0.108	0.006%	0.292%
7.0	7.145	0.079	0.187	0.009%	0.504%
8.0	8.381	0.111	0.298	0.013%	0.804%
9.0	9.253	0.143	0.441	0.017%	1.189%
10.0	10.138	0.175	0.616	0.021%	1.663%
11.0	10.815	0.209	0.826	0.025%	2.228%
12.0	11.257	0.241	1.067	0.029%	2.879%
13.0	11.765	0.273	1.340	0.033%	3.616%
14.0	12.116	0.306	1.646	0.037%	4.441%
15.0	12.441	0.337	1.983	0.040%	5.351%
16.0	12.637	0.367	2.350	0.044%	6.342%
17.0	12.780	0.396	2.746	0.047%	7.410%
18.0	12.884	0.423	3.169	0.051%	8.552%
19.0	12.962	0.450	3.619	0.054%	9.765%
20.0	13.118	0.477	4.096	0.057%	11.053%
21.0	13.170	0.505	4.601	0.061%	12.415%
22.0	13.235	0.531	5.132	0.064%	13.847%
23.0	13.248	0.556	5.687	0.067%	15.347%
24.0	13.352	0.582	6.269	0.070%	16.916%
25.0	13.483	0.610	6.879	0.073%	18.562%
26.0	13.613	0.640	7.519	0.077%	20.288%
27.0	13.769	0.670	8.189	0.080%	22.096%
28.0	13.821	0.699	8.887	0.084%	23.981%
29.0	13.717	0.720	9.608	0.086%	25.925%
30.0	13.470	0.734	10.342	0.088%	27.905%
31.0	13.378	0.747	11.089	0.090%	29.922%
32.0	13.079	0.758	11.847	0.091%	31.967%
33.0	12.728	0.760	12.607	0.091%	34.018%
34.0	12.207	0.755	13.362	0.090%	36.054%
35.0	11.765	0.744	14.106	0.089%	38.063%
36.0	11.335	0.736	14.842	0.088%	40.048%
37.0	10.906	0.725	15.567	0.087%	42.005%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	10.489	0.714	16.281	0.086%	43.932%
39.0	9.995	0.699	16.980	0.084%	45.819%
40.0	9.487	0.679	17.660	0.081%	47.652%
41.0	9.019	0.659	18.319	0.079%	49.431%
42.0	8.667	0.643	18.961	0.077%	51.164%
43.0	8.368	0.631	19.592	0.076%	52.867%
44.0	8.082	0.621	20.213	0.074%	54.542%
45.0	7.821	0.611	20.824	0.073%	56.192%
46.0	7.600	0.603	21.428	0.072%	57.819%
47.0	7.379	0.596	22.023	0.071%	59.427%
48.0	7.197	0.589	22.613	0.071%	61.016%
49.0	7.028	0.584	23.197	0.070%	62.593%
50.0	6.819	0.577	23.774	0.069%	64.151%
51.0	6.598	0.568	24.342	0.068%	65.682%
52.0	6.403	0.558	24.900	0.067%	67.188%
53.0	6.208	0.549	25.448	0.066%	68.668%
54.0	6.012	0.539	25.987	0.065%	70.121%
55.0	5.713	0.523	26.510	0.063%	71.534%
56.0	5.505	0.507	27.017	0.061%	72.901%
57.0	5.245	0.491	27.509	0.059%	74.228%
58.0	5.010	0.474	27.983	0.057%	75.507%
59.0	4.776	0.458	28.440	0.055%	76.742%
60.0	4.542	0.440	28.881	0.053%	77.930%
61.0	4.282	0.421	29.302	0.050%	79.066%
62.0	4.034	0.401	29.702	0.048%	80.147%
63.0	3.813	0.382	30.084	0.046%	81.177%
64.0	3.592	0.363	30.447	0.044%	82.157%
65.0	3.358	0.344	30.791	0.041%	83.086%
66.0	3.110	0.323	31.114	0.039%	83.956%
67.0	2.876	0.301	31.415	0.036%	84.769%
68.0	2.655	0.280	31.695	0.034%	85.525%
69.0	2.473	0.262	31.957	0.031%	86.230%
70.0	2.290	0.245	32.201	0.029%	86.891%
71.0	2.082	0.226	32.427	0.027%	87.500%
72.0	1.835	0.204	32.631	0.024%	88.050%
73.0	1.601	0.180	32.811	0.022%	88.535%
74.0	1.406	0.158	32.969	0.019%	88.961%
75.0	1.197	0.138	33.106	0.016%	89.332%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	0.924	0.113	33.219	0.014%	89.636%
77.0	0.703	0.087	33.306	0.010%	89.870%
78.0	0.482	0.063	33.369	0.008%	90.041%
79.0	0.338	0.044	33.413	0.005%	90.160%
80.0	0.156	0.027	33.440	0.003%	90.232%
81.0	0.065	0.012	33.452	0.001%	90.264%
82.0	0.026	0.005	33.457	0.001%	90.278%
83.0	0.000	0.001	33.458	0.000%	90.281%
84.0	0.000	0.000	33.458	0.000%	90.281%
85.0	0.000	0.000	33.458	0.000%	90.281%
86.0	0.000	0.000	33.458	0.000%	90.281%
87.0	0.000	0.000	33.458	0.000%	90.281%
88.0	0.000	0.000	33.458	0.000%	90.281%
89.0	0.000	0.000	33.458	0.000%	90.281%
90.0	0.000	0.000	33.458	0.000%	90.281%
91.0	0.000	0.000	33.458	0.000%	90.281%
92.0	0.026	0.001	33.460	0.000%	90.285%
93.0	0.169	0.011	33.470	0.001%	90.314%
94.0	0.547	0.039	33.509	0.005%	90.420%
95.0	1.262	0.099	33.608	0.012%	90.687%
96.0	2.004	0.178	33.787	0.021%	91.168%
97.0	3.058	0.276	34.062	0.033%	91.912%
98.0	4.138	0.391	34.454	0.047%	92.968%
99.0	5.023	0.497	34.950	0.060%	94.308%
100.0	4.932	0.538	35.489	0.065%	95.761%
101.0	4.854	0.528	36.016	0.063%	97.185%
102.0	3.813	0.466	36.482	0.056%	98.441%
103.0	2.447	0.335	36.817	0.040%	99.345%
104.0	0.976	0.182	37.000	0.022%	99.838%
105.0	0.078	0.056	37.056	0.007%	99.989%
106.0	0.000	0.004	37.060	0.000%	100.000%
107.0	0.000	0.000	37.060	0.000%	100.000%
108.0	0.000	0.000	37.060	0.000%	100.000%
109.0	0.000	0.000	37.060	0.000%	100.000%
110.0	0.000	0.000	37.060	0.000%	100.000%
111.0	0.000	0.000	37.060	0.000%	100.000%
112.0	0.000	0.000	37.060	0.000%	100.000%
113.0	0.000	0.000	37.060	0.000%	100.000%

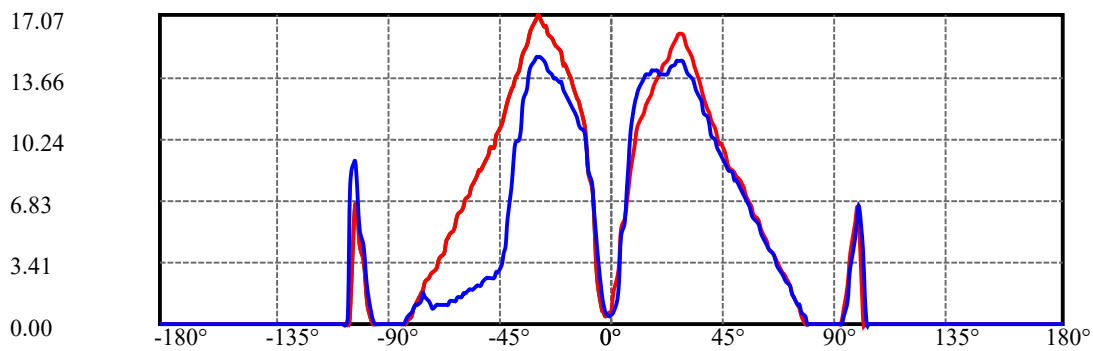
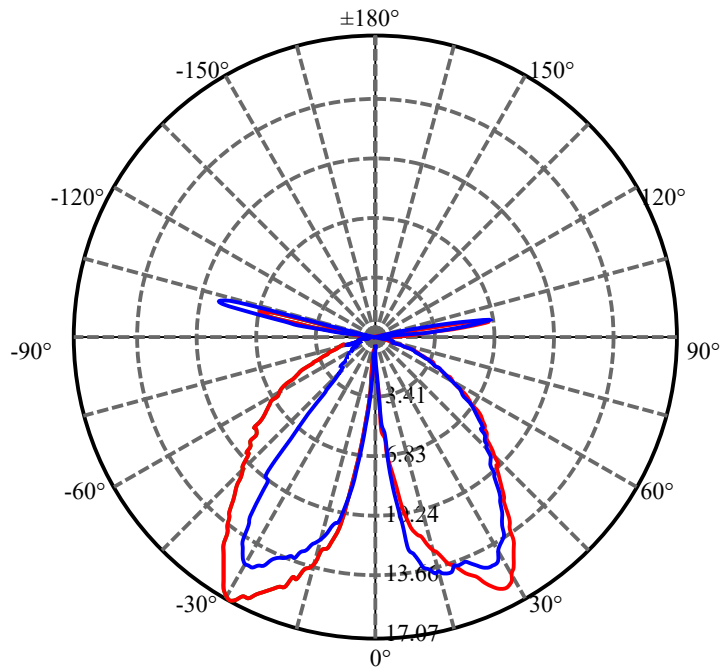
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	0.000	0.000	37.060	0.000%	100.000%
115.0	0.000	0.000	37.060	0.000%	100.000%
116.0	0.000	0.000	37.060	0.000%	100.000%
117.0	0.000	0.000	37.060	0.000%	100.000%
118.0	0.000	0.000	37.060	0.000%	100.000%
119.0	0.000	0.000	37.060	0.000%	100.000%
120.0	0.000	0.000	37.060	0.000%	100.000%
121.0	0.000	0.000	37.060	0.000%	100.000%
122.0	0.000	0.000	37.060	0.000%	100.000%
123.0	0.000	0.000	37.060	0.000%	100.000%
124.0	0.000	0.000	37.060	0.000%	100.000%
125.0	0.000	0.000	37.060	0.000%	100.000%
126.0	0.000	0.000	37.060	0.000%	100.000%
127.0	0.000	0.000	37.060	0.000%	100.000%
128.0	0.000	0.000	37.060	0.000%	100.000%
129.0	0.000	0.000	37.060	0.000%	100.000%
130.0	0.000	0.000	37.060	0.000%	100.000%
131.0	0.000	0.000	37.060	0.000%	100.000%
132.0	0.000	0.000	37.060	0.000%	100.000%
133.0	0.000	0.000	37.060	0.000%	100.000%
134.0	0.000	0.000	37.060	0.000%	100.000%
135.0	0.000	0.000	37.060	0.000%	100.000%
136.0	0.000	0.000	37.060	0.000%	100.000%
137.0	0.000	0.000	37.060	0.000%	100.000%
138.0	0.000	0.000	37.060	0.000%	100.000%
139.0	0.000	0.000	37.060	0.000%	100.000%
140.0	0.000	0.000	37.060	0.000%	100.000%
141.0	0.000	0.000	37.060	0.000%	100.000%
142.0	0.000	0.000	37.060	0.000%	100.000%
143.0	0.000	0.000	37.060	0.000%	100.000%
144.0	0.000	0.000	37.060	0.000%	100.000%
145.0	0.000	0.000	37.060	0.000%	100.000%
146.0	0.000	0.000	37.060	0.000%	100.000%
147.0	0.000	0.000	37.060	0.000%	100.000%
148.0	0.000	0.000	37.060	0.000%	100.000%
149.0	0.000	0.000	37.060	0.000%	100.000%
150.0	0.000	0.000	37.060	0.000%	100.000%
151.0	0.000	0.000	37.060	0.000%	100.000%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	0.000	0.000	37.060	0.000%	100.000%
153.0	0.000	0.000	37.060	0.000%	100.000%
154.0	0.000	0.000	37.060	0.000%	100.000%
155.0	0.000	0.000	37.060	0.000%	100.000%
156.0	0.000	0.000	37.060	0.000%	100.000%
157.0	0.000	0.000	37.060	0.000%	100.000%
158.0	0.000	0.000	37.060	0.000%	100.000%
159.0	0.000	0.000	37.060	0.000%	100.000%
160.0	0.000	0.000	37.060	0.000%	100.000%
161.0	0.000	0.000	37.060	0.000%	100.000%
162.0	0.000	0.000	37.060	0.000%	100.000%
163.0	0.000	0.000	37.060	0.000%	100.000%
164.0	0.000	0.000	37.060	0.000%	100.000%
165.0	0.000	0.000	37.060	0.000%	100.000%
166.0	0.000	0.000	37.060	0.000%	100.000%
167.0	0.000	0.000	37.060	0.000%	100.000%
168.0	0.000	0.000	37.060	0.000%	100.000%
169.0	0.000	0.000	37.060	0.000%	100.000%
170.0	0.000	0.000	37.060	0.000%	100.000%
171.0	0.000	0.000	37.060	0.000%	100.000%
172.0	0.000	0.000	37.060	0.000%	100.000%
173.0	0.000	0.000	37.060	0.000%	100.000%
174.0	0.000	0.000	37.060	0.000%	100.000%
175.0	0.000	0.000	37.060	0.000%	100.000%
176.0	0.000	0.000	37.060	0.000%	100.000%
177.0	0.000	0.000	37.060	0.000%	100.000%
178.0	0.000	0.000	37.060	0.000%	100.000%
179.0	0.000	0.000	37.060	0.000%	100.000%
180.0	0.000	0.000	37.060	0.000%	100.000%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	10.34	1.24%	27.91%
0-40	17.66	2.12%	47.65%
0-60	28.88	3.46%	77.93%
0-90	33.46	4.01%	90.28%
0-120	37.06	4.44%	100.00%
0-180	37.06	4.44%	100.00%
60-90	4.58	0.55%	12.35%
90-120	3.60	0.43%	9.72%
90-130	3.60	0.43%	9.72%
90-150	3.60	0.43%	9.72%
90-180	3.60	0.43%	9.72%
0-61.86	29.65	3.55%	80.00%

ZONAL LUMEN SUMMARY

0-10	0.62
10-20	3.48
20-30	6.25
30-40	7.32
40-50	6.11
50-60	5.11
60-70	3.32
70-80	1.24
80-90	0.02
90-100	2.03
100-110	1.57
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



C180(Max): —————

C0/C180: —————

C90/C270: —————

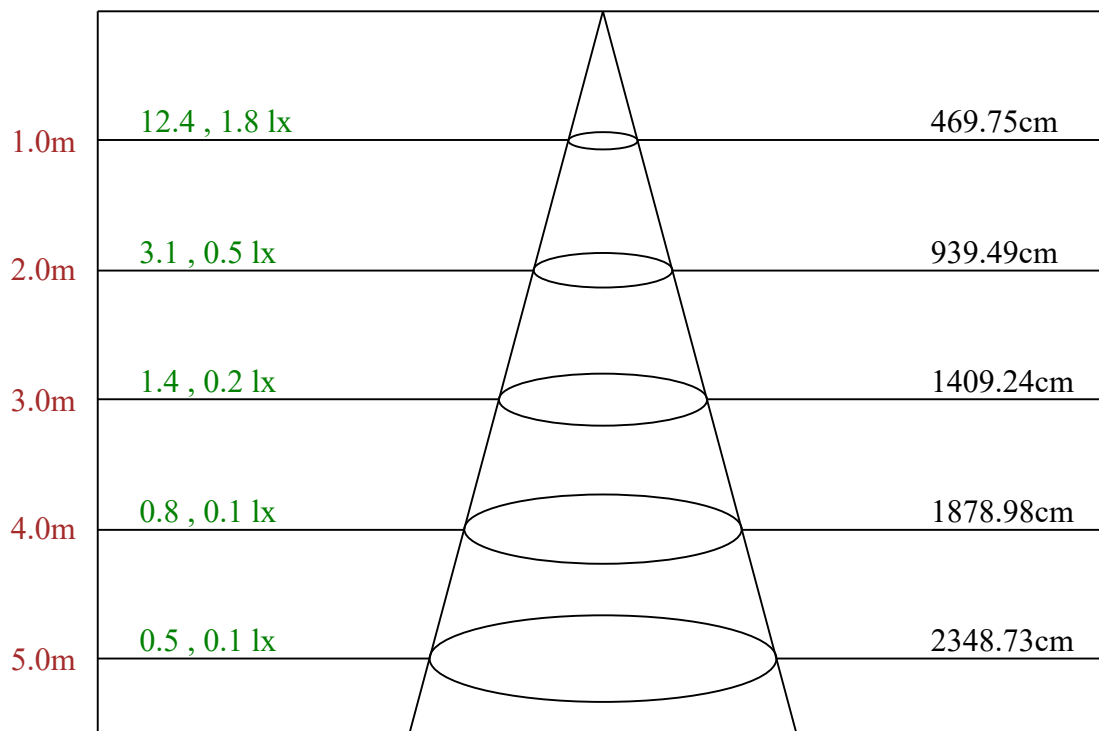
Field angle(10%I<sub>max</sub>):C0/180Left:74.8 Right:128.8

:C90/270Left:76.9 Right:129.0

Beam Angle(50%I<sub>max</sub>):C0/180Left:24.0 Right:77.0

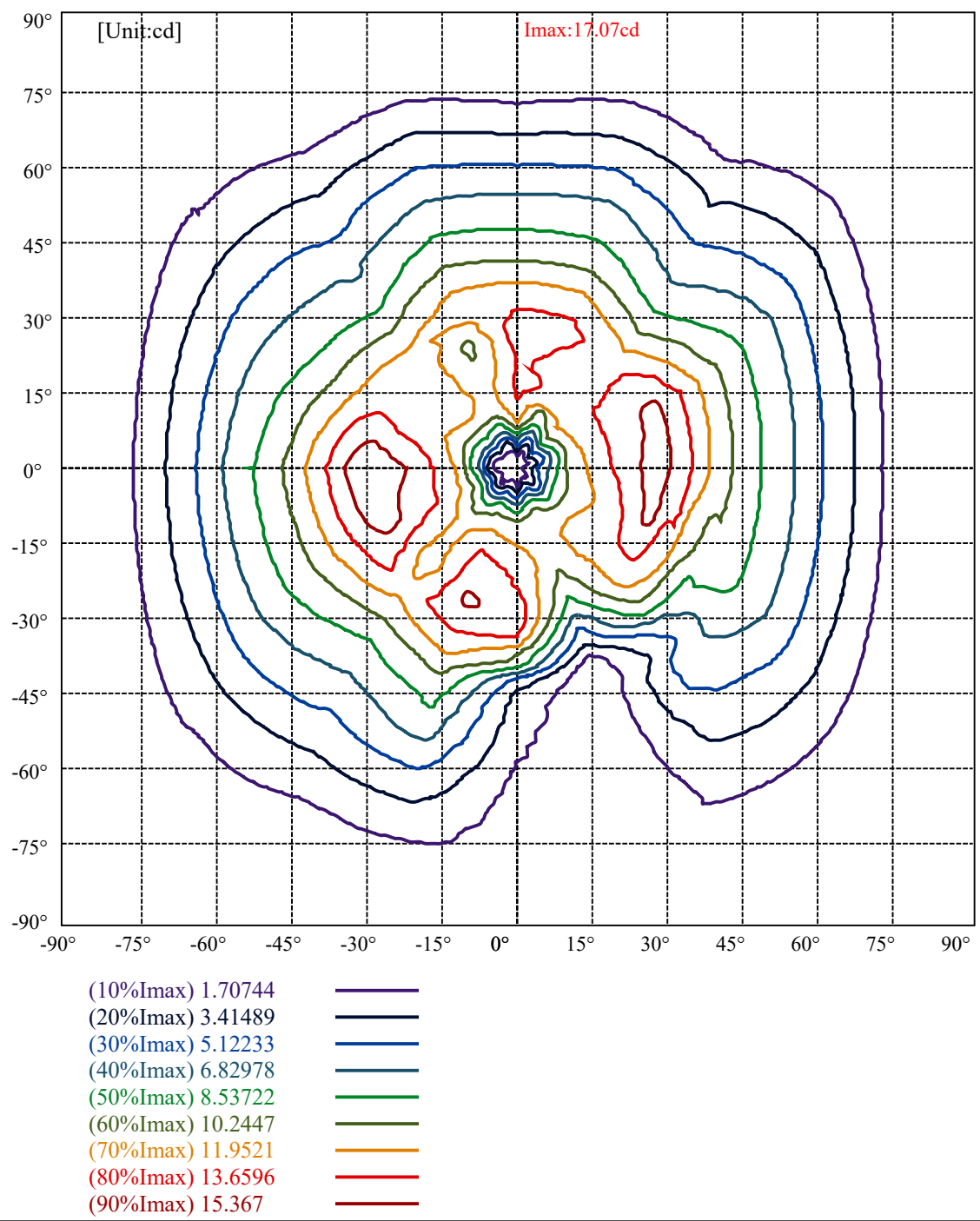
:C90/270Left:76.0 Right:79.5

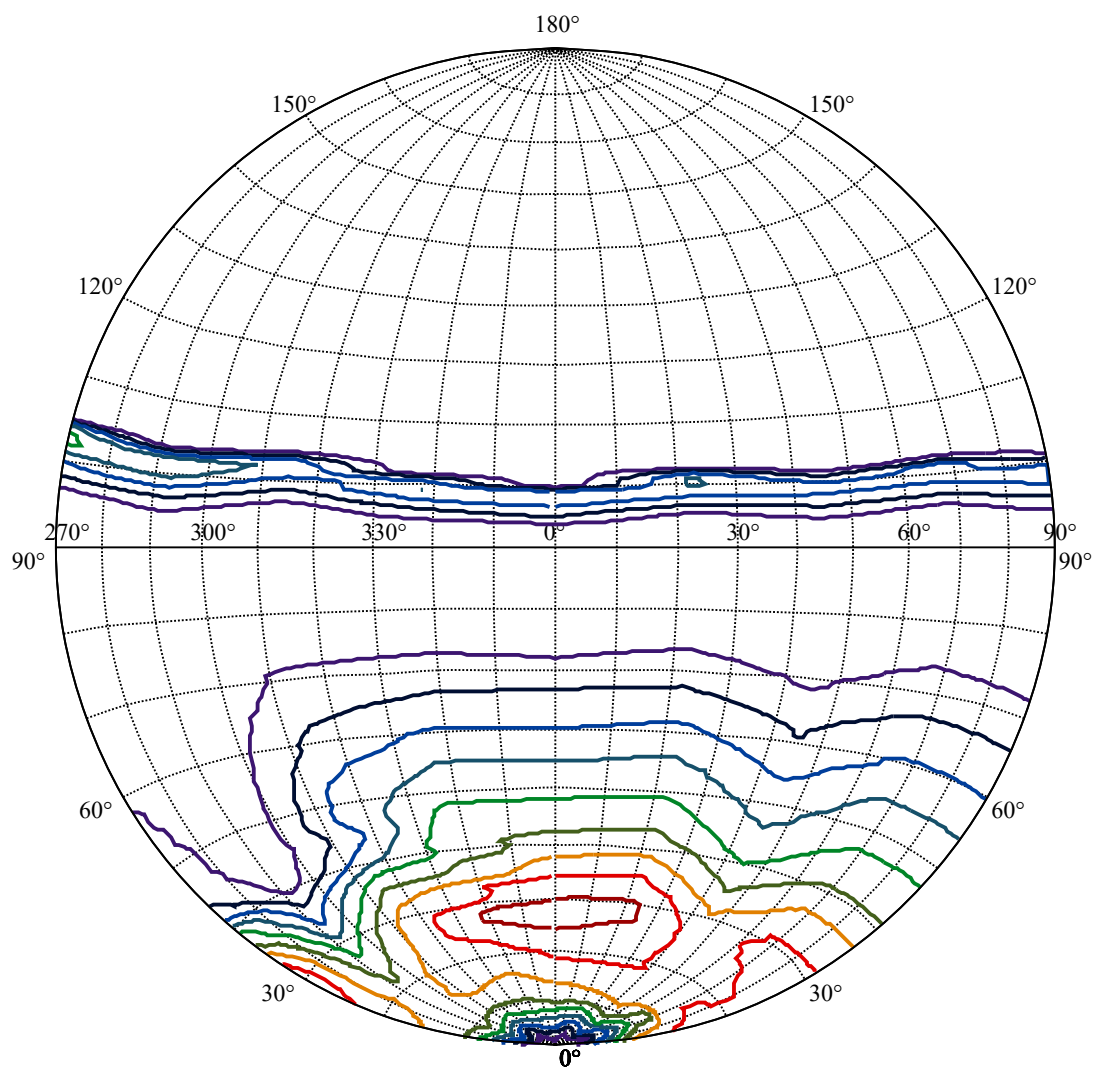




Max , Ave

Beam angle of C180 plane 133.88





House

[Unit:cd]

Road

Imax:17.07

(10%Imax) 1.70744

(20%Imax) 3.41489

(30%Imax) 5.12233

(40%Imax) 6.82978

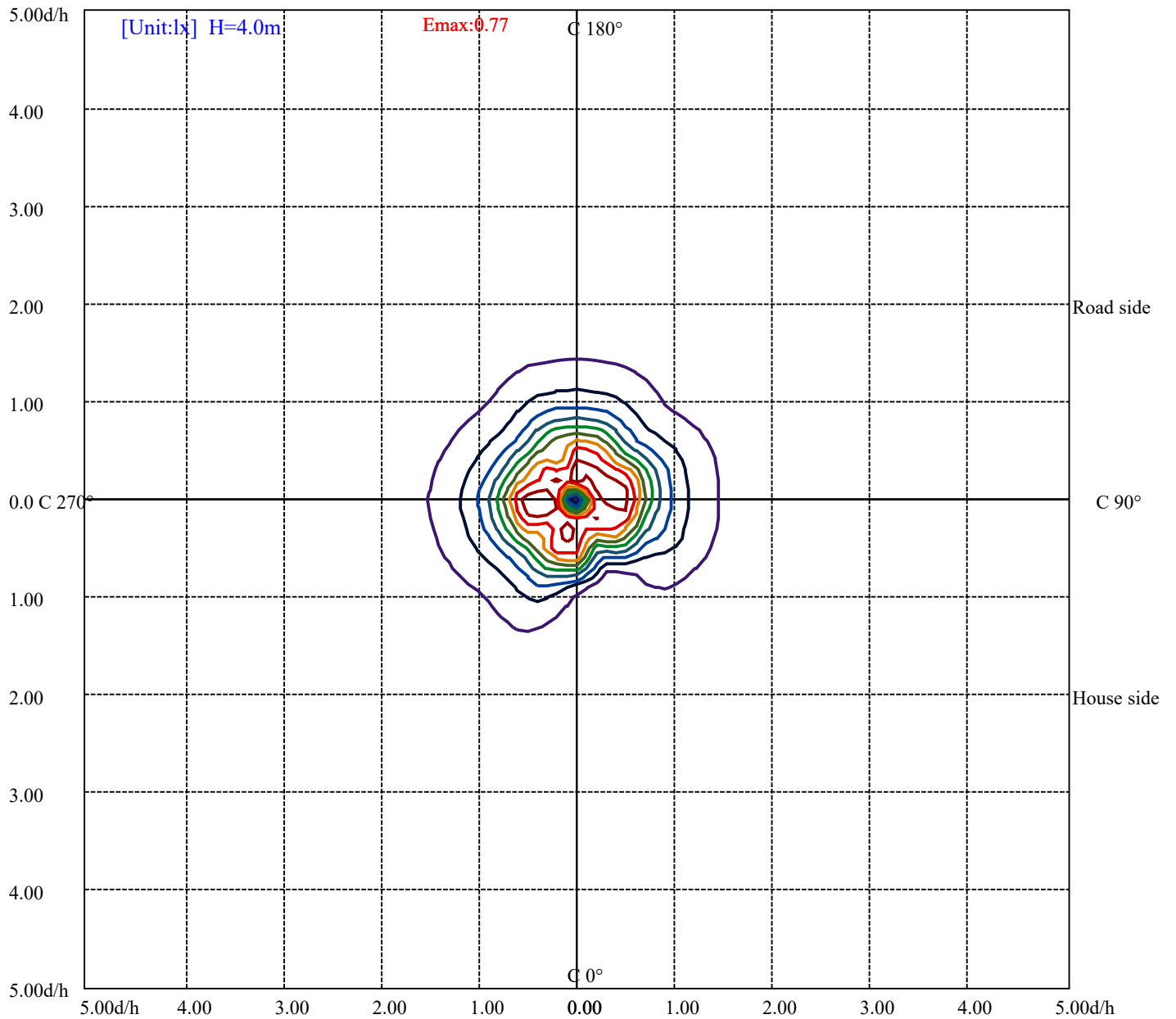
(50%Imax) 8.53722

(60%Imax) 10.2447

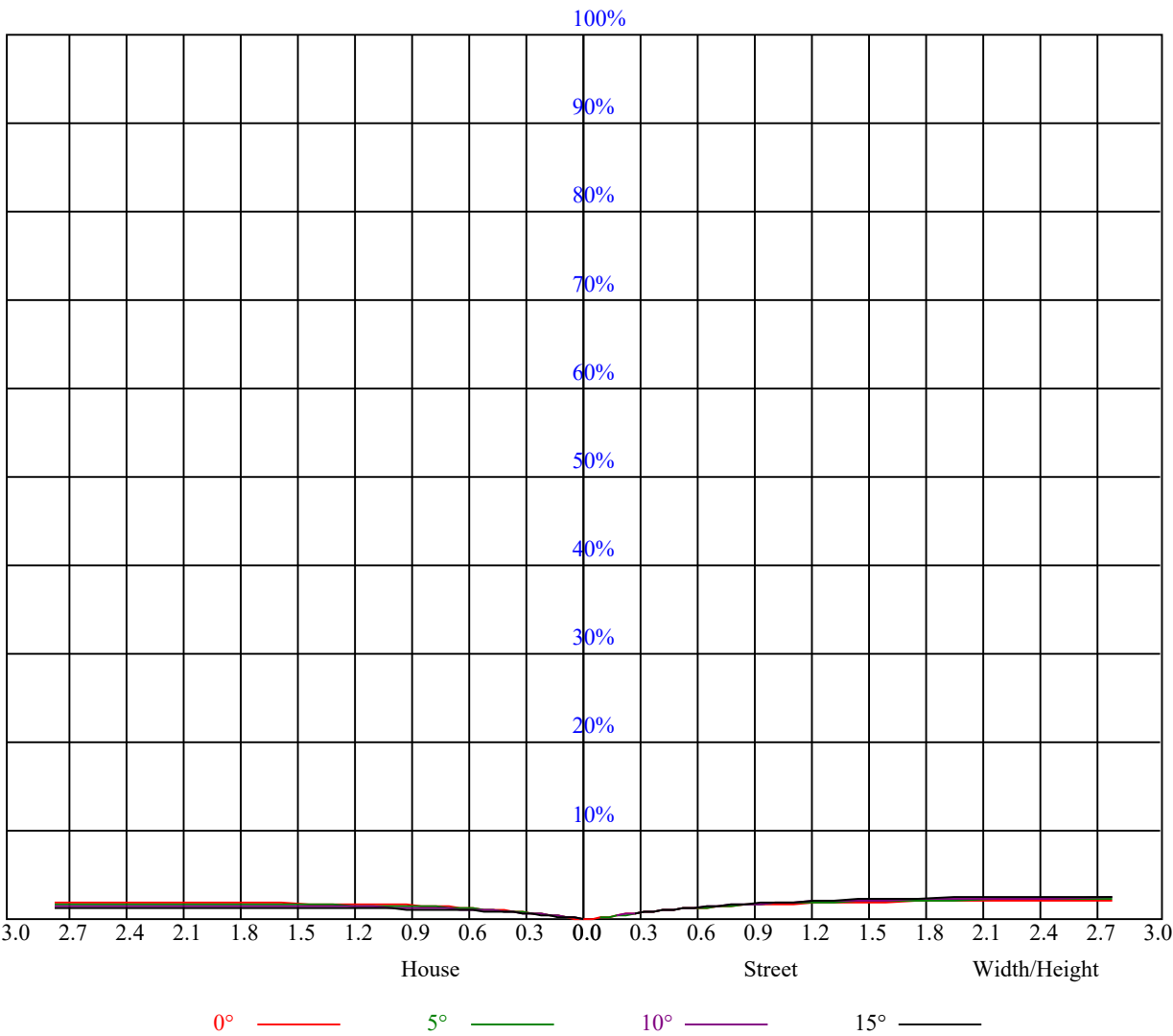
(70%Imax) 11.9521

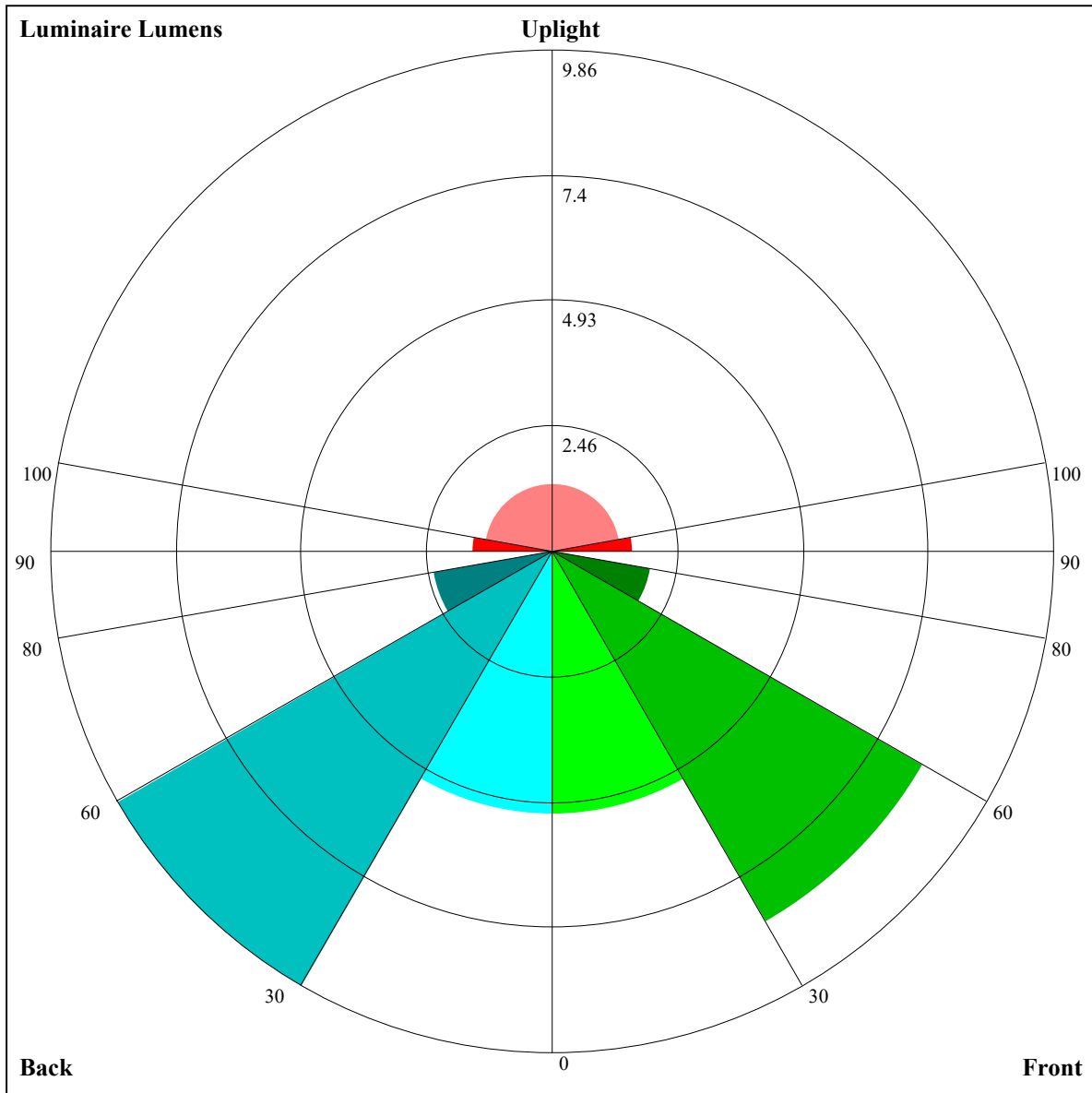
(80%Imax) 13.6596

(90%Imax) 15.367



(10%Emax) 0.07687438	—
(20%Emax) 0.1537481	—
(30%Emax) 0.2306225	—
(40%Emax) 0.3074962	—
(50%Emax) 0.3843706	—
(60%Emax) 0.461245	—
(70%Emax) 0.5381188	—
(80%Emax) 0.6149931	—
(90%Emax) 0.6918687	—





Luminaire Lumens:

FL=5.19,FM=8.4,FH=1.98,FVH=0.01

BL=5.16,BM=9.86,BH=2.4,BVH=0.01

UL=1.59,UH=1.33

BUG Rating:B0-U1-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	0.49	1.67	2.50	3.33	5.21	5.83	6.66	7.50	8.54
22.5	0.49	0.62	1.04	1.87	2.50	4.16	5.41	6.66	7.91
45.0	0.49	1.04	1.87	3.75	5.21	5.83	7.08	9.16	9.99
67.5	0.49	0.21	0.42	0.83	1.25	3.54	3.96	5.41	6.87
90.0	0.49	0.62	1.25	2.29	4.79	5.62	7.29	8.95	10.62
112.5	0.49	0.42	0.42	0.62	1.04	2.08	3.96	6.04	7.29
135.0	0.49	0.42	0.83	1.67	3.12	4.16	5.41	6.66	8.12
157.5	0.49	0.42	0.42	0.62	1.04	2.29	3.96	6.25	7.50
180.0	0.49	0.62	0.42	0.62	0.83	2.08	3.54	6.04	7.50
202.5	0.49	0.42	0.83	1.67	3.12	3.96	6.25	7.70	8.95
225.0	0.49	0.42	0.42	0.62	1.04	2.50	4.16	5.83	7.29
247.5	0.49	0.62	1.04	2.50	4.58	5.21	6.25	7.91	8.95
270.0	0.49	0.42	0.62	1.04	1.67	3.75	5.00	6.25	7.70
292.5	0.49	1.04	1.67	3.75	5.41	6.25	7.70	8.95	9.99
315.0	0.49	0.42	0.62	1.67	2.29	3.96	5.21	6.87	8.12
337.5	0.49	1.25	2.29	3.33	4.79	5.41	6.66	8.12	8.75
360.0	0.49	1.67	2.50	3.33	5.21	5.83	6.66	7.50	8.54
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	9.79	10.62	11.04	11.45	11.66	12.08	12.49	12.70	13.12
22.5	8.95	10.20	11.04	11.66	12.08	12.29	12.91	13.12	13.33
45.0	10.83	11.24	11.87	12.29	12.70	13.12	13.33	13.33	13.53
67.5	7.91	9.37	9.37	9.58	11.87	12.91	13.33	13.53	13.53
90.0	12.08	12.49	12.91	13.33	13.53	13.74	13.74	13.95	13.95
112.5	7.91	9.37	10.20	10.83	11.04	11.24	11.24	11.24	11.24
135.0	8.95	9.58	10.62	11.04	11.87	12.29	12.49	12.70	12.70
157.5	7.91	9.37	9.99	10.62	11.04	11.45	11.87	12.08	12.29
180.0	8.33	9.99	11.04	11.87	12.29	12.49	13.12	13.53	13.74
202.5	10.20	10.62	11.45	12.08	12.29	12.70	13.12	13.33	13.74
225.0	7.91	8.75	9.79	9.99	10.83	10.83	11.45	11.45	11.45
247.5	9.99	10.41	11.04	11.45	11.87	12.49	12.91	13.33	13.74
270.0	8.54	9.79	10.62	10.83	11.04	11.45	11.87	12.08	12.29
292.5	10.62	10.83	11.24	11.45	11.45	11.45	11.45	11.45	11.24
315.0	8.75	9.79	10.41	11.04	11.45	11.87	12.29	12.49	12.49
337.5	9.37	9.79	10.41	10.62	11.24	11.45	11.45	11.87	12.08
360.0	9.79	10.62	11.04	11.45	11.66	12.08	12.49	12.70	13.12
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	13.53	13.74	13.95	14.37	14.58	14.78	15.20	15.62	15.83
22.5	13.53	13.95	14.16	14.37	14.37	14.58	14.78	14.99	15.20
45.0	13.53	13.53	13.33	13.33	13.33	13.33	13.33	13.33	13.12
67.5	13.53	13.53	13.53	13.53	13.53	13.53	13.53	13.53	13.74
90.0	13.95	13.74	13.74	13.74	13.74	13.95	14.16	14.37	14.58
112.5	10.83	10.62	10.62	10.41	10.41	9.99	9.99	9.79	9.58
135.0	12.70	12.70	12.91	12.91	12.91	12.91	12.91	12.91	13.12
157.5	12.49	12.49	12.70	12.70	12.70	12.70	12.70	12.91	13.12
180.0	14.37	14.37	14.99	15.20	15.41	15.62	15.83	16.03	16.45
202.5	13.74	13.95	14.16	14.37	14.78	14.78	14.99	15.41	15.62
225.0	11.45	11.45	11.45	11.24	11.24	11.04	10.83	10.83	10.83
247.5	13.74	14.16	14.37	14.58	14.78	14.78	14.99	15.20	15.41
270.0	12.70	12.91	13.33	13.33	13.53	13.53	13.74	13.95	14.37
292.5	11.04	10.83	10.83	10.41	9.99	9.99	9.58	9.16	8.95
315.0	12.70	12.70	12.91	12.91	12.91	12.70	12.70	12.70	12.70
337.5	12.29	12.70	12.91	13.33	13.53	13.74	14.37	14.99	15.20
360.0	13.53	13.74	13.95	14.37	14.58	14.78	15.20	15.62	15.83

## Intensity data(cd)

C/ $\gamma$ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	16.03	16.03	15.83	15.41	15.20	14.78	14.37	13.95	13.33
22.5	15.62	15.62	15.62	15.62	15.20	14.99	14.37	13.95	13.74
45.0	13.12	12.91	12.49	12.08	11.87	11.66	11.04	10.62	10.20
67.5	13.74	13.95	13.95	13.74	13.74	13.33	13.12	12.70	12.49
90.0	14.58	14.58	14.37	13.95	13.74	13.53	13.33	12.91	12.49
112.5	10.41	11.04	11.04	11.45	12.91	12.91	12.91	12.49	12.49
135.0	13.12	12.91	12.70	12.29	12.08	11.66	11.45	10.83	10.41
157.5	13.12	13.33	13.33	13.12	12.91	12.70	12.49	12.08	11.87
180.0	16.45	16.87	17.07	16.87	16.66	16.24	15.83	15.41	14.99
202.5	15.83	15.83	15.62	15.41	15.20	14.99	14.58	13.95	13.53
225.0	11.45	11.45	11.66	12.29	12.91	12.70	12.29	11.87	11.66
247.5	15.62	15.62	15.41	15.20	14.99	14.58	14.16	13.74	13.33
270.0	14.58	14.78	14.78	14.78	14.58	14.16	13.74	12.91	12.29
292.5	8.54	8.12	7.70	7.08	6.66	5.83	5.21	4.79	4.37
315.0	12.70	12.70	12.70	12.49	12.08	11.87	11.24	10.83	10.41
337.5	15.41	15.41	15.20	13.74	13.33	13.33	13.53	12.29	10.62
360.0	16.03	16.03	15.83	15.41	15.20	14.78	14.37	13.95	13.33
C/ $\gamma$ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	12.91	12.49	11.87	11.66	11.24	10.83	10.41	9.99	9.99
22.5	13.12	12.70	12.29	11.87	11.66	11.04	10.62	10.41	9.99
45.0	9.99	9.58	9.16	8.95	8.54	8.12	7.70	7.50	7.29
67.5	12.08	11.87	11.45	11.04	10.62	10.20	9.99	9.79	9.37
90.0	12.29	11.66	11.45	11.04	10.41	10.20	9.79	9.58	9.37
112.5	12.08	11.87	11.66	11.24	10.83	10.41	10.20	9.99	9.58
135.0	10.20	9.79	9.58	9.16	8.75	8.33	8.12	7.70	7.50
157.5	11.45	11.04	10.83	10.41	9.99	9.58	9.37	9.16	8.75
180.0	14.58	13.95	13.53	13.12	12.91	12.29	11.87	11.45	11.04
202.5	13.33	12.91	12.29	12.08	11.66	11.24	10.83	10.41	10.20
225.0	11.24	10.83	10.41	10.20	9.58	9.16	8.95	8.75	8.33
247.5	13.12	12.70	12.29	11.87	11.45	10.83	10.62	10.20	9.99
270.0	10.83	10.20	9.99	8.95	7.50	5.83	4.37	3.96	3.33
292.5	3.96	3.33	2.50	1.87	1.04	0.62	0.62	0.42	0.42
315.0	9.79	9.16	8.33	7.29	6.45	5.83	5.41	5.00	4.58
337.5	10.41	10.41	10.20	9.16	9.16	9.79	9.79	9.58	9.58
360.0	12.91	12.49	11.87	11.66	11.24	10.83	10.41	9.99	9.99
C/ $\gamma$ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	9.58	9.16	8.75	8.54	8.33	8.12	7.91	7.70	7.50
22.5	9.58	9.37	9.16	8.95	8.54	8.33	8.12	7.91	7.50
45.0	7.08	6.87	6.66	6.25	6.25	6.04	5.62	5.62	5.41
67.5	9.16	8.75	8.54	8.33	8.12	7.91	7.70	7.50	7.29
90.0	8.95	8.75	8.54	8.33	7.91	7.91	7.50	7.29	7.08
112.5	9.37	8.95	8.75	8.54	8.33	7.91	7.91	7.50	7.29
135.0	7.50	7.08	6.87	6.66	6.66	6.45	6.04	5.83	5.62
157.5	8.54	8.33	8.12	7.91	7.70	7.29	7.29	7.08	6.87
180.0	10.62	10.41	9.79	9.79	9.37	9.16	8.75	8.54	8.54
202.5	9.79	9.58	9.37	8.95	8.75	8.54	8.33	8.12	7.70
225.0	8.12	7.70	7.50	7.29	7.08	6.87	6.66	6.25	6.04
247.5	9.79	9.37	8.95	8.75	8.75	8.33	7.91	7.91	7.70
270.0	2.92	2.92	2.50	2.50	2.50	2.50	2.29	2.08	2.08
292.5	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
315.0	4.58	5.00	5.41	5.62	5.62	5.41	5.41	5.41	5.21
337.5	9.37	9.16	8.95	8.54	8.33	8.12	7.91	7.50	7.29
360.0	9.58	9.16	8.75	8.54	8.33	8.12	7.91	7.70	7.50



## Intensity data(cd)

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C/ $\gamma$ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	7.08	6.66	6.45	6.04	5.83	5.62	5.21	4.79	4.58
22.5	7.50	7.08	6.87	6.45	6.25	5.83	5.62	5.41	5.00
45.0	5.21	4.79	4.58	4.37	4.16	3.96	3.75	3.33	3.33
67.5	7.08	6.66	6.45	6.25	5.83	5.41	5.41	5.00	4.79
90.0	6.87	6.45	6.04	5.83	5.62	5.41	5.00	4.58	4.37
112.5	7.08	6.66	6.66	6.25	6.04	5.62	5.41	5.21	4.79
135.0	5.41	5.21	4.79	4.79	4.58	4.37	3.96	3.75	3.54
157.5	6.66	6.45	6.25	5.83	5.62	5.41	5.21	5.00	4.58
180.0	8.12	7.70	7.50	7.08	6.87	6.45	6.25	6.04	5.62
202.5	7.50	7.08	6.87	6.66	6.25	6.04	5.62	5.41	5.21
225.0	5.83	5.62	5.62	5.21	5.00	4.79	4.58	4.37	3.96
247.5	7.50	7.29	6.66	6.45	6.25	6.04	5.62	5.21	5.00
270.0	2.08	1.87	1.87	1.87	1.67	1.67	1.46	1.46	1.25
292.5	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
315.0	5.00	4.79	4.79	4.37	4.16	3.96	3.96	3.75	3.54
337.5	7.08	6.87	6.45	6.25	5.83	5.62	5.41	5.00	4.79
360.0	7.08	6.66	6.45	6.04	5.83	5.62	5.21	4.79	4.58
C/ $\gamma$ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.16	3.96	3.75	3.54	3.33	2.92	2.71	2.50	2.08
22.5	4.79	4.37	4.16	3.96	3.54	3.33	3.12	2.71	2.50
45.0	3.12	2.92	2.71	2.29	2.08	1.87	1.46	1.46	1.04
67.5	4.58	4.37	3.96	3.75	3.33	3.12	3.12	2.71	2.50
90.0	4.16	3.96	3.75	3.33	3.12	2.71	2.50	2.29	2.08
112.5	4.58	4.37	3.96	3.75	3.54	3.33	3.12	2.71	2.50
135.0	3.33	3.12	2.92	2.71	2.50	2.08	1.87	1.67	1.25
157.5	4.37	4.16	3.75	3.54	3.33	3.12	2.92	2.71	2.50
180.0	5.21	5.00	4.79	4.58	3.96	3.75	3.54	3.12	2.92
202.5	4.79	4.37	3.96	3.75	3.54	3.33	3.12	2.92	2.71
225.0	3.75	3.54	3.33	3.12	2.92	2.71	2.50	2.29	2.08
247.5	4.79	4.58	4.37	3.96	3.54	3.33	3.12	3.12	2.71
270.0	1.25	1.25	1.04	1.04	1.04	1.04	1.04	1.04	0.83
292.5	0.21	0.21	0.42	0.21	0.42	0.21	0.42	0.62	1.25
315.0	3.33	3.12	2.92	2.71	2.50	2.50	2.29	2.08	1.87
337.5	4.58	4.16	3.96	3.54	3.33	3.12	2.71	2.71	2.50
360.0	4.16	3.96	3.75	3.54	3.33	2.92	2.71	2.50	2.08
C/ $\gamma$ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	1.67	1.46	1.04	0.83	0.42	0.00	0.00	0.00	0.00
22.5	2.29	1.87	1.67	1.25	1.04	0.83	0.62	0.21	0.21
45.0	0.83	0.62	0.42	0.42	0.21	0.21	0.00	0.00	0.00
67.5	2.29	1.87	1.67	1.04	1.04	0.83	0.62	0.42	0.00
90.0	1.67	1.46	1.04	1.04	0.62	0.42	0.00	0.00	0.00
112.5	2.29	1.87	1.67	1.25	1.04	0.83	0.42	0.21	0.00
135.0	1.04	0.83	0.62	0.62	0.42	0.21	0.00	0.00	0.00
157.5	2.08	1.67	1.67	1.25	1.04	0.83	0.42	0.21	0.00
180.0	2.71	2.50	2.29	1.87	1.67	1.25	1.04	0.83	0.42
202.5	2.29	2.08	1.67	1.67	1.25	0.83	0.83	0.62	0.21
225.0	1.67	1.46	1.46	1.04	0.83	0.62	0.42	0.42	0.21
247.5	2.29	2.08	1.87	1.67	1.25	1.04	0.83	0.62	0.42
270.0	1.04	1.25	1.46	1.67	1.25	1.04	1.04	0.83	0.62
292.5	1.46	1.67	1.46	1.25	1.04	0.83	0.62	0.62	0.21
315.0	1.67	1.25	1.25	1.04	0.62	0.62	0.42	0.42	0.21
337.5	2.08	1.67	1.25	1.25	1.04	0.83	0.42	0.00	0.00
360.0	1.67	1.46	1.04	0.83	0.42	0.00	0.00	0.00	0.00

## Intensity data(cd)

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C/ $\gamma$ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	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
67.5	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
112.5	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
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.42	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	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/ $\gamma$ (°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	0.00	0.00	0.21	0.83	2.08	3.54	4.37	5.62	6.45
22.5	0.00	0.00	0.00	0.21	0.62	1.04	2.50	3.75	5.00
45.0	0.00	0.00	0.21	0.42	1.25	2.50	3.33	4.16	5.21
67.5	0.00	0.00	0.00	0.00	0.42	0.62	1.87	3.12	4.16
90.0	0.00	0.00	0.00	0.42	1.25	2.71	3.54	4.79	5.83
112.5	0.00	0.00	0.00	0.00	0.21	0.42	1.46	2.71	3.75
135.0	0.00	0.00	0.00	0.21	0.62	1.87	2.50	3.33	4.16
157.5	0.00	0.00	0.00	0.00	0.00	0.21	0.62	1.46	2.50
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.21	1.04	2.29
202.5	0.00	0.00	0.00	0.00	0.21	1.04	1.67	2.71	3.96
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.62	1.67
247.5	0.00	0.00	0.00	0.00	0.42	1.46	2.29	3.54	4.79
270.0	0.00	0.00	0.00	0.00	0.00	0.21	0.62	1.87	3.12
292.5	0.00	0.00	0.00	0.21	0.62	1.87	2.71	3.75	5.00
315.0	0.00	0.00	0.00	0.00	0.00	0.21	0.83	1.87	2.71
337.5	0.00	0.00	0.00	0.42	1.04	2.50	3.33	4.58	5.62
360.0	0.00	0.00	0.21	0.83	2.08	3.54	4.37	5.62	6.45
C/ $\gamma$ (°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	5.62	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	6.25	7.08	7.08	4.58	0.00	0.00	0.00	0.00	0.00
45.0	5.83	4.79	2.71	0.00	0.00	0.00	0.00	0.00	0.00
67.5	5.21	5.83	6.25	3.12	0.42	0.00	0.00	0.00	0.00
90.0	6.45	4.16	1.46	0.00	0.00	0.00	0.00	0.00	0.00
112.5	5.00	5.62	5.62	3.12	0.00	0.00	0.00	0.00	0.00
135.0	4.37	2.08	0.21	0.00	0.00	0.00	0.00	0.00	0.00
157.5	3.33	3.75	3.54	0.42	0.00	0.00	0.00	0.00	0.00
180.0	3.54	4.37	5.83	6.66	5.62	0.62	0.00	0.00	0.00
202.5	5.00	6.45	7.08	6.66	3.54	0.00	0.00	0.00	0.00
225.0	2.71	3.33	4.37	5.62	5.83	4.58	0.21	0.00	0.00
247.5	5.83	7.50	8.12	7.91	5.21	0.00	0.00	0.00	0.00
270.0	4.37	5.21	6.87	8.75	8.95	7.50	1.04	0.00	0.00
292.5	6.25	7.70	8.12	7.29	3.75	0.00	0.00	0.00	0.00
315.0	3.75	4.37	5.83	6.66	5.83	2.92	0.00	0.00	0.00
337.5	6.87	6.25	4.58	0.21	0.00	0.00	0.00	0.00	0.00
360.0	5.62	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Intensity data(cd)

Appendix Page: 19 Total:21

C/ $\gamma(^{\circ})$	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	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
67.5	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
112.5	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
157.5	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
202.5	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
247.5	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
292.5	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
337.5	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/ $\gamma(^{\circ})$	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	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
67.5	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
112.5	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
157.5	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
202.5	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
247.5	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
292.5	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
337.5	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/ $\gamma(^{\circ})$	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	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
67.5	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
112.5	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
157.5	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
202.5	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
247.5	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
292.5	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
337.5	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: 20 Total:21

C/ $\gamma(^{\circ})$	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	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
67.5	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
112.5	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
157.5	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
202.5	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
247.5	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
292.5	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
337.5	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/ $\gamma(^{\circ})$	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
22.5	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
67.5	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
112.5	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
157.5	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
202.5	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
247.5	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
292.5	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
337.5	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/ $\gamma(^{\circ})$	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
22.5	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
67.5	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
112.5	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
157.5	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
202.5	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
247.5	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
292.5	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
337.5	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/ $\gamma$ (°)	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
22.5	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
67.5	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
112.5	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
157.5	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
202.5	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
247.5	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
292.5	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
337.5	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/ $\gamma$ (°)	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
22.5	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
67.5	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
112.5	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
157.5	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
202.5	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
247.5	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
292.5	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
337.5	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/ $\gamma$ (°)	180.0								
0.0	0.00								
22.5	0.00								
45.0	0.00								
67.5	0.00								
90.0	0.00								
112.5	0.00								
135.0	0.00								
157.5	0.00								
180.0	0.00								
202.5	0.00								
225.0	0.00								
247.5	0.00								
270.0	0.00								
292.5	0.00								
315.0	0.00								
337.5	0.00								
360.0	0.00								