

Report No	:	Voltage	:	V
Test No	:	Current	:	A
LumCAT	:	Power	:	41.000 W
Luminaire	:	0003010030 41W 4000K 5840lm PF	:	
LampCAT	:	Ballast type	:	
Lamp flux	:	5840.0 lm	:	Width : 348 mm
Number of Lamps	:	1	:	Length : 348 mm
Phm Type	:	C	:	Height : 0 mm

Photometric Results

Lumens(lm)	:	5840.00	Central intensity(cd)	:	1078.399
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	2132.044
Luminous Efficacy(lm/W)	:	142.44	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	1078.399	0.000	0	0.00%	0.00%
1.0	1078.399	1.032	1.032	0.02%	0.02%
2.0	1081.633	3.100	4.132	0.05%	0.07%
3.0	1081.232	5.173	9.305	0.09%	0.16%
4.0	1080.750	7.237	16.542	0.12%	0.28%
5.0	1081.111	9.300	25.842	0.16%	0.44%
6.0	1079.948	11.357	37.199	0.19%	0.64%
7.0	1074.249	13.371	50.57	0.23%	0.87%
8.0	1071.078	15.354	65.924	0.26%	1.13%
9.0	1068.630	17.341	83.265	0.30%	1.43%
10.0	1059.801	19.262	102.527	0.33%	1.76%
11.0	1054.263	21.124	123.65	0.36%	2.12%
12.0	1046.918	22.969	146.619	0.39%	2.51%
13.0	1039.172	24.757	171.376	0.42%	2.93%
14.0	1033.514	26.530	197.906	0.45%	3.39%
15.0	1029.139	28.317	226.223	0.48%	3.87%
16.0	1023.159	30.072	256.295	0.51%	4.39%
17.0	1021.915	31.847	288.142	0.55%	4.93%
18.0	1026.972	33.782	321.924	0.58%	5.51%
19.0	1030.784	35.801	357.725	0.61%	6.13%
20.0	1041.420	37.927	395.652	0.65%	6.77%
21.0	1054.824	40.252	435.904	0.69%	7.46%
22.0	1068.148	42.662	478.566	0.73%	8.19%
23.0	1082.556	45.128	523.694	0.77%	8.97%
24.0	1106.637	47.864	571.557	0.82%	9.79%
25.0	1132.001	50.902	622.459	0.87%	10.66%
26.0	1152.790	53.933	676.392	0.92%	11.58%
27.0	1183.251	57.152	733.543	0.98%	12.56%
28.0	1221.016	60.871	794.414	1.04%	13.60%
29.0	1254.849	64.776	859.19	1.11%	14.71%
30.0	1285.390	68.586	927.776	1.17%	15.89%
31.0	1315.651	72.383	1000.159	1.24%	17.13%
32.0	1338.848	76.048	1076.207	1.30%	18.43%
33.0	1356.547	79.407	1155.615	1.36%	19.79%
34.0	1381.951	82.875	1238.49	1.42%	21.21%
35.0	1407.797	86.639	1325.129	1.48%	22.69%
36.0	1422.165	90.107	1415.236	1.54%	24.23%
37.0	1437.014	93.250	1508.486	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	1460.492	96.715	1605.201	1.66%	27.49%
39.0	1479.756	100.359	1705.559	1.72%	29.20%
40.0	1503.033	104.029	1809.589	1.78%	30.99%
41.0	1522.458	107.736	1917.325	1.84%	32.83%
42.0	1547.943	111.553	2028.878	1.91%	34.74%
43.0	1573.548	115.629	2144.507	1.98%	36.72%
44.0	1597.628	119.689	2264.196	2.05%	38.77%
45.0	1621.227	123.704	2387.9	2.12%	40.89%
46.0	1644.182	127.703	2515.603	2.19%	43.08%
47.0	1662.925	131.532	2647.136	2.25%	45.33%
48.0	1686.564	135.404	2782.539	2.32%	47.65%
49.0	1711.125	139.528	2922.067	2.39%	50.04%
50.0	1732.998	143.597	3065.665	2.46%	52.49%
51.0	1752.141	147.451	3213.116	2.52%	55.02%
52.0	1766.951	151.007	3364.122	2.59%	57.60%
53.0	1780.596	154.318	3518.44	2.64%	60.25%
54.0	1789.024	157.334	3675.774	2.69%	62.94%
55.0	1787.098	159.632	3835.406	2.73%	65.67%
56.0	1779.312	161.156	3996.562	2.76%	68.43%
57.0	1766.228	162.110	4158.673	2.78%	71.21%
58.0	1738.416	162.067	4320.74	2.78%	73.99%
59.0	1700.168	160.756	4481.496	2.75%	76.74%
60.0	1638.122	157.713	4639.208	2.70%	79.44%
61.0	1556.973	152.476	4791.685	2.61%	82.05%
62.0	1461.495	145.448	4937.132	2.49%	84.54%
63.0	1341.256	136.312	5073.445	2.33%	86.87%
64.0	1222.301	125.793	5199.237	2.15%	89.03%
65.0	1093.192	114.592	5313.829	1.96%	90.99%
66.0	955.414	102.212	5416.042	1.75%	92.74%
67.0	806.279	88.583	5504.624	1.52%	94.26%
68.0	669.624	74.764	5579.389	1.28%	95.54%
69.0	533.452	61.375	5640.764	1.05%	96.59%
70.0	390.417	47.448	5688.212	0.81%	97.40%
71.0	287.154	35.021	5723.233	0.60%	98.00%
72.0	213.550	26.035	5749.268	0.45%	98.45%
73.0	137.858	18.376	5767.644	0.31%	98.76%
74.0	97.885	12.394	5780.037	0.21%	98.97%
75.0	72.802	9.018	5789.056	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	57.471	6.915	5795.971	0.12%	99.25%
77.0	47.117	5.576	5801.547	0.10%	99.34%
78.0	41.498	4.744	5806.291	0.08%	99.42%
79.0	36.963	4.216	5810.507	0.07%	99.50%
80.0	32.187	3.728	5814.235	0.06%	99.56%
81.0	28.415	3.277	5817.512	0.06%	99.61%
82.0	25.124	2.903	5820.415	0.05%	99.66%
83.0	21.712	2.546	5822.961	0.04%	99.71%
84.0	18.582	2.195	5825.156	0.04%	99.75%
85.0	16.254	1.901	5827.058	0.03%	99.78%
86.0	13.766	1.641	5828.699	0.03%	99.81%
87.0	11.318	1.373	5830.071	0.02%	99.83%
88.0	9.311	1.130	5831.201	0.02%	99.85%
89.0	7.625	0.928	5832.13	0.02%	99.87%
90.0	5.980	0.746	5832.876	0.01%	99.88%
91.0	5.016	0.603	5833.478	0.01%	99.89%
92.0	4.093	0.499	5833.978	0.01%	99.90%
93.0	3.652	0.424	5834.402	0.01%	99.90%
94.0	3.371	0.384	5834.786	0.01%	99.91%
95.0	3.211	0.360	5835.146	0.01%	99.92%
96.0	3.130	0.346	5835.492	0.01%	99.92%
97.0	2.930	0.330	5835.822	0.01%	99.93%
98.0	2.769	0.310	5836.132	0.01%	99.93%
99.0	2.649	0.294	5836.426	0.01%	99.94%
100.0	2.609	0.284	5836.71	0.00%	99.94%
101.0	2.328	0.266	5836.976	0.00%	99.95%
102.0	2.127	0.239	5837.216	0.00%	99.95%
103.0	2.007	0.221	5837.437	0.00%	99.96%
104.0	1.766	0.201	5837.638	0.00%	99.96%
105.0	1.605	0.179	5837.817	0.00%	99.96%
106.0	1.485	0.163	5837.98	0.00%	99.97%
107.0	1.445	0.154	5838.134	0.00%	99.97%
108.0	1.325	0.145	5838.279	0.00%	99.97%
109.0	1.124	0.127	5838.407	0.00%	99.97%
110.0	1.084	0.114	5838.521	0.00%	99.97%
111.0	0.964	0.105	5838.626	0.00%	99.98%
112.0	0.923	0.096	5838.722	0.00%	99.98%
113.0	0.763	0.085	5838.807	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	0.682	0.073	5838.88	0.00%	99.98%
115.0	0.642	0.066	5838.946	0.00%	99.98%
116.0	0.642	0.064	5839.01	0.00%	99.98%
117.0	0.562	0.059	5839.069	0.00%	99.98%
118.0	0.562	0.055	5839.124	0.00%	99.99%
119.0	0.522	0.052	5839.176	0.00%	99.99%
120.0	0.522	0.050	5839.226	0.00%	99.99%
121.0	0.482	0.047	5839.273	0.00%	99.99%
122.0	0.482	0.045	5839.318	0.00%	99.99%
123.0	0.482	0.045	5839.363	0.00%	99.99%
124.0	0.482	0.044	5839.407	0.00%	99.99%
125.0	0.482	0.044	5839.45	0.00%	99.99%
126.0	0.482	0.043	5839.493	0.00%	99.99%
127.0	0.482	0.042	5839.536	0.00%	99.99%
128.0	0.482	0.042	5839.578	0.00%	99.99%
129.0	0.442	0.040	5839.617	0.00%	99.99%
130.0	0.442	0.037	5839.655	0.00%	99.99%
131.0	0.442	0.037	5839.692	0.00%	99.99%
132.0	0.442	0.036	5839.728	0.00%	100.00%
133.0	0.361	0.032	5839.76	0.00%	100.00%
134.0	0.361	0.029	5839.789	0.00%	100.00%
135.0	0.402	0.030	5839.819	0.00%	100.00%
136.0	0.442	0.032	5839.851	0.00%	100.00%
137.0	0.442	0.033	5839.885	0.00%	100.00%
138.0	0.402	0.031	5839.916	0.00%	100.00%
139.0	0.281	0.025	5839.941	0.00%	100.00%
140.0	0.281	0.020	5839.961	0.00%	100.00%
141.0	0.201	0.017	5839.977	0.00%	100.00%
142.0	0.121	0.011	5839.988	0.00%	100.00%
143.0	0.040	0.005	5839.994	0.00%	100.00%
144.0	0.040	0.003	5839.996	0.00%	100.00%
145.0	0.000	0.001	5839.998	0.00%	100.00%
146.0	0.000	0.000	5839.998	0.00%	100.00%
147.0	0.000	0.000	5839.998	0.00%	100.00%
148.0	0.000	0.000	5839.998	0.00%	100.00%
149.0	0.000	0.000	5839.998	0.00%	100.00%
150.0	0.000	0.000	5839.998	0.00%	100.00%
151.0	0.000	0.000	5839.998	0.00%	100.00%

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

Date:
Humidity(%): 56%

Operator: LSC

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	5839.998	0.00%	100.00%
153.0	0.000	0.000	5839.998	0.00%	100.00%
154.0	0.000	0.000	5839.998	0.00%	100.00%
155.0	0.000	0.000	5839.998	0.00%	100.00%
156.0	0.000	0.000	5839.998	0.00%	100.00%
157.0	0.000	0.000	5839.998	0.00%	100.00%
158.0	0.000	0.000	5839.998	0.00%	100.00%
159.0	0.000	0.000	5839.998	0.00%	100.00%
160.0	0.000	0.000	5839.998	0.00%	100.00%
161.0	0.000	0.000	5839.998	0.00%	100.00%
162.0	0.000	0.000	5839.998	0.00%	100.00%
163.0	0.000	0.000	5839.998	0.00%	100.00%
164.0	0.000	0.000	5839.998	0.00%	100.00%
165.0	0.000	0.000	5839.998	0.00%	100.00%
166.0	0.000	0.000	5839.998	0.00%	100.00%
167.0	0.000	0.000	5839.998	0.00%	100.00%
168.0	0.000	0.000	5839.998	0.00%	100.00%
169.0	0.000	0.000	5839.998	0.00%	100.00%
170.0	0.000	0.000	5839.998	0.00%	100.00%
171.0	0.000	0.000	5839.998	0.00%	100.00%
172.0	0.000	0.000	5839.998	0.00%	100.00%
173.0	0.000	0.000	5839.998	0.00%	100.00%
174.0	0.000	0.000	5839.998	0.00%	100.00%
175.0	0.000	0.000	5839.998	0.00%	100.00%
176.0	0.000	0.000	5839.998	0.00%	100.00%
177.0	0.000	0.000	5839.998	0.00%	100.00%
178.0	0.000	0.000	5839.998	0.00%	100.00%
179.0	0.000	0.000	5839.998	0.00%	100.00%
180.0	0.000	0.000	5839.998	0.00%	100.00%

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

Date:
Humidity(%): 56%

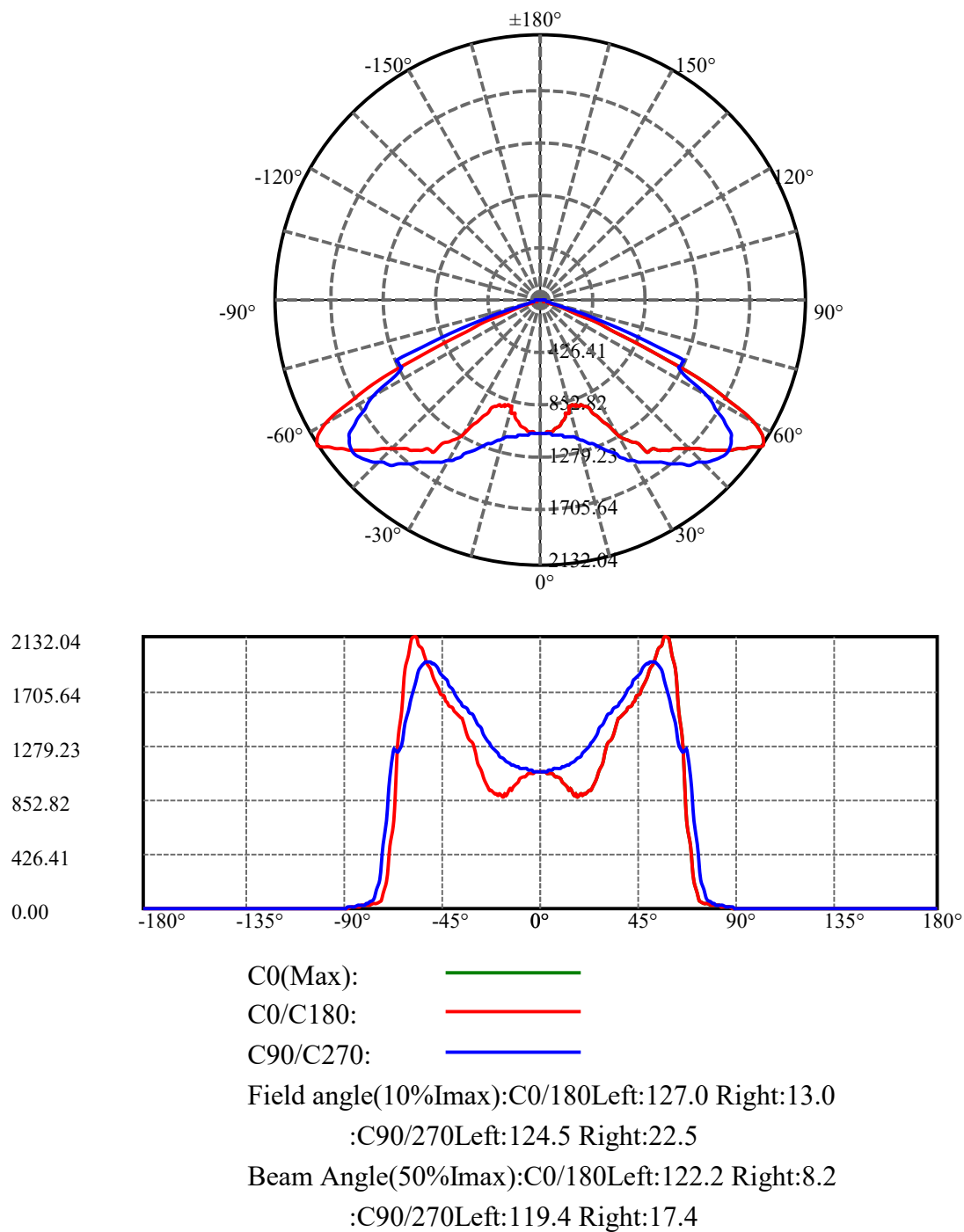
Operator: LSC

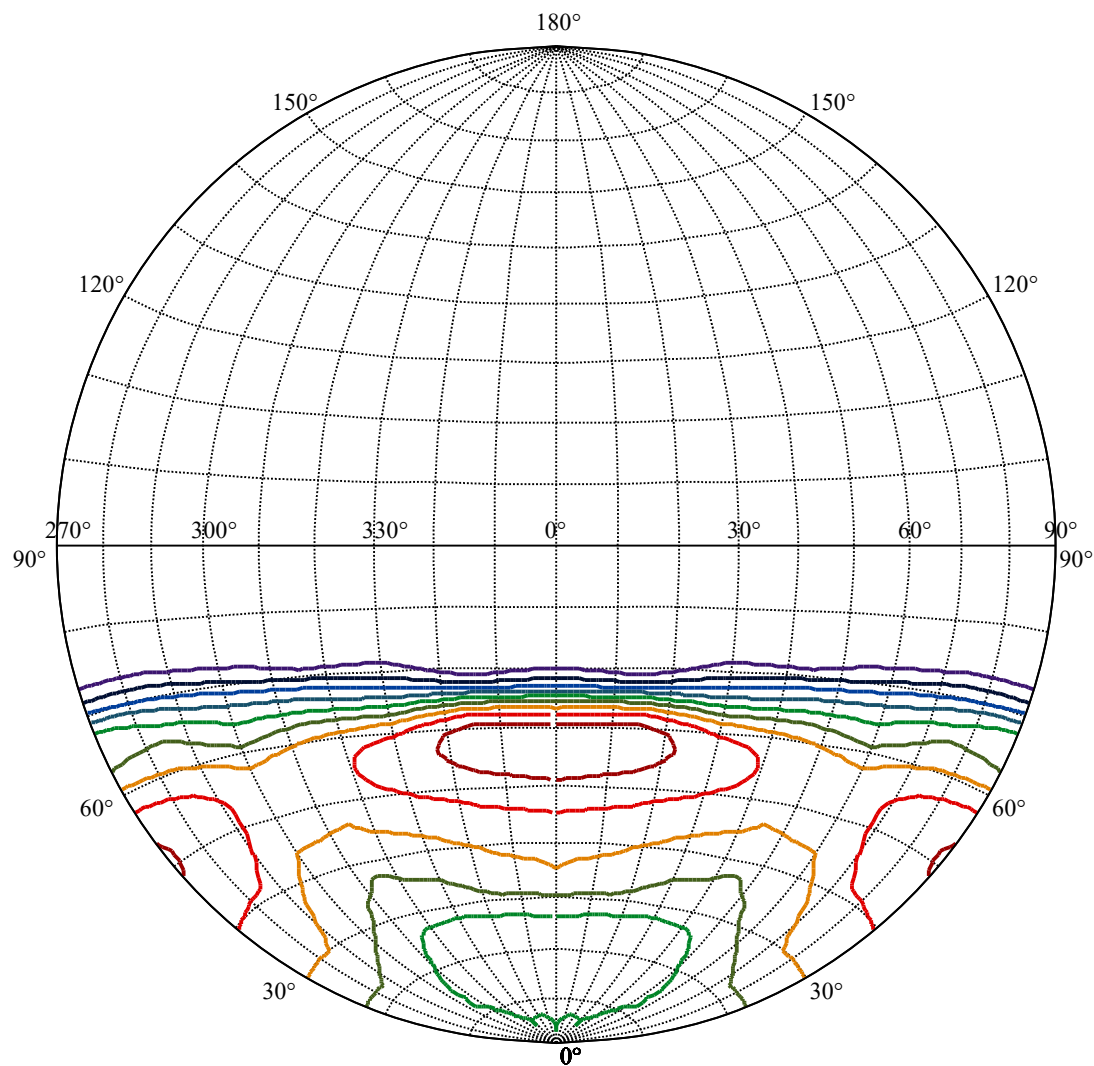
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	927.78	15.89%	15.89%
0-40	1809.59	30.99%	30.99%
0-60	4639.21	79.44%	79.44%
0-90	5832.88	99.88%	99.88%
0-120	5839.23	99.99%	99.99%
0-180	5840.00	100.00%	100.00%
60-90	1193.67	20.44%	20.44%
90-120	6.35	0.11%	0.11%
90-130	6.78	0.12%	0.12%
90-150	7.12	0.12%	0.12%
90-180	7.12	0.12%	0.12%
0-60.22	4672.00	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	102.53
10-20	293.13
20-30	532.12
30-40	881.81
40-50	1256.08
50-60	1573.54
60-70	1049.00
70-80	126.02
80-90	18.64
90-100	3.83
100-110	1.81
110-120	0.70
120-130	0.43
130-140	0.31
140-150	0.04
150-160	0.00
160-170	0.00
170-180	0.00



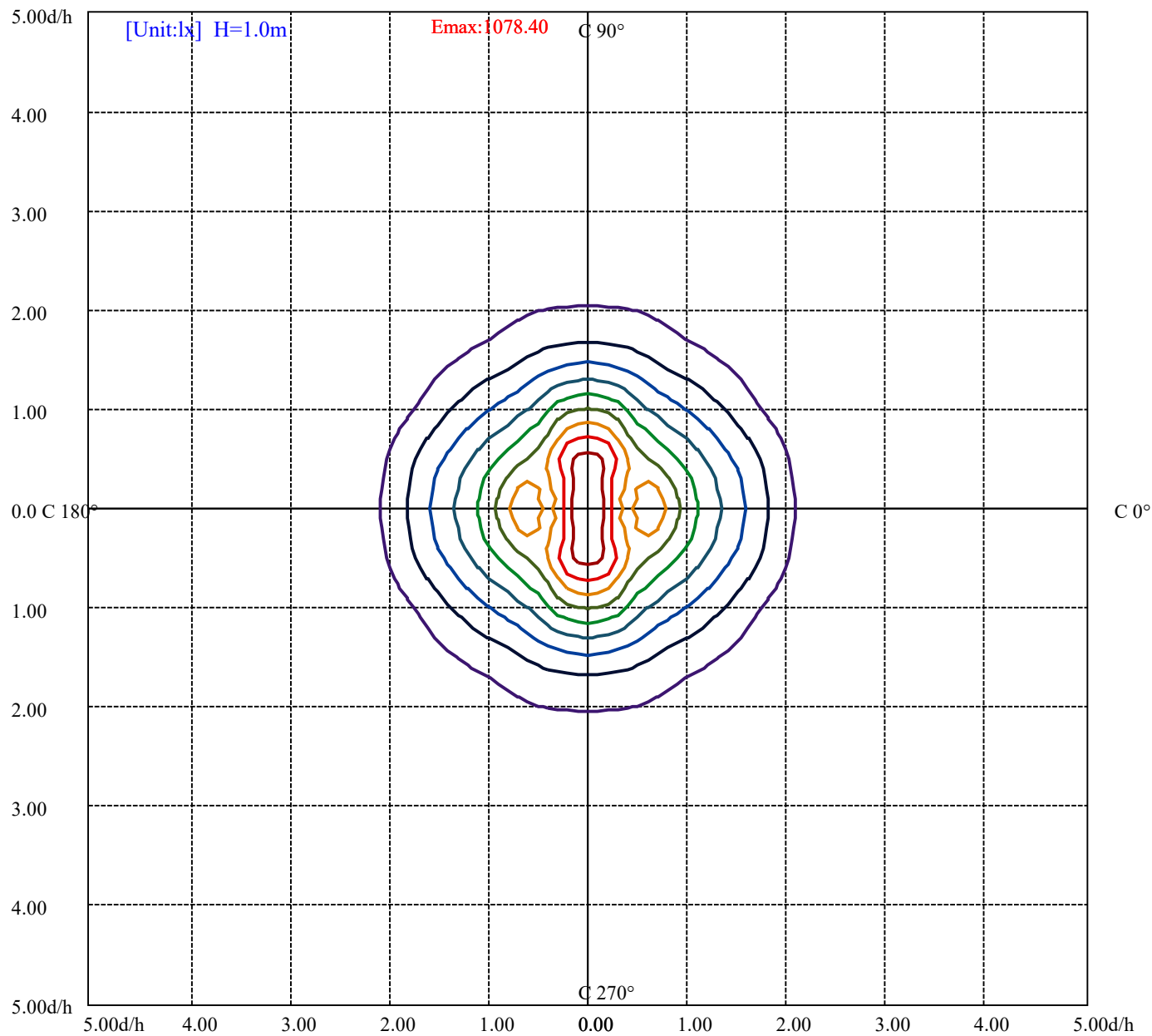


House

[Unit:cd]

Road

Imax:2132.04	
(10%Imax) 213.204	
(20%Imax) 426.409	
(30%Imax) 639.613	
(40%Imax) 852.818	
(50%Imax) 1066.02	
(60%Imax) 1279.23	
(70%Imax) 1492.43	
(80%Imax) 1705.64	
(90%Imax) 1918.84	



(10%Emax)	107.84	
(20%Emax)	215.68	
(30%Emax)	323.52	
(40%Emax)	431.36	
(50%Emax)	539.2	
(60%Emax)	647.039	
(70%Emax)	754.879	
(80%Emax)	862.719	
(90%Emax)	970.559	

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	1078.40	1078.40	1072.04	1063.37	1064.34	1063.37	1051.33	1036.40	1028.22
15.0	1078.40	1078.40	1080.95	1084.08	1084.08	1082.64	1073.49	1064.34	1053.98
30.0	1078.40	1078.40	1075.17	1073.25	1068.43	1065.06	1065.78	1051.33	1051.09
45.0	1078.40	1078.40	1090.58	1090.34	1087.69	1088.66	1090.82	1084.80	1070.36
60.0	1078.40	1078.40	1073.49	1073.25	1074.69	1076.62	1077.58	1075.17	1079.99
75.0	1078.40	1078.40	1096.36	1096.60	1097.57	1098.05	1099.98	1103.59	1106.48
90.0	1078.40	1078.40	1074.45	1076.38	1079.75	1087.93	1092.75	1096.12	1100.94
105.0	1078.40	1078.40	1096.36	1096.60	1097.57	1098.05	1099.98	1103.59	1106.48
120.0	1078.40	1078.40	1073.49	1073.25	1074.69	1076.62	1077.58	1075.17	1079.99
135.0	1078.40	1078.40	1090.58	1090.34	1087.69	1088.66	1090.82	1084.80	1070.36
150.0	1078.40	1078.40	1075.17	1073.25	1068.43	1065.06	1065.78	1051.33	1051.09
165.0	1078.40	1078.40	1080.95	1084.08	1084.08	1082.64	1073.49	1064.34	1053.98
180.0	1078.40	1078.40	1072.04	1063.37	1064.34	1063.37	1051.33	1036.40	1028.22
195.0	1078.40	1078.40	1080.95	1084.08	1084.08	1082.64	1073.49	1064.34	1053.98
210.0	1078.40	1078.40	1075.17	1073.25	1068.43	1065.06	1065.78	1051.33	1051.09
225.0	1078.40	1078.40	1090.58	1090.34	1087.69	1088.66	1090.82	1084.80	1070.36
240.0	1078.40	1078.40	1073.49	1073.25	1074.69	1076.62	1077.58	1075.17	1079.99
255.0	1078.40	1078.40	1096.36	1096.60	1097.57	1098.05	1099.98	1103.59	1106.48
270.0	1078.40	1078.40	1074.45	1076.38	1079.75	1087.93	1092.75	1096.12	1100.94
285.0	1078.40	1078.40	1096.36	1096.60	1097.57	1098.05	1099.98	1103.59	1106.48
300.0	1078.40	1078.40	1073.49	1073.25	1074.69	1076.62	1077.58	1075.17	1079.99
315.0	1078.40	1078.40	1090.58	1090.34	1087.69	1088.66	1090.82	1084.80	1070.36
330.0	1078.40	1078.40	1075.17	1073.25	1068.43	1065.06	1065.78	1051.33	1051.09
345.0	1078.40	1078.40	1080.95	1084.08	1084.08	1082.64	1073.49	1064.34	1053.98
360.0	1078.40	1078.40	1072.04	1063.37	1064.34	1063.37	1051.33	1036.40	1028.22

C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1016.18	991.61	984.39	959.83	932.38	936.71	890.00	894.33	879.40
15.0	1045.79	1021.23	1003.41	986.08	954.53	918.89	908.54	887.83	873.86
30.0	1043.63	1027.74	1013.29	1007.03	995.23	984.15	973.07	948.51	935.03
45.0	1068.67	1062.65	1060.97	1043.39	1042.66	1034.72	1025.33	1010.64	1007.75
60.0	1082.64	1081.43	1079.99	1078.78	1078.30	1087.45	1089.62	1092.27	1099.98
75.0	1110.57	1114.90	1118.03	1125.50	1133.45	1138.50	1155.84	1169.32	1183.77
90.0	1104.79	1110.09	1115.39	1121.65	1129.35	1138.02	1154.88	1166.44	1182.81
105.0	1110.57	1114.90	1118.03	1125.50	1133.45	1138.50	1155.84	1169.32	1183.77
120.0	1082.64	1081.43	1079.99	1078.78	1078.30	1087.45	1089.62	1092.27	1099.98
135.0	1068.67	1062.65	1060.97	1043.39	1042.66	1034.72	1025.33	1010.64	1007.75
150.0	1043.63	1027.74	1013.29	1007.03	995.23	984.15	973.07	948.51	935.03
165.0	1045.79	1021.23	1003.41	986.08	954.53	918.89	908.54	887.83	873.86
180.0	1016.18	991.61	984.39	959.83	932.38	936.71	890.00	894.33	879.40
195.0	1045.79	1021.23	1003.41	986.08	954.53	918.89	908.54	887.83	873.86
210.0	1043.63	1027.74	1013.29	1007.03	995.23	984.15	973.07	948.51	935.03
225.0	1068.67	1062.65	1060.97	1043.39	1042.66	1034.72	1025.33	1010.64	1007.75
240.0	1082.64	1081.43	1079.99	1078.78	1078.30	1087.45	1089.62	1092.27	1099.98
255.0	1110.57	1114.90	1118.03	1125.50	1133.45	1138.50	1155.84	1169.32	1183.77
270.0	1104.79	1110.09	1115.39	1121.65	1129.35	1138.02	1154.88	1166.44	1182.81
285.0	1110.57	1114.90	1118.03	1125.50	1133.45	1138.50	1155.84	1169.32	1183.77
300.0	1082.64	1081.43	1079.99	1078.78	1078.30	1087.45	1089.62	1092.27	1099.98
315.0	1068.67	1062.65	1060.97	1043.39	1042.66	1034.72	1025.33	1010.64	1007.75
330.0	1043.63	1027.74	1013.29	1007.03	995.23	984.15	973.07	948.51	935.03
345.0	1045.79	1021.23	1003.41	986.08	954.53	918.89	908.54	887.83	873.86
360.0	1016.18	991.61	984.39	959.83	932.38	936.71	890.00	894.33	879.40

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	901.56	886.63	906.85	905.41	929.01	925.63	955.01	1000.76	1049.41
15.0	866.64	863.75	877.72	899.63	900.11	920.10	960.79	1002.69	1010.88
30.0	925.15	922.02	918.65	924.67	928.28	945.62	966.33	978.13	999.08
45.0	1012.08	1015.45	1017.14	1021.47	1028.22	1025.09	1034.72	1053.74	1067.23
60.0	1109.61	1118.76	1132.72	1149.82	1177.75	1198.70	1218.93	1233.38	1245.42
75.0	1198.94	1214.60	1232.90	1255.29	1274.80	1296.47	1323.44	1346.31	1379.30
90.0	1197.26	1213.63	1231.93	1250.72	1270.46	1293.10	1316.21	1354.74	1380.27
105.0	1198.94	1214.60	1232.90	1255.29	1274.80	1296.47	1323.44	1346.31	1379.30
120.0	1109.61	1118.76	1132.72	1149.82	1177.75	1198.70	1218.93	1233.38	1245.42
135.0	1012.08	1015.45	1017.14	1021.47	1028.22	1025.09	1034.72	1053.74	1067.23
150.0	925.15	922.02	918.65	924.67	928.28	945.62	966.33	978.13	999.08
165.0	866.64	863.75	877.72	899.63	900.11	920.10	960.79	1002.69	1010.88
180.0	901.56	886.63	906.85	905.41	929.01	925.63	955.01	1000.76	1049.41
195.0	866.64	863.75	877.72	899.63	900.11	920.10	960.79	1002.69	1010.88
210.0	925.15	922.02	918.65	924.67	928.28	945.62	966.33	978.13	999.08
225.0	1012.08	1015.45	1017.14	1021.47	1028.22	1025.09	1034.72	1053.74	1067.23
240.0	1109.61	1118.76	1132.72	1149.82	1177.75	1198.70	1218.93	1233.38	1245.42
255.0	1198.94	1214.60	1232.90	1255.29	1274.80	1296.47	1323.44	1346.31	1379.30
270.0	1197.26	1213.63	1231.93	1250.72	1270.46	1293.10	1316.21	1354.74	1380.27
285.0	1198.94	1214.60	1232.90	1255.29	1274.80	1296.47	1323.44	1346.31	1379.30
300.0	1109.61	1118.76	1132.72	1149.82	1177.75	1198.70	1218.93	1233.38	1245.42
315.0	1012.08	1015.45	1017.14	1021.47	1028.22	1025.09	1034.72	1053.74	1067.23
330.0	925.15	922.02	918.65	924.67	928.28	945.62	966.33	978.13	999.08
345.0	866.64	863.75	877.72	899.63	900.11	920.10	960.79	1002.69	1010.88
360.0	901.56	886.63	906.85	905.41	929.01	925.63	955.01	1000.76	1049.41
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1092.27	1143.80	1203.04	1261.31	1299.36	1324.88	1353.30	1396.64	1488.63
15.0	1063.37	1112.01	1178.23	1226.88	1277.69	1331.62	1366.78	1406.99	1426.02
30.0	1034.96	1076.62	1104.55	1130.80	1176.31	1194.13	1218.69	1256.49	1289.48
45.0	1078.54	1123.09	1139.47	1160.42	1180.88	1190.52	1196.29	1211.23	1236.99
60.0	1263.00	1289.48	1306.34	1326.09	1337.89	1351.61	1356.91	1372.08	1382.43
75.0	1403.86	1431.31	1465.27	1490.31	1512.22	1534.14	1545.21	1557.74	1570.98
90.0	1419.28	1443.36	1467.44	1494.41	1518.49	1537.27	1557.49	1577.72	1593.13
105.0	1403.86	1431.31	1465.27	1490.31	1512.22	1534.14	1545.21	1557.74	1570.98
120.0	1263.00	1289.48	1306.34	1326.09	1337.89	1351.61	1356.91	1372.08	1382.43
135.0	1078.54	1123.09	1139.47	1160.42	1180.88	1190.52	1196.29	1211.23	1236.99
150.0	1034.96	1076.62	1104.55	1130.80	1176.31	1194.13	1218.69	1256.49	1289.48
165.0	1063.37	1112.01	1178.23	1226.88	1277.69	1331.62	1366.78	1406.99	1426.02
180.0	1092.27	1143.80	1203.04	1261.31	1299.36	1324.88	1353.30	1396.64	1488.63
195.0	1063.37	1112.01	1178.23	1226.88	1277.69	1331.62	1366.78	1406.99	1426.02
210.0	1034.96	1076.62	1104.55	1130.80	1176.31	1194.13	1218.69	1256.49	1289.48
225.0	1078.54	1123.09	1139.47	1160.42	1180.88	1190.52	1196.29	1211.23	1236.99
240.0	1263.00	1289.48	1306.34	1326.09	1337.89	1351.61	1356.91	1372.08	1382.43
255.0	1403.86	1431.31	1465.27	1490.31	1512.22	1534.14	1545.21	1557.74	1570.98
270.0	1419.28	1443.36	1467.44	1494.41	1518.49	1537.27	1557.49	1577.72	1593.13
285.0	1403.86	1431.31	1465.27	1490.31	1512.22	1534.14	1545.21	1557.74	1570.98
300.0	1263.00	1289.48	1306.34	1326.09	1337.89	1351.61	1356.91	1372.08	1382.43
315.0	1078.54	1123.09	1139.47	1160.42	1180.88	1190.52	1196.29	1211.23	1236.99
330.0	1034.96	1076.62	1104.55	1130.80	1176.31	1194.13	1218.69	1256.49	1289.48
345.0	1063.37	1112.01	1178.23	1226.88	1277.69	1331.62	1366.78	1406.99	1426.02
360.0	1092.27	1143.80	1203.04	1261.31	1299.36	1324.88	1353.30	1396.64	1488.63

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	1497.29	1503.56	1534.38	1552.20	1579.17	1593.62	1610.47	1635.03	1663.93
15.0	1440.95	1462.86	1479.48	1496.81	1516.08	1542.08	1563.52	1590.00	1616.73
30.0	1310.92	1340.29	1372.08	1398.33	1428.67	1453.95	1474.90	1501.87	1525.71
45.0	1256.74	1263.96	1297.19	1307.30	1334.51	1348.72	1382.19	1420.72	1453.95
60.0	1379.30	1381.23	1385.32	1406.75	1423.13	1433.48	1454.43	1473.46	1488.63
75.0	1590.48	1606.62	1628.77	1648.04	1668.26	1688.73	1716.18	1736.41	1760.01
90.0	1611.92	1630.70	1665.86	1690.42	1715.94	1741.95	1782.40	1802.63	1817.56
105.0	1590.48	1606.62	1628.77	1648.04	1668.26	1688.73	1716.18	1736.41	1760.01
120.0	1379.30	1381.23	1385.32	1406.75	1423.13	1433.48	1454.43	1473.46	1488.63
135.0	1256.74	1263.96	1297.19	1307.30	1334.51	1348.72	1382.19	1420.72	1453.95
150.0	1310.92	1340.29	1372.08	1398.33	1428.67	1453.95	1474.90	1501.87	1525.71
165.0	1440.95	1462.86	1479.48	1496.81	1516.08	1542.08	1563.52	1590.00	1616.73
180.0	1497.29	1503.56	1534.38	1552.20	1579.17	1593.62	1610.47	1635.03	1663.93
195.0	1440.95	1462.86	1479.48	1496.81	1516.08	1542.08	1563.52	1590.00	1616.73
210.0	1310.92	1340.29	1372.08	1398.33	1428.67	1453.95	1474.90	1501.87	1525.71
225.0	1256.74	1263.96	1297.19	1307.30	1334.51	1348.72	1382.19	1420.72	1453.95
240.0	1379.30	1381.23	1385.32	1406.75	1423.13	1433.48	1454.43	1473.46	1488.63
255.0	1590.48	1606.62	1628.77	1648.04	1668.26	1688.73	1716.18	1736.41	1760.01
270.0	1611.92	1630.70	1665.86	1690.42	1715.94	1741.95	1782.40	1802.63	1817.56
285.0	1590.48	1606.62	1628.77	1648.04	1668.26	1688.73	1716.18	1736.41	1760.01
300.0	1379.30	1381.23	1385.32	1406.75	1423.13	1433.48	1454.43	1473.46	1488.63
315.0	1256.74	1263.96	1297.19	1307.30	1334.51	1348.72	1382.19	1420.72	1453.95
330.0	1310.92	1340.29	1372.08	1398.33	1428.67	1453.95	1474.90	1501.87	1525.71
345.0	1440.95	1462.86	1479.48	1496.81	1516.08	1542.08	1563.52	1590.00	1616.73
360.0	1497.29	1503.56	1534.38	1552.20	1579.17	1593.62	1610.47	1635.03	1663.93

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	1687.05	1723.65	1751.58	1801.19	1836.34	1874.39	1914.84	1955.30	1996.72
15.0	1645.87	1680.54	1714.50	1740.50	1779.75	1827.67	1860.66	1892.45	1923.03
30.0	1555.33	1587.35	1615.05	1641.77	1683.67	1706.79	1740.26	1767.95	1790.59
45.0	1475.38	1487.90	1496.33	1524.26	1540.88	1567.13	1593.86	1612.16	1624.44
60.0	1507.89	1516.08	1524.02	1538.71	1554.60	1564.00	1567.85	1568.33	1577.24
75.0	1778.79	1796.85	1808.17	1816.36	1826.71	1828.40	1825.26	1817.08	1809.13
90.0	1841.16	1869.09	1887.39	1914.36	1925.92	1933.63	1935.07	1932.18	1921.59
105.0	1778.79	1796.85	1808.17	1816.36	1826.71	1828.40	1825.26	1817.08	1809.13
120.0	1507.89	1516.08	1524.02	1538.71	1554.60	1564.00	1567.85	1568.33	1577.24
135.0	1475.38	1487.90	1496.33	1524.26	1540.88	1567.13	1593.86	1612.16	1624.44
150.0	1555.33	1587.35	1615.05	1641.77	1683.67	1706.79	1740.26	1767.95	1790.59
165.0	1645.87	1680.54	1714.50	1740.50	1779.75	1827.67	1860.66	1892.45	1923.03
180.0	1687.05	1723.65	1751.58	1801.19	1836.34	1874.39	1914.84	1955.30	1996.72
195.0	1645.87	1680.54	1714.50	1740.50	1779.75	1827.67	1860.66	1892.45	1923.03
210.0	1555.33	1587.35	1615.05	1641.77	1683.67	1706.79	1740.26	1767.95	1790.59
225.0	1475.38	1487.90	1496.33	1524.26	1540.88	1567.13	1593.86	1612.16	1624.44
240.0	1507.89	1516.08	1524.02	1538.71	1554.60	1564.00	1567.85	1568.33	1577.24
255.0	1778.79	1796.85	1808.17	1816.36	1826.71	1828.40	1825.26	1817.08	1809.13
270.0	1841.16	1869.09	1887.39	1914.36	1925.92	1933.63	1935.07	1932.18	1921.59
285.0	1778.79	1796.85	1808.17	1816.36	1826.71	1828.40	1825.26	1817.08	1809.13
300.0	1507.89	1516.08	1524.02	1538.71	1554.60	1564.00	1567.85	1568.33	1577.24
315.0	1475.38	1487.90	1496.33	1524.26	1540.88	1567.13	1593.86	1612.16	1624.44
330.0	1555.33	1587.35	1615.05	1641.77	1683.67	1706.79	1740.26	1767.95	1790.59
345.0	1645.87	1680.54	1714.50	1740.50	1779.75	1827.67	1860.66	1892.45	1923.03
360.0	1687.05	1723.65	1751.58	1801.19	1836.34	1874.39	1914.84	1955.30	1996.72

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	2035.24	2070.40	2112.30	2132.04	2113.26	2069.92	1992.38	1878.24	1728.46
15.0	1956.02	1984.67	2008.03	2028.98	2034.28	2035.96	1983.23	1911.71	1801.67
30.0	1807.69	1813.47	1814.91	1806.00	1779.27	1736.89	1670.19	1583.50	1434.69
45.0	1633.59	1635.76	1631.18	1623.23	1612.64	1580.37	1533.90	1448.65	1370.63
60.0	1577.00	1565.20	1544.49	1516.32	1478.27	1423.13	1368.47	1278.89	1213.15
75.0	1791.07	1751.82	1716.91	1679.10	1635.27	1583.98	1504.28	1450.10	1404.10
90.0	1902.32	1872.94	1808.41	1755.43	1668.26	1611.43	1544.97	1459.73	1361.00
105.0	1791.07	1751.82	1716.91	1679.10	1635.27	1583.98	1504.28	1450.10	1404.10
120.0	1577.00	1565.20	1544.49	1516.32	1478.27	1423.13	1368.47	1278.89	1213.15
135.0	1633.59	1635.76	1631.18	1623.23	1612.64	1580.37	1533.90	1448.65	1370.63
150.0	1807.69	1813.47	1814.91	1806.00	1779.27	1736.89	1670.19	1583.50	1434.69
165.0	1956.02	1984.67	2008.03	2028.98	2034.28	2035.96	1983.23	1911.71	1801.67
180.0	2035.24	2070.40	2112.30	2132.04	2113.26	2069.92	1992.38	1878.24	1728.46
195.0	1956.02	1984.67	2008.03	2028.98	2034.28	2035.96	1983.23	1911.71	1801.67
210.0	1807.69	1813.47	1814.91	1806.00	1779.27	1736.89	1670.19	1583.50	1434.69
225.0	1633.59	1635.76	1631.18	1623.23	1612.64	1580.37	1533.90	1448.65	1370.63
240.0	1577.00	1565.20	1544.49	1516.32	1478.27	1423.13	1368.47	1278.89	1213.15
255.0	1791.07	1751.82	1716.91	1679.10	1635.27	1583.98	1504.28	1450.10	1404.10
270.0	1902.32	1872.94	1808.41	1755.43	1668.26	1611.43	1544.97	1459.73	1361.00
285.0	1791.07	1751.82	1716.91	1679.10	1635.27	1583.98	1504.28	1450.10	1404.10
300.0	1577.00	1565.20	1544.49	1516.32	1478.27	1423.13	1368.47	1278.89	1213.15
315.0	1633.59	1635.76	1631.18	1623.23	1612.64	1580.37	1533.90	1448.65	1370.63
330.0	1807.69	1813.47	1814.91	1806.00	1779.27	1736.89	1670.19	1583.50	1434.69
345.0	1956.02	1984.67	2008.03	2028.98	2034.28	2035.96	1983.23	1911.71	1801.67
360.0	2035.24	2070.40	2112.30	2132.04	2113.26	2069.92	1992.38	1878.24	1728.46

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	1553.16	1353.78	1141.87	836.54	647.27	484.97	333.27	209.50	122.33
15.0	1592.65	1384.36	1141.15	882.05	573.83	364.57	205.40	89.34	68.15
30.0	1273.59	1131.52	954.77	822.33	698.56	583.22	435.37	343.62	240.08
45.0	1277.93	1150.54	1039.53	924.91	808.37	686.52	520.13	375.65	228.52
60.0	1141.15	1080.47	1022.68	951.64	854.60	741.91	632.34	471.73	371.80
75.0	1345.83	1291.17	1211.22	1109.61	962.48	885.66	806.44	614.28	498.94
90.0	1279.61	1237.71	1237.71	1247.34	1232.41	1026.77	868.81	686.28	508.57
105.0	1345.83	1291.17	1211.22	1109.61	962.48	885.66	806.44	614.28	498.94
120.0	1141.15	1080.47	1022.68	951.64	854.60	741.91	632.34	471.73	371.80
135.0	1277.93	1150.54	1039.53	924.91	808.37	686.52	520.13	375.65	228.52
150.0	1273.59	1131.52	954.77	822.33	698.56	583.22	435.37	343.62	240.08
165.0	1592.65	1384.36	1141.15	882.05	573.83	364.57	205.40	89.34	68.15
180.0	1553.16	1353.78	1141.87	836.54	647.27	484.97	333.27	209.50	122.33
195.0	1592.65	1384.36	1141.15	882.05	573.83	364.57	205.40	89.34	68.15
210.0	1273.59	1131.52	954.77	822.33	698.56	583.22	435.37	343.62	240.08
225.0	1277.93	1150.54	1039.53	924.91	808.37	686.52	520.13	375.65	228.52
240.0	1141.15	1080.47	1022.68	951.64	854.60	741.91	632.34	471.73	371.80
255.0	1345.83	1291.17	1211.22	1109.61	962.48	885.66	806.44	614.28	498.94
270.0	1279.61	1237.71	1237.71	1247.34	1232.41	1026.77	868.81	686.28	508.57
285.0	1345.83	1291.17	1211.22	1109.61	962.48	885.66	806.44	614.28	498.94
300.0	1141.15	1080.47	1022.68	951.64	854.60	741.91	632.34	471.73	371.80
315.0	1277.93	1150.54	1039.53	924.91	808.37	686.52	520.13	375.65	228.52
330.0	1273.59	1131.52	954.77	822.33	698.56	583.22	435.37	343.62	240.08
345.0	1592.65	1384.36	1141.15	882.05	573.83	364.57	205.40	89.34	68.15
360.0	1553.16	1353.78	1141.87	836.54	647.27	484.97	333.27	209.50	122.33

Intensity data(cd)

Appendix Page: 15 Total:21

C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	70.80	51.53	45.75	41.90	38.05	32.27	28.90	26.01	22.15
15.0	60.68	54.42	49.60	45.27	41.18	34.68	32.51	29.86	25.53
30.0	194.09	128.59	87.17	61.40	50.33	45.99	41.18	37.57	33.23
45.0	151.70	103.06	73.44	59.24	51.53	45.51	41.90	36.12	32.75
60.0	279.81	161.34	111.01	79.95	61.16	50.57	44.31	40.70	35.16
75.0	382.39	238.15	169.28	121.12	88.13	65.98	53.46	46.96	39.97
90.0	354.46	231.65	147.85	97.76	66.94	47.68	42.38	35.16	30.82
105.0	382.39	238.15	169.28	121.12	88.13	65.98	53.46	46.96	39.97
120.0	279.81	161.34	111.01	79.95	61.16	50.57	44.31	40.70	35.16
135.0	151.70	103.06	73.44	59.24	51.53	45.51	41.90	36.12	32.75
150.0	194.09	128.59	87.17	61.40	50.33	45.99	41.18	37.57	33.23
165.0	60.68	54.42	49.60	45.27	41.18	34.68	32.51	29.86	25.53
180.0	70.80	51.53	45.75	41.90	38.05	32.27	28.90	26.01	22.15
195.0	60.68	54.42	49.60	45.27	41.18	34.68	32.51	29.86	25.53
210.0	194.09	128.59	87.17	61.40	50.33	45.99	41.18	37.57	33.23
225.0	151.70	103.06	73.44	59.24	51.53	45.51	41.90	36.12	32.75
240.0	279.81	161.34	111.01	79.95	61.16	50.57	44.31	40.70	35.16
255.0	382.39	238.15	169.28	121.12	88.13	65.98	53.46	46.96	39.97
270.0	354.46	231.65	147.85	97.76	66.94	47.68	42.38	35.16	30.82
285.0	382.39	238.15	169.28	121.12	88.13	65.98	53.46	46.96	39.97
300.0	279.81	161.34	111.01	79.95	61.16	50.57	44.31	40.70	35.16
315.0	151.70	103.06	73.44	59.24	51.53	45.51	41.90	36.12	32.75
330.0	194.09	128.59	87.17	61.40	50.33	45.99	41.18	37.57	33.23
345.0	60.68	54.42	49.60	45.27	41.18	34.68	32.51	29.86	25.53
360.0	70.80	51.53	45.75	41.90	38.05	32.27	28.90	26.01	22.15
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	20.23	17.34	15.41	12.52	10.11	8.67	5.78	4.33	3.37
15.0	23.36	20.71	17.34	14.93	12.76	10.59	8.67	6.02	4.33
30.0	28.17	25.53	22.39	18.54	16.62	13.73	11.56	9.87	7.95
45.0	29.38	24.80	22.15	19.99	17.58	15.17	13.24	11.32	9.63
60.0	30.82	27.45	24.32	20.47	18.78	16.13	13.97	12.52	10.84
75.0	35.88	32.27	26.25	22.88	19.75	17.10	13.97	11.56	9.87
90.0	25.53	22.64	20.23	16.86	13.97	11.08	7.22	4.82	2.89
105.0	35.88	32.27	26.25	22.88	19.75	17.10	13.97	11.56	9.87
120.0	30.82	27.45	24.32	20.47	18.78	16.13	13.97	12.52	10.84
135.0	29.38	24.80	22.15	19.99	17.58	15.17	13.24	11.32	9.63
150.0	28.17	25.53	22.39	18.54	16.62	13.73	11.56	9.87	7.95
165.0	23.36	20.71	17.34	14.93	12.76	10.59	8.67	6.02	4.33
180.0	20.23	17.34	15.41	12.52	10.11	8.67	5.78	4.33	3.37
195.0	23.36	20.71	17.34	14.93	12.76	10.59	8.67	6.02	4.33
210.0	28.17	25.53	22.39	18.54	16.62	13.73	11.56	9.87	7.95
225.0	29.38	24.80	22.15	19.99	17.58	15.17	13.24	11.32	9.63
240.0	30.82	27.45	24.32	20.47	18.78	16.13	13.97	12.52	10.84
255.0	35.88	32.27	26.25	22.88	19.75	17.10	13.97	11.56	9.87
270.0	25.53	22.64	20.23	16.86	13.97	11.08	7.22	4.82	2.89
285.0	35.88	32.27	26.25	22.88	19.75	17.10	13.97	11.56	9.87
300.0	30.82	27.45	24.32	20.47	18.78	16.13	13.97	12.52	10.84
315.0	29.38	24.80	22.15	19.99	17.58	15.17	13.24	11.32	9.63
330.0	28.17	25.53	22.39	18.54	16.62	13.73	11.56	9.87	7.95
345.0	23.36	20.71	17.34	14.93	12.76	10.59	8.67	6.02	4.33
360.0	20.23	17.34	15.41	12.52	10.11	8.67	5.78	4.33	3.37

C/γ(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	2.41	1.93	0.96	0.48	0.48	0.48	0.48	0.48	0.48
15.0	2.41	1.20	0.72	0.72	0.48	0.48	0.48	0.48	0.48
30.0	6.26	4.82	3.85	3.13	2.65	2.17	1.93	1.93	1.45
45.0	7.71	6.74	5.30	5.06	4.82	4.58	4.33	4.09	3.85
60.0	9.39	8.67	8.19	7.47	6.74	6.50	6.50	5.78	5.78
75.0	7.95	7.22	6.02	5.30	5.30	5.30	5.30	5.06	4.82
90.0	1.93	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	7.95	7.22	6.02	5.30	5.30	5.30	5.30	5.06	4.82
120.0	9.39	8.67	8.19	7.47	6.74	6.50	6.50	5.78	5.78
135.0	7.71	6.74	5.30	5.06	4.82	4.58	4.33	4.09	3.85
150.0	6.26	4.82	3.85	3.13	2.65	2.17	1.93	1.93	1.45
165.0	2.41	1.20	0.72	0.72	0.48	0.48	0.48	0.48	0.48
180.0	2.41	1.93	0.96	0.48	0.48	0.48	0.48	0.48	0.48
195.0	2.41	1.20	0.72	0.72	0.48	0.48	0.48	0.48	0.48
210.0	6.26	4.82	3.85	3.13	2.65	2.17	1.93	1.93	1.45
225.0	7.71	6.74	5.30	5.06	4.82	4.58	4.33	4.09	3.85
240.0	9.39	8.67	8.19	7.47	6.74	6.50	6.50	5.78	5.78
255.0	7.95	7.22	6.02	5.30	5.30	5.30	5.30	5.06	4.82
270.0	1.93	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	7.95	7.22	6.02	5.30	5.30	5.30	5.30	5.06	4.82
300.0	9.39	8.67	8.19	7.47	6.74	6.50	6.50	5.78	5.78
315.0	7.71	6.74	5.30	5.06	4.82	4.58	4.33	4.09	3.85
330.0	6.26	4.82	3.85	3.13	2.65	2.17	1.93	1.93	1.45
345.0	2.41	1.20	0.72	0.72	0.48	0.48	0.48	0.48	0.48
360.0	2.41	1.93	0.96	0.48	0.48	0.48	0.48	0.48	0.48
C/γ(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.48
15.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
30.0	1.45	1.45	1.45	1.45	1.45	1.20	0.96	0.96	0.96
45.0	3.61	3.37	2.89	2.65	2.41	1.93	1.93	1.93	1.69
60.0	5.30	5.30	4.58	4.33	3.85	3.37	3.13	2.65	2.65
75.0	4.82	4.82	4.33	3.85	3.85	3.61	3.13	2.89	2.65
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	4.82	4.82	4.33	3.85	3.85	3.61	3.13	2.89	2.65
120.0	5.30	5.30	4.58	4.33	3.85	3.37	3.13	2.65	2.65
135.0	3.61	3.37	2.89	2.65	2.41	1.93	1.93	1.93	1.69
150.0	1.45	1.45	1.45	1.45	1.45	1.20	0.96	0.96	0.96
165.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
180.0	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.48
195.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
210.0	1.45	1.45	1.45	1.45	1.45	1.20	0.96	0.96	0.96
225.0	3.61	3.37	2.89	2.65	2.41	1.93	1.93	1.93	1.69
240.0	5.30	5.30	4.58	4.33	3.85	3.37	3.13	2.65	2.65
255.0	4.82	4.82	4.33	3.85	3.85	3.61	3.13	2.89	2.65
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	4.82	4.82	4.33	3.85	3.85	3.61	3.13	2.89	2.65
300.0	5.30	5.30	4.58	4.33	3.85	3.37	3.13	2.65	2.65
315.0	3.61	3.37	2.89	2.65	2.41	1.93	1.93	1.93	1.69
330.0	1.45	1.45	1.45	1.45	1.45	1.20	0.96	0.96	0.96
345.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
360.0	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.48

C/ γ (°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
15.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
30.0	0.96	0.96	0.96	0.96	0.72	0.48	0.48	0.48	0.48
45.0	1.69	1.20	1.20	0.96	0.96	0.48	0.48	0.48	0.48
60.0	2.17	1.69	1.69	1.45	1.45	1.45	1.20	0.96	0.96
75.0	2.41	2.17	1.93	1.69	1.69	1.45	1.20	1.20	1.20
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	2.41	2.17	1.93	1.69	1.69	1.45	1.20	1.20	1.20
120.0	2.17	1.69	1.69	1.45	1.45	1.45	1.20	0.96	0.96
135.0	1.69	1.20	1.20	0.96	0.96	0.48	0.48	0.48	0.48
150.0	0.96	0.96	0.96	0.96	0.72	0.48	0.48	0.48	0.48
165.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
180.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
195.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
210.0	0.96	0.96	0.96	0.96	0.72	0.48	0.48	0.48	0.48
225.0	1.69	1.20	1.20	0.96	0.96	0.48	0.48	0.48	0.48
240.0	2.17	1.69	1.69	1.45	1.45	1.45	1.20	0.96	0.96
255.0	2.41	2.17	1.93	1.69	1.69	1.45	1.20	1.20	1.20
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	2.41	2.17	1.93	1.69	1.69	1.45	1.20	1.20	1.20
300.0	2.17	1.69	1.69	1.45	1.45	1.45	1.20	0.96	0.96
315.0	1.69	1.20	1.20	0.96	0.96	0.48	0.48	0.48	0.48
330.0	0.96	0.96	0.96	0.96	0.72	0.48	0.48	0.48	0.48
345.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
360.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
C/ γ (°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	0.48	0.48	0.48	0.48	0.96	0.96	0.96	0.96	0.96
15.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
30.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
45.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
60.0	0.96	0.96	0.72	0.72	0.48	0.48	0.48	0.48	0.48
75.0	0.72	0.72	0.72	0.72	0.48	0.48	0.48	0.48	0.48
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.72	0.72	0.72	0.72	0.48	0.48	0.48	0.48	0.48
120.0	0.96	0.96	0.72	0.72	0.48	0.48	0.48	0.48	0.48
135.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
150.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
165.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
180.0	0.48	0.48	0.48	0.48	0.96	0.96	0.96	0.96	0.96
195.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
210.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
225.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
240.0	0.96	0.96	0.72	0.72	0.48	0.48	0.48	0.48	0.48
255.0	0.72	0.72	0.72	0.72	0.48	0.48	0.48	0.48	0.48
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.72	0.72	0.72	0.72	0.48	0.48	0.48	0.48	0.48
300.0	0.96	0.96	0.72	0.72	0.48	0.48	0.48	0.48	0.48
315.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
330.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
345.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
360.0	0.48	0.48	0.48	0.48	0.96	0.96	0.96	0.96	0.96

Intensity data(cd)

Appendix Page: 18 Total:21

C/γ(°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.48	0.48
15.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
30.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
45.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
60.0	0.48	0.48	0.48	0.24	0.24	0.48	0.48	0.24	0.24
75.0	0.48	0.48	0.48	0.48	0.48	0.24	0.24	0.24	0.24
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.48	0.48	0.48	0.48	0.48	0.24	0.24	0.24	0.24
120.0	0.48	0.48	0.48	0.24	0.24	0.48	0.48	0.24	0.24
135.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
150.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
165.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
180.0	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.48	0.48
195.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
210.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
225.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
240.0	0.48	0.48	0.48	0.24	0.24	0.48	0.48	0.24	0.24
255.0	0.48	0.48	0.48	0.48	0.48	0.24	0.24	0.24	0.24
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.48	0.48	0.48	0.48	0.48	0.24	0.24	0.24	0.24
300.0	0.48	0.48	0.48	0.24	0.24	0.48	0.48	0.24	0.24
315.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
330.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
345.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
360.0	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.48	0.48
C/γ(°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.00
15.0	0.48	0.72	0.72	0.48	0.24	0.24	0.24	0.00	0.00
30.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.24
45.0	0.48	0.48	0.48	0.48	0.24	0.24	0.24	0.00	0.00
60.0	0.48	0.48	0.48	0.48	0.24	0.24	0.00	0.00	0.00
75.0	0.24	0.24	0.24	0.24	0.24	0.24	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	0.24	0.24	0.24	0.24	0.24	0.24	0.00	0.00	0.00
120.0	0.48	0.48	0.48	0.48	0.24	0.24	0.00	0.00	0.00
135.0	0.48	0.48	0.48	0.48	0.24	0.24	0.24	0.00	0.00
150.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.24
165.0	0.48	0.72	0.72	0.48	0.24	0.24	0.24	0.00	0.00
180.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.00
195.0	0.48	0.72	0.72	0.48	0.24	0.24	0.24	0.00	0.00
210.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.24
225.0	0.48	0.48	0.48	0.48	0.24	0.24	0.24	0.00	0.00
240.0	0.48	0.48	0.48	0.48	0.24	0.24	0.00	0.00	0.00
255.0	0.24	0.24	0.24	0.24	0.24	0.24	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	0.24	0.24	0.24	0.24	0.24	0.24	0.00	0.00	0.00
300.0	0.48	0.48	0.48	0.48	0.24	0.24	0.00	0.00	0.00
315.0	0.48	0.48	0.48	0.48	0.24	0.24	0.24	0.00	0.00
330.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.24
345.0	0.48	0.72	0.72	0.48	0.24	0.24	0.24	0.00	0.00
360.0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	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	0.24	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	0.24	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	0.24	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	0.24	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

Intensity data(cd)

Appendix Page: 20 Total:21

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