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## TroyCSL Lighting

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Client:

LumCAT: B1217-GRA

Luminaire:

Report No: BSR202203030501-9

Ballast type:

Test No: BSR202203030501-9

Voltage(V): 120.000

LampCAT: GU10 6W

Current(A): 0.053

Lamp flux(lm): -1.0

Power (W): 5.915

Number of Lamps: 1

PF: 1.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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## Photometric Results

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Lumens(lm): 367.87, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 62.19

Central intensity(cd): 593.552, Maximum intensity(cd): 613.998

Angle of maximum intensity: C=337.5  $\gamma$ =5.0

Beam Angle(50%Imax): [C0/180]Total=42.3

[C90/270]Total=27.9

Field angle(10%Imax): [C0/180]Total=102.1

[C90/270]Total=60.9

Maximum s/h(1/2): C0\_180=0.71 C90\_270=0.15

Maximum s/h(1/4): C0\_180=0.77 C90\_270=0.14

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 92.786%

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Equipment: GMS1800  
Temperature(°C): 25.0

Date: 2022/3/3  
Humidity(%): 59.0%

Operator: 01  
Distance(m): 10.68

## TroyCSL Lighting B1217-GRA

## 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	593.552	0.000	0	0.00%	0.00%
1.0	592.084	0.567	0.567	0.00%	0.15%
2.0	587.407	1.693	2.26	0.00%	0.61%
3.0	577.277	2.786	5.046	0.00%	1.37%
4.0	556.546	3.795	8.841	0.00%	2.40%
5.0	533.391	4.689	13.53	0.00%	3.68%
6.0	495.630	5.408	18.938	0.00%	5.15%
7.0	454.360	5.897	24.834	0.00%	6.75%
8.0	415.301	6.224	31.058	0.00%	8.44%
9.0	392.667	6.548	37.606	0.00%	10.22%
10.0	368.714	6.890	44.497	0.00%	12.10%
11.0	347.826	7.160	51.656	0.00%	14.04%
12.0	332.634	7.438	59.095	0.00%	16.06%
13.0	316.937	7.709	66.803	0.00%	18.16%
14.0	302.593	7.930	74.733	0.00%	20.32%
15.0	286.389	8.086	82.819	0.00%	22.51%
16.0	270.599	8.161	90.981	0.00%	24.73%
17.0	257.596	8.225	99.206	0.00%	26.97%
18.0	244.293	8.275	107.481	0.00%	29.22%
19.0	230.214	8.255	115.737	0.00%	31.46%
20.0	218.351	8.210	123.947	0.00%	33.69%
21.0	205.569	8.140	132.087	0.00%	35.91%
22.0	194.826	8.046	140.133	0.00%	38.09%
23.0	185.408	7.978	148.111	0.00%	40.26%
24.0	174.893	7.877	155.989	0.00%	42.40%
25.0	166.788	7.769	163.758	0.00%	44.52%
26.0	158.090	7.669	171.426	0.00%	46.60%
27.0	150.013	7.538	178.964	0.00%	48.65%
28.0	143.120	7.422	186.386	0.00%	50.67%
29.0	135.349	7.286	193.671	0.00%	52.65%
30.0	129.183	7.142	200.814	0.00%	54.59%
31.0	123.088	7.020	207.834	0.00%	56.50%
32.0	116.222	6.856	214.69	0.00%	58.36%
33.0	110.983	6.694	221.383	0.00%	60.18%
34.0	105.294	6.545	227.929	0.00%	61.96%
35.0	100.211	6.382	234.311	0.00%	63.69%
36.0	95.812	6.241	240.552	0.00%	65.39%
37.0	90.665	6.082	246.634	0.00%	67.04%

Equipment: GMS1800  
Temperature( $^{\circ}\text{C}$ ): 25.0

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Operator: 01  
Distance(m): 10.68

## TroyCSL Lighting B1217-GRA

## 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	86.773	5.923	252.557	0.00%	68.65%
39.0	82.567	5.780	258.337	0.00%	70.23%
40.0	78.368	5.613	263.95	0.00%	71.75%
41.0	74.575	5.446	269.396	0.00%	73.23%
42.0	70.434	5.268	274.664	0.00%	74.66%
43.0	67.218	5.099	279.763	0.00%	76.05%
44.0	63.640	4.939	284.702	0.00%	77.39%
45.0	60.189	4.759	289.461	0.00%	78.69%
46.0	56.953	4.581	294.042	0.00%	79.93%
47.0	53.417	4.390	298.432	0.00%	81.13%
48.0	50.416	4.197	302.63	0.00%	82.27%
49.0	47.728	4.030	306.66	0.00%	83.36%
50.0	44.990	3.866	310.526	0.00%	84.41%
51.0	42.495	3.701	314.227	0.00%	85.42%
52.0	39.893	3.535	317.762	0.00%	86.38%
53.0	37.298	3.358	321.12	0.00%	87.29%
54.0	35.352	3.202	324.322	0.00%	88.16%
55.0	33.014	3.052	327.374	0.00%	88.99%
56.0	31.125	2.898	330.272	0.00%	89.78%
57.0	29.321	2.764	333.036	0.00%	90.53%
58.0	27.411	2.623	335.66	0.00%	91.25%
59.0	25.728	2.484	338.144	0.00%	91.92%
60.0	24.074	2.353	340.497	0.00%	92.56%
61.0	22.534	2.224	342.721	0.00%	93.16%
62.0	21.159	2.105	344.826	0.00%	93.74%
63.0	19.676	1.986	346.812	0.00%	94.28%
64.0	18.521	1.874	348.687	0.00%	94.79%
65.0	17.288	1.772	350.459	0.00%	95.27%
66.0	16.069	1.664	352.123	0.00%	95.72%
67.0	14.978	1.561	353.684	0.00%	96.14%
68.0	13.859	1.461	355.145	0.00%	96.54%
69.0	12.896	1.365	356.51	0.00%	96.91%
70.0	11.962	1.277	357.786	0.00%	97.26%
71.0	11.021	1.188	358.974	0.00%	97.58%
72.0	10.116	1.099	360.073	0.00%	97.88%
73.0	9.111	1.005	361.079	0.00%	98.15%
74.0	8.298	0.915	361.994	0.00%	98.40%
75.0	7.500	0.835	362.829	0.00%	98.63%

Equipment: GMS1800  
Temperature( $^{\circ}\text{C}$ ): 25.0

Date: 2022/3/3  
Humidity(%): 59.0%

Operator: 01  
Distance(m): 10.68

## TroyCSL Lighting B1217-GRA

## 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	6.637	0.750	363.579	0.00%	98.83%
77.0	5.874	0.667	364.246	0.00%	99.02%
78.0	5.154	0.590	364.837	0.00%	99.18%
79.0	4.413	0.514	365.351	0.00%	99.32%
80.0	3.743	0.440	365.79	0.00%	99.44%
81.0	3.130	0.372	366.162	0.00%	99.54%
82.0	2.709	0.317	366.479	0.00%	99.62%
83.0	2.217	0.268	366.746	0.00%	99.70%
84.0	1.854	0.222	366.968	0.00%	99.76%
85.0	1.618	0.189	367.158	0.00%	99.81%
86.0	1.469	0.169	367.326	0.00%	99.85%
87.0	1.404	0.157	367.484	0.00%	99.90%
88.0	1.390	0.153	367.637	0.00%	99.94%
89.0	1.397	0.153	367.789	0.00%	99.98%
90.0	0.000	0.077	367.866	0.00%	100.00%
91.0	0.000	0.000	367.866	0.00%	100.00%
92.0	0.000	0.000	367.866	0.00%	100.00%
93.0	0.000	0.000	367.866	0.00%	100.00%
94.0	0.000	0.000	367.866	0.00%	100.00%
95.0	0.000	0.000	367.866	0.00%	100.00%
96.0	0.000	0.000	367.866	0.00%	100.00%
97.0	0.000	0.000	367.866	0.00%	100.00%
98.0	0.000	0.000	367.866	0.00%	100.00%
99.0	0.000	0.000	367.866	0.00%	100.00%
100.0	0.000	0.000	367.866	0.00%	100.00%
101.0	0.000	0.000	367.866	0.00%	100.00%
102.0	0.000	0.000	367.866	0.00%	100.00%
103.0	0.000	0.000	367.866	0.00%	100.00%
104.0	0.000	0.000	367.866	0.00%	100.00%
105.0	0.000	0.000	367.866	0.00%	100.00%
106.0	0.000	0.000	367.866	0.00%	100.00%
107.0	0.000	0.000	367.866	0.00%	100.00%
108.0	0.000	0.000	367.866	0.00%	100.00%
109.0	0.000	0.000	367.866	0.00%	100.00%
110.0	0.000	0.000	367.866	0.00%	100.00%
111.0	0.000	0.000	367.866	0.00%	100.00%
112.0	0.000	0.000	367.866	0.00%	100.00%
113.0	0.000	0.000	367.866	0.00%	100.00%

Equipment: GMS1800  
Temperature( $^{\circ}\text{C}$ ): 25.0

Date: 2022/3/3  
Humidity(%): 59.0%

Operator: 01  
Distance(m): 10.68

## TroyCSL Lighting B1217-GRA

## 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	0.000	0.000	367.866	0.00%	100.00%
115.0	0.000	0.000	367.866	0.00%	100.00%
116.0	0.000	0.000	367.866	0.00%	100.00%
117.0	0.000	0.000	367.866	0.00%	100.00%
118.0	0.000	0.000	367.866	0.00%	100.00%
119.0	0.000	0.000	367.866	0.00%	100.00%
120.0	0.000	0.000	367.866	0.00%	100.00%
121.0	0.000	0.000	367.866	0.00%	100.00%
122.0	0.000	0.000	367.866	0.00%	100.00%
123.0	0.000	0.000	367.866	0.00%	100.00%
124.0	0.000	0.000	367.866	0.00%	100.00%
125.0	0.000	0.000	367.866	0.00%	100.00%
126.0	0.000	0.000	367.866	0.00%	100.00%
127.0	0.000	0.000	367.866	0.00%	100.00%
128.0	0.000	0.000	367.866	0.00%	100.00%
129.0	0.000	0.000	367.866	0.00%	100.00%
130.0	0.000	0.000	367.866	0.00%	100.00%
131.0	0.000	0.000	367.866	0.00%	100.00%
132.0	0.000	0.000	367.866	0.00%	100.00%
133.0	0.000	0.000	367.866	0.00%	100.00%
134.0	0.000	0.000	367.866	0.00%	100.00%
135.0	0.000	0.000	367.866	0.00%	100.00%
136.0	0.000	0.000	367.866	0.00%	100.00%
137.0	0.000	0.000	367.866	0.00%	100.00%
138.0	0.000	0.000	367.866	0.00%	100.00%
139.0	0.000	0.000	367.866	0.00%	100.00%
140.0	0.000	0.000	367.866	0.00%	100.00%
141.0	0.000	0.000	367.866	0.00%	100.00%
142.0	0.000	0.000	367.866	0.00%	100.00%
143.0	0.000	0.000	367.866	0.00%	100.00%
144.0	0.000	0.000	367.866	0.00%	100.00%
145.0	0.000	0.000	367.866	0.00%	100.00%
146.0	0.000	0.000	367.866	0.00%	100.00%
147.0	0.000	0.000	367.866	0.00%	100.00%
148.0	0.000	0.000	367.866	0.00%	100.00%
149.0	0.000	0.000	367.866	0.00%	100.00%
150.0	0.000	0.000	367.866	0.00%	100.00%
151.0	0.000	0.000	367.866	0.00%	100.00%

Equipment: GMS1800  
Temperature( $^{\circ}\text{C}$ ): 25.0

Date: 2022/3/3  
Humidity(%): 59.0%

Operator: 01  
Distance(m): 10.68

# TroyCSL Lighting B1217-GRA

## 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	367.866	0.00%	100.00%
153.0	0.000	0.000	367.866	0.00%	100.00%
154.0	0.000	0.000	367.866	0.00%	100.00%
155.0	0.000	0.000	367.866	0.00%	100.00%
156.0	0.000	0.000	367.866	0.00%	100.00%
157.0	0.000	0.000	367.866	0.00%	100.00%
158.0	0.000	0.000	367.866	0.00%	100.00%
159.0	0.000	0.000	367.866	0.00%	100.00%
160.0	0.000	0.000	367.866	0.00%	100.00%
161.0	0.000	0.000	367.866	0.00%	100.00%
162.0	0.000	0.000	367.866	0.00%	100.00%
163.0	0.000	0.000	367.866	0.00%	100.00%
164.0	0.000	0.000	367.866	0.00%	100.00%
165.0	0.000	0.000	367.866	0.00%	100.00%
166.0	0.000	0.000	367.866	0.00%	100.00%
167.0	0.000	0.000	367.866	0.00%	100.00%
168.0	0.000	0.000	367.866	0.00%	100.00%
169.0	0.000	0.000	367.866	0.00%	100.00%
170.0	0.000	0.000	367.866	0.00%	100.00%
171.0	0.000	0.000	367.866	0.00%	100.00%
172.0	0.000	0.000	367.866	0.00%	100.00%
173.0	0.000	0.000	367.866	0.00%	100.00%
174.0	0.000	0.000	367.866	0.00%	100.00%
175.0	0.000	0.000	367.866	0.00%	100.00%
176.0	0.000	0.000	367.866	0.00%	100.00%
177.0	0.000	0.000	367.866	0.00%	100.00%
178.0	0.000	0.000	367.866	0.00%	100.00%
179.0	0.000	0.000	367.866	0.00%	100.00%
180.0	0.000	0.000	367.866	0.00%	100.00%

Equipment: GMS1800  
Temperature( $^{\circ}\text{C}$ ): 25.0

Date: 2022/3/3  
Humidity(%): 59.0%

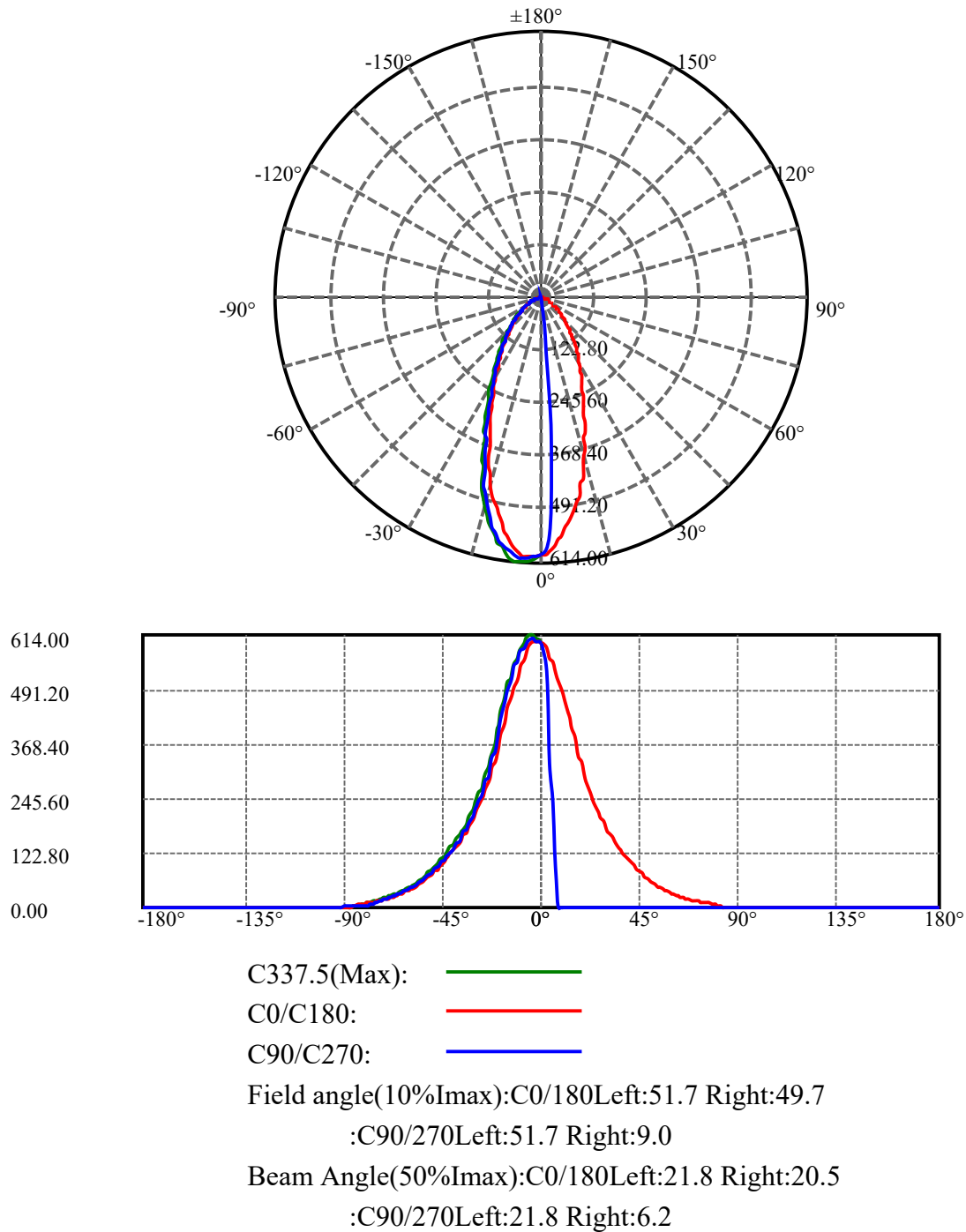
Operator: 01  
Distance(m): 10.68

## ZONAL LUMEN SUMMARY

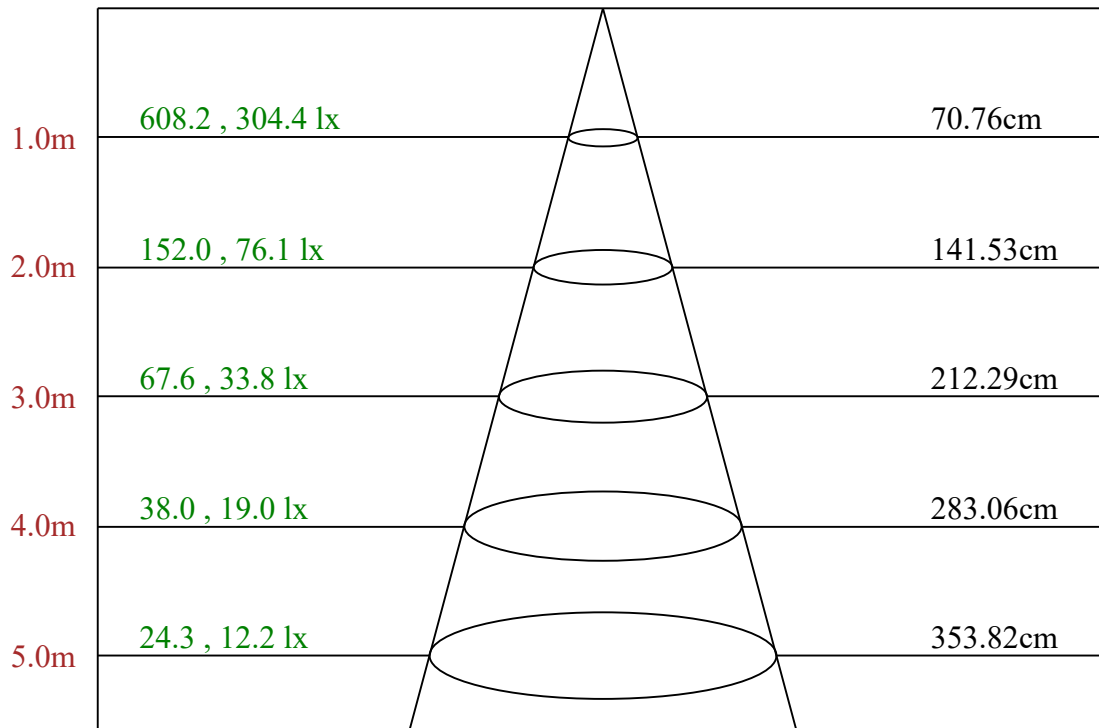
Zone	Lumens	%Lamp	%Fixt
0-30	200.81	N.A.	54.59%
0-40	263.95	N.A.	71.75%
0-60	340.50	N.A.	92.56%
0-90	367.87	N.A.	100.00%
0-120	367.87	N.A.	100.00%
0-180	367.87	N.A.	100.00%
60-90	27.37	N.A.	7.44%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.00	N.A.	0.00%
90-180	0.00	N.A.	0.00%
0-46.06	294.29	N.A.	80.00%

## ZONAL LUMEN SUMMARY

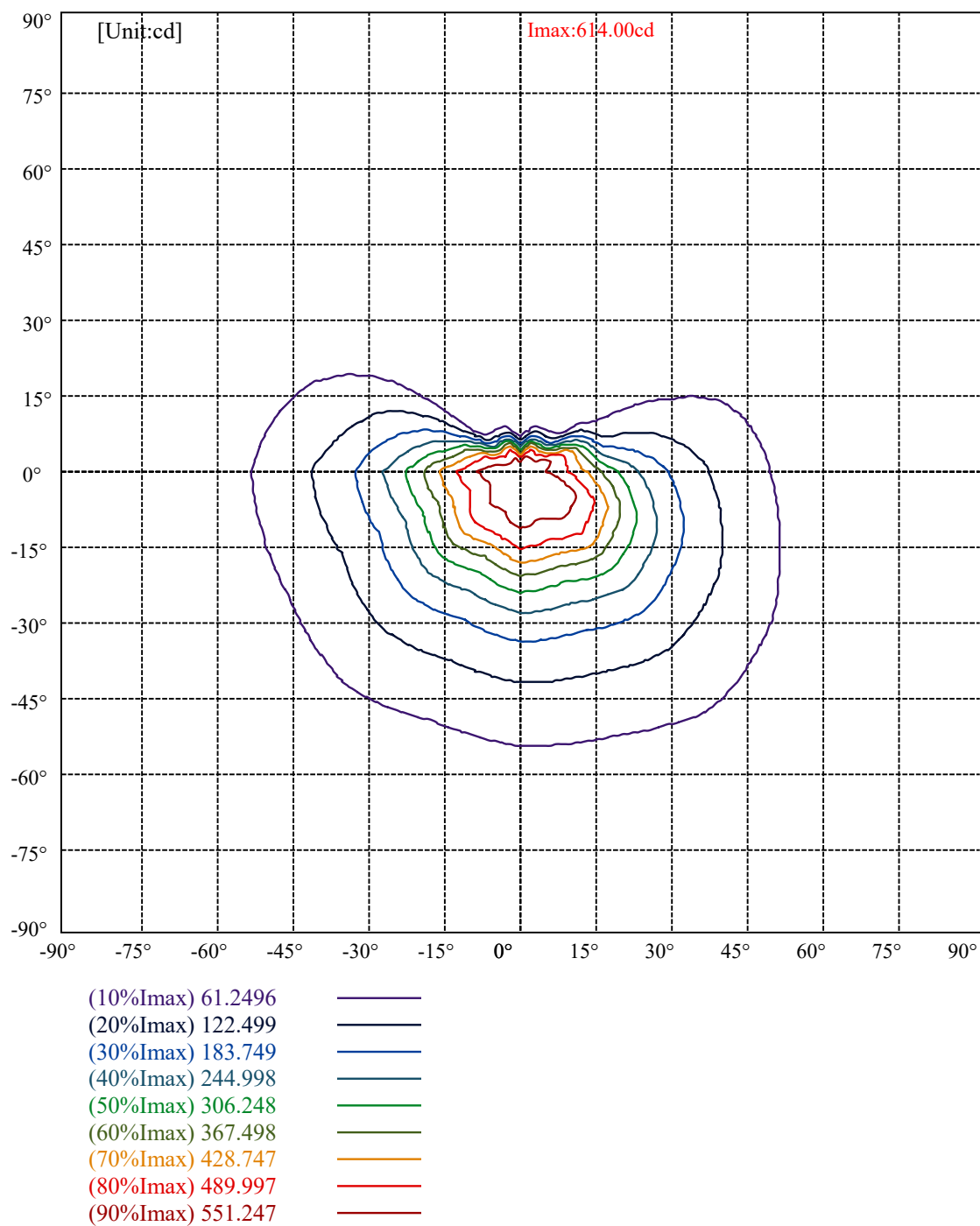
0-10	44.50
10-20	79.45
20-30	76.87
30-40	63.14
40-50	46.58
50-60	29.97
60-70	17.29
70-80	8.00
80-90	2.08
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00







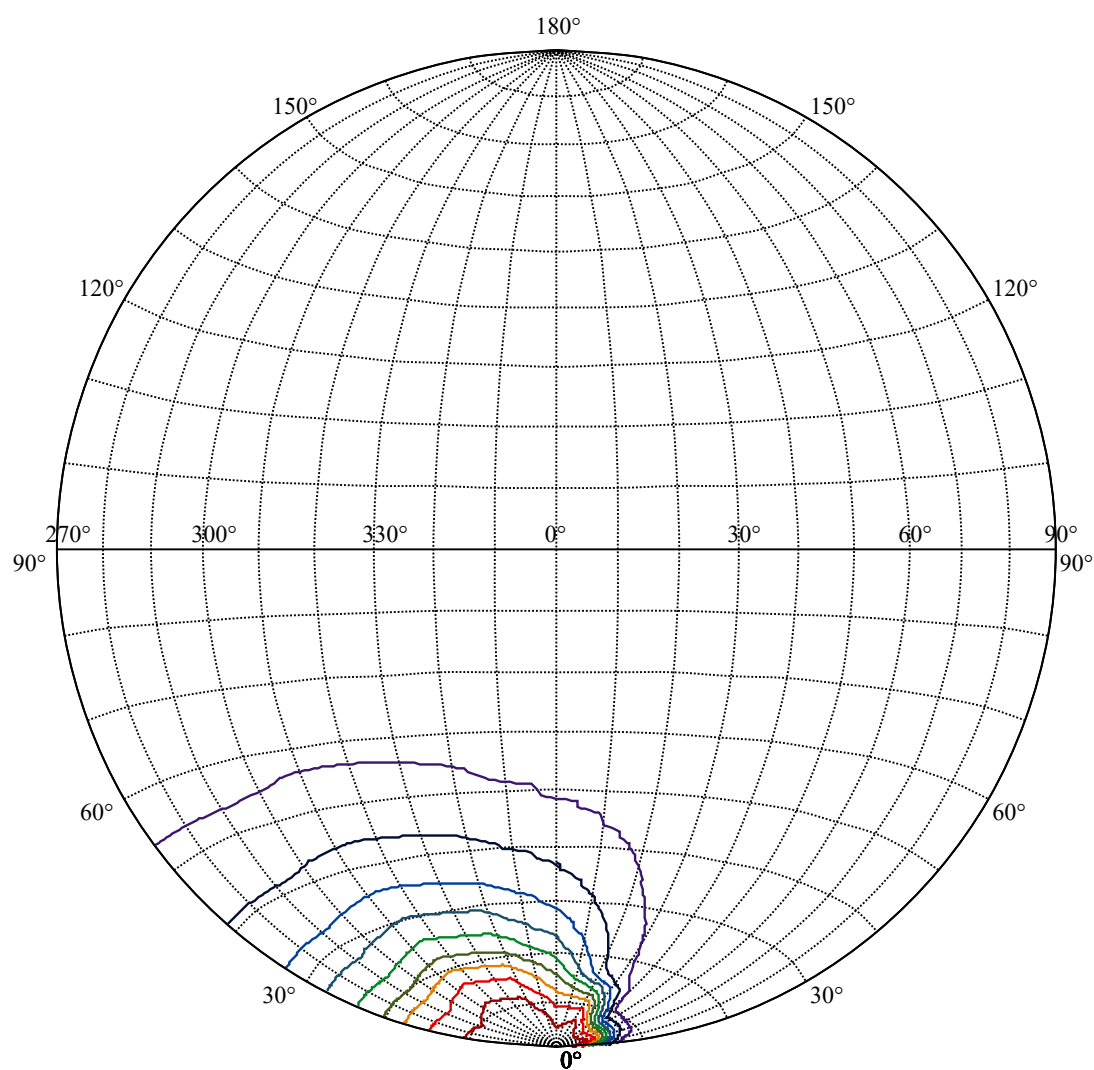
Max , Ave      Beam angle of C337.5 plane 38.97



Equipment: GMS1800  
Temperature(°C): 25.0

Date: 2022/3/3  
Humidity(%): 59.0%

Operator: 01  
Distance(m): 10.68



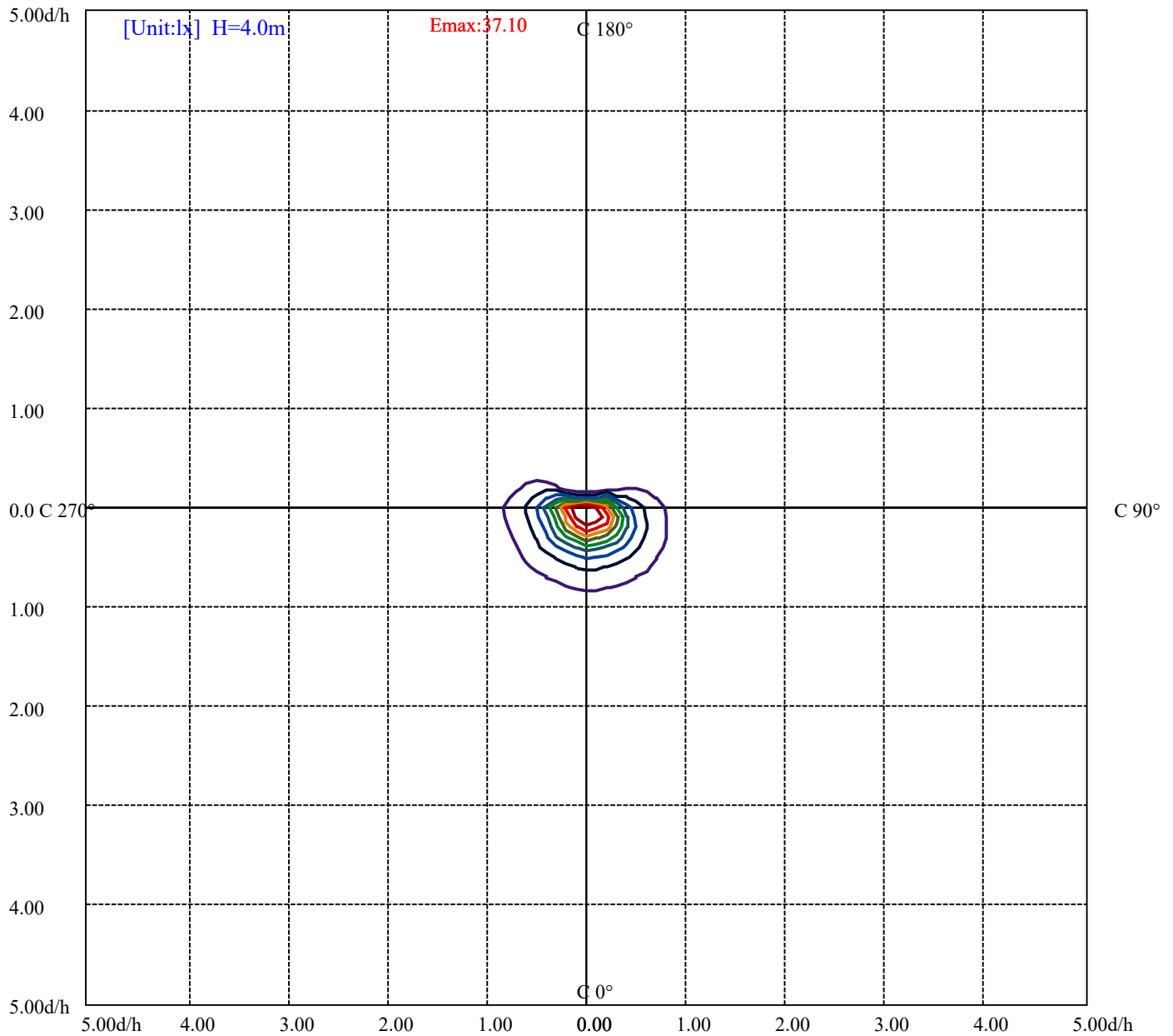
House

[Unit:cd]

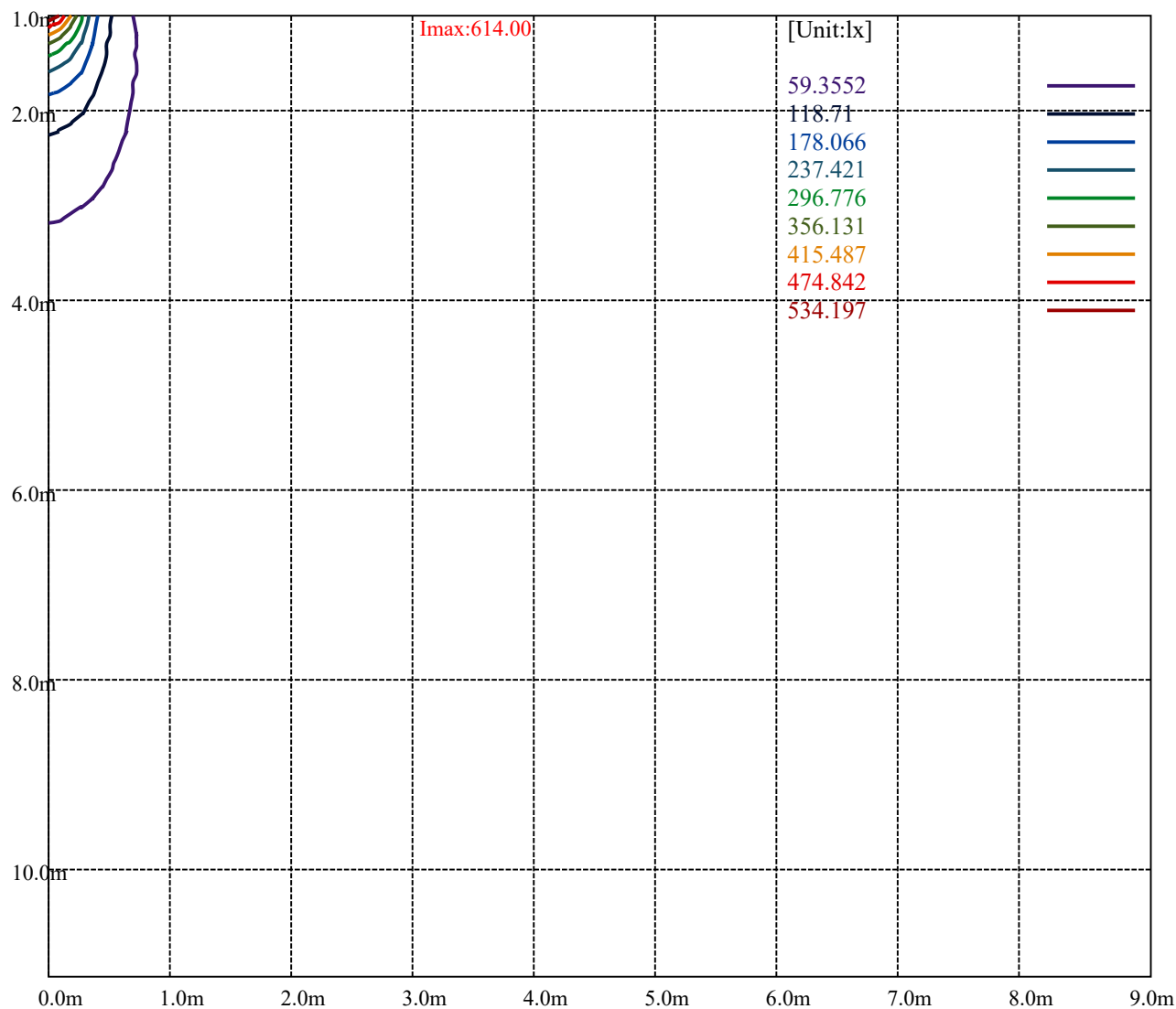
Road

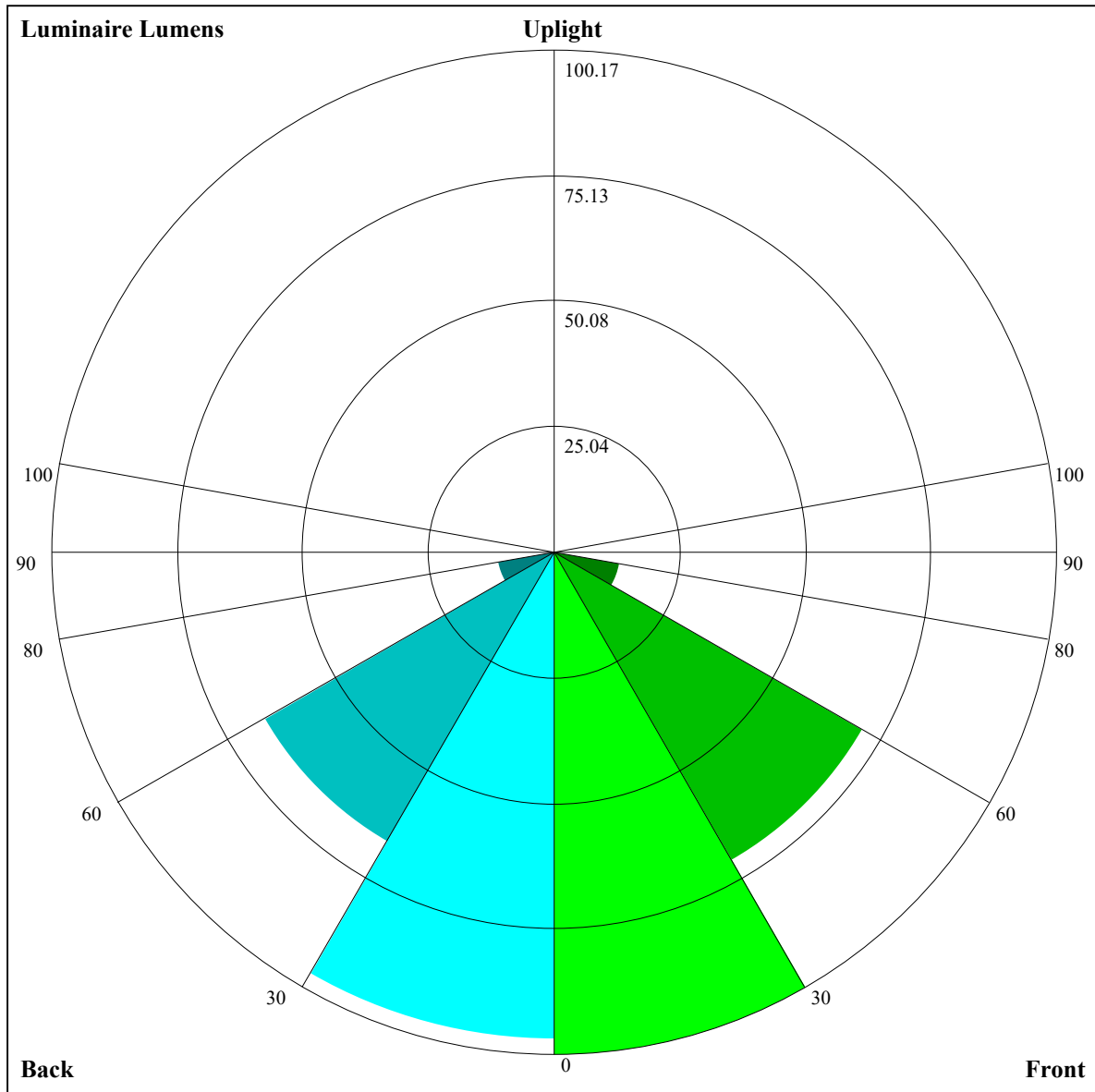
**Imax:614.00**

(10%Imax)	61.5937	—
(20%Imax)	123.187	—
(30%Imax)	184.781	—
(40%Imax)	246.375	—
(50%Imax)	307.969	—
(60%Imax)	369.562	—
(70%Imax)	431.156	—
(80%Imax)	492.75	—
(90%Imax)	554.343	—



(10%E <sub>max</sub> ) 3.709694	—
(20%E <sub>max</sub> ) 7.419375	—
(30%E <sub>max</sub> ) 11.12906	—
(40%E <sub>max</sub> ) 14.83875	—
(50%E <sub>max</sub> ) 18.54844	—
(60%E <sub>max</sub> ) 22.25813	—
(70%E <sub>max</sub> ) 25.96781	—
(80%E <sub>max</sub> ) 29.6775	—
(90%E <sub>max</sub> ) 33.38719	—





Luminaire Lumens:

FL=100.17,FM=70.82,FH=13.38,FVH=1.05

BL=97.16,BM=66.59,BH=11.5,BVH=0.93

UL=0,UH=0

BUG Rating:B0-U0-G0

# TroyCSL Lighting B1217-GRA

Intensity data(cd)										Appendix Page: 15 Total:21	
C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0		
0.0	593.55	594.49	586.62	575.90	561.30	551.61	536.66	523.66	509.97		
22.5	593.55	599.97	595.41	588.11	584.80	573.73	562.33	545.10	512.48		
45.0	593.55	587.19	583.66	554.34	503.13	468.23	382.34	272.38	174.06		
67.5	593.55	595.29	589.36	577.04	552.63	480.09	368.88	232.57	133.45		
90.0	593.55	581.95	546.24	475.75	323.37	237.48	128.78	61.14	2.51		
112.5	593.55	583.20	576.47	564.04	544.53	477.12	373.78	241.81	118.97		
135.0	593.55	565.86	555.37	540.31	500.96	457.62	360.21	256.30	159.69		
157.5	593.55	582.29	571.91	558.91	549.44	526.06	512.37	502.56	484.54		
180.0	593.55	600.08	598.94	600.08	599.74	592.90	582.17	569.74	555.48		
202.5	593.55	599.17	593.92	586.62	574.99	566.78	553.43	539.63	524.00		
225.0	593.55	599.06	599.63	598.94	595.18	588.22	577.38	567.12	556.05		
247.5	593.55	600.42	598.83	593.92	587.08	584.57	575.79	564.61	554.34		
270.0	593.55	597.46	599.85	604.07	605.22	603.28	598.60	591.30	584.11		
292.5	593.55	597.92	601.11	605.33	602.71	601.57	594.61	585.14	575.33		
315.0	593.55	587.31	595.52	603.85	607.04	611.03	611.15	609.66	603.16		
337.5	593.55	601.68	605.67	609.21	612.63	614.00	611.60	607.04	596.66		
360.0	593.55	594.49	586.62	575.90	561.30	551.61	536.66	523.66	509.97		
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0		
0.0	491.72	482.14	466.63	439.03	427.51	404.92	383.48	362.60	339.11		
22.5	494.35	460.13	421.12	370.47	309.79	271.70	199.61	153.53	127.98		
45.0	104.71	76.42	19.73	1.71	1.37	1.25	1.25	1.25	1.25		
67.5	97.18	12.43	1.71	1.37	1.25	1.25	1.25	1.25	1.25		
90.0	1.37	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25		
112.5	94.79	18.48	1.37	1.25	1.25	1.25	1.25	1.25	1.25		
135.0	86.46	65.93	22.47	1.71	1.25	1.25	1.25	1.25	1.25		
157.5	445.30	410.85	374.24	349.03	300.21	268.62	248.54	232.57	225.27		
180.0	545.67	526.51	511.68	497.65	480.66	470.05	450.20	423.63	409.14		
202.5	509.63	495.83	481.57	464.23	453.85	432.18	411.08	390.32	364.66		
225.0	548.53	534.84	521.84	511.11	494.46	487.16	458.87	438.11	422.83		
247.5	543.05	537.12	525.14	510.43	491.61	460.81	433.67	407.20	378.00		
270.0	579.09	570.77	552.40	543.51	522.75	507.01	489.67	468.45	452.83		
292.5	558.68	549.32	534.84	520.81	507.58	492.41	482.83	462.29	439.71		
315.0	600.42	582.86	567.92	559.82	542.14	525.71	512.60	498.91	490.58		
337.5	581.72	574.53	561.30	548.75	534.04	514.65	505.41	485.68	465.15		
360.0	491.72	482.14	466.63	439.03	427.51	404.92	383.48	362.60	339.11		
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0		
0.0	327.36	307.97	291.32	277.06	260.75	246.72	234.97	221.40	214.67		
22.5	114.40	107.67	103.34	99.80	97.64	93.65	90.22	86.80	83.15		
45.0	1.25	1.25	1.25	1.25	1.14	1.14	1.14	1.14	1.14		
67.5	1.25	1.25	1.25	1.14	1.14	1.14	1.14	1.14	1.14		
90.0	1.25	1.25	1.14	1.14	1.14	1.14	1.14	1.03	1.03		
112.5	1.25	1.25	1.14	1.14	1.14	1.14	1.14	1.14	1.14		
135.0	1.14	1.25	1.14	1.14	1.14	1.14	1.14	1.14	1.14		
157.5	211.13	200.07	190.14	178.51	169.27	160.83	152.50	148.05	139.38		
180.0	388.15	363.40	344.13	326.10	315.50	295.31	280.37	266.11	252.08		
202.5	353.71	334.66	318.01	301.47	282.76	273.29	251.62	235.88	228.12		
225.0	394.20	370.47	346.98	327.59	315.50	294.05	278.77	265.77	250.02		
247.5	366.60	346.18	327.93	309.45	288.35	278.08	263.83	250.25	234.74		
270.0	422.03	396.37	374.24	352.22	340.70	319.49	294.62	284.93	266.45		
292.5	410.17	387.36	364.43	341.05	317.32	308.08	293.14	279.11	265.77		
315.0	470.74	449.41	426.48	398.88	375.84	354.62	334.32	323.14	303.18		
337.5	444.04	413.59	400.70	371.16	347.89	336.71	318.23	301.58	286.30		
360.0	327.36	307.97	291.32	277.06	260.75	246.72	234.97	221.40	214.67		

## TroyCSL Lighting B1217-GRA

Intensity data(cd)										Appendix Page: 16 Total:21	
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0		
0.0	203.60	193.22	183.53	172.58	167.33	158.89	150.68	143.60	135.16		
22.5	81.10	76.76	72.66	70.95	67.64	65.13	62.39	60.11	58.97		
45.0	1.14	1.14	1.14	1.03	1.03	1.03	1.03	1.03	1.03		
67.5	1.03	1.03	1.03	1.03	0.91	0.91	0.91	0.91	0.91		
90.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
112.5	1.03	1.03	1.03	1.03	1.03	0.91	0.91	0.91	0.91		
135.0	1.03	1.14	1.03	1.03	1.03	1.03	1.03	1.03	1.03		
157.5	131.97	125.13	119.08	115.55	108.47	100.03	96.84	91.48	85.43		
180.0	244.66	230.63	219.57	209.19	196.87	187.18	178.17	169.15	163.79		
202.5	215.81	204.29	194.02	182.39	176.80	168.01	159.00	151.59	143.15		
225.0	237.48	225.39	212.95	206.34	193.56	183.53	174.06	164.48	159.23		
247.5	223.11	215.58	200.52	187.86	182.04	172.69	163.34	155.12	146.00		
270.0	253.10	239.99	227.55	220.25	206.80	195.96	185.81	176.57	171.32		
292.5	249.23	241.24	224.25	211.13	206.80	194.82	185.01	176.91	167.44		
315.0	286.30	271.81	258.92	251.05	235.65	219.80	213.07	202.35	190.94		
337.5	268.73	260.63	247.40	234.63	222.54	208.73	202.57	188.55	177.14		
360.0	203.60	193.22	183.53	172.58	167.33	158.89	150.68	143.60	135.16		
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0		
0.0	130.94	122.05	114.86	111.44	105.74	99.92	94.33	87.83	84.63		
22.5	56.80	54.64	52.13	49.96	48.70	46.31	44.37	42.66	40.38		
45.0	1.03	1.03	1.03	1.03	0.91	1.03	0.91	0.91	0.91		
67.5	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
90.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
112.5	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
135.0	1.03	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
157.5	80.64	75.85	73.23	68.55	64.56	61.02	57.49	55.55	51.67		
180.0	153.87	146.34	139.16	132.54	128.78	121.48	113.26	109.73	102.43		
202.5	136.42	129.80	121.59	117.83	111.67	105.62	99.80	93.19	90.22		
225.0	149.42	139.73	136.30	129.80	122.27	115.89	109.39	105.96	98.78		
247.5	141.89	135.28	128.78	122.62	116.00	109.84	103.11	96.15	92.85		
270.0	160.60	149.76	145.66	137.56	130.37	123.76	117.48	113.95	107.56		
292.5	162.88	154.33	146.23	138.47	130.72	126.72	119.77	113.26	106.42		
315.0	182.73	174.29	168.58	157.75	150.11	142.46	135.16	131.40	123.42		
337.5	172.01	163.91	157.18	149.88	140.41	135.51	128.21	121.25	115.32		
360.0	130.94	122.05	114.86	111.44	105.74	99.92	94.33	87.83	84.63		
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	79.73	74.94	70.15	64.79	60.68	56.92	52.81	50.76	47.56		
22.5	38.32	36.39	34.56	33.53	31.48	29.88	28.17	26.35	25.32		
45.0	0.91	0.91	0.91	0.91	0.91	0.91	1.03	0.91	0.91		
67.5	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
90.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
112.5	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
135.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
157.5	48.48	45.51	42.09	39.35	36.96	34.56	33.31	30.57	28.40		
180.0	96.50	90.91	85.77	82.92	77.22	72.77	68.32	63.99	59.54		
202.5	85.09	80.07	75.17	69.12	66.50	62.28	56.12	54.07	50.64		
225.0	92.96	87.26	82.01	78.93	73.57	69.01	64.90	60.11	56.46		
247.5	87.60	82.58	77.56	71.86	69.12	64.79	60.91	57.03	52.70		
270.0	101.97	96.27	90.79	87.71	80.53	76.08	73.23	67.98	63.87		
292.5	101.17	95.47	90.11	84.18	81.44	77.11	73.11	68.78	63.87		
315.0	117.60	111.78	104.25	98.44	93.30	88.63	86.00	80.53	75.62		
337.5	109.04	105.51	97.64	91.25	88.28	83.27	78.36	73.57	68.21		
360.0	79.73	74.94	70.15	64.79	60.68	56.92	52.81	50.76	47.56		



## TroyCSL Lighting B1217-GRA

Intensity data(cd)										Appendix Page: 17 Total:21	
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	44.48	41.75	38.44	36.84	34.45	32.17	30.00	27.49	25.55		
22.5	23.50	22.13	20.76	19.16	18.71	17.11	16.08	15.51	14.37		
45.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
67.5	0.91	0.91	0.91	0.91	0.91	0.91	0.80	0.91	0.91		
90.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
112.5	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
135.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
157.5	26.58	24.75	23.72	21.90	20.42	18.93	17.34	15.97	14.83		
180.0	57.37	52.35	50.30	46.42	43.46	40.61	37.87	36.39	33.53		
202.5	47.45	44.37	40.83	39.24	36.73	34.33	32.17	29.54	27.60		
225.0	52.92	49.62	47.79	44.03	41.18	38.55	36.16	34.67	32.05		
247.5	50.76	47.79	43.00	41.29	38.78	36.27	33.88	31.14	30.00		
270.0	60.00	56.35	54.18	50.19	47.11	44.26	41.52	39.92	36.61		
292.5	61.37	56.23	52.24	50.99	47.45	44.37	41.63	38.44	36.84		
315.0	70.83	66.50	64.10	60.00	55.21	53.15	49.73	45.97	43.23		
337.5	65.81	61.82	58.06	54.52	50.53	47.34	44.37	40.95	39.35		
360.0	44.48	41.75	38.44	36.84	34.45	32.17	30.00	27.49	25.55		
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	23.84	21.90	20.87	19.39	18.02	16.65	15.17	14.49	13.46		
22.5	13.46	12.66	11.86	11.41	10.49	9.92	9.24	8.55	7.98		
45.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
67.5	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.80	0.91		
90.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.80	0.91		
112.5	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.80	0.91		
135.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
157.5	13.69	13.12	11.86	10.95	10.04	9.35	8.78	7.98	7.30		
180.0	31.37	29.20	27.26	26.01	23.72	21.33	20.42	18.59	17.22		
202.5	25.78	23.61	22.70	21.10	19.62	18.25	16.65	15.85	14.60		
225.0	29.09	27.83	26.01	23.84	22.13	20.53	19.62	17.79	16.20		
247.5	27.83	25.78	23.84	21.67	19.85	18.14	16.20	15.40	13.80		
270.0	33.31	31.94	29.20	27.03	24.98	22.93	21.79	19.62	18.02		
292.5	34.33	32.05	29.88	27.26	25.89	23.84	20.76	19.73	18.02		
315.0	40.72	39.24	36.27	33.99	31.71	29.54	28.29	26.01	24.07		
337.5	36.84	34.45	32.28	29.88	28.63	26.69	24.87	23.15	21.10		
360.0	23.84	21.90	20.87	19.39	18.02	16.65	15.17	14.49	13.46		
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	12.55	11.52	10.72	10.38	9.58	8.67	8.10	6.27	3.88		
22.5	7.41	6.84	6.62	6.05	5.70	5.36	5.02	4.90	4.79		
45.0	0.91	0.91	1.03	0.91	0.91	0.91	0.91	0.91	0.91		
67.5	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
90.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
112.5	0.80	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
135.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
157.5	6.73	6.16	5.93	5.59	5.13	4.79	4.22	3.54	2.28		
180.0	15.85	14.60	13.92	12.55	11.52	10.72	10.04	9.70	8.90		
202.5	13.35	12.20	10.84	10.15	9.12	7.07	6.27	4.90	3.54		
225.0	14.71	13.35	12.55	10.95	9.35	7.76	6.05	4.68	3.76		
247.5	11.75	10.15	8.10	6.96	5.47	4.56	3.99	3.42	3.19		
270.0	16.31	14.03	12.89	9.92	7.87	6.84	5.25	4.56	3.99		
292.5	16.31	14.14	11.75	10.49	8.44	6.50	5.13	4.33	4.11		
315.0	22.24	20.07	18.25	16.54	14.83	13.80	11.75	9.92	7.98		
337.5	20.19	18.14	16.54	15.85	14.60	13.35	12.09	9.81	8.90		
360.0	12.55	11.52	10.72	10.38	9.58	8.67	8.10	6.27	3.88		

# TroyCSL Lighting B1217-GRA

Intensity data(cd)									Appendix Page: 18 Total:21		
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	2.40	1.37	1.03	0.91	0.91	0.91	0.91	0.91	0.91		
22.5	4.45	4.22	2.40	2.05	1.14	0.91	0.91	0.91	0.91		
45.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
67.5	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
90.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
112.5	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		
135.0	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91		1.03
157.5	1.37	1.14	0.91	0.91	0.91	0.91	0.91	0.91	0.91		1.03
180.0	7.98	7.53	6.05	3.42	2.05	1.25	0.91	0.91	0.91		0.91
202.5	2.74	2.05	1.82	1.60	1.48	1.48	1.48	1.48	1.48		1.48
225.0	3.19	2.97	2.51	2.17	2.05	2.05	2.05	1.94	1.94		1.94
247.5	2.85	2.40	2.40	2.40	2.28	2.17	2.17	2.17	2.17		2.17
270.0	3.54	3.31	2.85	2.62	2.51	2.51	2.51	2.40	2.40		2.40
292.5	3.42	2.85	2.62	2.40	2.40	2.40	2.28	2.28	2.28		2.28
315.0	6.16	5.25	4.11	3.54	2.97	2.51	2.17	2.17	2.17		2.17
337.5	7.41	5.70	4.22	3.08	2.62	1.82	1.60	1.60	1.60		1.48
360.0	2.40	1.37	1.03	0.91	0.91	0.91	0.91	0.91	0.91		0.91
C/γ(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0		
0.0	0.00	0.00	0.00	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		0.00
45.0	0.00	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		0.00
90.0	0.00	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		0.00
135.0	0.00	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		0.00
180.0	0.00	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		0.00
225.0	0.00	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		0.00
270.0	0.00	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		0.00
315.0	0.00	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		0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
C/γ(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0		
0.0	0.00	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		0.00
45.0	0.00	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		0.00
90.0	0.00	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		0.00
135.0	0.00	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		0.00
180.0	0.00	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		0.00
225.0	0.00	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		0.00
270.0	0.00	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		0.00
315.0	0.00	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		0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00

## TroyCSL Lighting B1217-GRA

Intensity data(cd)										Appendix Page: 19 Total:21	
C/γ(°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0		
0.0	0.00	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/γ(°)	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/γ(°)	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		

## TroyCSL Lighting B1217-GRA

Intensity data(cd)										Appendix Page: 20 Total:21	
C/γ(°)	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/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		
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/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		
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		

# TroyCSL Lighting B1217-GRA

Intensity data(cd)									Appendix Page: 21 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		
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/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		
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/γ(°)	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										