



ASD LIGHTING CORP

Address: 120 Shawmut road, Canton, MA, 02021 USA

LumCAT: ASD-CSFL-A3040-B

Luminaire:

Report No:

Voltage(V): 120.0000

Test No:

Current(A): 0.2480

LampCAT:

Power (W): 29.3800

Lamp flux(lm): -1.0

PF: 0.9840

Number of Lamps: 0

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2757.87

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 93.87

Central intensity(cd): 1155.960

Maximum intensity(cd): 1198.616

Angle of maximum intensity: C=30.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Left=58.3 Right=40.8

[C90/270]Left=49.6 Right=52.6

Field angle(10%Imax): [C0/180]Left=77.7 Right=61.6

[C90/270]Left=63.7 Right=67.8



Equipment: GMS-1800
Temperature(°C): 0.0

Date: 2016/12/20
Humidity(%): 0.0%

Operator:
Distance(m): 14.36

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1159.515	.000	.000	.000%	.000%
1.0	1156.849	1.108	1.108	.000%	.000%
2.0	1153.295	3.316	4.424	.000%	.000%
3.0	1158.627	5.529	9.953	.000%	.000%
4.0	1161.293	7.766	17.719	.000%	.000%
5.0	1158.626	9.980	27.699	.000%	.000%
6.0	1154.183	12.154	39.854	.000%	.000%
7.0	1156.849	14.345	54.198	.000%	.000%
8.0	1155.072	16.546	70.744	.000%	.000%
9.0	1152.406	18.701	89.445	.000%	.000%
10.0	1149.740	20.834	110.279	.000%	.000%
11.0	1147.963	22.959	133.237	.000%	.000%
12.0	1145.297	25.069	158.306	.000%	.000%
13.0	1148.851	27.226	185.532	.000%	.000%
14.0	1148.851	29.410	214.942	.000%	.000%
15.0	1147.074	31.519	246.462	.000%	.000%
16.0	1142.631	33.551	280.012	.000%	.000%
17.0	1142.631	35.588	315.600	.000%	.000%
18.0	1133.744	37.532	353.132	.000%	.000%
19.0	1123.969	39.280	392.412	.000%	.000%
20.0	1118.637	41.046	433.458	.000%	.000%
21.0	1108.862	42.772	476.230	.000%	.000%
22.0	1102.641	44.441	520.671	.000%	.000%
23.0	1096.421	46.142	566.814	.000%	.000%
24.0	1086.645	47.730	614.543	.000%	.000%
25.0	1075.982	49.173	663.717	.000%	.000%
26.0	1059.097	50.399	714.115	.000%	.000%
27.0	1052.877	51.670	765.785	.000%	.000%
28.0	1031.549	52.773	818.559	.000%	.000%
29.0	1021.774	53.721	872.279	.000%	.000%
30.0	1009.333	54.839	927.119	.000%	.000%
31.0	988.005	55.583	982.702	.000%	.000%
32.0	969.343	56.076	1038.777	.000%	.000%
33.0	956.013	56.722	1095.499	.000%	.000%
34.0	940.906	57.406	1152.906	.000%	.000%
35.0	921.356	57.835	1210.740	.000%	.000%
36.0	907.137	58.220	1268.960	.000%	.000%
37.0	889.364	58.592	1327.552	.000%	.000%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	878.701	59.016	1386.568	.000%	.000%
39.0	852.041	59.075	1445.642	.000%	.000%
40.0	837.822	58.936	1504.579	.000%	.000%
41.0	817.384	58.941	1563.520	.000%	.000%
42.0	800.499	58.780	1622.300	.000%	.000%
43.0	783.615	58.680	1680.981	.000%	.000%
44.0	768.508	58.581	1739.562	.000%	.000%
45.0	742.737	58.079	1797.641	.000%	.000%
46.0	719.632	57.190	1854.831	.000%	.000%
47.0	699.193	56.430	1911.261	.000%	.000%
48.0	677.865	55.668	1966.929	.000%	.000%
49.0	655.649	54.761	2021.691	.000%	.000%
50.0	628.100	53.524	2075.214	.000%	.000%
51.0	599.663	51.945	2127.159	.000%	.000%
52.0	580.113	50.625	2177.784	.000%	.000%
53.0	558.785	49.542	2227.326	.000%	.000%
54.0	533.014	48.122	2275.448	.000%	.000%
55.0	507.243	46.435	2321.884	.000%	.000%
56.0	478.806	44.557	2366.440	.000%	.000%
57.0	445.926	42.281	2408.721	.000%	.000%
58.0	425.487	40.297	2449.019	.000%	.000%
59.0	392.607	38.246	2487.265	.000%	.000%
60.0	357.950	35.459	2522.724	.000%	.000%
61.0	333.067	32.977	2555.701	.000%	.000%
62.0	301.076	30.557	2586.258	.000%	.000%
63.0	278.859	28.205	2614.463	.000%	.000%
64.0	247.757	25.841	2640.304	.000%	.000%
65.0	217.542	23.027	2663.331	.000%	.000%
66.0	186.440	20.156	2683.487	.000%	.000%
67.0	159.780	17.409	2700.896	.000%	.000%
68.0	134.009	14.882	2715.778	.000%	.000%
69.0	108.238	12.358	2728.136	.000%	.000%
70.0	84.244	9.886	2738.022	.000%	.000%
71.0	55.630	7.229	2745.251	.000%	.000%
72.0	39.989	4.972	2750.223	.000%	.000%
73.0	23.994	3.346	2753.569	.000%	.000%
74.0	15.463	2.074	2755.644	.000%	.000%
75.0	6.931	1.183	2756.827	.000%	.000%

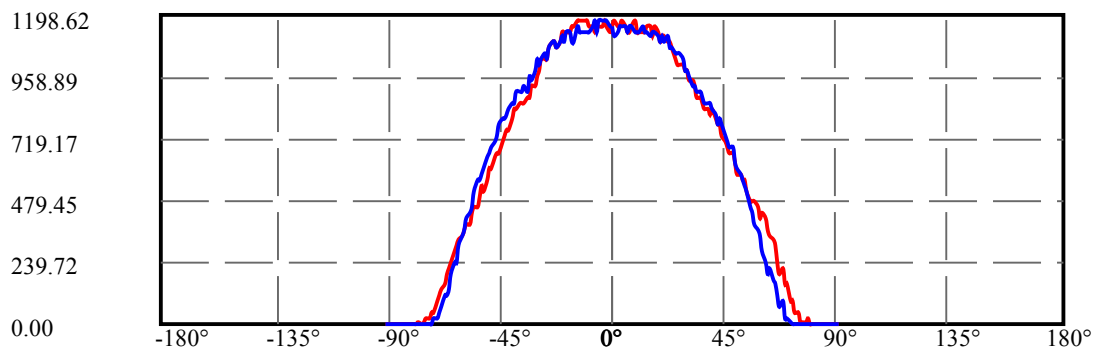
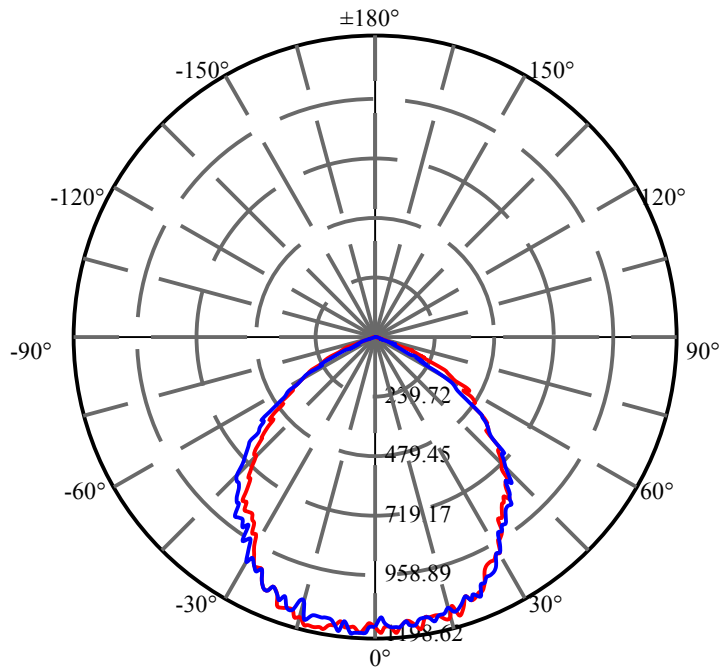
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.488	.500	2757.327	.000%	.000%
77.0	1.244	.199	2757.526	.000%	.000%
78.0	1.955	.171	2757.697	.000%	.000%
79.0	.000	.105	2757.802	.000%	.000%
80.0	.000	.000	2757.802	.000%	.000%
81.0	.000	.000	2757.802	.000%	.000%
82.0	.178	.010	2757.811	.000%	.000%
83.0	.178	.019	2757.831	.000%	.000%
84.0	.000	.010	2757.840	.000%	.000%
85.0	.000	.000	2757.840	.000%	.000%
86.0	.178	.010	2757.850	.000%	.000%
87.0	.000	.010	2757.860	.000%	.000%
88.0	.000	.000	2757.860	.000%	.000%
89.0	.000	.000	2757.860	.000%	.000%
90.0	.000	.000	2757.860	.000%	.000%

ZONAL LUMEN SUMMARY

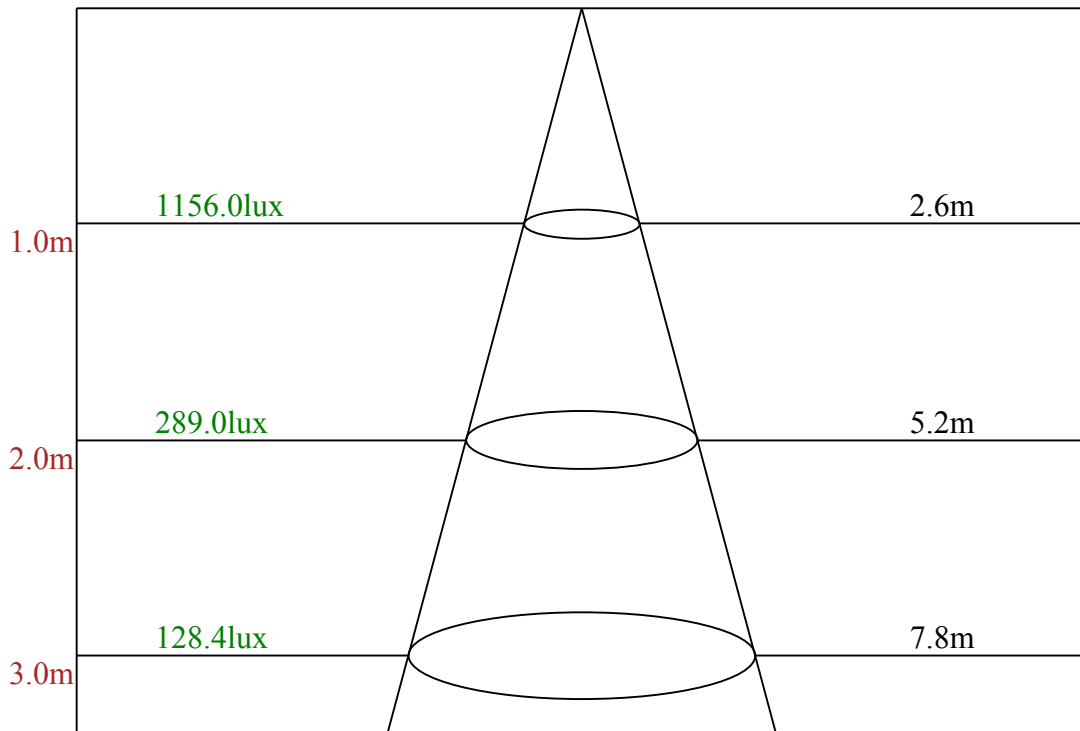
Zone	Lumens	%Lamp	%Fixt
0-30	927.12	N.A.	33.62%
0-40	1504.58	N.A.	54.56%
0-60	2522.72	N.A.	91.47%
0-90	2757.86	N.A.	100.00%
0-120	2757.86	N.A.	100.00%
0-180	2757.86	N.A.	100.00%
60-90	270.60	N.A.	9.81%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.00	N.A.	0.00%
90-180	0.00	N.A.	0.00%
0-52.58	2206.29	N.A.	80.00%

ZONAL LUMEN SUMMARY

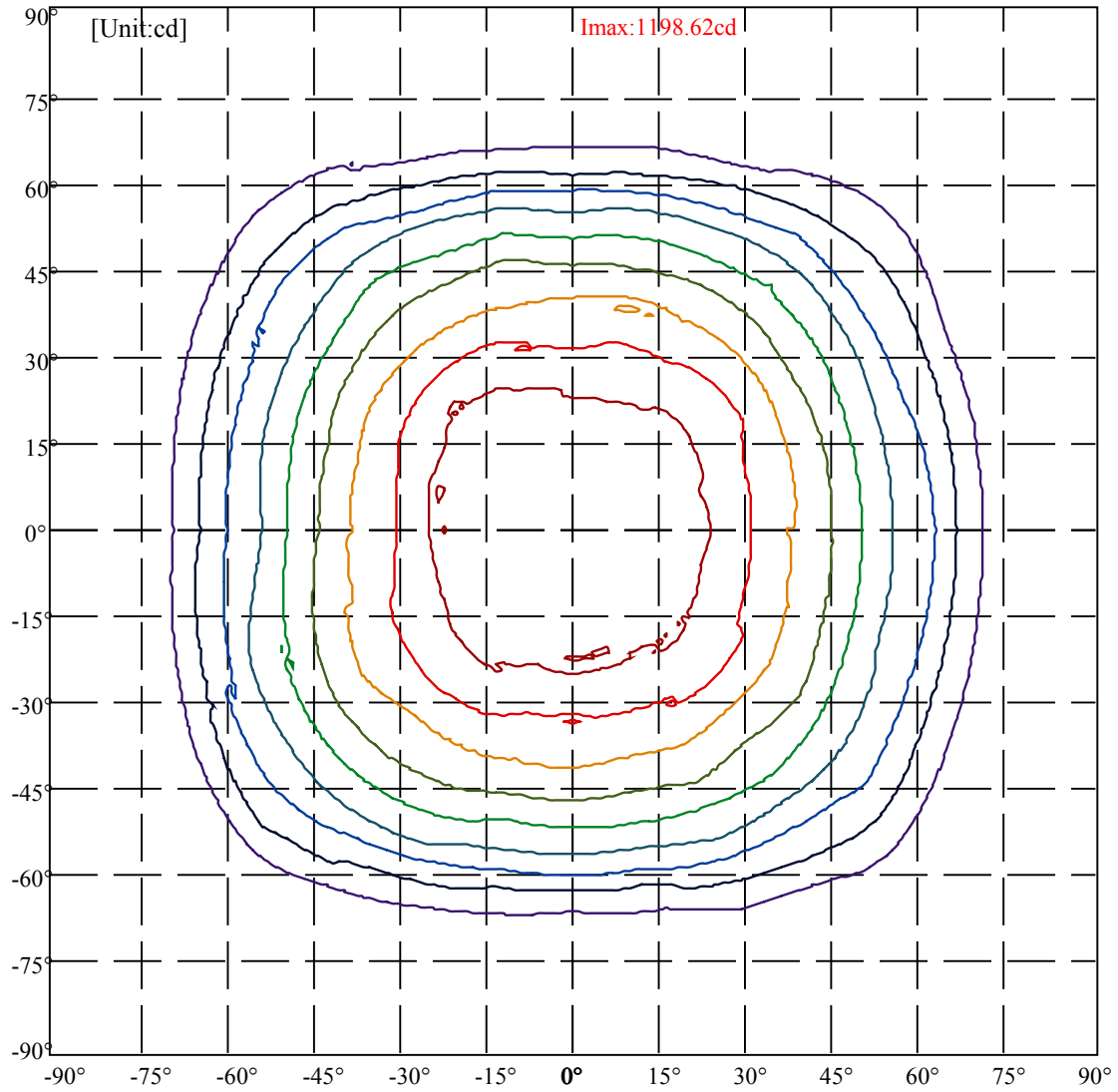
0-10	110.28
10-20	323.18
20-30	493.66
30-40	577.46
40-50	570.64
50-60	447.51
60-70	215.30
70-80	19.78
80-90	0.06
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



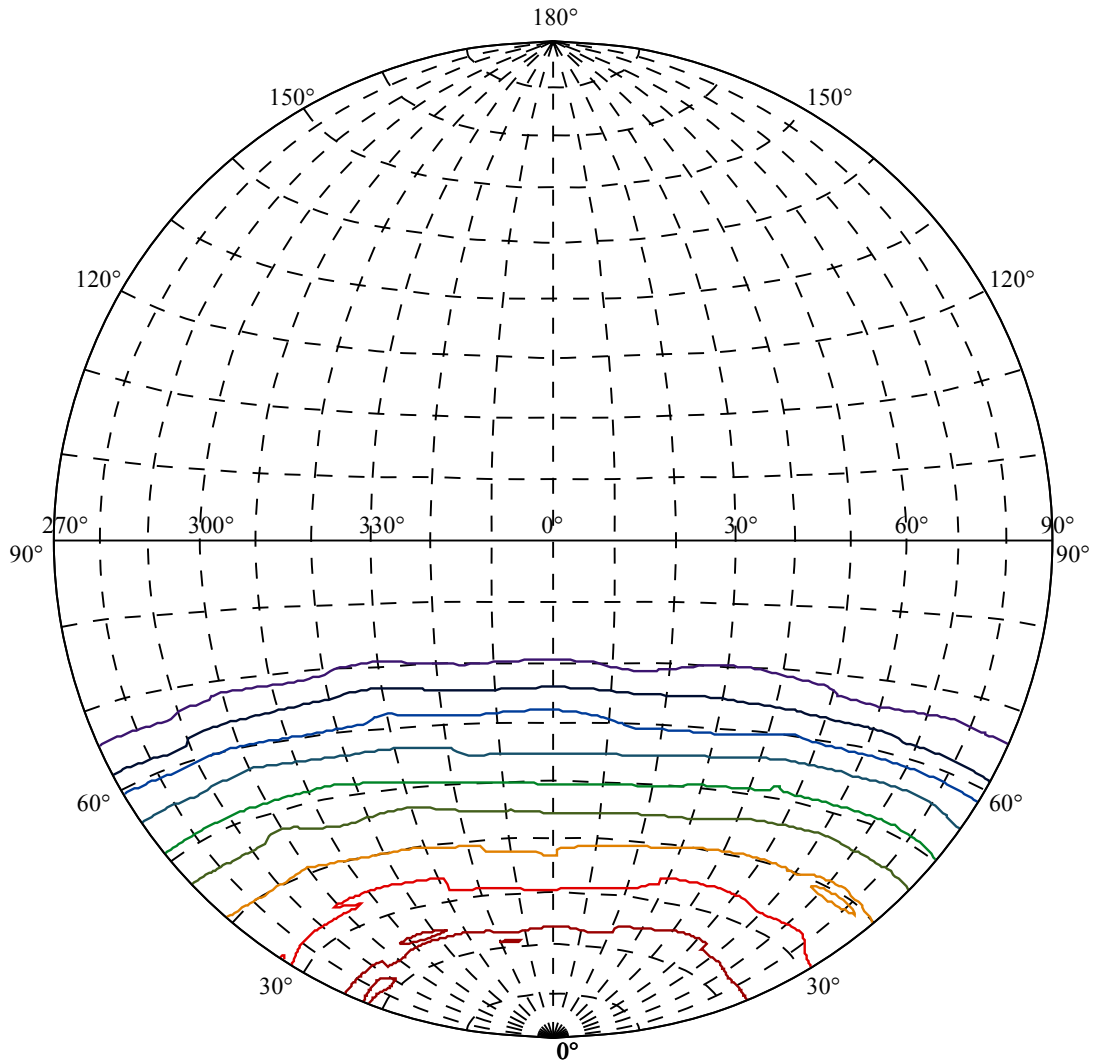
C0/C180: ————
C90/C270: ————



Beam angle of C30plane105.10



(10%Imax) 119.604	—
(20%Imax) 239.208	—
(30%Imax) 358.812	—
(40%Imax) 478.416	—
(50%Imax) 598.02	—
(60%Imax) 717.624	—
(70%Imax) 837.227	—
(80%Imax) 956.831	—
(90%Imax) 1076.44	—



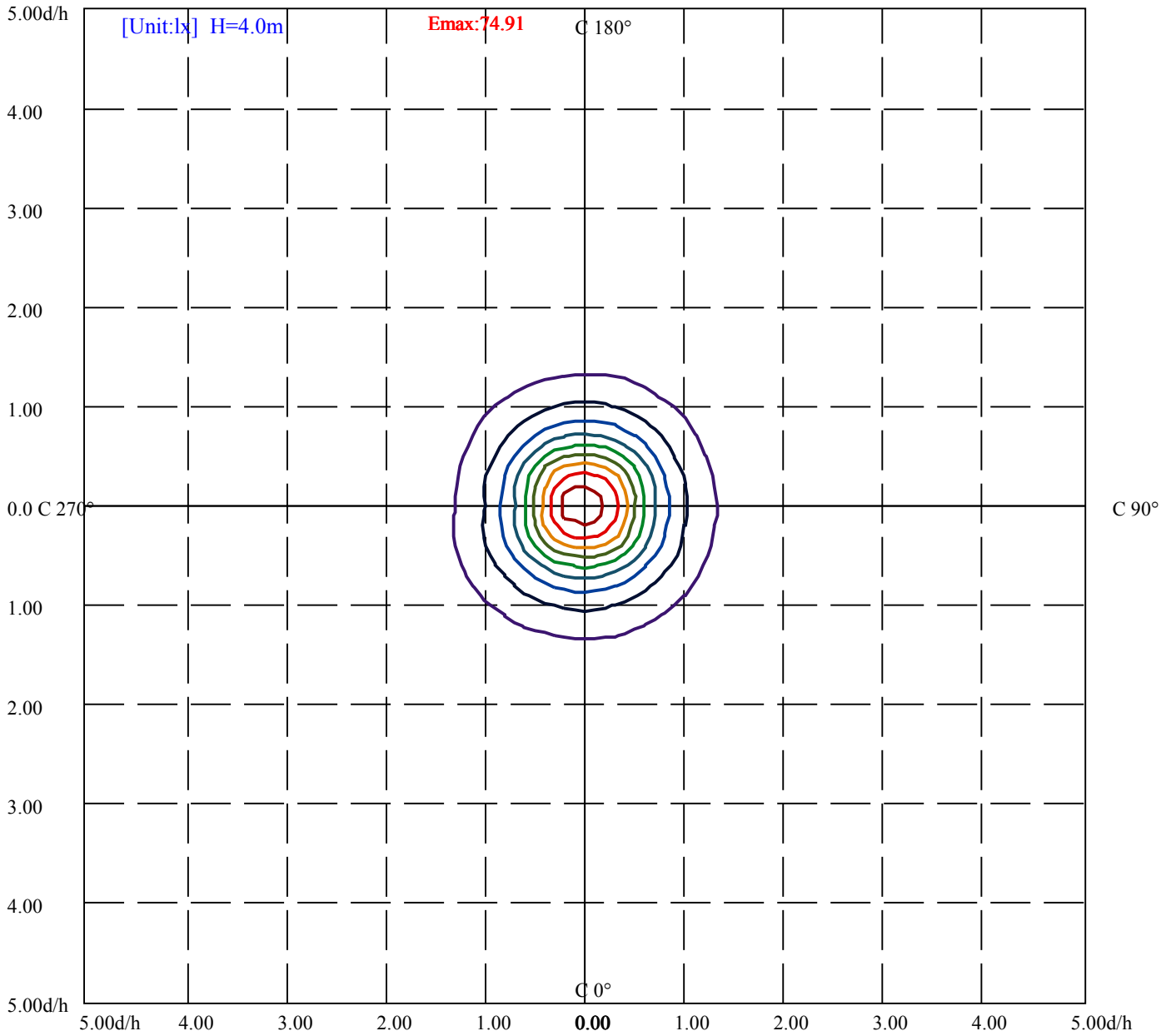
House

[Unit:cd]

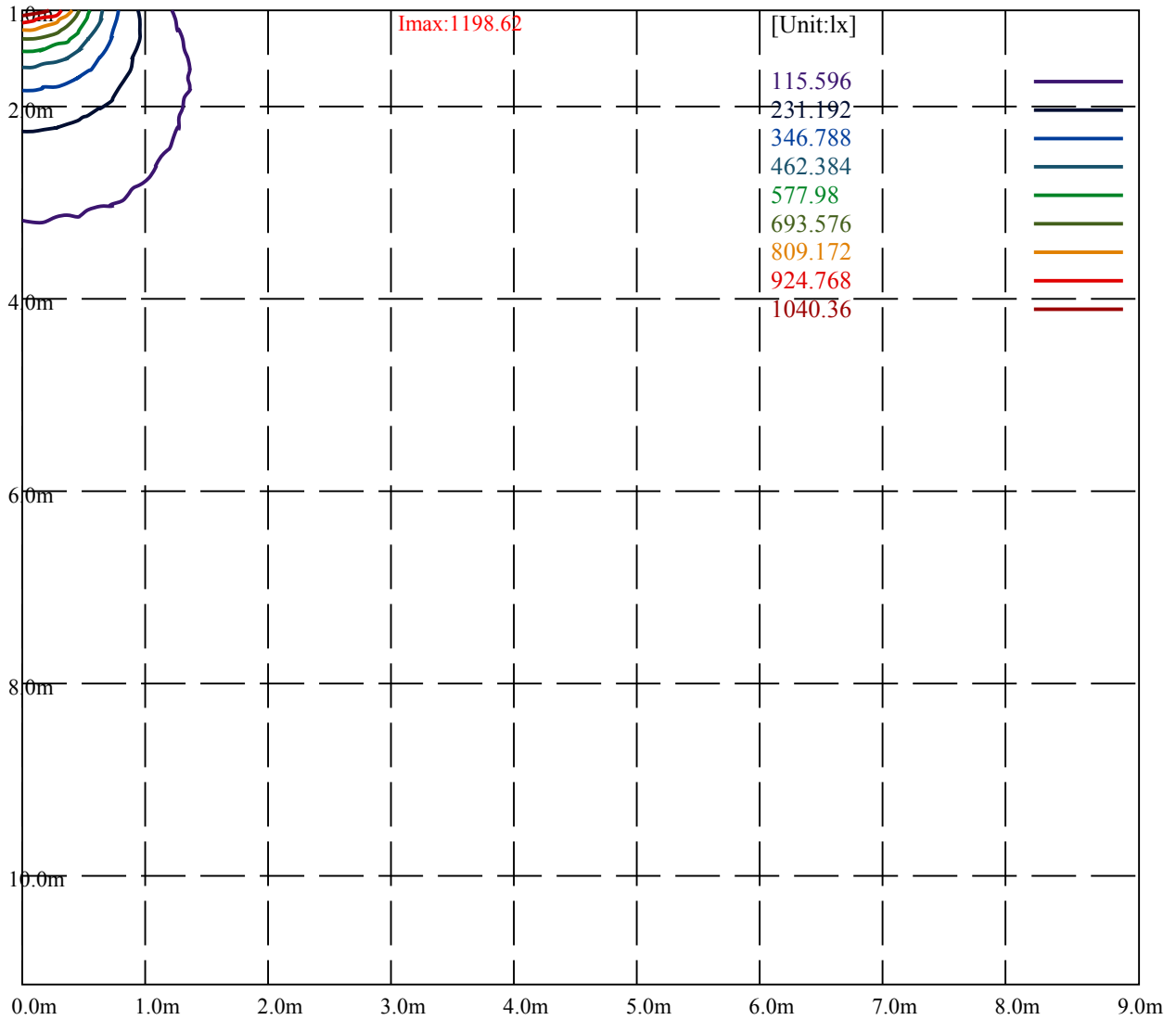
Road

I_{max}:1198.62

(10%I _{max}) 119.862	—
(20%I _{max}) 239.723	—
(30%I _{max}) 359.585	—
(40%I _{max}) 479.446	—
(50%I _{max}) 599.308	—
(60%I _{max}) 719.169	—
(70%I _{max}) 839.031	—
(80%I _{max}) 958.893	—
(90%I _{max}) 1078.75	—



(10%Emax) 7.49125	—
(20%Emax) 14.9825	—
(30%Emax) 22.47375	—
(40%Emax) 29.965	—
(50%Emax) 37.45625	—
(60%Emax) 44.9475	—
(70%Emax) 52.43875	—
(80%Emax) 59.93	—
(90%Emax) 67.42125	—



Intensity data(cd)

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C/ γ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	1155.96	1177.29	1155.96	1155.96	1177.29	1155.96	1134.63	1134.63	1155.96
15.0	1155.96	1155.96	1155.96	1155.96	1155.96	1155.96	1155.96	1134.63	1155.96
30.0	1198.62	1177.29	1155.96	1155.96	1155.96	1134.63	1177.29	1134.63	1155.96
45.0	1198.62	1155.96	1155.96	1134.63	1155.96	1155.96	1155.96	1134.63	1134.63
60.0	1155.96	1177.29	1134.63	1177.29	1177.29	1177.29	1134.63	1155.96	1134.63
75.0	1177.29	1177.29	1134.63	1134.63	1155.96	1155.96	1155.96	1155.96	1177.29
90.0	1155.96	1113.31	1134.63	1155.96	1155.96	1155.96	1134.63	1155.96	1155.96
105.0	1134.63	1155.96	1155.96	1155.96	1155.96	1155.96	1177.29	1134.63	1134.63
120.0	1155.96	1155.96	1155.96	1177.29	1155.96	1155.96	1177.29	1177.29	1134.63
135.0	1155.96	1134.63	1134.63	1155.96	1177.29	1177.29	1155.96	1177.29	1155.96
150.0	1134.63	1155.96	1155.96	1155.96	1177.29	1155.96	1155.96	1177.29	1155.96
165.0	1155.96	1155.96	1177.29	1155.96	1155.96	1177.29	1155.96	1177.29	1155.96
180.0	1155.96	1134.63	1155.96	1177.29	1155.96	1155.96	1155.96	1134.63	1155.96
195.0	1155.96	1177.29	1155.96	1177.29	1155.96	1177.29	1155.96	1177.29	1177.29
210.0	1198.62	1155.96	1155.96	1155.96	1155.96	1155.96	1155.96	1177.29	1177.29
225.0	1155.96	1155.96	1155.96	1177.29	1177.29	1155.96	1134.63	1155.96	1155.96
240.0	1155.96	1134.63	1177.29	1155.96	1155.96	1155.96	1155.96	1177.29	1155.96
255.0	1177.29	1177.29	1134.63	1155.96	1134.63	1155.96	1134.63	1177.29	1155.96
270.0	1155.96	1155.96	1177.29	1177.29	1177.29	1177.29	1134.63	1177.29	1155.96
285.0	1134.63	1155.96	1155.96	1177.29	1177.29	1155.96	1155.96	1155.96	1155.96
300.0	1155.96	1155.96	1134.63	1134.63	1155.96	1155.96	1177.29	1134.63	1134.63
315.0	1155.96	1155.96	1134.63	1155.96	1155.96	1155.96	1155.96	1155.96	1155.96
330.0	1134.63	1155.96	1177.29	1134.63	1177.29	1155.96	1155.96	1134.63	1177.29
345.0	1155.96	1155.96	1155.96	1155.96	1134.63	1134.63	1155.96	1155.96	1155.96
360.0	1155.96	1177.29	1155.96	1155.96	1177.29	1155.96	1134.63	1134.63	1155.96
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1177.29	1134.63	1134.63	1134.63	1134.63	1155.96	1155.96	1113.31	1155.96
15.0	1155.96	1134.63	1134.63	1155.96	1113.31	1155.96	1155.96	1134.63	1155.96
30.0	1155.96	1134.63	1134.63	1113.31	1155.96	1155.96	1134.63	1134.63	1134.63
45.0	1155.96	1134.63	1155.96	1113.31	1134.63	1134.63	1134.63	1134.63	1134.63
60.0	1113.31	1155.96	1155.96	1134.63	1134.63	1134.63	1134.63	1134.63	1134.63
75.0	1134.63	1134.63	1155.96	1134.63	1134.63	1134.63	1134.63	1134.63	1113.31
90.0	1134.63	1134.63	1134.63	1155.96	1134.63	1134.63	1113.31	1134.63	1134.63
105.0	1177.29	1155.96	1134.63	1177.29	1155.96	1134.63	1155.96	1155.96	1134.63
120.0	1134.63	1134.63	1155.96	1155.96	1155.96	1155.96	1134.63	1155.96	1155.96
135.0	1155.96	1155.96	1134.63	1134.63	1155.96	1134.63	1155.96	1155.96	1155.96
150.0	1155.96	1177.29	1177.29	1177.29	1177.29	1177.29	1177.29	1155.96	1155.96
165.0	1177.29	1177.29	1177.29	1177.29	1198.62	1198.62	1177.29	1155.96	1177.29
180.0	1155.96	1177.29	1177.29	1177.29	1177.29	1177.29	1155.96	1155.96	1134.63
195.0	1177.29	1177.29	1177.29	1155.96	1177.29	1198.62	1177.29	1177.29	1155.96
210.0	1134.63	1155.96	1155.96	1198.62	1177.29	1177.29	1177.29	1177.29	1177.29
225.0	1155.96	1155.96	1134.63	1155.96	1155.96	1134.63	1155.96	1134.63	1155.96
240.0	1155.96	1134.63	1155.96	1113.31	1113.31	1134.63	1134.63	1134.63	1134.63
255.0	1155.96	1155.96	1155.96	1134.63	1134.63	1134.63	1155.96	1134.63	1134.63
270.0	1134.63	1134.63	1134.63	1134.63	1134.63	1155.96	1091.98	1091.98	1134.63
285.0	1177.29	1134.63	1134.63	1134.63	1155.96	1134.63	1113.31	1134.63	1113.31
300.0	1134.63	1134.63	1134.63	1113.31	1134.63	1091.98	1134.63	1155.96	1134.63
315.0	1155.96	1134.63	1155.96	1134.63	1134.63	1134.63	1155.96	1134.63	1134.63
330.0	1155.96	1155.96	1134.63	1134.63	1134.63	1134.63	1155.96	1134.63	1134.63
345.0	1134.63	1177.29	1113.31	1134.63	1155.96	1155.96	1155.96	1155.96	1134.63
360.0	1177.29	1134.63	1134.63	1134.63	1134.63	1155.96	1155.96	1113.31	1155.96

Intensity data(cd)

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C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1134.63	1091.98	1113.31	1113.31	1091.98	1091.98	1070.65	1027.99	1006.67
15.0	1134.63	1113.31	1113.31	1113.31	1091.98	1070.65	1070.65	1070.65	1027.99
30.0	1113.31	1134.63	1113.31	1091.98	1091.98	1091.98	1091.98	1070.65	1070.65
45.0	1134.63	1113.31	1113.31	1113.31	1134.63	1113.31	1091.98	1091.98	1070.65
60.0	1134.63	1155.96	1113.31	1113.31	1091.98	1091.98	1070.65	1070.65	1070.65
75.0	1113.31	1113.31	1091.98	1091.98	1091.98	1070.65	1070.65	1070.65	1070.65
90.0	1113.31	1091.98	1113.31	1091.98	1113.31	1070.65	1070.65	1049.32	1049.32
105.0	1134.63	1134.63	1113.31	1134.63	1091.98	1091.98	1091.98	1091.98	1049.32
120.0	1113.31	1134.63	1134.63	1155.96	1134.63	1091.98	1113.31	1091.98	1091.98
135.0	1155.96	1134.63	1113.31	1134.63	1155.96	1134.63	1134.63	1113.31	1134.63
150.0	1177.29	1155.96	1134.63	1134.63	1134.63	1113.31	1091.98	1091.98	1070.65
165.0	1155.96	1155.96	1134.63	1134.63	1113.31	1070.65	1070.65	1091.98	1070.65
180.0	1134.63	1134.63	1134.63	1091.98	1070.65	1091.98	1091.98	1070.65	1027.99
195.0	1134.63	1134.63	1155.96	1113.31	1113.31	1113.31	1091.98	1049.32	1049.32
210.0	1155.96	1155.96	1113.31	1155.96	1113.31	1134.63	1134.63	1070.65	1070.65
225.0	1155.96	1155.96	1155.96	1134.63	1091.98	1134.63	1113.31	1134.63	1091.98
240.0	1134.63	1113.31	1113.31	1113.31	1091.98	1091.98	1091.98	1091.98	1070.65
255.0	1113.31	1113.31	1113.31	1070.65	1091.98	1091.98	1070.65	1070.65	1049.32
270.0	1134.63	1091.98	1113.31	1091.98	1070.65	1091.98	1091.98	1070.65	1027.99
285.0	1134.63	1113.31	1091.98	1070.65	1070.65	1091.98	1091.98	1049.32	1049.32
300.0	1091.98	1113.31	1113.31	1091.98	1113.31	1070.65	1070.65	1070.65	1070.65
315.0	1155.96	1113.31	1113.31	1091.98	1113.31	1113.31	1070.65	1091.98	1070.65
330.0	1113.31	1113.31	1113.31	1091.98	1091.98	1113.31	1070.65	1070.65	1049.32
345.0	1134.63	1091.98	1113.31	1070.65	1091.98	1070.65	1049.32	1049.32	1006.67
360.0	1134.63	1091.98	1113.31	1113.31	1091.98	1091.98	1070.65	1027.99	1006.67
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1006.67	1006.67	985.34	985.34	942.68	942.68	921.36	878.70	878.70
15.0	1049.32	1006.67	1006.67	985.34	964.01	921.36	921.36	921.36	900.03
30.0	1049.32	1006.67	1027.99	985.34	985.34	985.34	964.01	964.01	942.68
45.0	1070.65	1070.65	1027.99	1049.32	1027.99	985.34	1006.67	964.01	942.68
60.0	1049.32	1027.99	1027.99	1027.99	1006.67	985.34	942.68	942.68	900.03
75.0	1027.99	1027.99	1027.99	1006.67	985.34	985.34	964.01	921.36	900.03
90.0	1049.32	1027.99	985.34	985.34	964.01	921.36	921.36	900.03	900.03
105.0	1049.32	1049.32	985.34	1027.99	1006.67	942.68	964.01	942.68	942.68
120.0	1091.98	1049.32	1027.99	1027.99	1006.67	985.34	964.01	985.34	942.68
135.0	1113.31	1070.65	1091.98	1070.65	1027.99	1049.32	1006.67	985.34	942.68
150.0	1049.32	1070.65	1049.32	1027.99	1006.67	985.34	985.34	942.68	942.68
165.0	1049.32	1027.99	1027.99	985.34	964.01	942.68	921.36	942.68	900.03
180.0	1027.99	1027.99	985.34	964.01	921.36	921.36	878.70	878.70	857.37
195.0	1027.99	1027.99	1006.67	985.34	985.34	942.68	942.68	942.68	942.68
210.0	1070.65	1070.65	1049.32	1049.32	1027.99	1049.32	1006.67	964.01	942.68
225.0	1070.65	1070.65	1070.65	1049.32	1006.67	1006.67	985.34	964.01	964.01
240.0	1091.98	1049.32	1049.32	1027.99	1027.99	985.34	1006.67	985.34	942.68
255.0	1006.67	1006.67	1006.67	985.34	964.01	964.01	942.68	921.36	921.36
270.0	1049.32	1027.99	1006.67	1027.99	985.34	942.68	964.01	900.03	921.36
285.0	1027.99	985.34	985.34	964.01	964.01	985.34	921.36	921.36	900.03
300.0	1070.65	1027.99	1027.99	1006.67	985.34	985.34	942.68	964.01	942.68
315.0	1070.65	1027.99	1070.65	1027.99	1006.67	964.01	985.34	985.34	942.68
330.0	1070.65	1027.99	1006.67	1006.67	985.34	964.01	964.01	964.01	921.36
345.0	1027.99	964.01	985.34	964.01	964.01	921.36	921.36	900.03	878.70
360.0	1006.67	1006.67	985.34	985.34	942.68	942.68	921.36	878.70	878.70

Intensity data(cd)

C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	857.37	836.05	836.05	814.72	836.05	793.39	772.06	772.06	729.41
15.0	900.03	878.70	878.70	836.05	793.39	793.39	750.73	750.73	750.73
30.0	921.36	900.03	857.37	857.37	836.05	814.72	793.39	772.06	772.06
45.0	921.36	900.03	900.03	857.37	857.37	814.72	814.72	793.39	750.73
60.0	900.03	878.70	878.70	857.37	836.05	836.05	772.06	772.06	750.73
75.0	900.03	878.70	857.37	814.72	857.37	836.05	836.05	793.39	793.39
90.0	878.70	857.37	857.37	857.37	836.05	814.72	772.06	793.39	772.06
105.0	900.03	878.70	878.70	836.05	836.05	814.72	814.72	793.39	814.72
120.0	942.68	921.36	900.03	878.70	836.05	814.72	793.39	793.39	750.73
135.0	942.68	900.03	900.03	878.70	836.05	836.05	793.39	772.06	750.73
150.0	921.36	921.36	900.03	878.70	836.05	814.72	793.39	772.06	750.73
165.0	900.03	857.37	857.37	814.72	814.72	793.39	772.06	772.06	708.08
180.0	857.37	857.37	836.05	836.05	793.39	750.73	750.73	729.41	708.08
195.0	900.03	900.03	878.70	836.05	836.05	836.05	814.72	793.39	793.39
210.0	942.68	921.36	942.68	900.03	878.70	857.37	857.37	836.05	814.72
225.0	921.36	921.36	921.36	878.70	857.37	836.05	814.72	793.39	793.39
240.0	921.36	900.03	878.70	836.05	878.70	836.05	836.05	814.72	793.39
255.0	921.36	878.70	857.37	857.37	836.05	836.05	814.72	793.39	772.06
270.0	900.03	900.03	900.03	857.37	857.37	836.05	814.72	793.39	793.39
285.0	900.03	857.37	878.70	857.37	836.05	793.39	793.39	793.39	772.06
300.0	921.36	921.36	878.70	857.37	857.37	836.05	814.72	793.39	793.39
315.0	921.36	921.36	900.03	857.37	836.05	793.39	814.72	772.06	793.39
330.0	900.03	900.03	878.70	857.37	836.05	836.05	814.72	793.39	793.39
345.0	878.70	857.37	836.05	836.05	793.39	793.39	793.39	750.73	729.41
360.0	857.37	836.05	836.05	814.72	836.05	793.39	772.06	772.06	729.41
C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	708.08	686.75	665.42	665.42	622.77	580.11	580.11	558.79	558.79
15.0	708.08	708.08	686.75	644.10	665.42	558.79	558.79	558.79	516.13
30.0	708.08	686.75	686.75	665.42	644.10	622.77	580.11	537.46	537.46
45.0	750.73	729.41	686.75	665.42	644.10	644.10	601.44	601.44	558.79
60.0	729.41	729.41	708.08	686.75	644.10	622.77	601.44	558.79	558.79
75.0	772.06	708.08	708.08	665.42	665.42	644.10	601.44	580.11	558.79
90.0	729.41	708.08	686.75	686.75	622.77	601.44	580.11	558.79	537.46
105.0	750.73	729.41	729.41	708.08	665.42	622.77	601.44	601.44	537.46
120.0	729.41	729.41	708.08	686.75	644.10	644.10	601.44	580.11	558.79
135.0	750.73	750.73	708.08	665.42	665.42	622.77	644.10	622.77	580.11
150.0	729.41	708.08	665.42	686.75	644.10	622.77	580.11	537.46	537.46
165.0	708.08	708.08	665.42	644.10	622.77	601.44	558.79	558.79	516.13
180.0	665.42	665.42	644.10	601.44	601.44	558.79	516.13	537.46	494.80
195.0	750.73	729.41	708.08	686.75	686.75	644.10	622.77	580.11	601.44
210.0	793.39	772.06	772.06	729.41	708.08	686.75	665.42	622.77	622.77
225.0	793.39	750.73	729.41	729.41	708.08	665.42	665.42	622.77	622.77
240.0	793.39	750.73	750.73	708.08	686.75	708.08	644.10	622.77	601.44
255.0	750.73	729.41	686.75	708.08	644.10	622.77	580.11	580.11	558.79
270.0	772.06	729.41	708.08	686.75	665.42	644.10	601.44	580.11	558.79
285.0	750.73	708.08	686.75	686.75	665.42	622.77	601.44	580.11	580.11
300.0	750.73	729.41	729.41	686.75	665.42	644.10	622.77	580.11	558.79
315.0	729.41	708.08	686.75	644.10	644.10	644.10	622.77	601.44	580.11
330.0	772.06	750.73	708.08	708.08	686.75	644.10	601.44	580.11	558.79
345.0	729.41	665.42	665.42	622.77	622.77	601.44	558.79	580.11	516.13
360.0	708.08	686.75	665.42	665.42	622.77	580.11	580.11	558.79	558.79

Intensity data(cd)

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	516.13	473.47	473.47	473.47	452.15	409.49	430.82	409.49	366.84
15.0	494.80	473.47	452.15	430.82	409.49	366.84	345.51	324.18	302.85
30.0	494.80	494.80	452.15	409.49	388.16	366.84	324.18	324.18	281.53
45.0	558.79	537.46	494.80	430.82	409.49	388.16	366.84	345.51	324.18
60.0	494.80	494.80	473.47	430.82	409.49	366.84	281.53	281.53	260.20
75.0	558.79	537.46	473.47	388.16	388.16	345.51	324.18	302.85	217.54
90.0	516.13	452.15	430.82	388.16	366.84	345.51	281.53	238.87	196.21
105.0	537.46	516.13	494.80	409.49	366.84	366.84	324.18	302.85	238.87
120.0	537.46	516.13	494.80	473.47	430.82	345.51	302.85	281.53	281.53
135.0	580.11	537.46	494.80	473.47	473.47	430.82	388.16	366.84	345.51
150.0	516.13	494.80	452.15	473.47	430.82	388.16	366.84	388.16	345.51
165.0	516.13	473.47	430.82	409.49	430.82	409.49	345.51	345.51	302.85
180.0	452.15	452.15	430.82	388.16	388.16	366.84	345.51	324.18	302.85
195.0	558.79	516.13	516.13	516.13	494.80	452.15	409.49	388.16	345.51
210.0	580.11	537.46	537.46	516.13	494.80	430.82	473.47	430.82	409.49
225.0	580.11	558.79	537.46	516.13	494.80	430.82	409.49	366.84	345.51
240.0	558.79	537.46	516.13	494.80	473.47	430.82	366.84	345.51	324.18
255.0	537.46	537.46	452.15	409.49	388.16	366.84	324.18	281.53	238.87
270.0	558.79	516.13	452.15	430.82	409.49	366.84	345.51	302.85	238.87
285.0	537.46	494.80	452.15	388.16	366.84	366.84	324.18	281.53	217.54
300.0	537.46	537.46	516.13	473.47	452.15	430.82	388.16	281.53	302.85
315.0	537.46	494.80	494.80	452.15	430.82	409.49	366.84	345.51	324.18
330.0	537.46	516.13	494.80	473.47	430.82	430.82	388.16	366.84	366.84
345.0	494.80	473.47	473.47	452.15	430.82	409.49	366.84	366.84	345.51
360.0	516.13	473.47	473.47	473.47	452.15	409.49	430.82	409.49	366.84
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	345.51	324.18	302.85	238.87	196.21	217.54	153.56	153.56	89.58
15.0	260.20	260.20	238.87	196.21	196.21	153.56	110.90	89.58	68.25
30.0	260.20	260.20	238.87	217.54	196.21	174.89	153.56	132.23	68.25
45.0	260.20	238.87	196.21	174.89	153.56	132.23	110.90	89.58	68.25
60.0	238.87	174.89	174.89	132.23	68.25	89.58	89.58	46.92	46.92
75.0	217.54	196.21	153.56	132.23	110.90	89.58	46.92	46.92	25.59
90.0	217.54	174.89	153.56	110.90	68.25	89.58	25.59	25.59	4.27
105.0	217.54	217.54	153.56	110.90	110.90	68.25	68.25	46.92	4.27
120.0	217.54	196.21	174.89	174.89	89.58	68.25	89.58	25.59	25.59
135.0	324.18	238.87	238.87	196.21	217.54	132.23	132.23	110.90	68.25
150.0	302.85	281.53	238.87	238.87	217.54	174.89	132.23	132.23	89.58
165.0	281.53	281.53	217.54	217.54	196.21	174.89	153.56	89.58	89.58
180.0	281.53	238.87	217.54	196.21	153.56	132.23	110.90	89.58	46.92
195.0	366.84	345.51	324.18	238.87	238.87	174.89	174.89	132.23	89.58
210.0	366.84	345.51	345.51	302.85	260.20	238.87	196.21	153.56	110.90
225.0	324.18	260.20	238.87	238.87	153.56	153.56	110.90	89.58	68.25
240.0	302.85	217.54	196.21	174.89	132.23	110.90	89.58	46.92	25.59
255.0	217.54	196.21	132.23	132.23	110.90	68.25	25.59	25.59	4.27
270.0	238.87	196.21	132.23	110.90	110.90	68.25	46.92	25.59	25.59
285.0	217.54	196.21	174.89	110.90	110.90	46.92	68.25	46.92	0.00
300.0	281.53	238.87	174.89	153.56	132.23	132.23	89.58	68.25	46.92
315.0	302.85	281.53	238.87	196.21	196.21	132.23	110.90	89.58	89.58
330.0	345.51	302.85	281.53	281.53	217.54	217.54	153.56	153.56	110.90
345.0	302.85	281.53	281.53	196.21	196.21	174.89	153.56	110.90	68.25
360.0	345.51	324.18	302.85	238.87	196.21	217.54	153.56	153.56	89.58

Intensity data(cd)

C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	89.58	46.92	46.92	4.27	4.27	4.27	25.59	0.00	0.00
15.0	68.25	46.92	46.92	4.27	4.27	4.27	4.27	0.00	0.00
30.0	68.25	46.92	0.00	4.27	4.27	0.00	0.00	0.00	0.00
45.0	46.92	25.59	25.59	0.00	0.00	4.27	4.27	0.00	0.00
60.0	25.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	4.27	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	4.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	4.27	4.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	68.25	46.92	25.59	0.00	4.27	0.00	0.00	0.00	0.00
150.0	46.92	46.92	25.59	25.59	4.27	4.27	4.27	0.00	0.00
165.0	46.92	25.59	46.92	46.92	25.59	4.27	4.27	0.00	0.00
180.0	46.92	25.59	25.59	4.27	0.00	4.27	0.00	0.00	0.00
195.0	68.25	68.25	25.59	0.00	0.00	0.00	0.00	0.00	0.00
210.0	89.58	46.92	25.59	25.59	4.27	0.00	4.27	0.00	0.00
225.0	46.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	46.92	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	4.27	25.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	46.92	25.59	4.27	0.00	0.00	0.00	0.00	0.00	0.00
330.0	89.58	46.92	46.92	25.59	4.27	0.00	0.00	0.00	0.00
345.0	46.92	46.92	25.59	25.59	4.27	4.27	0.00	0.00	0.00
360.0	89.58	46.92	46.92	4.27	4.27	4.27	25.59	0.00	0.00
C/ γ (°)	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
15.0	0.00	4.27	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	4.27	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	4.27	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)

C/ γ ($^{\circ}$)	90.0
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