

Report No	:	Voltage	:	V
Test No	:	Current	:	A
LumCAT	:	Power	:	32.000 W
Luminaire	:		:	
LampCAT	:	Ballast type	:	
Lamp flux	:	Width	:	60 mm
Number of Lamps	:	Length	:	1164 mm
Phm Type	:	Height	:	26 mm

Photometric Results

Lumens(lm)	:	4480.00	Central intensity(cd)	:	1189.916
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	1190.738
Luminous Efficacy(lm/W)	:	140.00	Angle of maximum intensity	:	C=30.0 γ =1.0
Beam Angle(50%Imax)	:	[C0/180]Total=135.2 [C90/270]Total=109.8			
Field angle(10%Imax)	:	[C0/180]Total=257.0 [C90/270]Total=158.8			
Maximum s/h(1/2)	:	C0_180=1.33 C90_270=1.24			
Maximum s/h(1/4)	:	C0_180=1.47 C90_270=1.36			
Up flux rate of lamp(%)	:	11.55%			
Down flux rate of lamp(%)	:	88.45%			
Up flux rate of LUM(%)	:	11.55%			
Down flux rate of LUM(%)	:	88.45%			
CIE Type	:	Semidirect lighting			
Output flux ratio in π solid angle :	:	62.809%			

Zonal flux distribution table

Appendix Page: 2 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1189.916	0.000	0	0.00%	0.00%
0.5	1189.916	0.285	0.285	0.01%	0.01%
1.0	1189.329	0.854	1.138	0.02%	0.03%
1.5	1189.173	1.423	2.561	0.03%	0.06%
2.0	1188.644	1.991	4.552	0.04%	0.10%
2.5	1188.351	2.558	7.11	0.06%	0.16%
3.0	1187.549	3.125	10.235	0.07%	0.23%
3.5	1187.059	3.691	13.926	0.08%	0.31%
4.0	1186.160	4.255	18.181	0.09%	0.41%
4.5	1185.768	4.819	23	0.11%	0.51%
5.0	1184.810	5.382	28.382	0.12%	0.63%
5.5	1183.459	5.941	34.323	0.13%	0.77%
6.0	1182.657	6.499	40.822	0.15%	0.91%
6.5	1181.248	7.055	47.878	0.16%	1.07%
7.0	1180.192	7.609	55.487	0.17%	1.24%
7.5	1178.255	8.160	63.647	0.18%	1.42%
8.0	1177.413	8.709	72.356	0.19%	1.62%
8.5	1175.437	9.256	81.612	0.21%	1.82%
9.0	1174.185	9.799	91.411	0.22%	2.04%
9.5	1171.994	10.339	101.75	0.23%	2.27%
10.0	1170.722	10.877	112.627	0.24%	2.51%
10.5	1168.707	11.413	124.039	0.25%	2.77%
11.0	1166.202	11.940	135.979	0.27%	3.04%
11.5	1164.930	12.468	148.447	0.28%	3.31%
12.0	1162.054	12.991	161.439	0.29%	3.60%
12.5	1160.372	13.509	174.948	0.30%	3.91%
13.0	1157.495	14.024	188.973	0.31%	4.22%
13.5	1155.695	14.535	203.508	0.32%	4.54%
14.0	1152.291	15.039	218.547	0.34%	4.88%
14.5	1150.726	15.542	234.089	0.35%	5.23%
15.0	1147.497	16.042	250.131	0.36%	5.58%
15.5	1145.032	16.532	266.662	0.37%	5.95%
16.0	1142.371	17.022	283.684	0.38%	6.33%
16.5	1139.417	17.505	301.19	0.39%	6.72%
17.0	1136.521	17.982	319.172	0.40%	7.12%
17.5	1132.158	18.444	337.616	0.41%	7.54%
18.0	1130.221	18.909	356.525	0.42%	7.96%
18.5	1125.896	19.370	375.895	0.43%	8.39%

Equipment: GMS-1800
Temperature($^{\circ}\text{C}$): 25.0

Date: 2024/07/22
Humidity(%): 55.3%

Operator: CWR

Zonal flux distribution table

Appendix Page: 3 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
19.0	1123.783	19.825	395.72	0.44%	8.83%
19.5	1119.127	20.273	415.993	0.45%	9.29%
20.0	1116.955	20.715	436.708	0.46%	9.75%
20.5	1112.533	21.156	457.864	0.47%	10.22%
21.0	1108.483	21.573	479.436	0.48%	10.70%
21.5	1105.666	22.001	501.437	0.49%	11.19%
22.0	1100.930	22.417	523.854	0.50%	11.69%
22.5	1097.957	22.826	546.68	0.51%	12.20%
23.0	1092.302	23.221	569.901	0.52%	12.72%
23.5	1089.817	23.615	593.516	0.53%	13.25%
24.0	1084.358	24.006	617.522	0.54%	13.78%
24.5	1080.484	24.376	641.899	0.54%	14.33%
25.0	1075.553	24.746	666.645	0.55%	14.88%
25.5	1072.286	25.118	691.763	0.56%	15.44%
26.0	1067.316	25.484	717.247	0.57%	16.01%
26.5	1061.701	25.816	743.062	0.58%	16.59%
27.0	1058.943	26.168	769.23	0.58%	17.17%
27.5	1052.329	26.502	795.733	0.59%	17.76%
28.0	1048.670	26.819	822.552	0.60%	18.36%
28.5	1042.624	27.137	849.689	0.61%	18.97%
29.0	1038.946	27.449	877.138	0.61%	19.58%
29.5	1032.079	27.743	904.881	0.62%	20.20%
30.0	1028.928	28.038	932.919	0.63%	20.82%
30.5	1022.550	28.333	961.253	0.63%	21.46%
31.0	1016.739	28.585	989.838	0.64%	22.09%
31.5	1012.845	28.866	1018.704	0.64%	22.74%
32.0	1006.330	29.129	1047.833	0.65%	23.39%
32.5	1002.143	29.383	1077.216	0.66%	24.04%
33.0	994.414	29.611	1106.827	0.66%	24.71%
33.5	991.049	29.845	1136.672	0.67%	25.37%
34.0	983.359	30.073	1166.744	0.67%	26.04%
34.5	979.857	30.292	1197.036	0.68%	26.72%
35.0	971.855	30.499	1227.535	0.68%	27.40%
35.5	967.531	30.686	1258.221	0.68%	28.09%
36.0	960.937	30.889	1289.11	0.69%	28.77%
36.5	954.382	31.049	1320.159	0.69%	29.47%
37.0	949.941	31.237	1351.397	0.70%	30.17%
37.5	942.408	31.402	1382.799	0.70%	30.87%

Zonal flux distribution table

Appendix Page: 4 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	937.692	31.556	1414.355	0.70%	31.57%
38.5	929.240	31.687	1446.042	0.71%	32.28%
39.0	925.425	31.826	1477.868	0.71%	32.99%
39.5	916.659	31.953	1509.821	0.71%	33.70%
40.0	911.748	32.053	1541.874	0.72%	34.42%
40.5	903.824	32.161	1574.035	0.72%	35.13%
41.0	898.972	32.262	1606.297	0.72%	35.85%
41.5	891.772	32.370	1638.667	0.72%	36.58%
42.0	883.711	32.412	1671.079	0.72%	37.30%
42.5	879.641	32.504	1703.583	0.73%	38.03%
43.0	870.230	32.564	1736.148	0.73%	38.75%
43.5	865.221	32.600	1768.748	0.73%	39.48%
44.0	856.886	32.648	1801.396	0.73%	40.21%
44.5	851.701	32.686	1834.081	0.73%	40.94%
45.0	841.957	32.689	1866.771	0.73%	41.67%
45.5	837.751	32.704	1899.475	0.73%	42.40%
46.0	829.102	32.733	1932.208	0.73%	43.13%
46.5	821.315	32.685	1964.893	0.73%	43.86%
47.0	814.898	32.673	1997.566	0.73%	44.59%
47.5	806.289	32.637	2030.203	0.73%	45.32%
48.0	801.750	32.633	2062.836	0.73%	46.05%
48.5	791.595	32.589	2095.425	0.73%	46.77%
49.0	787.192	32.542	2127.967	0.73%	47.50%
49.5	777.155	32.490	2160.457	0.73%	48.22%
50.0	771.422	32.403	2192.86	0.72%	48.95%
50.5	762.324	32.329	2225.189	0.72%	49.67%
51.0	756.748	32.250	2257.439	0.72%	50.39%
51.5	748.432	32.182	2289.621	0.72%	51.11%
52.0	740.137	32.049	2321.67	0.72%	51.82%
52.5	734.521	31.966	2353.636	0.71%	52.54%
53.0	725.071	31.852	2385.489	0.71%	53.25%
53.5	719.123	31.724	2417.213	0.71%	53.96%
54.0	710.847	31.615	2448.828	0.71%	54.66%
54.5	703.314	31.465	2480.293	0.70%	55.36%
55.0	693.590	31.275	2511.567	0.70%	56.06%
55.5	686.585	31.090	2542.657	0.69%	56.76%
56.0	677.898	30.921	2573.578	0.69%	57.45%
56.5	672.008	30.771	2604.349	0.69%	58.13%

Zonal flux distribution table

Appendix Page: 5 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
57.0	662.186	30.589	2634.939	0.68%	58.82%
57.5	653.440	30.335	2665.274	0.68%	59.49%
58.0	647.532	30.164	2695.438	0.67%	60.17%
58.5	637.338	29.954	2725.392	0.67%	60.83%
59.0	630.235	29.709	2755.101	0.66%	61.50%
59.5	621.255	29.486	2784.587	0.66%	62.16%
60.0	614.074	29.256	2813.843	0.65%	62.81%
60.5	603.801	28.988	2842.831	0.65%	63.46%
61.0	597.756	28.741	2871.572	0.64%	64.10%
61.5	587.523	28.489	2900.061	0.64%	64.73%
62.0	579.501	28.184	2928.245	0.63%	65.36%
62.5	572.320	27.946	2956.191	0.62%	65.99%
63.0	562.009	27.647	2983.838	0.62%	66.60%
63.5	555.768	27.365	3011.203	0.61%	67.21%
64.0	545.300	27.073	3038.276	0.60%	67.82%
64.5	539.117	26.778	3065.053	0.60%	68.42%
65.0	528.865	26.482	3091.535	0.59%	69.01%
65.5	521.273	26.145	3117.681	0.58%	69.59%
66.0	511.960	25.827	3143.508	0.58%	70.17%
66.5	505.718	25.537	3169.045	0.57%	70.74%
67.0	495.290	25.214	3194.26	0.56%	71.30%
67.5	487.131	24.838	3219.098	0.55%	71.85%
68.0	479.793	24.535	3243.633	0.55%	72.40%
68.5	469.091	24.162	3267.795	0.54%	72.94%
69.0	462.869	23.813	3291.608	0.53%	73.47%
69.5	452.402	23.465	3315.073	0.52%	74.00%
70.0	446.258	23.114	3338.187	0.52%	74.51%
70.5	435.751	22.758	3360.945	0.51%	75.02%
71.0	428.179	22.361	3383.306	0.50%	75.52%
71.5	417.789	21.962	3405.268	0.49%	76.01%
72.0	412.781	21.625	3426.893	0.48%	76.49%
72.5	402.469	21.286	3448.179	0.48%	76.97%
73.0	393.234	20.833	3469.013	0.47%	77.43%
73.5	387.169	20.487	3489.5	0.46%	77.89%
74.0	376.838	20.109	3509.609	0.45%	78.34%
74.5	369.638	19.697	3529.306	0.44%	78.78%
75.0	360.696	19.317	3548.623	0.43%	79.21%
75.5	353.672	18.939	3567.562	0.42%	79.63%

Zonal flux distribution table

Appendix Page: 6 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	343.537	18.526	3586.089	0.41%	80.05%
76.5	337.707	18.141	3604.23	0.40%	80.45%
77.0	327.982	17.764	3621.994	0.40%	80.85%
77.5	320.489	17.340	3639.334	0.39%	81.24%
78.0	313.758	16.992	3656.326	0.38%	81.61%
78.5	305.403	16.619	3672.945	0.37%	81.99%
79.0	298.751	16.245	3689.19	0.36%	82.35%
79.5	289.242	15.837	3705.027	0.35%	82.70%
80.0	284.820	15.487	3720.514	0.35%	83.05%
80.5	274.979	15.125	3735.64	0.34%	83.38%
81.0	269.597	14.736	3750.375	0.33%	83.71%
81.5	261.360	14.387	3764.763	0.32%	84.03%
82.0	257.154	14.068	3778.831	0.31%	84.35%
82.5	248.231	13.729	3792.56	0.31%	84.66%
83.0	241.991	13.332	3805.892	0.30%	84.95%
83.5	236.649	13.031	3818.923	0.29%	85.24%
84.0	230.055	12.719	3831.642	0.28%	85.53%
84.5	224.772	12.407	3844.048	0.28%	85.80%
85.0	217.964	12.087	3856.135	0.27%	86.07%
85.5	213.679	11.793	3867.928	0.26%	86.34%
86.0	207.202	11.507	3879.435	0.26%	86.59%
86.5	203.133	11.225	3890.661	0.25%	86.85%
87.0	196.657	10.943	3901.603	0.24%	87.09%
87.5	193.487	10.684	3912.287	0.24%	87.33%
88.0	188.439	10.463	3922.75	0.23%	87.56%
88.5	184.780	10.227	3932.977	0.23%	87.79%
89.0	180.319	10.007	3942.984	0.22%	88.01%
89.5	177.306	9.804	3952.787	0.22%	88.23%
90.0	173.549	9.619	3962.406	0.21%	88.45%
90.5	169.753	9.412	3971.818	0.21%	88.66%
91.0	166.798	9.226	3981.044	0.21%	88.86%
91.5	162.866	9.036	3990.08	0.20%	89.06%
92.0	160.694	8.866	3998.946	0.20%	89.26%
92.5	157.114	8.706	4007.652	0.19%	89.46%
93.0	155.705	8.566	4016.218	0.19%	89.65%
93.5	152.398	8.433	4024.651	0.19%	89.84%
94.0	150.520	8.287	4032.938	0.18%	90.02%
94.5	147.664	8.152	4041.091	0.18%	90.20%

Zonal flux distribution table

Appendix Page: 7 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
95.0	145.590	8.012	4049.103	0.18%	90.38%
95.5	143.966	7.905	4057.008	0.18%	90.56%
96.0	140.346	7.755	4064.763	0.17%	90.73%
96.5	139.211	7.619	4072.382	0.17%	90.90%
97.0	137.118	7.523	4079.905	0.17%	91.07%
97.5	135.768	7.421	4087.326	0.17%	91.23%
98.0	133.381	7.311	4094.638	0.16%	91.40%
98.5	132.148	7.204	4101.842	0.16%	91.56%
99.0	130.309	7.112	4108.954	0.16%	91.72%
99.5	128.724	7.009	4115.963	0.16%	91.87%
100.0	127.296	6.918	4122.88	0.15%	92.03%
100.5	125.672	6.825	4129.705	0.15%	92.18%
101.0	124.282	6.732	4136.437	0.15%	92.33%
101.5	122.521	6.636	4143.073	0.15%	92.48%
102.0	121.543	6.551	4149.624	0.15%	92.63%
102.5	119.645	6.462	4156.086	0.14%	92.77%
103.0	119.039	6.382	4162.468	0.14%	92.91%
103.5	117.297	6.307	4168.775	0.14%	93.05%
104.0	116.417	6.224	4174.999	0.14%	93.19%
104.5	114.891	6.146	4181.145	0.14%	93.33%
105.0	113.775	6.062	4187.208	0.14%	93.46%
105.5	112.660	5.989	4193.197	0.13%	93.60%
106.0	111.388	5.912	4199.109	0.13%	93.73%
106.5	110.293	5.835	4204.943	0.13%	93.86%
107.0	108.845	5.753	4210.696	0.13%	93.99%
107.5	108.043	5.679	4216.375	0.13%	94.12%
108.0	106.458	5.601	4221.975	0.13%	94.24%
108.5	105.949	5.530	4227.506	0.12%	94.36%
109.0	104.403	5.461	4232.967	0.12%	94.49%
109.5	103.640	5.385	4238.351	0.12%	94.61%
110.0	102.271	5.313	4243.664	0.12%	94.72%
110.5	101.058	5.230	4248.894	0.12%	94.84%
111.0	100.177	5.159	4254.053	0.12%	94.96%
111.5	98.808	5.084	4259.138	0.11%	95.07%
112.0	97.947	5.010	4264.148	0.11%	95.18%
112.5	96.695	4.939	4269.087	0.11%	95.29%
113.0	95.990	4.872	4273.958	0.11%	95.40%
113.5	94.562	4.800	4278.758	0.11%	95.51%

Zonal flux distribution table

Appendix Page: 8 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	93.799	4.727	4283.485	0.11%	95.61%
114.5	92.625	4.660	4288.145	0.10%	95.72%
115.0	91.784	4.591	4292.736	0.10%	95.82%
115.5	90.570	4.522	4297.257	0.10%	95.92%
116.0	89.416	4.444	4301.702	0.10%	96.02%
116.5	88.457	4.374	4306.075	0.10%	96.12%
117.0	87.185	4.300	4310.375	0.10%	96.21%
117.5	86.716	4.238	4314.614	0.09%	96.31%
118.0	85.092	4.168	4318.782	0.09%	96.40%
118.5	84.622	4.099	4322.881	0.09%	96.49%
119.0	83.233	4.035	4326.916	0.09%	96.58%
119.5	82.529	3.965	4330.881	0.09%	96.67%
120.0	81.394	3.902	4334.782	0.09%	96.76%
120.5	80.514	3.834	4338.617	0.09%	96.84%
121.0	79.633	3.773	4342.39	0.08%	96.93%
121.5	78.322	3.702	4346.092	0.08%	97.01%
122.0	77.618	3.635	4349.727	0.08%	97.09%
122.5	76.424	3.572	4353.299	0.08%	97.17%
123.0	75.778	3.509	4356.808	0.08%	97.25%
123.5	74.428	3.444	4360.252	0.08%	97.33%
124.0	74.037	3.384	4363.636	0.08%	97.40%
124.5	72.687	3.325	4366.961	0.07%	97.48%
125.0	72.022	3.260	4370.221	0.07%	97.55%
125.5	70.848	3.199	4373.42	0.07%	97.62%
126.0	69.752	3.128	4376.548	0.07%	97.69%
126.5	69.068	3.069	4379.617	0.07%	97.76%
127.0	67.776	3.006	4382.623	0.07%	97.83%
127.5	66.915	2.939	4385.563	0.07%	97.89%
128.0	65.839	2.878	4388.44	0.06%	97.96%
128.5	65.135	2.820	4391.26	0.06%	98.02%
129.0	63.804	2.757	4394.017	0.06%	98.08%
129.5	63.100	2.694	4396.711	0.06%	98.14%
130.0	61.946	2.636	4399.347	0.06%	98.20%
130.5	61.261	2.578	4401.925	0.06%	98.26%
131.0	60.282	2.524	4404.449	0.06%	98.31%
131.5	59.265	2.464	4406.913	0.06%	98.37%
132.0	58.424	2.407	4409.321	0.05%	98.42%
132.5	57.465	2.352	4411.672	0.05%	98.47%

Zonal flux distribution table

Appendix Page: 9 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
133.0	56.663	2.298	4413.97	0.05%	98.53%
133.5	55.508	2.240	4416.21	0.05%	98.58%
134.0	55.156	2.192	4418.401	0.05%	98.63%
134.5	54.021	2.144	4420.545	0.05%	98.67%
135.0	53.454	2.093	4422.638	0.05%	98.72%
135.5	52.456	2.044	4424.682	0.05%	98.77%
136.0	51.497	1.989	4426.671	0.04%	98.81%
136.5	50.969	1.943	4428.613	0.04%	98.85%
137.0	49.854	1.894	4430.507	0.04%	98.90%
137.5	49.189	1.843	4432.35	0.04%	98.94%
138.0	48.269	1.796	4434.147	0.04%	98.98%
138.5	47.643	1.751	4435.898	0.04%	99.02%
139.0	46.469	1.701	4437.599	0.04%	99.05%
139.5	46.097	1.657	4439.256	0.04%	99.09%
140.0	44.923	1.612	4440.868	0.04%	99.13%
140.5	44.258	1.563	4442.431	0.03%	99.16%
141.0	43.319	1.519	4443.95	0.03%	99.20%
141.5	42.399	1.471	4445.421	0.03%	99.23%
142.0	41.793	1.429	4446.85	0.03%	99.26%
142.5	40.619	1.383	4448.233	0.03%	99.29%
143.0	40.071	1.339	4449.572	0.03%	99.32%
143.5	39.171	1.300	4450.872	0.03%	99.35%
144.0	38.623	1.261	4452.133	0.03%	99.38%
144.5	37.547	1.220	4453.353	0.03%	99.41%
145.0	37.038	1.180	4454.534	0.03%	99.43%
145.5	36.119	1.143	4455.677	0.03%	99.46%
146.0	35.610	1.107	4456.783	0.02%	99.48%
146.5	34.808	1.073	4457.856	0.02%	99.51%
147.0	33.986	1.034	4458.89	0.02%	99.53%
147.5	33.301	0.998	4459.888	0.02%	99.55%
148.0	32.323	0.960	4460.848	0.02%	99.57%
148.5	31.540	0.921	4461.769	0.02%	99.59%
149.0	30.562	0.883	4462.653	0.02%	99.61%
149.5	30.425	0.855	4463.507	0.02%	99.63%
150.0	29.486	0.827	4464.335	0.02%	99.65%
150.5	29.173	0.798	4465.133	0.02%	99.67%
151.0	28.351	0.771	4465.903	0.02%	99.69%
151.5	27.784	0.740	4466.644	0.02%	99.70%

Zonal flux distribution table

Appendix Page: 10 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	27.314	0.715	4467.359	0.02%	99.72%
152.5	26.453	0.686	4468.045	0.02%	99.73%
153.0	25.944	0.658	4468.703	0.01%	99.75%
153.5	25.201	0.631	4469.334	0.01%	99.76%
154.0	24.829	0.607	4469.94	0.01%	99.78%
154.5	23.929	0.581	4470.521	0.01%	99.79%
155.0	23.734	0.557	4471.079	0.01%	99.80%
155.5	22.853	0.535	4471.613	0.01%	99.81%
156.0	22.462	0.510	4472.124	0.01%	99.82%
156.5	21.757	0.488	4472.612	0.01%	99.84%
157.0	21.170	0.465	4473.076	0.01%	99.85%
157.5	20.799	0.445	4473.521	0.01%	99.86%
158.0	20.075	0.424	4473.946	0.01%	99.86%
158.5	19.605	0.403	4474.349	0.01%	99.87%
159.0	18.881	0.382	4474.731	0.01%	99.88%
159.5	18.783	0.366	4475.097	0.01%	99.89%
160.0	18.079	0.350	4475.447	0.01%	99.90%
160.5	17.824	0.333	4475.779	0.01%	99.91%
161.0	17.159	0.316	4476.096	0.01%	99.91%
161.5	16.749	0.299	4476.394	0.01%	99.92%
162.0	16.181	0.283	4476.677	0.01%	99.93%
162.5	15.672	0.266	4476.943	0.01%	99.93%
163.0	15.183	0.251	4477.194	0.01%	99.94%
163.5	14.596	0.235	4477.429	0.01%	99.94%
164.0	14.283	0.222	4477.651	0.00%	99.95%
164.5	13.559	0.207	4477.858	0.00%	99.95%
165.0	13.403	0.194	4478.053	0.00%	99.96%
165.5	12.679	0.182	4478.235	0.00%	99.96%
166.0	12.366	0.169	4478.404	0.00%	99.96%
166.5	11.838	0.158	4478.561	0.00%	99.97%
167.0	11.329	0.146	4478.707	0.00%	99.97%
167.5	10.996	0.135	4478.842	0.00%	99.97%
168.0	10.487	0.125	4478.967	0.00%	99.98%
168.5	10.155	0.115	4479.082	0.00%	99.98%
169.0	9.607	0.106	4479.188	0.00%	99.98%
169.5	9.411	0.097	4479.285	0.00%	99.98%
170.0	8.746	0.089	4479.374	0.00%	99.99%
170.5	8.472	0.080	4479.454	0.00%	99.99%

Zonal flux distribution table

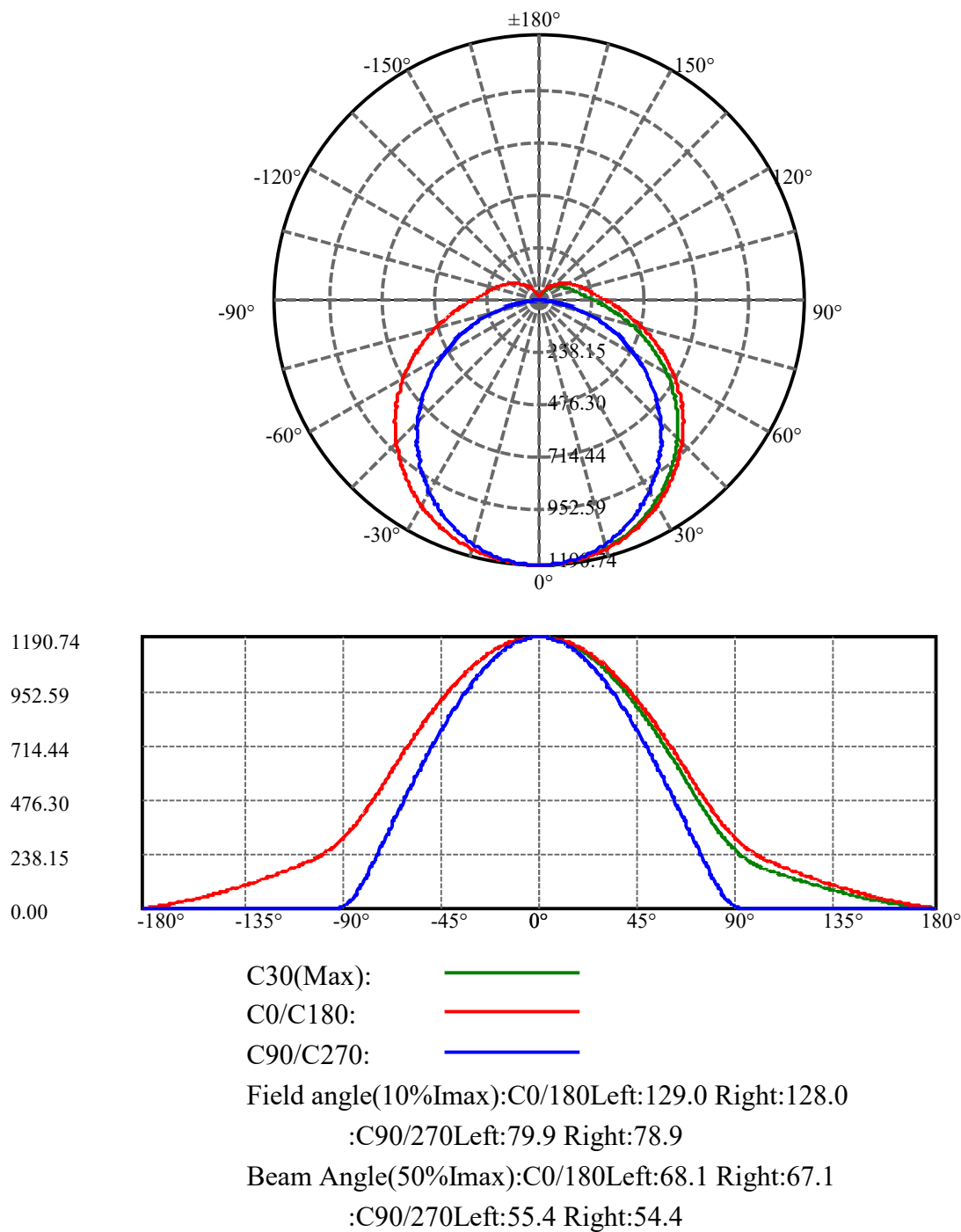
Appendix Page: 11 Total:29

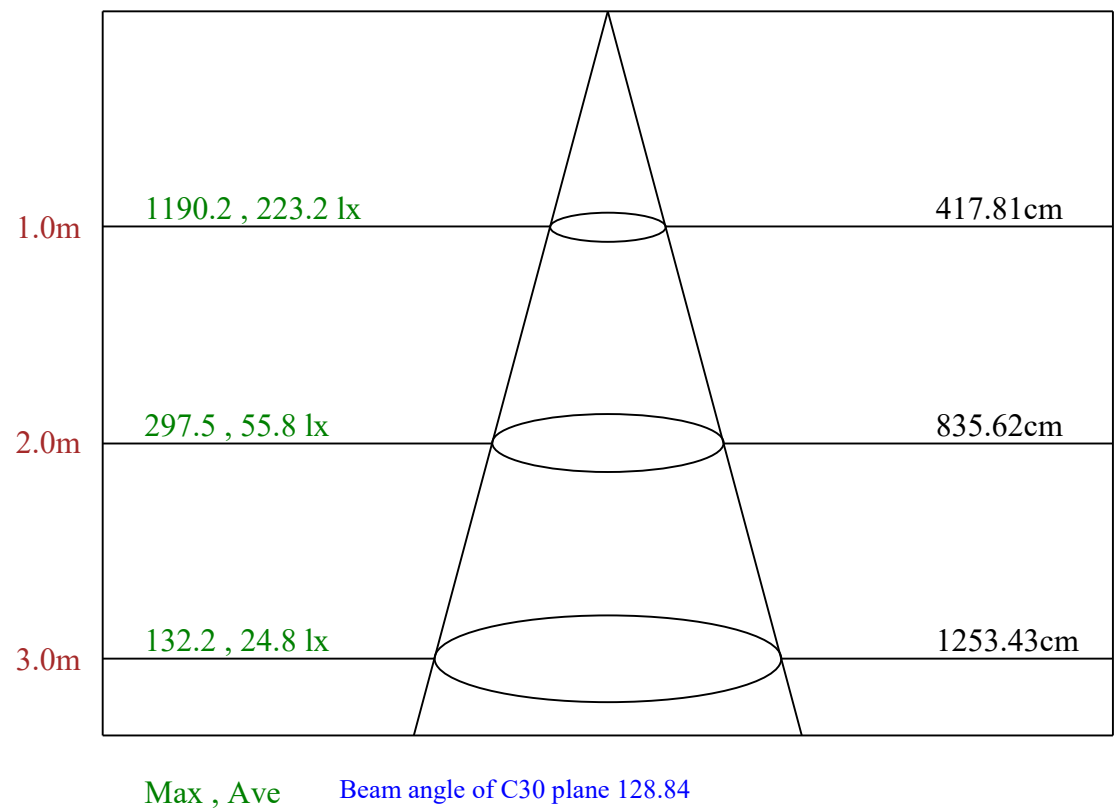
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
171.0	8.081	0.073	4479.527	0.00%	99.99%
171.5	7.748	0.066	4479.593	0.00%	99.99%
172.0	7.377	0.059	4479.652	0.00%	99.99%
172.5	7.005	0.053	4479.705	0.00%	99.99%
173.0	6.789	0.048	4479.753	0.00%	99.99%
173.5	6.398	0.042	4479.796	0.00%	100.00%
174.0	6.105	0.037	4479.833	0.00%	100.00%
174.5	5.420	0.032	4479.865	0.00%	100.00%
175.0	5.283	0.027	4479.891	0.00%	100.00%
175.5	5.009	0.023	4479.915	0.00%	100.00%
176.0	4.833	0.020	4479.935	0.00%	100.00%
176.5	4.539	0.017	4479.952	0.00%	100.00%
177.0	4.402	0.014	4479.965	0.00%	100.00%
177.5	4.148	0.011	4479.977	0.00%	100.00%
178.0	4.011	0.009	4479.985	0.00%	100.00%
178.5	3.816	0.007	4479.992	0.00%	100.00%
179.0	3.698	0.004	4479.996	0.00%	100.00%
179.5	3.640	0.003	4479.999	0.00%	100.00%
180.0	3.541	0.001	4480	0.00%	100.00%

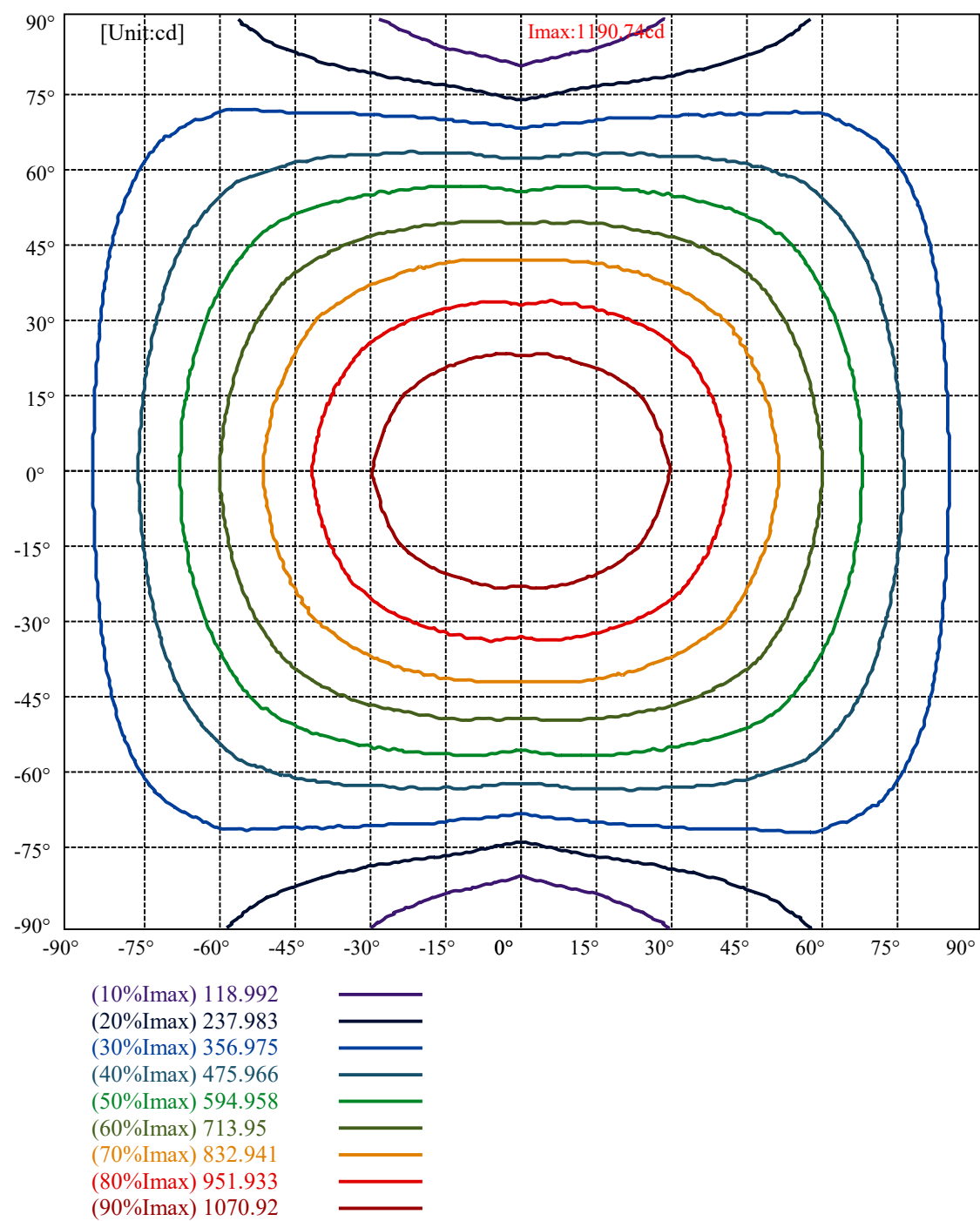
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	932.92	20.82%	20.82%
0-40	1541.87	34.42%	34.42%
0-60	2813.84	62.81%	62.81%
0-90	3962.41	88.45%	88.45%
0-120	4334.78	96.76%	96.76%
0-180	4480.00	100.00%	100.00%
60-90	1148.56	25.64%	25.64%
90-120	372.38	8.31%	8.31%
90-130	436.94	9.75%	9.75%
90-150	501.93	11.20%	11.20%
90-180	517.59	11.55%	11.55%
0-75.94	3584.00	80.00%	80.00%

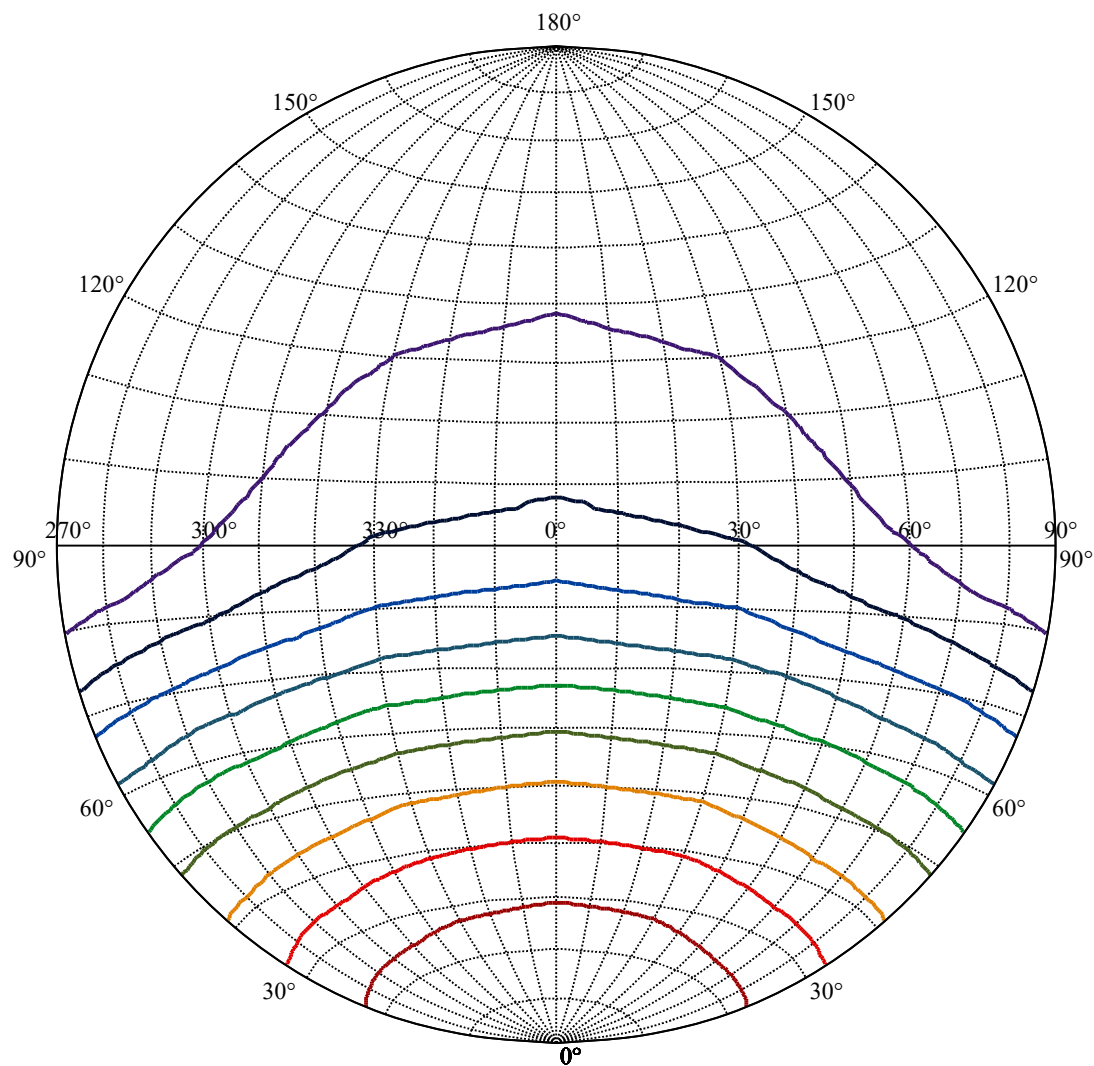
ZONAL LUMEN SUMMARY

0-10	112.63
10-20	324.08
20-30	496.21
30-40	608.95
40-50	650.99
50-60	620.98
60-70	524.34
70-80	382.33
80-90	241.89
90-100	160.47
100-110	120.78
110-120	91.12
120-130	64.56
130-140	41.52
140-150	23.47
150-160	11.11
160-170	3.93
170-180	0.63







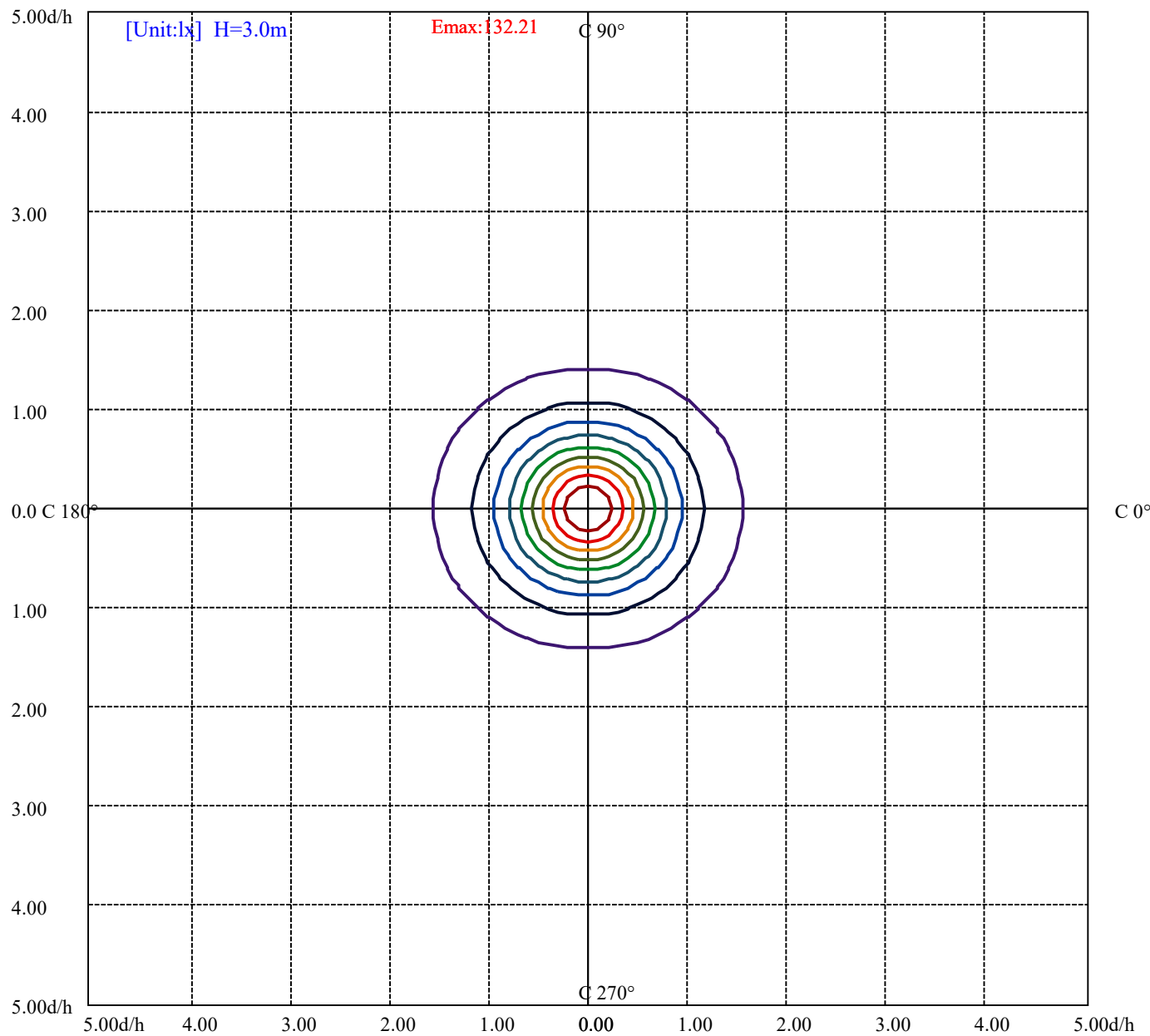


House

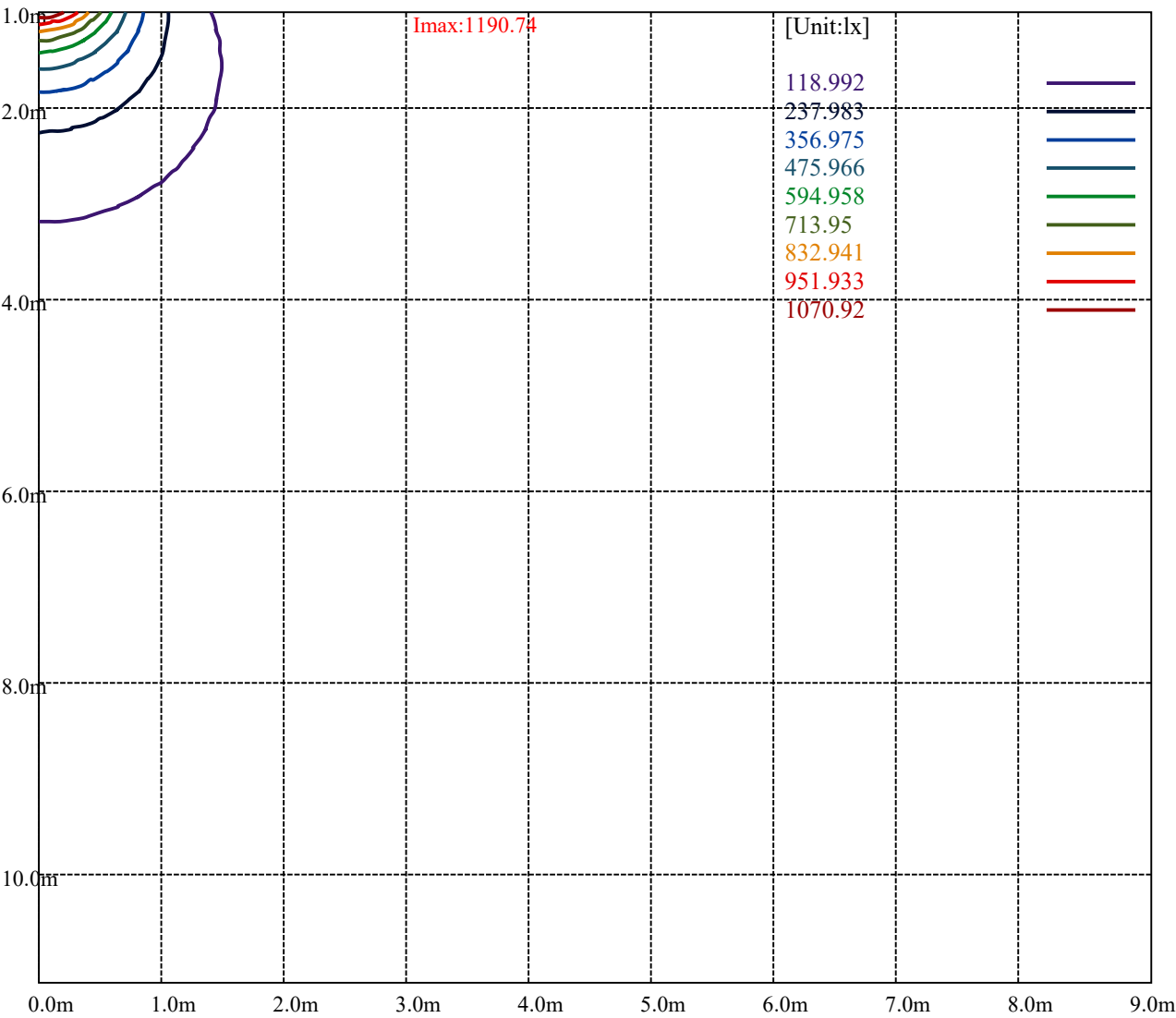
[Unit:cd]

Road

Imax:1190.74	
(10%Imax) 119.074	
(20%Imax) 238.148	
(30%Imax) 357.221	
(40%Imax) 476.295	
(50%Imax) 595.369	
(60%Imax) 714.443	
(70%Imax) 833.517	
(80%Imax) 952.59	
(90%Imax) 1071.66	



(10%Emax)	13.22133	—
(20%Emax)	26.44256	—
(30%Emax)	39.66389	—
(40%Emax)	52.88511	—
(50%Emax)	66.10645	—
(60%Emax)	79.32778	—
(70%Emax)	92.549	—
(80%Emax)	105.7703	—
(90%Emax)	118.9911	—



C/γ(°)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
0.0	1189.92	1189.92	1189.68	1189.68	1188.98	1188.98	1187.92	1187.92	1186.86
30.0	1189.92	1189.92	1190.74	1190.27	1190.03	1190.03	1189.09	1188.62	1187.92
60.0	1189.92	1189.92	1188.98	1188.39	1187.92	1187.92	1186.63	1186.63	1185.22
90.0	1189.92	1189.92	1189.45	1189.45	1188.86	1188.86	1187.33	1187.33	1185.93
120.0	1189.92	1189.92	1189.92	1189.56	1189.33	1188.39	1188.39	1186.98	1186.16
150.0	1189.92	1189.92	1187.22	1187.69	1186.75	1185.93	1185.93	1184.87	1184.87
180.0	1189.92	1189.92	1189.68	1189.68	1188.98	1188.98	1187.92	1187.92	1186.86
210.0	1189.92	1189.92	1190.74	1190.27	1190.03	1190.03	1189.09	1188.62	1187.92
240.0	1189.92	1189.92	1188.98	1188.39	1187.92	1187.92	1186.63	1186.63	1185.22
270.0	1189.92	1189.92	1189.45	1189.45	1188.86	1188.86	1187.33	1187.33	1185.93
300.0	1189.92	1189.92	1189.92	1189.56	1189.33	1188.39	1188.39	1186.98	1186.16
330.0	1189.92	1189.92	1187.22	1187.69	1186.75	1185.93	1185.93	1184.87	1184.87
360.0	1189.92	1189.92	1189.68	1189.68	1188.98	1188.98	1187.92	1187.92	1186.86

C/γ(°)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
0.0	1186.86	1185.57	1184.87	1184.16	1182.29	1182.29	1180.64	1180.64	1178.76
30.0	1187.22	1186.28	1185.57	1184.52	1183.58	1182.52	1180.05	1180.05	1177.71
60.0	1185.22	1183.69	1183.22	1181.82	1180.99	1178.88	1176.06	1176.06	1172.78
90.0	1185.93	1184.05	1181.70	1181.70	1179.00	1179.00	1175.83	1175.83	1172.19
120.0	1185.57	1185.57	1183.22	1182.05	1181.11	1178.41	1178.41	1175.71	1175.71
150.0	1183.81	1183.69	1182.17	1181.70	1180.52	1180.05	1178.53	1176.18	1175.48
180.0	1186.86	1185.57	1184.87	1184.16	1182.29	1182.29	1180.64	1180.64	1178.76
210.0	1187.22	1186.28	1185.57	1184.52	1183.58	1182.52	1180.05	1180.05	1177.71
240.0	1185.22	1183.69	1183.22	1181.82	1180.99	1178.88	1176.06	1176.06	1172.78
270.0	1185.93	1184.05	1181.70	1181.70	1179.00	1179.00	1175.83	1175.83	1172.19
300.0	1185.57	1185.57	1183.22	1182.05	1181.11	1178.41	1178.41	1175.71	1175.71
330.0	1183.81	1183.69	1182.17	1181.70	1180.52	1180.05	1178.53	1176.18	1175.48
360.0	1186.86	1185.57	1184.87	1184.16	1182.29	1182.29	1180.64	1180.64	1178.76

C/γ(°)	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
0.0	1178.76	1176.42	1175.36	1174.54	1171.25	1171.25	1168.55	1168.55	1165.15
30.0	1176.42	1174.89	1173.72	1172.42	1170.78	1169.02	1167.49	1165.85	1162.09
60.0	1171.60	1169.14	1167.61	1165.38	1163.85	1161.27	1157.05	1157.05	1152.23
90.0	1172.19	1168.67	1168.67	1164.21	1159.51	1159.51	1154.46	1154.46	1149.18
120.0	1172.19	1169.96	1168.20	1166.09	1164.21	1161.86	1160.10	1155.40	1155.40
150.0	1173.95	1172.89	1170.78	1169.61	1167.61	1166.67	1164.68	1160.92	1160.92
180.0	1178.76	1176.42	1175.36	1174.54	1171.25	1171.25	1168.55	1168.55	1165.15
210.0	1176.42	1174.89	1173.72	1172.42	1170.78	1169.02	1167.49	1165.85	1162.09
240.0	1171.60	1169.14	1167.61	1165.38	1163.85	1161.27	1157.05	1157.05	1152.23
270.0	1172.19	1168.67	1168.67	1164.21	1159.51	1159.51	1154.46	1154.46	1149.18
300.0	1172.19	1169.96	1168.20	1166.09	1164.21	1161.86	1160.10	1155.40	1155.40
330.0	1173.95	1172.89	1170.78	1169.61	1167.61	1166.67	1164.68	1160.92	1160.92
360.0	1178.76	1176.42	1175.36	1174.54	1171.25	1171.25	1168.55	1168.55	1165.15

C/γ(°)	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5
0.0	1165.15	1161.98	1161.98	1158.45	1156.69	1154.93	1150.35	1150.35	1146.13
30.0	1160.10	1157.99	1156.22	1154.11	1152.00	1149.53	1147.54	1145.07	1139.91
60.0	1152.23	1147.07	1144.72	1141.43	1138.73	1135.45	1132.98	1129.46	1123.00
90.0	1149.18	1143.19	1143.19	1137.32	1134.39	1130.63	1127.46	1123.94	1116.66
120.0	1150.24	1147.65	1145.07	1142.14	1139.55	1136.38	1133.57	1127.58	1127.58
150.0	1157.28	1155.87	1153.17	1151.53	1148.83	1147.30	1144.60	1142.72	1139.67
180.0	1165.15	1161.98	1161.98	1158.45	1156.69	1154.93	1150.35	1150.35	1146.13
210.0	1160.10	1157.99	1156.22	1154.11	1152.00	1149.53	1147.54	1145.07	1139.91
240.0	1152.23	1147.07	1144.72	1141.43	1138.73	1135.45	1132.98	1129.46	1123.00
270.0	1149.18	1143.19	1143.19	1137.32	1134.39	1130.63	1127.46	1123.94	1116.66
300.0	1150.24	1147.65	1145.07	1142.14	1139.55	1136.38	1133.57	1127.58	1127.58
330.0	1157.28	1155.87	1153.17	1151.53	1148.83	1147.30	1144.60	1142.72	1139.67
360.0	1165.15	1161.98	1161.98	1158.45	1156.69	1154.93	1150.35	1150.35	1146.13

C/γ(°)	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0
0.0	1146.13	1141.20	1141.20	1136.38	1136.38	1131.34	1128.75	1125.82	1120.07
30.0	1139.91	1134.98	1132.16	1129.22	1126.41	1123.24	1120.42	1117.25	1114.08
60.0	1123.00	1116.54	1116.54	1109.85	1106.57	1102.57	1099.17	1094.94	1091.30
90.0	1116.66	1109.27	1109.27	1101.64	1101.64	1093.65	1084.97	1084.97	1076.40
120.0	1121.12	1121.12	1114.43	1110.79	1107.15	1103.28	1099.87	1095.88	1092.24
150.0	1134.51	1132.28	1129.11	1126.88	1123.59	1121.12	1117.72	1115.14	1111.50
180.0	1146.13	1141.20	1141.20	1136.38	1136.38	1131.34	1128.75	1125.82	1120.07
210.0	1139.91	1134.98	1132.16	1129.22	1126.41	1123.24	1120.42	1117.25	1114.08
240.0	1123.00	1116.54	1116.54	1109.85	1106.57	1102.57	1099.17	1094.94	1091.30
270.0	1116.66	1109.27	1109.27	1101.64	1101.64	1093.65	1084.97	1084.97	1076.40
300.0	1121.12	1121.12	1114.43	1110.79	1107.15	1103.28	1099.87	1095.88	1092.24
330.0	1134.51	1132.28	1129.11	1126.88	1123.59	1121.12	1117.72	1115.14	1111.50
360.0	1146.13	1141.20	1141.20	1136.38	1136.38	1131.34	1128.75	1125.82	1120.07
C/γ(°)	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5
0.0	1120.07	1113.84	1113.84	1108.09	1104.69	1101.28	1097.88	1094.59	1087.55
30.0	1111.03	1104.10	1104.10	1097.41	1093.89	1090.25	1086.61	1082.85	1079.21
60.0	1086.84	1078.86	1078.86	1070.64	1066.65	1062.07	1057.85	1053.03	1048.81
90.0	1076.40	1067.24	1067.24	1057.96	1057.96	1047.99	1047.99	1037.89	1027.79
120.0	1084.50	1084.50	1076.40	1076.40	1067.94	1063.25	1059.02	1054.44	1049.86
150.0	1108.91	1105.27	1098.47	1095.65	1091.77	1088.49	1084.38	1081.09	1076.98
180.0	1120.07	1113.84	1113.84	1108.09	1104.69	1101.28	1097.88	1094.59	1087.55
210.0	1111.03	1104.10	1104.10	1097.41	1093.89	1090.25	1086.61	1082.85	1079.21
240.0	1086.84	1078.86	1078.86	1070.64	1066.65	1062.07	1057.85	1053.03	1048.81
270.0	1076.40	1067.24	1067.24	1057.96	1057.96	1047.99	1047.99	1037.89	1027.79
300.0	1084.50	1084.50	1076.40	1076.40	1067.94	1063.25	1059.02	1054.44	1049.86
330.0	1108.91	1105.27	1098.47	1095.65	1091.77	1088.49	1084.38	1081.09	1076.98
360.0	1120.07	1113.84	1113.84	1108.09	1104.69	1101.28	1097.88	1094.59	1087.55
C/γ(°)	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0
0.0	1087.55	1080.62	1080.62	1073.23	1073.23	1065.71	1065.71	1057.85	1053.50
30.0	1075.46	1071.70	1067.36	1059.02	1055.03	1050.92	1046.46	1042.23	1037.89
60.0	1043.88	1034.25	1034.25	1024.51	1024.51	1014.76	1009.95	1004.55	999.50
90.0	1027.79	1017.23	1017.23	1006.43	1006.43	995.16	995.16	983.65	972.27
120.0	1045.29	1040.71	1031.20	1031.20	1021.22	1016.29	1011.36	1005.96	1000.91
150.0	1073.70	1069.47	1061.37	1061.37	1053.27	1049.63	1044.93	1041.06	1036.36
180.0	1087.55	1080.62	1080.62	1073.23	1073.23	1065.71	1065.71	1057.85	1053.50
210.0	1075.46	1071.70	1067.36	1059.02	1055.03	1050.92	1046.46	1042.23	1037.89
240.0	1043.88	1034.25	1034.25	1024.51	1024.51	1014.76	1009.95	1004.55	999.50
270.0	1027.79	1017.23	1017.23	1006.43	1006.43	995.16	995.16	983.65	972.27
300.0	1045.29	1040.71	1031.20	1031.20	1021.22	1016.29	1011.36	1005.96	1000.91
330.0	1073.70	1069.47	1061.37	1061.37	1053.27	1049.63	1044.93	1041.06	1036.36
360.0	1087.55	1080.62	1080.62	1073.23	1073.23	1065.71	1065.71	1057.85	1053.50
C/γ(°)	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5
0.0	1049.63	1041.18	1041.18	1032.84	1032.84	1024.27	1024.27	1015.35	1010.77
30.0	1033.66	1029.44	1024.86	1015.12	1015.12	1005.61	1000.91	996.10	991.05
60.0	993.87	989.17	983.54	972.62	972.62	961.35	961.35	950.08	944.44
90.0	972.27	960.41	960.41	948.08	948.08	935.64	935.64	922.96	922.96
120.0	995.51	990.35	979.66	979.66	968.63	968.63	957.47	951.72	946.20
150.0	1032.14	1027.44	1023.22	1018.17	1009.01	1004.67	999.50	994.92	989.76
180.0	1049.63	1041.18	1041.18	1032.84	1032.84	1024.27	1024.27	1015.35	1010.77
210.0	1033.66	1029.44	1024.86	1015.12	1015.12	1005.61	1000.91	996.10	991.05
240.0	993.87	989.17	983.54	972.62	972.62	961.35	961.35	950.08	944.44
270.0	972.27	960.41	960.41	948.08	948.08	935.64	935.64	922.96	922.96
300.0	995.51	990.35	979.66	979.66	968.63	968.63	957.47	951.72	946.20
330.0	1032.14	1027.44	1023.22	1018.17	1009.01	1004.67	999.50	994.92	989.76
360.0	1049.63	1041.18	1041.18	1032.84	1032.84	1024.27	1024.27	1015.35	1010.77

Intensity data(cd)

Appendix Page: 21 Total:29

C/γ(°)	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
0.0	1005.96	1001.50	996.80	987.17	987.17	977.90	977.90	967.81	967.81
30.0	986.12	981.19	976.02	970.74	965.69	955.36	955.36	944.56	939.16
60.0	938.22	932.70	926.60	920.85	914.51	902.30	902.30	889.50	883.63
90.0	910.05	896.66	896.66	883.40	883.40	869.90	869.90	856.16	856.16
120.0	940.22	934.46	928.36	922.49	910.52	910.52	898.07	898.07	885.51
150.0	985.06	979.78	975.20	969.80	964.87	959.47	949.02	943.86	938.22
180.0	1005.96	1001.50	996.80	987.17	987.17	977.90	977.90	967.81	967.81
210.0	986.12	981.19	976.02	970.74	965.69	955.36	955.36	944.56	939.16
240.0	938.22	932.70	926.60	920.85	914.51	902.30	902.30	889.50	883.63
270.0	910.05	896.66	896.66	883.40	883.40	869.90	869.90	856.16	856.16
300.0	940.22	934.46	928.36	922.49	910.52	910.52	898.07	898.07	885.51
330.0	985.06	979.78	975.20	969.80	964.87	959.47	949.02	943.86	938.22
360.0	1005.96	1001.50	996.80	987.17	987.17	977.90	977.90	967.81	967.81

C/γ(°)	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5
0.0	957.47	952.54	947.38	937.05	937.05	926.48	926.48	915.56	915.56
30.0	933.64	928.01	922.73	917.21	911.46	905.59	900.07	888.80	882.69
60.0	877.18	870.84	864.15	858.16	851.47	838.20	838.20	825.17	825.17
90.0	842.31	842.31	827.99	813.43	813.43	798.99	798.99	784.20	784.20
120.0	879.17	872.83	866.26	860.04	853.46	847.01	833.86	833.86	820.59
150.0	933.17	927.30	922.14	916.39	910.99	905.12	893.73	893.73	881.99
180.0	957.47	952.54	947.38	937.05	937.05	926.48	926.48	915.56	915.56
210.0	933.64	928.01	922.73	917.21	911.46	905.59	900.07	888.80	882.69
240.0	877.18	870.84	864.15	858.16	851.47	838.20	838.20	825.17	825.17
270.0	842.31	842.31	827.99	813.43	813.43	798.99	798.99	784.20	784.20
300.0	879.17	872.83	866.26	860.04	853.46	847.01	833.86	833.86	820.59
330.0	933.17	927.30	922.14	916.39	910.99	905.12	893.73	893.73	881.99
360.0	957.47	952.54	947.38	937.05	937.05	926.48	926.48	915.56	915.56

C/γ(°)	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0
0.0	904.76	904.76	893.38	887.86	882.11	870.72	870.72	859.10	859.10
30.0	876.71	870.60	864.73	858.74	852.64	840.90	840.90	828.10	828.10
60.0	811.32	804.86	797.82	791.01	783.96	777.04	769.76	755.56	755.56
90.0	769.06	769.06	754.03	738.65	738.65	723.27	723.27	707.31	707.31
120.0	813.67	806.86	800.05	793.36	779.50	779.50	765.30	765.30	751.33
150.0	876.24	870.37	864.62	858.28	852.52	846.30	840.55	834.21	821.77
180.0	904.76	904.76	893.38	887.86	882.11	870.72	870.72	859.10	859.10
210.0	876.71	870.60	864.73	858.74	852.64	840.90	840.90	828.10	828.10
240.0	811.32	804.86	797.82	791.01	783.96	777.04	769.76	755.56	755.56
270.0	769.06	769.06	754.03	738.65	738.65	723.27	723.27	707.31	707.31
300.0	813.67	806.86	800.05	793.36	779.50	779.50	765.30	765.30	751.33
330.0	876.24	870.37	864.62	858.28	852.52	846.30	840.55	834.21	821.77
360.0	904.76	904.76	893.38	887.86	882.11	870.72	870.72	859.10	859.10

C/γ(°)	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5
0.0	847.24	847.24	835.62	829.63	823.41	817.42	811.43	798.87	798.87
30.0	815.90	809.44	803.10	796.64	790.30	783.73	777.27	770.70	764.01
60.0	741.35	734.42	727.15	719.98	712.35	705.19	697.56	690.40	682.77
90.0	691.46	691.46	675.37	675.37	659.17	642.86	642.86	626.42	626.42
120.0	751.33	736.89	729.73	722.45	715.05	708.01	700.61	693.22	678.31
150.0	815.66	809.09	802.98	796.41	790.30	783.61	777.39	770.82	764.36
180.0	847.24	847.24	835.62	829.63	823.41	817.42	811.43	798.87	798.87
210.0	815.90	809.44	803.10	796.64	790.30	783.73	777.27	770.70	764.01
240.0	741.35	734.42	727.15	719.98	712.35	705.19	697.56	690.40	682.77
270.0	691.46	691.46	675.37	675.37	659.17	642.86	642.86	626.42	626.42
300.0	751.33	736.89	729.73	722.45	715.05	708.01	700.61	693.22	678.31
330.0	815.66	809.09	802.98	796.41	790.30	783.61	777.39	770.82	764.36
360.0	847.24	847.24	835.62	829.63	823.41	817.42	811.43	798.87	798.87

C/γ(°)	54.0	54.5	55.0	55.5	56.0	56.5	57.0	57.5	58.0
0.0	792.65	783.38	776.92	770.70	764.36	758.14	745.11	738.53	732.19
30.0	750.98	750.98	737.71	730.90	724.21	717.28	710.48	703.90	697.09
60.0	675.61	667.74	652.72	645.32	637.57	629.82	622.08	614.68	606.70
90.0	609.87	609.87	592.85	592.85	575.94	575.94	558.92	541.66	541.66
120.0	678.31	663.40	663.40	648.37	640.62	633.11	625.36	617.73	609.99
150.0	757.67	744.52	737.95	731.37	724.68	717.75	711.18	704.14	697.56
180.0	792.65	783.38	776.92	770.70	764.36	758.14	745.11	738.53	732.19
210.0	750.98	750.98	737.71	730.90	724.21	717.28	710.48	703.90	697.09
240.0	675.61	667.74	652.72	645.32	637.57	629.82	622.08	614.68	606.70
270.0	609.87	609.87	592.85	592.85	575.94	575.94	558.92	541.66	541.66
300.0	678.31	663.40	663.40	648.37	640.62	633.11	625.36	617.73	609.99
330.0	757.67	744.52	737.95	731.37	724.68	717.75	711.18	704.14	697.56
360.0	792.65	783.38	776.92	770.70	764.36	758.14	745.11	738.53	732.19

C/γ(°)	58.5	59.0	59.5	60.0	60.5	61.0	61.5	62.0	62.5
0.0	725.50	719.04	712.47	705.90	699.20	692.40	678.78	678.78	665.51
30.0	690.05	683.12	668.92	661.99	655.06	648.14	640.98	633.82	626.89
60.0	591.32	591.32	575.59	575.59	559.74	551.99	544.13	536.14	528.16
90.0	524.29	524.29	506.91	506.91	489.30	489.30	471.58	453.61	453.61
120.0	602.35	586.86	586.86	571.24	563.50	555.75	547.65	539.78	531.80
150.0	690.52	676.78	676.78	662.81	656.00	648.96	642.03	634.87	627.95
180.0	725.50	719.04	712.47	705.90	699.20	692.40	678.78	678.78	665.51
210.0	690.05	683.12	668.92	661.99	655.06	648.14	640.98	633.82	626.89
240.0	591.32	591.32	575.59	575.59	559.74	551.99	544.13	536.14	528.16
270.0	524.29	524.29	506.91	506.91	489.30	489.30	471.58	453.61	453.61
300.0	602.35	586.86	586.86	571.24	563.50	555.75	547.65	539.78	531.80
330.0	690.52	676.78	676.78	662.81	656.00	648.96	642.03	634.87	627.95
360.0	725.50	719.04	712.47	705.90	699.20	692.40	678.78	678.78	665.51

C/γ(°)	63.0	63.5	64.0	64.5	65.0	65.5	66.0	66.5	67.0
0.0	658.35	651.66	644.73	638.04	631.35	624.42	617.26	610.34	596.60
30.0	612.80	612.80	598.13	598.13	584.16	576.76	569.60	562.32	555.04
60.0	520.30	512.31	496.23	496.23	480.50	472.40	464.30	456.31	448.10
90.0	435.77	435.77	417.81	417.81	399.73	399.73	381.53	381.53	363.34
120.0	524.05	508.32	508.32	492.24	492.24	476.39	468.41	460.42	452.32
150.0	620.79	613.74	606.58	592.26	585.21	577.94	570.66	563.38	556.34
180.0	658.35	651.66	644.73	638.04	631.35	624.42	617.26	610.34	596.60
210.0	612.80	612.80	598.13	598.13	584.16	576.76	569.60	562.32	555.04
240.0	520.30	512.31	496.23	496.23	480.50	472.40	464.30	456.31	448.10
270.0	435.77	435.77	417.81	417.81	399.73	399.73	381.53	381.53	363.34
300.0	524.05	508.32	508.32	492.24	492.24	476.39	468.41	460.42	452.32
330.0	620.79	613.74	606.58	592.26	585.21	577.94	570.66	563.38	556.34
360.0	658.35	651.66	644.73	638.04	631.35	624.42	617.26	610.34	596.60

C/γ(°)	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5
0.0	596.60	582.75	575.82	568.90	561.74	555.04	548.00	540.96	527.10
30.0	547.65	540.49	532.97	525.81	511.37	511.37	496.82	489.54	482.38
60.0	440.00	432.13	415.93	415.93	400.08	400.08	384.12	376.13	368.15
90.0	345.02	345.02	326.71	326.71	308.51	308.51	290.20	290.20	272.00
120.0	444.34	436.36	428.26	412.29	412.29	396.44	396.44	380.36	372.49
150.0	549.17	542.01	534.85	527.57	520.41	506.09	498.93	491.89	484.61
180.0	596.60	582.75	575.82	568.90	561.74	555.04	548.00	540.96	527.10
210.0	547.65	540.49	532.97	525.81	511.37	511.37	496.82	489.54	482.38
240.0	440.00	432.13	415.93	415.93	400.08	400.08	384.12	376.13	368.15
270.0	345.02	345.02	326.71	326.71	308.51	308.51	290.20	290.20	272.00
300.0	444.34	436.36	428.26	412.29	412.29	396.44	396.44	380.36	372.49
330.0	549.17	542.01	534.85	527.57	520.41	506.09	498.93	491.89	484.61
360.0	596.60	582.75	575.82	568.90	561.74	555.04	548.00	540.96	527.10

C/γ(°)	72.0	72.5	73.0	73.5	74.0	74.5	75.0	75.5	76.0
0.0	527.10	513.60	506.56	499.99	493.29	486.60	480.03	473.57	467.00
30.0	475.33	468.17	460.89	453.85	446.81	439.88	425.79	418.87	412.06
60.0	360.05	352.30	344.20	336.34	320.72	320.72	305.46	305.46	290.20
90.0	272.00	253.81	235.61	235.61	217.65	217.65	199.92	199.92	182.43
120.0	364.51	356.65	348.66	340.92	333.05	317.32	317.32	302.06	294.54
150.0	477.68	470.28	463.48	456.31	449.51	435.65	435.65	422.15	414.99
180.0	527.10	513.60	506.56	499.99	493.29	486.60	480.03	473.57	467.00
210.0	475.33	468.17	460.89	453.85	446.81	439.88	425.79	418.87	412.06
240.0	360.05	352.30	344.20	336.34	320.72	320.72	305.46	305.46	290.20
270.0	272.00	253.81	235.61	235.61	217.65	217.65	199.92	199.92	182.43
300.0	364.51	356.65	348.66	340.92	333.05	317.32	317.32	302.06	294.54
330.0	477.68	470.28	463.48	456.31	449.51	435.65	435.65	422.15	414.99
360.0	527.10	513.60	506.56	499.99	493.29	486.60	480.03	473.57	467.00

C/γ(°)	76.5	77.0	77.5	78.0	78.5	79.0	79.5	80.0	80.5
0.0	460.54	447.51	447.51	434.83	428.73	422.74	416.64	410.53	404.43
30.0	405.25	398.67	392.10	385.41	378.95	372.73	360.05	360.05	347.96
60.0	282.34	275.29	267.43	260.62	252.87	246.18	232.44	232.44	219.06
90.0	182.43	165.06	148.15	148.15	131.60	131.60	115.63	115.63	100.14
120.0	286.91	279.64	272.12	264.84	257.45	243.24	243.24	229.51	229.51
150.0	408.77	401.73	395.62	388.70	382.83	376.02	367.45	360.76	348.78
180.0	460.54	447.51	447.51	434.83	428.73	422.74	416.64	410.53	404.43
210.0	405.25	398.67	392.10	385.41	378.95	372.73	360.05	360.05	347.96
240.0	282.34	275.29	267.43	260.62	252.87	246.18	232.44	232.44	219.06
270.0	182.43	165.06	148.15	148.15	131.60	131.60	115.63	115.63	100.14
300.0	286.91	279.64	272.12	264.84	257.45	243.24	243.24	229.51	229.51
330.0	408.77	401.73	395.62	388.70	382.83	376.02	367.45	360.76	348.78
360.0	460.54	447.51	447.51	434.83	428.73	422.74	416.64	410.53	404.43

C/γ(°)	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5	85.0
0.0	398.67	392.92	387.05	375.78	370.26	364.86	359.58	354.53	349.25
30.0	341.97	336.22	330.35	324.48	318.85	313.33	307.93	302.53	292.31
60.0	211.78	206.15	199.22	193.94	187.13	182.32	171.40	171.40	161.07
90.0	100.14	85.46	85.46	71.49	58.35	58.35	46.25	46.25	35.57
120.0	216.24	210.25	203.68	197.93	191.59	186.19	180.32	169.64	169.64
150.0	348.78	337.16	337.16	325.77	325.77	314.85	314.85	304.29	299.95
180.0	398.67	392.92	387.05	375.78	370.26	364.86	359.58	354.53	349.25
210.0	341.97	336.22	330.35	324.48	318.85	313.33	307.93	302.53	292.31
240.0	211.78	206.15	199.22	193.94	187.13	182.32	171.40	171.40	161.07
270.0	100.14	85.46	85.46	71.49	58.35	58.35	46.25	46.25	35.57
300.0	216.24	210.25	203.68	197.93	191.59	186.19	180.32	169.64	169.64
330.0	348.78	337.16	337.16	325.77	325.77	314.85	314.85	304.29	299.95
360.0	398.67	392.92	387.05	375.78	370.26	364.86	359.58	354.53	349.25

C/γ(°)	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5
0.0	344.20	339.04	334.11	324.36	324.36	315.21	310.74	306.28	301.94
30.0	287.27	282.34	277.52	272.83	268.25	263.90	259.56	255.33	251.11
60.0	161.07	151.67	146.16	142.87	137.82	134.77	130.19	127.49	120.92
90.0	35.57	26.06	26.06	18.20	13.38	12.09	7.63	7.63	4.70
120.0	159.66	159.66	150.50	146.63	142.05	138.53	134.42	127.49	127.49
150.0	294.31	284.45	284.45	275.06	275.06	266.14	266.14	257.68	257.68
180.0	344.20	339.04	334.11	324.36	324.36	315.21	310.74	306.28	301.94
210.0	287.27	282.34	277.52	272.83	268.25	263.90	259.56	255.33	251.11
240.0	161.07	151.67	146.16	142.87	137.82	134.77	130.19	127.49	120.92
270.0	35.57	26.06	26.06	18.20	13.38	12.09	7.63	7.63	4.70
300.0	159.66	159.66	150.50	146.63	142.05	138.53	134.42	127.49	127.49
330.0	294.31	284.45	284.45	275.06	275.06	266.14	266.14	257.68	257.68
360.0	344.20	339.04	334.11	324.36	324.36	315.21	310.74	306.28	301.94

Intensity data(cd)										Appendix Page: 24 Total:29	
C/γ(°)	90.0	90.5	91.0	91.5	92.0	92.5	93.0	93.5	94.0		
0.0	297.83	293.72	289.61	285.62	281.87	274.35	274.35	267.31	263.79		
30.0	247.12	239.49	235.85	232.21	228.80	225.28	222.11	218.82	215.77		
60.0	120.92	114.93	114.93	109.53	106.36	104.95	102.13	100.73	98.26		
90.0	4.70	2.82	2.82	1.76	1.76	1.53	1.53	1.53	1.41		
120.0	121.15	121.15	115.63	113.40	110.70	108.83	106.36	104.60	102.49		
150.0	249.58	246.41	241.95	234.67	234.67	227.75	227.75	221.41	221.41		
180.0	297.83	293.72	289.61	285.62	281.87	274.35	274.35	267.31	263.79		
210.0	247.12	239.49	235.85	232.21	228.80	225.28	222.11	218.82	215.77		
240.0	120.92	114.93	114.93	109.53	106.36	104.95	102.13	100.73	98.26		
270.0	4.70	2.82	2.82	1.76	1.76	1.53	1.53	1.53	1.41		
300.0	121.15	121.15	115.63	113.40	110.70	108.83	106.36	104.60	102.49		
330.0	249.58	246.41	241.95	234.67	234.67	227.75	227.75	221.41	221.41		
360.0	297.83	293.72	289.61	285.62	281.87	274.35	274.35	267.31	263.79		
C/γ(°)	94.5	95.0	95.5	96.0	96.5	97.0	97.5	98.0	98.5		
0.0	260.38	257.10	253.93	247.94	247.94	245.00	242.07	236.67	234.09		
30.0	212.72	207.20	207.20	201.80	199.34	196.87	194.52	192.18	189.95		
60.0	96.97	95.80	95.80	90.75	88.99	87.93	86.52	85.58	84.29		
90.0	1.41	1.29	1.29	1.29	1.29	1.29	1.29	1.41	1.29		
120.0	99.20	99.20	96.03	96.03	93.45	92.39	90.98	89.93	88.75		
150.0	215.30	212.96	209.55	204.27	204.27	199.22	199.22	194.52	194.52		
180.0	260.38	257.10	253.93	247.94	247.94	245.00	242.07	236.67	234.09		
210.0	212.72	207.20	207.20	201.80	199.34	196.87	194.52	192.18	189.95		
240.0	96.97	95.80	95.80	90.75	88.99	87.93	86.52	85.58	84.29		
270.0	1.41	1.29	1.29	1.29	1.29	1.29	1.29	1.41	1.29		
300.0	99.20	99.20	96.03	96.03	93.45	92.39	90.98	89.93	88.75		
330.0	215.30	212.96	209.55	204.27	204.27	199.22	199.22	194.52	194.52		
360.0	260.38	257.10	253.93	247.94	247.94	245.00	242.07	236.67	234.09		
C/γ(°)	99.0	99.5	100.0	100.5	101.0	101.5	102.0	102.5	103.0		
0.0	231.62	229.04	226.57	224.23	221.99	219.76	217.65	213.19	213.19		
30.0	187.83	183.96	183.96	180.08	178.32	176.44	174.80	173.16	171.40		
60.0	83.35	81.36	81.36	79.36	79.36	77.60	76.54	75.72	74.78		
90.0	1.29	1.29	1.29	1.29	1.29	1.17	1.17	1.17	1.17		
120.0	87.69	86.64	84.64	84.64	82.65	81.82	80.77	79.95	79.01		
150.0	190.06	190.06	185.95	184.43	182.08	178.32	178.32	174.68	174.68		
180.0	231.62	229.04	226.57	224.23	221.99	219.76	217.65	213.19	213.19		
210.0	187.83	183.96	183.96	180.08	178.32	176.44	174.80	173.16	171.40		
240.0	83.35	81.36	81.36	79.36	79.36	77.60	76.54	75.72	74.78		
270.0	1.29	1.29	1.29	1.29	1.29	1.17	1.17	1.17	1.17		
300.0	87.69	86.64	84.64	84.64	82.65	81.82	80.77	79.95	79.01		
330.0	190.06	190.06	185.95	184.43	182.08	178.32	178.32	174.68	174.68		
360.0	231.62	229.04	226.57	224.23	221.99	219.76	217.65	213.19	213.19		
C/γ(°)	103.5	104.0	104.5	105.0	105.5	106.0	106.5	107.0	107.5		
0.0	209.32	207.44	205.56	203.56	201.80	199.92	198.16	196.29	194.64		
30.0	169.75	168.23	166.58	163.53	163.53	160.60	159.07	157.54	156.02		
60.0	74.08	73.14	72.32	70.67	70.67	69.26	69.26	67.74	66.92		
90.0	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17		
120.0	78.19	77.25	75.60	75.60	73.96	73.96	72.32	71.61	70.79		
150.0	171.28	171.28	168.11	168.11	164.82	163.41	161.77	158.72	158.72		
180.0	209.32	207.44	205.56	203.56	201.80	199.92	198.16	196.29	194.64		
210.0	169.75	168.23	166.58	163.53	163.53	160.60	159.07	157.54	156.02		
240.0	74.08	73.14	72.32	70.67	70.67	69.26	69.26	67.74	66.92		
270.0	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17		
300.0	78.19	77.25	75.60	75.60	73.96	73.96	72.32	71.61	70.79		
330.0	171.28	171.28	168.11	168.11	164.82	163.41	161.77	158.72	158.72		
360.0	209.32	207.44	205.56	203.56	201.80	199.92	198.16	196.29	194.64		

Intensity data(cd)										Appendix Page: 25 Total:29	
C/γ(°)	108.0	108.5	109.0	109.5	110.0	110.5	111.0	111.5	112.0		
0.0	191.00	191.00	187.48	185.72	183.84	182.20	180.55	178.68	177.03		
30.0	154.49	152.97	151.56	150.03	148.74	145.81	145.81	142.87	141.46		
60.0	66.33	65.51	64.80	64.22	63.51	62.22	61.52	60.93	60.22		
90.0	1.17	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29		
120.0	70.09	69.26	68.56	67.85	66.45	66.45	65.04	65.04	63.63		
150.0	155.67	155.67	152.73	152.73	149.80	148.39	146.86	144.04	144.04		
180.0	191.00	191.00	187.48	185.72	183.84	182.20	180.55	178.68	177.03		
210.0	154.49	152.97	151.56	150.03	148.74	145.81	145.81	142.87	141.46		
240.0	66.33	65.51	64.80	64.22	63.51	62.22	61.52	60.93	60.22		
270.0	1.17	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29		
300.0	70.09	69.26	68.56	67.85	66.45	66.45	65.04	65.04	63.63		
330.0	155.67	155.67	152.73	152.73	149.80	148.39	146.86	144.04	144.04		
360.0	191.00	191.00	187.48	185.72	183.84	182.20	180.55	178.68	177.03		
C/γ(°)	112.5	113.0	113.5	114.0	114.5	115.0	115.5	116.0	116.5		
0.0	175.27	173.63	170.22	168.46	166.82	165.18	163.53	161.89	160.24		
30.0	139.94	138.53	137.35	135.83	134.53	133.13	131.72	129.02	127.61		
60.0	59.64	59.05	58.46	57.88	57.29	56.00	56.00	54.82	54.82		
90.0	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41		
120.0	62.81	62.22	61.52	60.81	60.11	59.40	57.99	57.99	56.70		
150.0	141.11	141.11	138.41	138.41	135.59	135.59	132.77	131.37	129.96		
180.0	175.27	173.63	170.22	168.46	166.82	165.18	163.53	161.89	160.24		
210.0	139.94	138.53	137.35	135.83	134.53	133.13	131.72	129.02	127.61		
240.0	59.64	59.05	58.46	57.88	57.29	56.00	56.00	54.82	54.82		
270.0	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41		
300.0	62.81	62.22	61.52	60.81	60.11	59.40	57.99	57.99	56.70		
330.0	141.11	141.11	138.41	138.41	135.59	135.59	132.77	131.37	129.96		
360.0	175.27	173.63	170.22	168.46	166.82	165.18	163.53	161.89	160.24		
C/γ(°)	117.0	117.5	118.0	118.5	119.0	119.5	120.0	120.5	121.0		
0.0	158.48	156.96	153.67	153.67	150.38	148.74	147.21	145.57	144.04		
30.0	126.43	126.43	123.74	122.33	121.03	119.74	118.57	115.87	115.87		
60.0	53.42	52.71	52.12	51.30	50.83	50.13	49.66	48.60	48.60		
90.0	1.41	1.41	1.53	1.53	1.53	1.53	1.53	1.64	1.64		
120.0	56.00	55.41	54.82	54.24	53.65	53.06	52.01	52.01	50.71		
150.0	127.37	127.37	124.67	124.67	121.97	121.97	119.39	119.39	116.93		
180.0	158.48	156.96	153.67	153.67	150.38	148.74	147.21	145.57	144.04		
210.0	126.43	126.43	123.74	122.33	121.03	119.74	118.57	115.87	115.87		
240.0	53.42	52.71	52.12	51.30	50.83	50.13	49.66	48.60	48.60		
270.0	1.41	1.41	1.53	1.53	1.53	1.53	1.53	1.64	1.64		
300.0	56.00	55.41	54.82	54.24	53.65	53.06	52.01	52.01	50.71		
330.0	127.37	127.37	124.67	124.67	121.97	121.97	119.39	119.39	116.93		
360.0	158.48	156.96	153.67	153.67	150.38	148.74	147.21	145.57	144.04		
C/γ(°)	121.5	122.0	122.5	123.0	123.5	124.0	124.5	125.0	125.5		
0.0	142.40	140.87	139.23	137.70	134.53	134.53	131.48	129.84	128.43		
30.0	113.40	112.11	110.94	109.65	108.47	107.18	106.01	104.72	103.43		
60.0	47.55	47.55	46.49	46.02	45.55	45.08	44.49	43.91	43.44		
90.0	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64		
120.0	50.71	49.31	48.48	47.90	47.08	46.49	45.67	45.20	43.79		
150.0	114.23	114.23	111.76	111.76	109.29	109.29	106.83	106.83	104.36		
180.0	142.40	140.87	139.23	137.70	134.53	134.53	131.48	129.84	128.43		
210.0	113.40	112.11	110.94	109.65	108.47	107.18	106.01	104.72	103.43		
240.0	47.55	47.55	46.49	46.02	45.55	45.08	44.49	43.91	43.44		
270.0	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64		
300.0	50.71	49.31	48.48	47.90	47.08	46.49	45.67	45.20	43.79		
330.0	114.23	114.23	111.76	111.76	109.29	109.29	106.83	106.83	104.36		
360.0	142.40	140.87	139.23	137.70	134.53	134.53	131.48	129.84	128.43		

C/γ(°)	126.0	126.5	127.0	127.5	128.0	128.5	129.0	129.5	130.0
0.0	126.79	125.38	123.85	122.33	120.68	119.27	116.22	114.58	113.17
30.0	100.96	100.96	98.38	96.97	95.91	94.50	93.33	91.92	90.75
60.0	42.14	42.14	40.85	40.03	39.56	38.74	38.27	37.57	37.10
90.0	1.64	1.64	1.76	1.76	1.76	1.76	1.76	1.76	1.76
120.0	43.79	42.50	42.50	41.09	40.27	39.68	38.98	38.51	37.22
150.0	103.19	101.78	99.32	99.32	96.85	96.85	94.27	94.27	91.69
180.0	126.79	125.38	123.85	122.33	120.68	119.27	116.22	114.58	113.17
210.0	100.96	100.96	98.38	96.97	95.91	94.50	93.33	91.92	90.75
240.0	42.14	42.14	40.85	40.03	39.56	38.74	38.27	37.57	37.10
270.0	1.64	1.64	1.76	1.76	1.76	1.76	1.76	1.76	1.76
300.0	43.79	42.50	42.50	41.09	40.27	39.68	38.98	38.51	37.22
330.0	103.19	101.78	99.32	99.32	96.85	96.85	94.27	94.27	91.69
360.0	126.79	125.38	123.85	122.33	120.68	119.27	116.22	114.58	113.17
C/γ(°)	130.5	131.0	131.5	132.0	132.5	133.0	133.5	134.0	134.5
0.0	111.53	110.12	108.47	107.06	105.42	103.90	101.08	101.08	98.26
30.0	89.34	88.28	85.93	84.76	83.70	82.53	81.47	80.42	79.36
60.0	35.92	35.92	34.98	34.98	33.81	33.22	32.87	32.28	31.93
90.0	1.88	1.88	1.88	1.88	1.88	1.88	1.88	2.00	2.00
120.0	37.22	36.28	36.28	35.22	34.63	34.16	33.69	33.11	32.64
150.0	91.69	89.22	88.05	86.64	85.35	84.29	82.06	82.06	79.95
180.0	111.53	110.12	108.47	107.06	105.42	103.90	101.08	101.08	98.26
210.0	89.34	88.28	85.93	84.76	83.70	82.53	81.47	80.42	79.36
240.0	35.92	35.92	34.98	34.98	33.81	33.22	32.87	32.28	31.93
270.0	1.88	1.88	1.88	1.88	1.88	1.88	1.88	2.00	2.00
300.0	37.22	36.28	36.28	35.22	34.63	34.16	33.69	33.11	32.64
330.0	91.69	89.22	88.05	86.64	85.35	84.29	82.06	82.06	79.95
360.0	111.53	110.12	108.47	107.06	105.42	103.90	101.08	101.08	98.26
C/γ(°)	135.0	135.5	136.0	136.5	137.0	137.5	138.0	138.5	139.0
0.0	96.97	95.68	94.27	92.98	91.57	90.28	88.99	87.69	85.11
30.0	78.30	77.25	74.90	74.90	72.43	70.91	69.85	68.32	67.38
60.0	31.35	30.88	29.94	29.94	29.00	28.53	28.18	27.71	27.24
90.0	2.00	2.00	2.00	2.00	2.11	2.11	2.11	2.11	2.11
120.0	32.17	31.23	31.23	30.41	30.41	29.70	29.35	28.88	28.41
150.0	79.95	77.72	76.66	75.60	73.61	73.61	71.14	71.14	68.56
180.0	96.97	95.68	94.27	92.98	91.57	90.28	88.99	87.69	85.11
210.0	78.30	77.25	74.90	74.90	72.43	70.91	69.85	68.32	67.38
240.0	31.35	30.88	29.94	29.94	29.00	28.53	28.18	27.71	27.24
270.0	2.00	2.00	2.00	2.00	2.11	2.11	2.11	2.11	2.11
300.0	32.17	31.23	31.23	30.41	30.41	29.70	29.35	28.88	28.41
330.0	79.95	77.72	76.66	75.60	73.61	73.61	71.14	71.14	68.56
360.0	96.97	95.68	94.27	92.98	91.57	90.28	88.99	87.69	85.11
C/γ(°)	139.5	140.0	140.5	141.0	141.5	142.0	142.5	143.0	143.5
0.0	85.11	82.53	81.24	80.06	78.89	77.60	76.31	75.13	73.96
30.0	65.98	64.92	63.51	62.45	59.99	59.99	57.88	56.58	55.65
60.0	26.77	26.41	25.47	25.47	24.65	24.65	23.83	23.48	23.01
90.0	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23
120.0	27.94	27.47	27.12	26.30	26.30	25.47	25.12	24.65	24.30
150.0	68.56	65.98	65.98	63.39	62.34	60.81	58.35	58.35	55.88
180.0	85.11	82.53	81.24	80.06	78.89	77.60	76.31	75.13	73.96
210.0	65.98	64.92	63.51	62.45	59.99	59.99	57.88	56.58	55.65
240.0	26.77	26.41	25.47	25.47	24.65	24.65	23.83	23.48	23.01
270.0	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23
300.0	27.94	27.47	27.12	26.30	26.30	25.47	25.12	24.65	24.30
330.0	68.56	65.98	65.98	63.39	62.34	60.81	58.35	58.35	55.88
360.0	85.11	82.53	81.24	80.06	78.89	77.60	76.31	75.13	73.96

Intensity data(cd)										Appendix Page: 27 Total:29
C/γ(°)	144.0	144.5	145.0	145.5	146.0	146.5	147.0	147.5	148.0	
0.0	72.67	70.32	69.15	67.85	66.80	65.62	64.45	63.28	60.93	
30.0	54.35	53.30	52.24	51.18	50.13	49.19	47.19	46.14	45.32	
60.0	22.66	22.31	21.95	21.48	20.78	20.78	19.96	19.96	19.37	
90.0	2.23	2.23	2.23	2.23	2.35	2.35	2.35	2.35	2.47	
120.0	23.95	23.60	23.13	22.78	22.42	21.84	21.84	21.13	20.90	
150.0	55.88	53.53	53.53	51.18	51.18	49.07	48.13	46.96	44.96	
180.0	72.67	70.32	69.15	67.85	66.80	65.62	64.45	63.28	60.93	
210.0	54.35	53.30	52.24	51.18	50.13	49.19	47.19	46.14	45.32	
240.0	22.66	22.31	21.95	21.48	20.78	20.78	19.96	19.96	19.37	
270.0	2.23	2.23	2.23	2.23	2.35	2.35	2.35	2.35	2.47	
300.0	23.95	23.60	23.13	22.78	22.42	21.84	21.84	21.13	20.90	
330.0	55.88	53.53	53.53	51.18	51.18	49.07	48.13	46.96	44.96	
360.0	72.67	70.32	69.15	67.85	66.80	65.62	64.45	63.28	60.93	
C/γ(°)	148.5	149.0	149.5	150.0	150.5	151.0	151.5	152.0	152.5	
0.0	60.93	58.58	58.58	56.35	55.29	54.12	53.06	51.89	50.95	
30.0	41.44	40.50	40.50	39.56	39.56	38.74	37.80	37.80	36.04	
60.0	19.02	18.67	18.31	17.84	17.49	17.14	16.44	16.44	15.73	
90.0	2.47	2.47	2.47	2.58	2.58	2.58	2.70	2.70	2.70	
120.0	20.43	20.19	19.72	19.49	19.02	18.31	18.31	17.73	17.73	
150.0	44.96	42.97	42.97	41.09	41.09	39.21	38.39	37.33	35.57	
180.0	60.93	58.58	58.58	56.35	55.29	54.12	53.06	51.89	50.95	
210.0	41.44	40.50	40.50	39.56	39.56	38.74	37.80	37.80	36.04	
240.0	19.02	18.67	18.31	17.84	17.49	17.14	16.44	16.44	15.73	
270.0	2.47	2.47	2.47	2.58	2.58	2.58	2.70	2.70	2.70	
300.0	20.43	20.19	19.72	19.49	19.02	18.31	18.31	17.73	17.73	
330.0	44.96	42.97	42.97	41.09	41.09	39.21	38.39	37.33	35.57	
360.0	60.93	58.58	58.58	56.35	55.29	54.12	53.06	51.89	50.95	
C/γ(°)	153.0	153.5	154.0	154.5	155.0	155.5	156.0	156.5	157.0	
0.0	49.78	48.72	47.66	45.55	45.55	43.44	42.50	41.44	40.50	
30.0	35.22	34.28	33.58	32.64	31.93	30.99	30.52	29.70	28.29	
60.0	15.38	15.03	14.79	14.44	14.21	13.85	13.27	13.27	12.80	
90.0	2.70	2.70	2.82	2.82	2.94	2.94	2.94	2.94	3.05	
120.0	17.02	16.67	16.32	16.08	15.73	15.50	15.14	14.44	14.44	
150.0	35.57	33.81	33.81	32.05	32.05	30.41	30.41	28.76	27.94	
180.0	49.78	48.72	47.66	45.55	45.55	43.44	42.50	41.44	40.50	
210.0	35.22	34.28	33.58	32.64	31.93	30.99	30.52	29.70	28.29	
240.0	15.38	15.03	14.79	14.44	14.21	13.85	13.27	13.27	12.80	
270.0	2.70	2.70	2.82	2.82	2.94	2.94	2.94	2.94	3.05	
300.0	17.02	16.67	16.32	16.08	15.73	15.50	15.14	14.44	14.44	
330.0	35.57	33.81	33.81	32.05	32.05	30.41	30.41	28.76	27.94	
360.0	49.78	48.72	47.66	45.55	45.55	43.44	42.50	41.44	40.50	
C/γ(°)	157.5	158.0	158.5	159.0	159.5	160.0	160.5	161.0	161.5	
0.0	39.44	38.51	37.45	35.57	35.57	33.69	32.75	31.81	30.88	
30.0	28.29	26.77	25.71	25.01	25.01	24.18	24.18	22.78	22.07	
60.0	12.80	12.21	12.09	11.74	11.51	11.27	11.15	10.80	10.33	
90.0	3.05	3.05	3.05	3.17	3.17	3.17	3.17	3.29	3.29	
120.0	13.85	13.85	13.27	13.03	12.68	12.56	12.09	11.98	11.62	
150.0	27.35	26.06	26.06	24.77	24.77	23.60	23.60	22.31	22.31	
180.0	39.44	38.51	37.45	35.57	35.57	33.69	32.75	31.81	30.88	
210.0	28.29	26.77	25.71	25.01	25.01	24.18	24.18	22.78	22.07	
240.0	12.80	12.21	12.09	11.74	11.51	11.27	11.15	10.80	10.33	
270.0	3.05	3.05	3.05	3.17	3.17	3.17	3.17	3.29	3.29	
300.0	13.85	13.85	13.27	13.03	12.68	12.56	12.09	11.98	11.62	
330.0	27.35	26.06	26.06	24.77	24.77	23.60	23.60	22.31	22.31	
360.0	39.44	38.51	37.45	35.57	35.57	33.69	32.75	31.81	30.88	

Intensity data(cd)										Appendix Page: 28 Total:29	
C/γ(°)	162.0	162.5	163.0	163.5	164.0	164.5	165.0	165.5	166.0		
0.0	29.94	29.11	28.18	27.24	26.30	24.54	24.54	22.78	21.84		
30.0	21.37	20.08	19.49	18.67	18.20	17.37	16.90	16.08	15.61		
60.0	10.33	9.98	9.74	9.51	9.27	9.04	8.80	8.57	8.45		
90.0	3.29	3.29	3.29	3.29	3.41	3.41	3.41	3.41	3.41		
120.0	11.04	11.04	10.57	10.33	9.98	9.86	9.63	9.39	9.04		
150.0	21.13	20.54	19.84	18.55	18.55	17.14	17.14	15.85	15.85		
180.0	29.94	29.11	28.18	27.24	26.30	24.54	24.54	22.78	21.84		
210.0	21.37	20.08	19.49	18.67	18.20	17.37	16.90	16.08	15.61		
240.0	10.33	9.98	9.74	9.51	9.27	9.04	8.80	8.57	8.45		
270.0	3.29	3.29	3.29	3.29	3.41	3.41	3.41	3.41	3.41		
300.0	11.04	11.04	10.57	10.33	9.98	9.86	9.63	9.39	9.04		
330.0	21.13	20.54	19.84	18.55	18.55	17.14	17.14	15.85	15.85		
360.0	29.94	29.11	28.18	27.24	26.30	24.54	24.54	22.78	21.84		
C/γ(°)	166.5	167.0	167.5	168.0	168.5	169.0	169.5	170.0	170.5		
0.0	21.01	20.08	19.14	18.43	17.61	16.44	15.61	14.09	13.38		
30.0	15.03	13.97	13.97	12.91	12.56	11.86	11.86	10.80	10.45		
60.0	8.22	7.87	7.87	7.40	7.16	6.93	6.81	6.34	6.22		
90.0	3.41	3.41	3.41	3.52	3.52	3.52	3.52	3.52	3.52		
120.0	8.69	8.69	8.22	8.22	7.63	7.51	7.28	7.28	6.81		
150.0	14.67	13.97	13.38	12.44	12.44	11.39	11.39	10.45	10.45		
180.0	21.01	20.08	19.14	18.43	17.61	16.44	15.61	14.09	13.38		
210.0	15.03	13.97	13.97	12.91	12.56	11.86	11.86	10.80	10.45		
240.0	8.22	7.87	7.87	7.40	7.16	6.93	6.81	6.34	6.22		
270.0	3.41	3.41	3.41	3.52	3.52	3.52	3.52	3.52	3.52		
300.0	8.69	8.69	8.22	8.22	7.63	7.51	7.28	7.28	6.81		
330.0	14.67	13.97	13.38	12.44	12.44	11.39	11.39	10.45	10.45		
360.0	21.01	20.08	19.14	18.43	17.61	16.44	15.61	14.09	13.38		
C/γ(°)	171.0	171.5	172.0	172.5	173.0	173.5	174.0	174.5	175.0		
0.0	12.68	12.09	11.39	10.80	10.21	9.63	8.92	6.34	6.34		
30.0	9.98	9.63	9.04	8.22	8.22	7.40	7.04	6.57	6.22		
60.0	6.11	5.75	5.75	5.40	5.40	5.28	5.05	5.05	4.81		
90.0	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52		
120.0	6.57	6.34	5.87	5.87	5.52	5.52	5.05	4.93	4.69		
150.0	9.63	9.16	8.69	8.22	7.87	7.04	7.04	6.11	6.11		
180.0	12.68	12.09	11.39	10.80	10.21	9.63	8.92	6.34	6.34		
210.0	9.98	9.63	9.04	8.22	8.22	7.40	7.04	6.57	6.22		
240.0	6.11	5.75	5.75	5.40	5.40	5.28	5.05	5.05	4.81		
270.0	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52		
300.0	6.57	6.34	5.87	5.87	5.52	5.52	5.05	4.93	4.69		
330.0	9.63	9.16	8.69	8.22	7.87	7.04	7.04	6.11	6.11		
360.0	12.68	12.09	11.39	10.80	10.21	9.63	8.92	6.34	6.34		
C/γ(°)	175.5	176.0	176.5	177.0	177.5	178.0	178.5	179.0	179.5		
0.0	5.64	5.52	5.05	4.81	4.34	4.23	3.29	3.17	2.94		
30.0	5.87	5.52	5.05	4.70	4.23	3.52	3.52	3.52	3.52		
60.0	4.81	4.70	4.70	4.58	4.58	4.46	4.46	4.23	4.11		
90.0	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52		
120.0	4.58	4.11	3.76	3.64	3.52	3.52	3.52	3.52	3.52		
150.0	5.64	5.64	5.17	5.17	4.69	4.81	4.58	4.23	4.23		
180.0	5.64	5.52	5.05	4.81	4.34	4.23	3.29	3.17	2.94		
210.0	5.87	5.52	5.05	4.70	4.23	3.52	3.52	3.52	3.52		
240.0	4.81	4.70	4.70	4.58	4.58	4.46	4.46	4.23	4.11		
270.0	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52		
300.0	4.58	4.11	3.76	3.64	3.52	3.52	3.52	3.52	3.52		
330.0	5.64	5.64	5.17	5.17	4.69	4.81	4.58	4.23	4.23		
360.0	5.64	5.52	5.05	4.81	4.34	4.23	3.29	3.17	2.94		

Intensity data(cd)

Appendix Page: 29 Total:29

C/γ(°)	180.0
0.0	2.94
30.0	3.64
60.0	3.99
90.0	3.52
120.0	3.52
150.0	3.64
180.0	2.94
210.0	3.64
240.0	3.99
270.0	3.52
300.0	3.52
330.0	3.64
360.0	2.94