

Report No	:	Voltage	:	V
Test No	:	Current	:	A
LumCAT	:	Power	:	50.000 W
Luminaire	:		:	
LampCAT	:	Ballast type	:	
Lamp flux	:	Width	:	60 mm
Number of Lamps	:	Length	:	1464 mm
Phm Type	:	Height	:	26 mm

Photometric Results

Lumens(lm)	:	6250.00	Central intensity(cd)	:	1671.139
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	1673.768
Luminous Efficacy(lm/W)	:	125.00	Angle of maximum intensity	:	C=60.0 γ =1.0
Beam Angle(50%Imax)	:	[C0/180]Total=134.4 [C90/270]Total=109.4			
Field angle(10%Imax)	:	[C0/180]Total=254.6 [C90/270]Total=158.6			
Maximum s/h(1/2)	:	C0_180=1.33 C90_270=1.23			
Maximum s/h(1/4)	:	C0_180=1.47 C90_270=1.35			
Up flux rate of lamp(%)	:	11.45%			
Down flux rate of lamp(%)	:	88.55%			
Up flux rate of LUM(%)	:	11.45%			
Down flux rate of LUM(%)	:	88.55%			
CIE Type	:	Semidirect lighting			
Output flux ratio in π solid angle :	:	62.959%			

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	1671.139	0.000	0	0.00%	0.00%
0.5	1671.139	0.400	0.4	0.01%	0.01%
1.0	1672.111	1.200	1.6	0.02%	0.03%
1.5	1671.768	2.000	3.599	0.03%	0.06%
2.0	1671.235	2.799	6.398	0.04%	0.10%
2.5	1670.797	3.597	9.995	0.06%	0.16%
3.0	1669.768	4.394	14.389	0.07%	0.23%
3.5	1669.006	5.189	19.579	0.08%	0.31%
4.0	1667.844	5.983	25.562	0.10%	0.41%
4.5	1666.891	6.775	32.337	0.11%	0.52%
5.0	1665.196	7.565	39.902	0.12%	0.64%
5.5	1663.881	8.351	48.253	0.13%	0.77%
6.0	1662.167	9.136	57.389	0.15%	0.92%
6.5	1660.452	9.917	67.305	0.16%	1.08%
7.0	1659.004	10.696	78.002	0.17%	1.25%
7.5	1656.642	11.471	89.473	0.18%	1.43%
8.0	1654.794	12.242	101.716	0.20%	1.63%
8.5	1652.336	13.010	114.726	0.21%	1.84%
9.0	1650.641	13.775	128.501	0.22%	2.06%
9.5	1647.974	14.536	143.037	0.23%	2.29%
10.0	1645.611	15.291	158.329	0.24%	2.53%
10.5	1642.544	16.041	174.37	0.26%	2.79%
11.0	1639.953	16.786	191.155	0.27%	3.06%
11.5	1636.886	17.526	208.681	0.28%	3.34%
12.0	1633.209	18.257	226.938	0.29%	3.63%
12.5	1630.733	18.986	245.924	0.30%	3.93%
13.0	1626.618	19.709	265.633	0.32%	4.25%
13.5	1623.951	20.425	286.058	0.33%	4.58%
14.0	1619.721	21.137	307.195	0.34%	4.92%
14.5	1616.235	21.838	329.033	0.35%	5.26%
15.0	1612.444	22.536	351.569	0.36%	5.63%
15.5	1608.367	23.226	374.795	0.37%	6.00%
16.0	1603.833	23.904	398.699	0.38%	6.38%
16.5	1599.280	24.573	423.272	0.39%	6.77%
17.0	1595.908	25.245	448.517	0.40%	7.18%
17.5	1591.278	25.911	474.428	0.41%	7.59%
18.0	1586.972	26.564	500.992	0.43%	8.02%
18.5	1581.162	27.200	528.192	0.44%	8.45%

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	1577.257	27.833	556.026	0.45%	8.90%
19.5	1571.332	28.459	584.485	0.46%	9.35%
20.0	1565.846	29.063	613.548	0.47%	9.82%
20.5	1560.912	29.670	643.218	0.47%	10.29%
21.0	1555.558	30.270	673.488	0.48%	10.78%
21.5	1550.262	30.861	704.349	0.49%	11.27%
22.0	1544.299	31.438	735.786	0.50%	11.77%
22.5	1539.307	32.010	767.797	0.51%	12.28%
23.0	1532.983	32.572	800.369	0.52%	12.81%
23.5	1527.420	33.120	833.489	0.53%	13.34%
24.0	1520.238	33.651	867.14	0.54%	13.87%
24.5	1515.703	34.185	901.324	0.55%	14.42%
25.0	1508.960	34.716	936.041	0.56%	14.98%
25.5	1502.083	35.213	971.254	0.56%	15.54%
26.0	1496.024	35.709	1006.963	0.57%	16.11%
26.5	1489.280	36.198	1043.161	0.58%	16.69%
27.0	1482.803	36.675	1079.836	0.59%	17.28%
27.5	1474.554	37.123	1116.959	0.59%	17.87%
28.0	1469.296	37.578	1154.537	0.60%	18.47%
28.5	1460.609	38.019	1192.556	0.61%	19.08%
29.0	1455.065	38.448	1231.004	0.62%	19.70%
29.5	1446.378	38.867	1269.871	0.62%	20.32%
30.0	1439.577	39.261	1309.132	0.63%	20.95%
30.5	1431.727	39.656	1348.788	0.63%	21.58%
31.0	1425.022	40.044	1388.832	0.64%	22.22%
31.5	1416.525	40.414	1429.246	0.65%	22.87%
32.0	1408.371	40.753	1469.999	0.65%	23.52%
32.5	1402.389	41.119	1511.118	0.66%	24.18%
33.0	1392.864	41.457	1552.575	0.66%	24.84%
33.5	1386.730	41.782	1594.357	0.67%	25.51%
34.0	1375.623	42.074	1636.431	0.67%	26.18%
34.5	1370.403	42.370	1678.801	0.68%	26.86%
35.0	1360.534	42.676	1721.476	0.68%	27.54%
35.5	1354.152	42.954	1764.43	0.69%	28.23%
36.0	1342.912	43.200	1807.63	0.69%	28.92%
36.5	1335.521	43.420	1851.051	0.69%	29.62%
37.0	1327.367	43.680	1894.731	0.70%	30.32%
37.5	1314.012	43.832	1938.563	0.70%	31.02%

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	1311.288	44.064	1982.627	0.71%	31.72%
38.5	1299.286	44.309	2026.935	0.71%	32.43%
39.0	1292.409	44.473	2071.409	0.71%	33.14%
39.5	1280.140	44.623	2116.032	0.71%	33.86%
40.0	1274.806	44.790	2160.822	0.72%	34.57%
40.5	1263.508	44.963	2205.785	0.72%	35.29%
41.0	1255.088	45.072	2250.857	0.72%	36.01%
41.5	1244.934	45.191	2296.048	0.72%	36.74%
42.0	1235.122	45.275	2341.323	0.72%	37.46%
42.5	1226.417	45.374	2386.697	0.73%	38.19%
43.0	1214.701	45.428	2432.125	0.73%	38.91%
43.5	1208.890	45.526	2477.651	0.73%	39.64%
44.0	1195.440	45.582	2523.233	0.73%	40.37%
44.5	1189.515	45.625	2568.858	0.73%	41.10%
45.0	1176.027	45.657	2614.515	0.73%	41.83%
45.5	1168.407	45.646	2660.161	0.73%	42.56%
46.0	1156.157	45.649	2705.81	0.73%	43.29%
46.5	1148.689	45.645	2751.455	0.73%	44.02%
47.0	1137.850	45.659	2797.115	0.73%	44.75%
47.5	1125.371	45.563	2842.677	0.73%	45.48%
48.0	1119.275	45.552	2888.229	0.73%	46.21%
48.5	1105.253	45.499	2933.728	0.73%	46.94%
49.0	1095.614	45.364	2979.093	0.73%	47.67%
49.5	1083.155	45.251	3024.343	0.72%	48.39%
50.0	1078.296	45.227	3069.57	0.72%	49.11%
50.5	1063.856	45.153	3114.723	0.72%	49.84%
51.0	1055.817	45.001	3159.724	0.72%	50.56%
51.5	1042.824	44.871	3204.595	0.72%	51.27%
52.0	1033.260	44.698	3249.293	0.72%	51.99%
52.5	1024.877	44.615	3293.908	0.71%	52.70%
53.0	1008.494	44.374	3338.281	0.71%	53.41%
53.5	1003.465	44.196	3382.478	0.71%	54.12%
54.0	986.871	44.004	3426.482	0.70%	54.82%
54.5	980.242	43.768	3470.25	0.70%	55.52%
55.0	965.096	43.553	3513.803	0.70%	56.22%
55.5	958.562	43.332	3557.135	0.69%	56.91%
56.0	944.903	43.135	3600.27	0.69%	57.60%
56.5	934.749	42.847	3643.117	0.69%	58.29%

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	922.632	42.585	3685.702	0.68%	58.97%
57.5	910.820	42.275	3727.976	0.68%	59.65%
58.0	902.076	42.034	3770.01	0.67%	60.32%
58.5	886.531	41.697	3811.708	0.67%	60.99%
59.0	879.711	41.397	3853.105	0.66%	61.65%
59.5	863.955	41.083	3894.187	0.66%	62.31%
60.0	857.097	40.759	3934.946	0.65%	62.96%
60.5	841.304	40.425	3975.371	0.65%	63.61%
61.0	832.445	40.036	4015.407	0.64%	64.25%
61.5	818.386	39.679	4055.087	0.63%	64.88%
62.0	809.737	39.319	4094.406	0.63%	65.51%
62.5	795.011	38.935	4133.341	0.62%	66.13%
63.0	782.799	38.456	4171.796	0.62%	66.75%
63.5	775.845	38.158	4209.954	0.61%	67.36%
64.0	761.824	37.809	4247.763	0.60%	67.96%
64.5	750.870	37.353	4285.116	0.60%	68.56%
65.0	734.734	36.837	4321.953	0.59%	69.15%
65.5	728.466	36.430	4358.383	0.58%	69.73%
66.0	712.235	36.012	4394.395	0.58%	70.31%
66.5	705.110	35.566	4429.961	0.57%	70.88%
67.0	688.897	35.114	4465.075	0.56%	71.44%
67.5	678.305	34.566	4499.641	0.55%	71.99%
68.0	667.293	34.143	4533.785	0.55%	72.54%
68.5	652.891	33.617	4567.402	0.54%	73.08%
69.0	643.976	33.137	4600.539	0.53%	73.61%
69.5	629.459	32.647	4633.186	0.52%	74.13%
70.0	622.372	32.198	4665.384	0.52%	74.65%
70.5	604.350	31.653	4697.037	0.51%	75.15%
71.0	599.206	31.151	4728.188	0.50%	75.65%
71.5	580.993	30.639	4758.827	0.49%	76.14%
72.0	573.964	30.071	4788.898	0.48%	76.62%
72.5	559.618	29.598	4818.496	0.47%	77.10%
73.0	549.064	29.028	4847.524	0.46%	77.56%
73.5	538.396	28.548	4876.072	0.46%	78.02%
74.0	524.374	27.972	4904.044	0.45%	78.46%
74.5	514.087	27.401	4931.445	0.44%	78.90%
75.0	499.913	26.820	4958.266	0.43%	79.33%
75.5	494.941	26.376	4984.641	0.42%	79.75%

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	477.776	25.847	5010.488	0.41%	80.17%
76.5	470.861	25.262	5035.75	0.40%	80.57%
77.0	455.906	24.731	5060.482	0.40%	80.97%
77.5	447.676	24.161	5084.643	0.39%	81.35%
78.0	436.169	23.679	5108.322	0.38%	81.73%
78.5	424.548	23.102	5131.425	0.37%	82.10%
79.0	416.852	22.624	5154.049	0.36%	82.46%
79.5	404.202	22.115	5176.164	0.35%	82.82%
80.0	396.600	21.604	5197.768	0.35%	83.16%
80.5	381.379	21.021	5218.788	0.34%	83.50%
81.0	376.940	20.519	5239.307	0.33%	83.83%
81.5	363.681	20.068	5259.376	0.32%	84.15%
82.0	357.584	19.569	5278.945	0.31%	84.46%
82.5	345.392	19.096	5298.041	0.31%	84.77%
83.0	336.781	18.553	5316.594	0.30%	85.07%
83.5	329.313	18.135	5334.728	0.29%	85.36%
84.0	318.930	17.666	5352.395	0.28%	85.64%
84.5	312.738	17.230	5369.625	0.28%	85.91%
85.0	302.851	16.806	5386.431	0.27%	86.18%
85.5	298.431	16.428	5402.859	0.26%	86.45%
86.0	287.230	16.012	5418.871	0.26%	86.70%
86.5	282.657	15.590	5434.461	0.25%	86.95%
87.0	273.798	15.231	5449.692	0.24%	87.20%
87.5	269.207	14.870	5464.562	0.24%	87.43%
88.0	262.349	14.562	5479.123	0.23%	87.67%
88.5	256.101	14.207	5493.33	0.23%	87.89%
89.0	251.967	13.926	5507.256	0.22%	88.12%
89.5	244.537	13.611	5520.867	0.22%	88.33%
90.0	241.470	13.324	5534.19	0.21%	88.55%
90.5	235.068	13.064	5547.255	0.21%	88.76%
91.0	232.801	12.826	5560.081	0.21%	88.96%
91.5	226.305	12.584	5572.664	0.20%	89.16%
92.0	223.752	12.333	5584.997	0.20%	89.36%
92.5	218.666	12.120	5597.117	0.19%	89.55%
93.0	215.293	11.883	5609	0.19%	89.74%
93.5	212.188	11.701	5620.701	0.19%	89.93%
94.0	208.530	11.510	5632.21	0.18%	90.12%
94.5	206.092	11.336	5643.546	0.18%	90.30%

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	202.149	11.154	5654.7	0.18%	90.48%
95.5	199.824	10.974	5665.674	0.18%	90.65%
96.0	195.538	10.784	5676.458	0.17%	90.82%
96.5	193.804	10.611	5687.069	0.17%	90.99%
97.0	190.661	10.467	5697.536	0.17%	91.16%
97.5	189.023	10.326	5707.862	0.17%	91.33%
98.0	185.879	10.184	5718.046	0.16%	91.49%
98.5	183.231	10.015	5728.061	0.16%	91.65%
99.0	181.592	9.885	5737.946	0.16%	91.81%
99.5	179.154	9.761	5747.708	0.16%	91.96%
100.0	177.020	9.624	5757.332	0.15%	92.12%
100.5	174.334	9.479	5766.81	0.15%	92.27%
101.0	173.248	9.362	5776.172	0.15%	92.42%
101.5	170.448	9.242	5785.414	0.15%	92.57%
102.0	168.981	9.111	5794.524	0.15%	92.71%
102.5	166.561	8.990	5803.514	0.14%	92.86%
103.0	165.247	8.872	5812.386	0.14%	93.00%
103.5	163.132	8.763	5821.149	0.14%	93.14%
104.0	161.227	8.638	5829.787	0.14%	93.28%
104.5	159.875	8.532	5838.319	0.14%	93.41%
105.0	157.627	8.418	5846.737	0.13%	93.55%
105.5	156.350	8.305	5855.042	0.13%	93.68%
106.0	154.140	8.193	5863.234	0.13%	93.81%
106.5	153.226	8.090	5871.324	0.13%	93.94%
107.0	150.730	7.980	5879.304	0.13%	94.07%
107.5	149.739	7.867	5887.171	0.13%	94.19%
108.0	147.568	7.763	5894.934	0.12%	94.32%
108.5	146.025	7.644	5902.578	0.12%	94.44%
109.0	144.386	7.539	5910.117	0.12%	94.56%
109.5	142.748	7.432	5917.549	0.12%	94.68%
110.0	141.891	7.344	5924.893	0.12%	94.80%
110.5	139.852	7.247	5932.14	0.12%	94.91%
111.0	138.671	7.141	5939.28	0.11%	95.03%
111.5	136.347	7.027	5946.307	0.11%	95.14%
112.0	135.109	6.912	5953.22	0.11%	95.25%
112.5	133.604	6.818	5960.038	0.11%	95.36%
113.0	132.365	6.724	5966.762	0.11%	95.47%
113.5	130.708	6.627	5973.389	0.11%	95.57%

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	128.784	6.512	5979.901	0.10%	95.68%
114.5	128.022	6.419	5986.32	0.10%	95.78%
115.0	125.735	6.318	5992.638	0.10%	95.88%
115.5	125.031	6.218	5998.856	0.10%	95.98%
116.0	122.783	6.119	6004.975	0.10%	96.08%
116.5	122.040	6.020	6010.995	0.10%	96.18%
117.0	120.230	5.931	6016.926	0.09%	96.27%
117.5	119.049	5.832	6022.758	0.09%	96.36%
118.0	117.506	5.739	6028.497	0.09%	96.46%
118.5	116.172	5.643	6034.14	0.09%	96.55%
119.0	114.934	5.555	6039.695	0.09%	96.64%
119.5	113.200	5.457	6045.152	0.09%	96.72%
120.0	112.438	5.371	6050.523	0.09%	96.81%
120.5	110.286	5.275	6055.797	0.08%	96.89%
121.0	109.523	5.179	6060.976	0.08%	96.98%
121.5	107.504	5.087	6066.063	0.08%	97.06%
122.0	106.685	4.993	6071.056	0.08%	97.14%
122.5	105.065	4.910	6075.966	0.08%	97.22%
123.0	103.903	4.818	6080.784	0.08%	97.29%
123.5	102.456	4.731	6085.516	0.08%	97.37%
124.0	100.569	4.628	6090.143	0.07%	97.44%
124.5	99.655	4.537	6094.681	0.07%	97.51%
125.0	98.150	4.456	6099.137	0.07%	97.59%
125.5	97.426	4.379	6103.515	0.07%	97.66%
126.0	95.559	4.294	6107.809	0.07%	97.72%
126.5	94.454	4.201	6112.01	0.07%	97.79%
127.0	92.759	4.112	6116.123	0.07%	97.86%
127.5	91.406	4.019	6120.142	0.06%	97.92%
128.0	90.434	3.942	6124.083	0.06%	97.99%
128.5	88.834	3.860	6127.943	0.06%	98.05%
129.0	87.958	3.780	6131.723	0.06%	98.11%
129.5	86.300	3.700	6135.422	0.06%	98.17%
130.0	85.596	3.623	6139.046	0.06%	98.22%
130.5	83.729	3.543	6142.589	0.06%	98.28%
131.0	83.062	3.464	6146.053	0.06%	98.34%
131.5	81.404	3.390	6149.443	0.05%	98.39%
132.0	80.490	3.311	6152.754	0.05%	98.44%
132.5	79.175	3.240	6155.994	0.05%	98.50%

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	77.937	3.163	6159.157	0.05%	98.55%
133.5	76.889	3.092	6162.249	0.05%	98.60%
134.0	75.403	3.016	6165.265	0.05%	98.64%
134.5	74.584	2.945	6168.21	0.05%	98.69%
135.0	73.003	2.874	6171.084	0.05%	98.74%
135.5	72.412	2.807	6173.89	0.04%	98.78%
136.0	70.622	2.736	6176.627	0.04%	98.83%
136.5	70.012	2.666	6179.293	0.04%	98.87%
137.0	68.488	2.602	6181.895	0.04%	98.91%
137.5	67.650	2.533	6184.428	0.04%	98.95%
138.0	66.354	2.470	6186.898	0.04%	98.99%
138.5	65.154	2.401	6189.299	0.04%	99.03%
139.0	64.163	2.338	6191.636	0.04%	99.07%
139.5	62.506	2.267	6193.903	0.04%	99.10%
140.0	61.972	2.205	6196.108	0.04%	99.14%
140.5	60.163	2.141	6198.249	0.03%	99.17%
141.0	59.858	2.082	6200.331	0.03%	99.21%
141.5	58.105	2.024	6202.355	0.03%	99.24%
142.0	57.439	1.961	6204.317	0.03%	99.27%
142.5	56.295	1.909	6206.225	0.03%	99.30%
143.0	54.866	1.845	6208.07	0.03%	99.33%
143.5	54.066	1.787	6209.857	0.03%	99.36%
144.0	52.657	1.730	6211.587	0.03%	99.39%
144.5	51.990	1.676	6213.263	0.03%	99.41%
145.0	50.504	1.622	6214.885	0.03%	99.44%
145.5	50.008	1.571	6216.456	0.03%	99.46%
146.0	48.389	1.518	6217.974	0.02%	99.49%
146.5	47.837	1.466	6219.439	0.02%	99.51%
147.0	46.427	1.417	6220.856	0.02%	99.53%
147.5	45.455	1.363	6222.219	0.02%	99.56%
148.0	44.655	1.318	6223.537	0.02%	99.58%
148.5	43.627	1.274	6224.811	0.02%	99.60%
149.0	42.750	1.228	6226.039	0.02%	99.62%
149.5	41.626	1.183	6227.222	0.02%	99.64%
150.0	40.959	1.141	6228.363	0.02%	99.65%
150.5	39.797	1.099	6229.461	0.02%	99.67%
151.0	39.321	1.060	6230.521	0.02%	99.69%
151.5	37.949	1.019	6231.54	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	37.416	0.978	6232.518	0.02%	99.72%
152.5	36.311	0.941	6233.459	0.02%	99.74%
153.0	35.701	0.904	6234.363	0.01%	99.75%
153.5	34.806	0.870	6235.233	0.01%	99.76%
154.0	34.139	0.836	6236.069	0.01%	99.78%
154.5	33.206	0.802	6236.871	0.01%	99.79%
155.0	32.177	0.765	6237.636	0.01%	99.80%
155.5	31.758	0.734	6238.37	0.01%	99.81%
156.0	30.615	0.702	6239.072	0.01%	99.83%
156.5	30.443	0.674	6239.746	0.01%	99.84%
157.0	29.300	0.647	6240.393	0.01%	99.85%
157.5	28.900	0.617	6241.01	0.01%	99.86%
158.0	27.852	0.589	6241.599	0.01%	99.87%
158.5	27.148	0.559	6242.158	0.01%	99.87%
159.0	26.576	0.534	6242.692	0.01%	99.88%
159.5	25.700	0.508	6243.199	0.01%	99.89%
160.0	25.166	0.483	6243.682	0.01%	99.90%
160.5	24.233	0.458	6244.14	0.01%	99.91%
161.0	23.908	0.435	6244.575	0.01%	99.91%
161.5	22.823	0.412	6244.987	0.01%	99.92%
162.0	22.518	0.389	6245.376	0.01%	99.93%
162.5	21.508	0.368	6245.744	0.01%	99.93%
163.0	21.032	0.346	6246.09	0.01%	99.94%
163.5	20.308	0.327	6246.416	0.01%	99.94%
164.0	19.641	0.306	6246.723	0.00%	99.95%
164.5	18.994	0.288	6247.01	0.00%	99.95%
165.0	18.213	0.268	6247.279	0.00%	99.96%
165.5	17.889	0.252	6247.531	0.00%	99.96%
166.0	17.108	0.236	6247.767	0.00%	99.96%
166.5	16.765	0.221	6247.987	0.00%	99.97%
167.0	15.698	0.204	6248.191	0.00%	99.97%
167.5	15.374	0.188	6248.379	0.00%	99.97%
168.0	14.536	0.174	6248.553	0.00%	99.98%
168.5	13.907	0.159	6248.712	0.00%	99.98%
169.0	13.488	0.147	6248.859	0.00%	99.98%
169.5	12.936	0.135	6248.994	0.00%	99.98%
170.0	12.478	0.124	6249.118	0.00%	99.99%
170.5	11.755	0.113	6249.23	0.00%	99.99%

Zonal flux distribution table

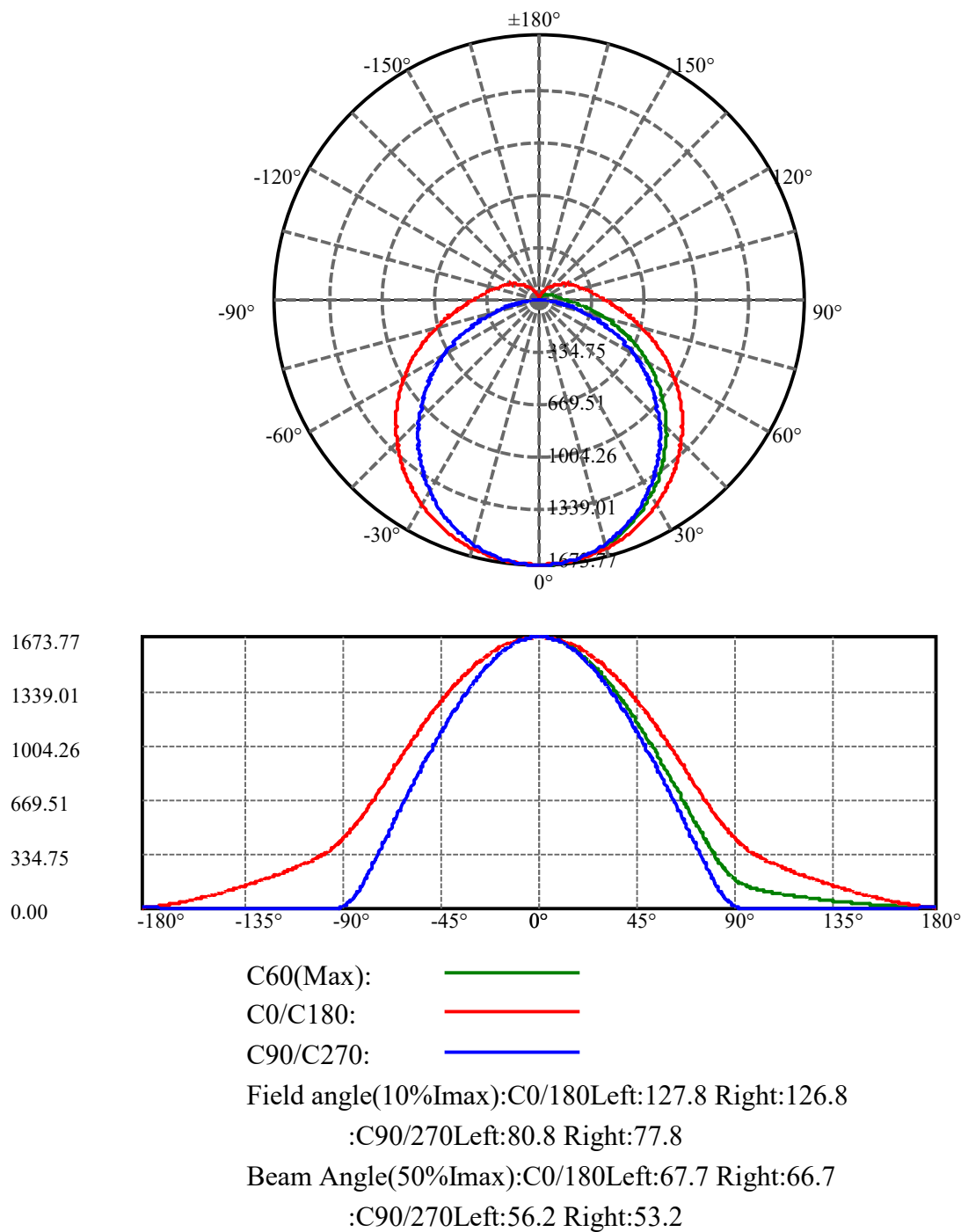
Appendix Page: 11 Total:29

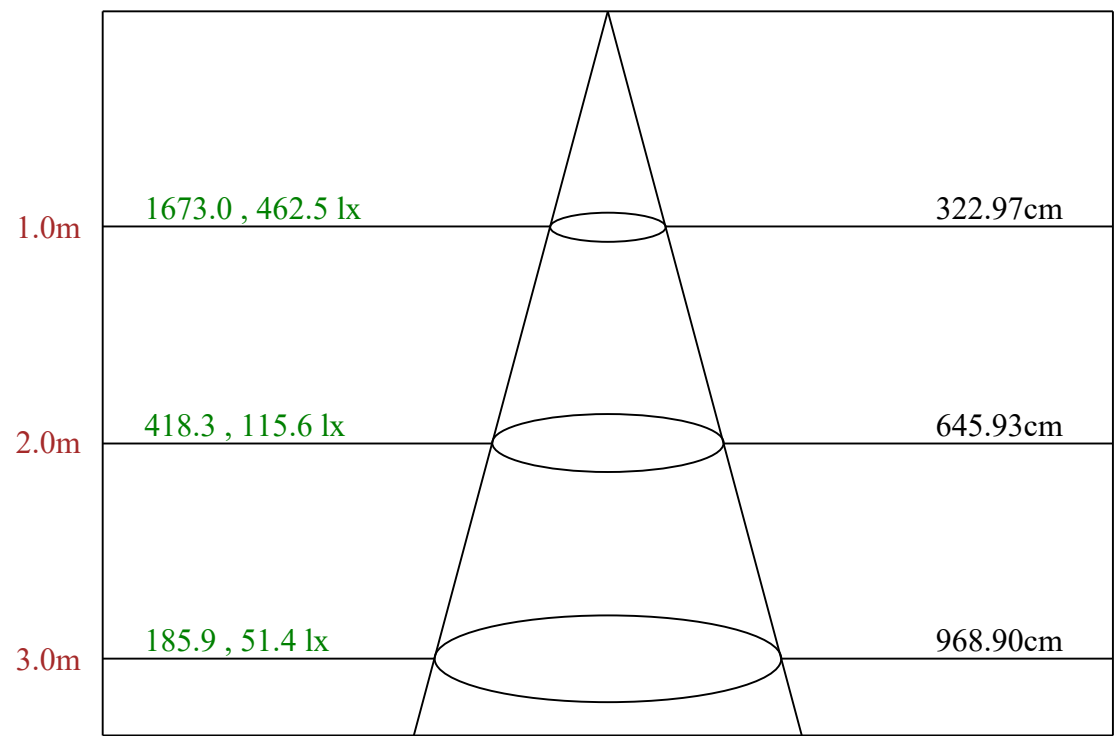
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
171.0	11.488	0.102	6249.333	0.00%	99.99%
171.5	10.669	0.092	6249.425	0.00%	99.99%
172.0	10.440	0.083	6249.508	0.00%	99.99%
172.5	9.754	0.075	6249.583	0.00%	99.99%
173.0	9.430	0.066	6249.649	0.00%	99.99%
173.5	8.935	0.059	6249.708	0.00%	100.00%
174.0	8.421	0.052	6249.76	0.00%	100.00%
174.5	8.040	0.045	6249.805	0.00%	100.00%
175.0	7.544	0.039	6249.845	0.00%	100.00%
175.5	7.258	0.034	6249.878	0.00%	100.00%
176.0	6.668	0.028	6249.906	0.00%	100.00%
176.5	6.535	0.024	6249.93	0.00%	100.00%
177.0	6.153	0.020	6249.95	0.00%	100.00%
177.5	6.077	0.016	6249.966	0.00%	100.00%
178.0	5.696	0.013	6249.979	0.00%	100.00%
178.5	5.658	0.010	6249.988	0.00%	100.00%
179.0	5.296	0.007	6249.995	0.00%	100.00%
179.5	5.201	0.004	6249.998	0.00%	100.00%
180.0	5.068	0.001	6250	0.00%	100.00%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1309.13	20.95%	20.95%
0-40	2160.82	34.57%	34.57%
0-60	3934.95	62.96%	62.96%
0-90	5534.19	88.55%	88.55%
0-120	6050.52	96.81%	96.81%
0-180	6250.00	100.00%	100.00%
60-90	1599.24	25.59%	25.59%
90-120	516.33	8.26%	8.26%
90-130	604.86	9.68%	9.68%
90-150	694.17	11.11%	11.11%
90-180	715.81	11.45%	11.45%
0-75.80	5000.00	80.00%	80.00%

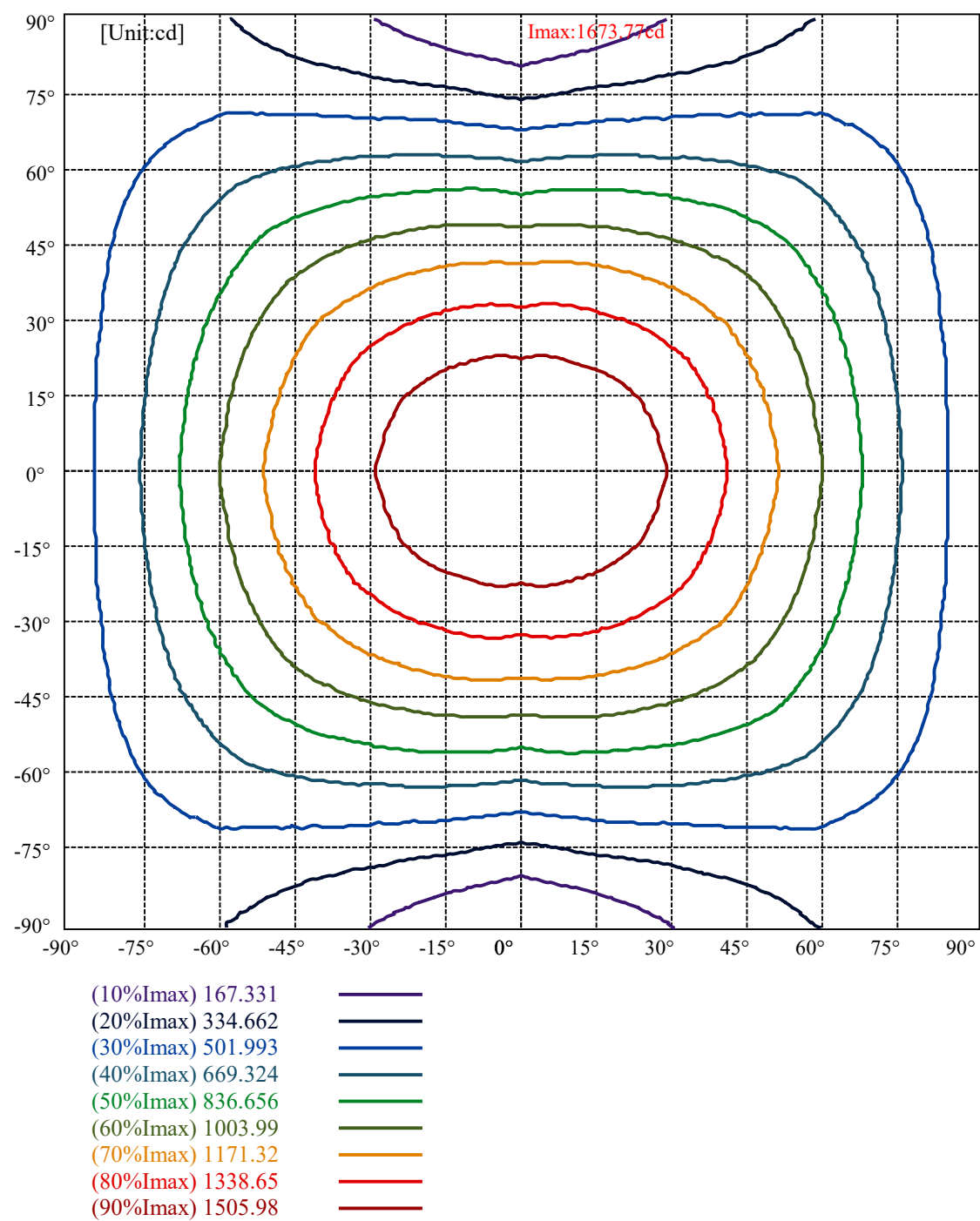
ZONAL LUMEN SUMMARY

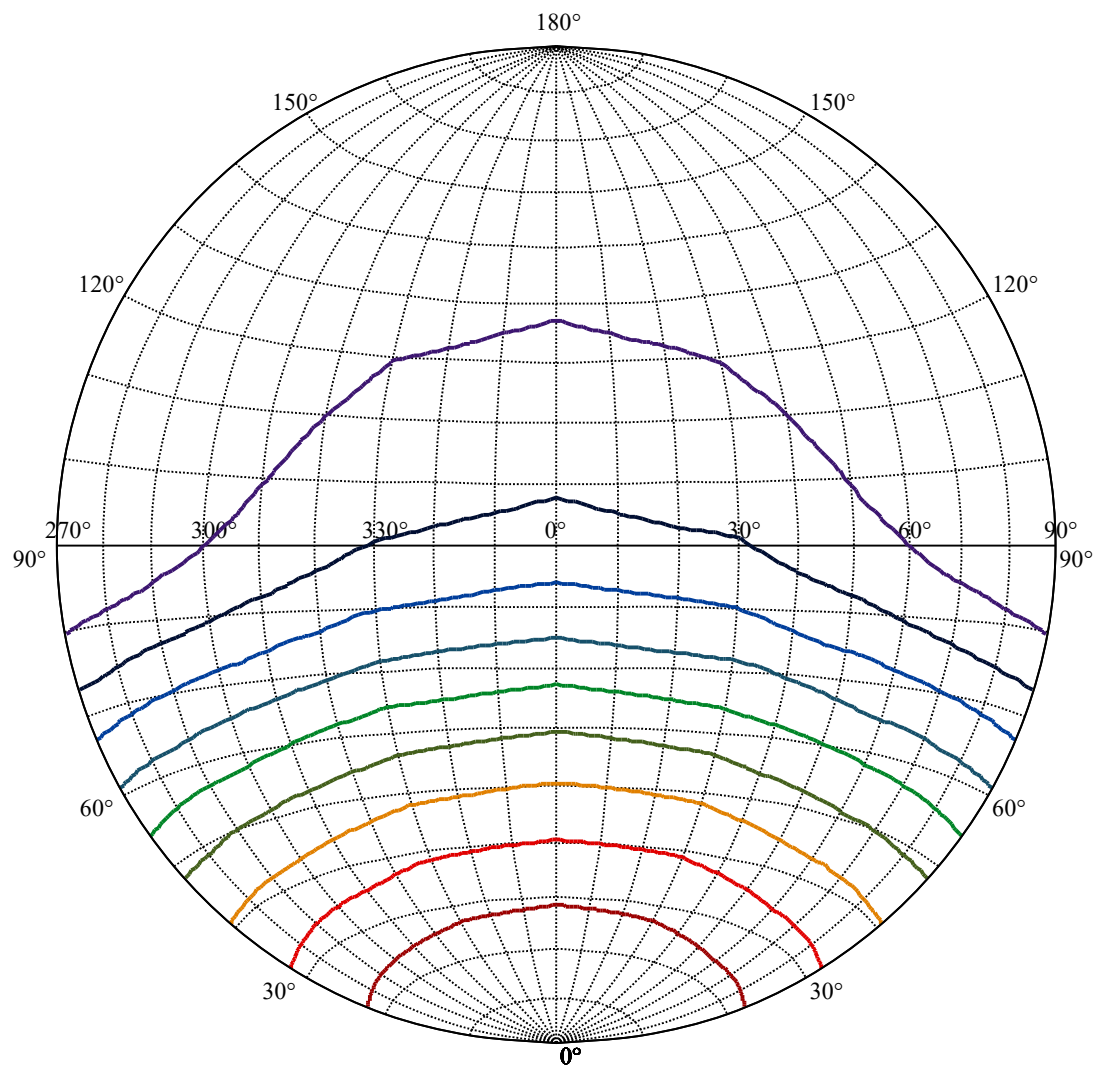
0-10	158.33
10-20	455.22
20-30	695.58
30-40	851.69
40-50	908.75
50-60	865.38
60-70	730.44
70-80	532.38
80-90	336.42
90-100	223.14
100-110	167.56
110-120	125.63
120-130	88.52
130-140	57.06
140-150	32.25
150-160	15.32
160-170	5.44
170-180	0.88





Max , Ave Beam angle of C60 plane 116.46



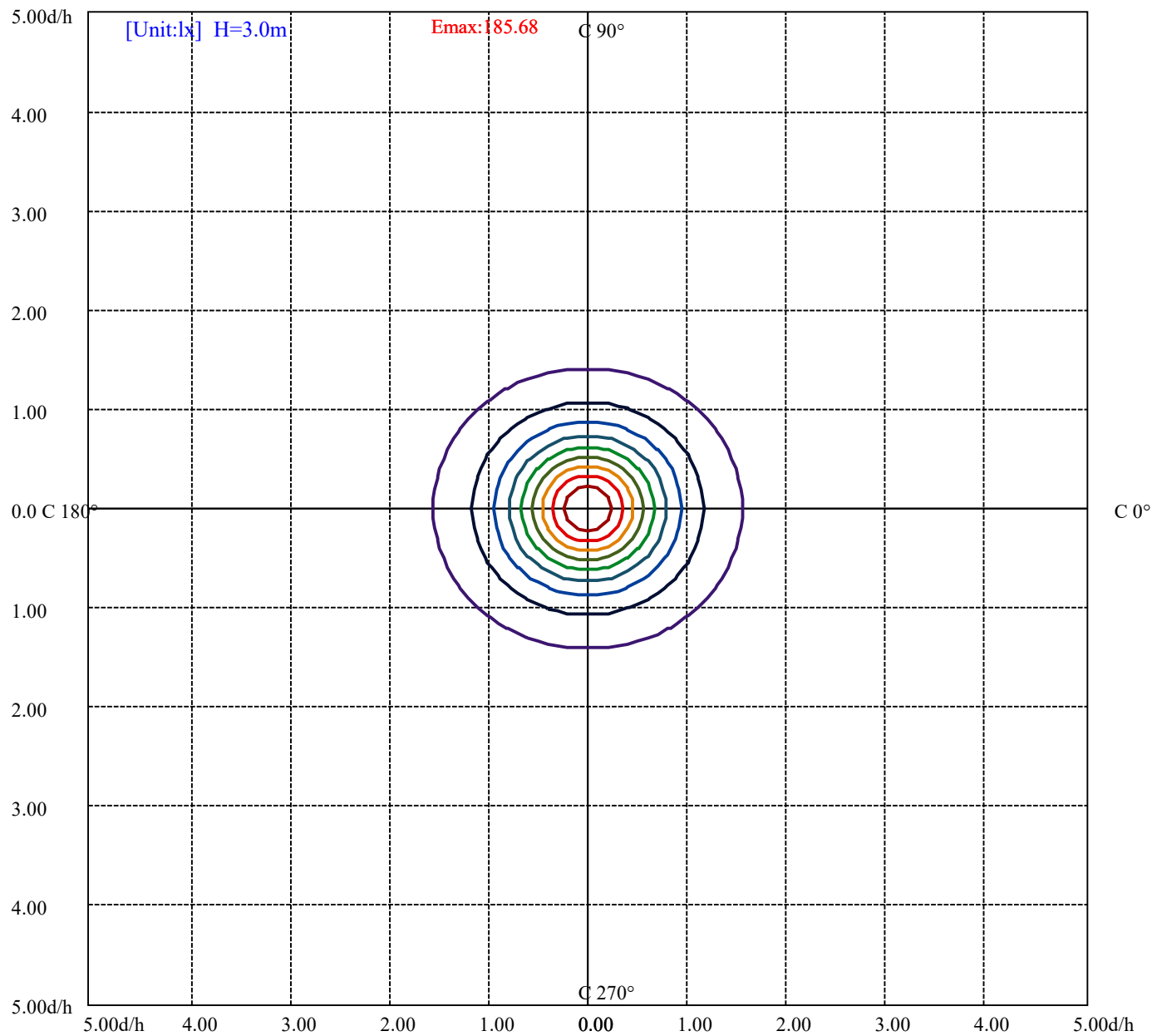


House

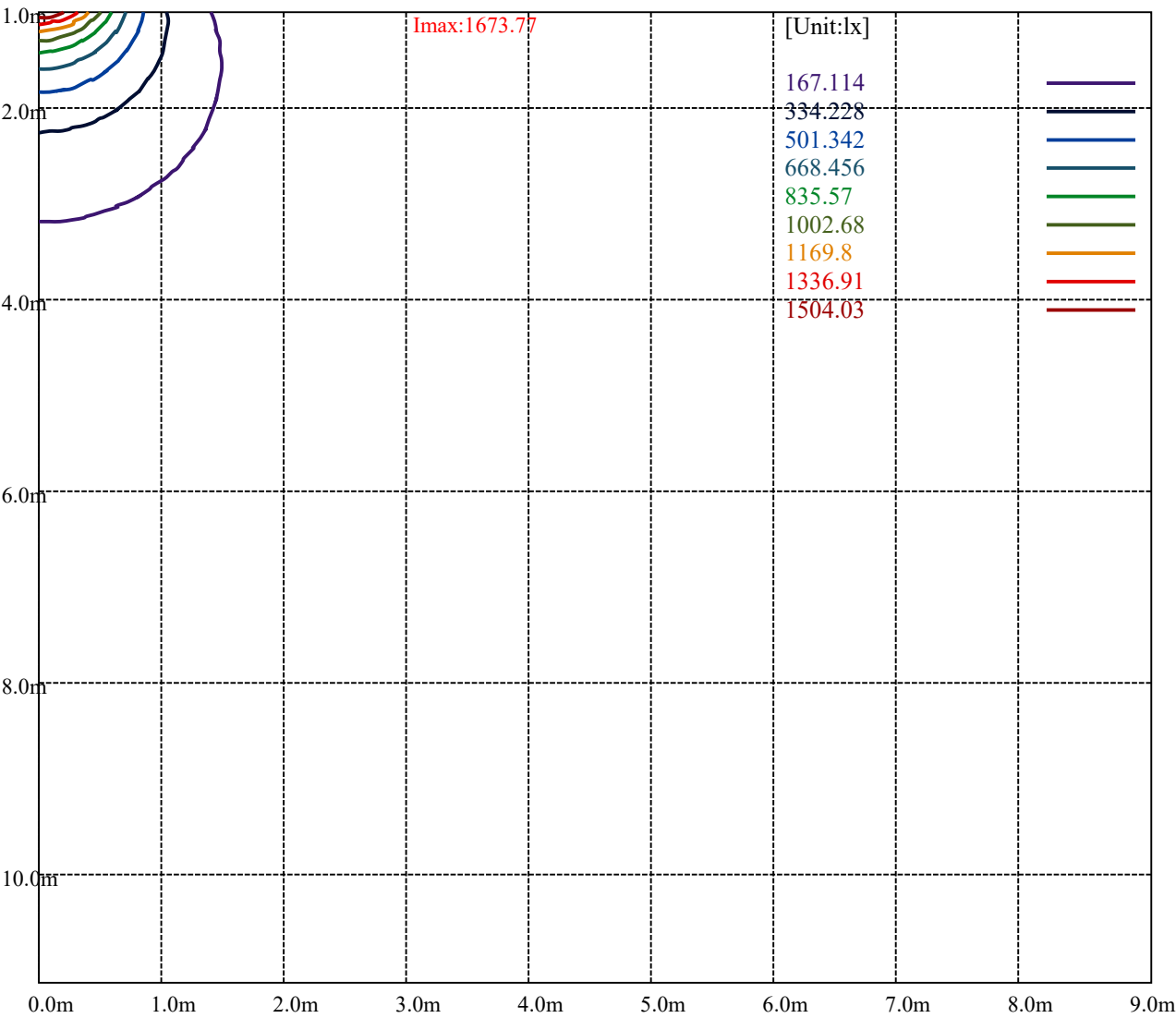
[Unit:cd]

Road

Imax:1673.77	
(10%Imax) 167.377	
(20%Imax) 334.754	
(30%Imax) 502.13	
(40%Imax) 669.507	
(50%Imax) 836.884	
(60%Imax) 1004.26	
(70%Imax) 1171.64	
(80%Imax) 1339.01	
(90%Imax) 1506.39	



(10%Emax) 18.56822	—
(20%Emax) 37.13644	—
(30%Emax) 55.70467	—
(40%Emax) 74.27289	—
(50%Emax) 92.84111	—
(60%Emax) 111.4089	—
(70%Emax) 129.9778	—
(80%Emax) 148.5456	—
(90%Emax) 167.1144	—



Intensity data(cd)

Appendix Page: 19 Total:29

C/γ(°)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
0.0	1671.14	1671.14	1670.23	1669.08	1668.17	1668.17	1667.25	1667.25	1665.77
30.0	1671.14	1671.14	1672.17	1672.17	1671.48	1671.48	1670.00	1670.00	1668.28
60.0	1671.14	1671.14	1673.77	1673.77	1673.43	1673.20	1671.03	1669.77	1669.20
90.0	1671.14	1671.14	1673.31	1673.31	1672.28	1672.28	1670.68	1670.68	1668.28
120.0	1671.14	1671.14	1672.17	1671.60	1671.60	1670.34	1670.34	1668.28	1668.28
150.0	1671.14	1671.14	1671.03	1670.68	1670.45	1669.31	1669.31	1668.05	1667.25
180.0	1671.14	1671.14	1670.23	1669.08	1668.17	1668.17	1667.25	1667.25	1665.77
210.0	1671.14	1671.14	1672.17	1672.17	1671.48	1671.48	1670.00	1670.00	1668.28
240.0	1671.14	1671.14	1673.77	1673.77	1673.43	1673.20	1671.03	1669.77	1669.20
270.0	1671.14	1671.14	1673.31	1673.31	1672.28	1672.28	1670.68	1670.68	1668.28
300.0	1671.14	1671.14	1672.17	1671.60	1671.60	1670.34	1670.34	1668.28	1668.28
330.0	1671.14	1671.14	1671.03	1670.68	1670.45	1669.31	1669.31	1668.05	1667.25
360.0	1671.14	1671.14	1670.23	1669.08	1668.17	1668.17	1667.25	1667.25	1665.77
C/γ(°)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
0.0	1665.65	1663.94	1663.82	1661.88	1661.54	1659.71	1656.97	1656.97	1654.11
30.0	1668.28	1666.11	1663.82	1663.82	1660.97	1660.97	1657.77	1657.77	1654.68
60.0	1667.94	1666.91	1664.51	1663.25	1661.65	1660.05	1657.88	1653.88	1651.82
90.0	1667.48	1665.31	1664.17	1661.88	1657.77	1657.77	1653.19	1653.19	1648.16
120.0	1665.77	1663.71	1662.91	1659.37	1659.37	1655.37	1655.37	1651.59	1651.59
150.0	1666.22	1665.20	1664.05	1662.80	1661.42	1660.17	1658.68	1655.37	1653.65
180.0	1665.65	1663.94	1663.82	1661.88	1661.54	1659.71	1656.97	1656.97	1654.11
210.0	1668.28	1666.11	1663.82	1663.82	1660.97	1660.97	1657.77	1657.77	1654.68
240.0	1667.94	1666.91	1664.51	1663.25	1661.65	1660.05	1657.88	1653.88	1651.82
270.0	1667.48	1665.31	1664.17	1661.88	1657.77	1657.77	1653.19	1653.19	1648.16
300.0	1665.77	1663.71	1662.91	1659.37	1659.37	1655.37	1655.37	1651.59	1651.59
330.0	1666.22	1665.20	1664.05	1662.80	1661.42	1660.17	1658.68	1655.37	1653.65
360.0	1665.65	1663.94	1663.82	1661.88	1661.54	1659.71	1656.97	1656.97	1654.11
C/γ(°)	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
0.0	1653.54	1651.14	1650.22	1647.59	1646.45	1643.59	1639.36	1639.36	1634.79
30.0	1654.68	1650.91	1650.91	1646.68	1642.56	1642.56	1637.76	1637.76	1632.28
60.0	1649.08	1647.02	1644.05	1641.19	1638.11	1635.02	1631.36	1628.50	1621.87
90.0	1648.16	1642.45	1639.82	1636.39	1633.53	1629.76	1622.67	1622.67	1614.67
120.0	1646.68	1646.68	1641.08	1637.88	1635.71	1629.53	1629.53	1622.56	1622.56
150.0	1651.71	1649.65	1647.59	1645.54	1643.36	1640.85	1638.56	1633.53	1633.53
180.0	1653.54	1651.14	1650.22	1647.59	1646.45	1643.59	1639.36	1639.36	1634.79
210.0	1654.68	1650.91	1650.91	1646.68	1642.56	1642.56	1637.76	1637.76	1632.28
240.0	1649.08	1647.02	1644.05	1641.19	1638.11	1635.02	1631.36	1628.50	1621.87
270.0	1648.16	1642.45	1639.82	1636.39	1633.53	1629.76	1622.67	1622.67	1614.67
300.0	1646.68	1646.68	1641.08	1637.88	1635.71	1629.53	1629.53	1622.56	1622.56
330.0	1651.71	1649.65	1647.59	1645.54	1643.36	1640.85	1638.56	1633.53	1633.53
360.0	1653.54	1651.14	1650.22	1647.59	1646.45	1643.59	1639.36	1639.36	1634.79
C/γ(°)	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5
0.0	1634.79	1629.88	1627.93	1624.39	1622.22	1618.67	1616.50	1612.73	1606.33
30.0	1632.28	1626.90	1626.90	1620.73	1617.07	1614.22	1607.59	1607.59	1604.39
60.0	1618.33	1614.67	1610.22	1606.44	1602.10	1598.10	1592.96	1588.95	1584.73
90.0	1614.67	1606.33	1602.44	1597.41	1593.18	1588.15	1577.98	1577.98	1567.46
120.0	1615.36	1615.36	1607.70	1603.47	1599.70	1591.24	1591.24	1582.32	1582.32
150.0	1628.28	1625.19	1622.22	1622.22	1615.93	1612.62	1609.42	1605.87	1602.44
180.0	1634.79	1629.88	1627.93	1624.39	1622.22	1618.67	1616.50	1612.73	1606.33
210.0	1632.28	1626.90	1626.90	1620.73	1617.07	1614.22	1607.59	1607.59	1604.39
240.0	1618.33	1614.67	1610.22	1606.44	1602.10	1598.10	1592.96	1588.95	1584.73
270.0	1614.67	1606.33	1602.44	1597.41	1593.18	1588.15	1577.98	1577.98	1567.46
300.0	1615.36	1615.36	1607.70	1603.47	1599.70	1591.24	1591.24	1582.32	1582.32
330.0	1628.28	1625.19	1622.22	1622.22	1615.93	1612.62	1609.42	1605.87	1602.44
360.0	1634.79	1629.88	1627.93	1624.39	1622.22	1618.67	1616.50	1612.73	1606.33

C/γ(°)	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0
0.0	1606.33	1599.47	1599.47	1592.38	1589.41	1585.18	1581.75	1577.07	1573.64
30.0	1600.38	1592.73	1592.73	1584.73	1584.73	1576.38	1567.69	1567.69	1558.78
60.0	1579.92	1570.09	1564.61	1559.58	1548.95	1548.95	1543.46	1538.43	1532.03
90.0	1567.46	1556.95	1556.95	1545.63	1540.15	1533.52	1528.03	1521.51	1508.71
120.0	1572.84	1572.84	1562.55	1562.55	1552.72	1546.89	1541.86	1530.77	1530.77
150.0	1594.90	1594.90	1587.24	1583.12	1579.12	1574.55	1570.55	1566.09	1561.86
180.0	1606.33	1599.47	1599.47	1592.38	1589.41	1585.18	1581.75	1577.07	1573.64
210.0	1600.38	1592.73	1592.73	1584.73	1584.73	1576.38	1567.69	1567.69	1558.78
240.0	1579.92	1570.09	1564.61	1559.58	1548.95	1548.95	1543.46	1538.43	1532.03
270.0	1567.46	1556.95	1556.95	1545.63	1540.15	1533.52	1528.03	1521.51	1508.71
300.0	1572.84	1572.84	1562.55	1562.55	1552.72	1546.89	1541.86	1530.77	1530.77
330.0	1594.90	1594.90	1587.24	1583.12	1579.12	1574.55	1570.55	1566.09	1561.86
360.0	1606.33	1599.47	1599.47	1592.38	1589.41	1585.18	1581.75	1577.07	1573.64
C/γ(°)	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5
0.0	1565.29	1560.38	1560.38	1551.46	1547.46	1542.20	1538.09	1532.72	1528.60
30.0	1558.78	1549.52	1549.52	1539.57	1539.57	1529.40	1523.80	1519.11	1508.14
60.0	1526.66	1520.71	1508.94	1503.34	1497.05	1491.00	1484.14	1477.96	1471.22
90.0	1508.71	1495.34	1495.34	1481.97	1481.97	1468.36	1461.73	1453.73	1446.65
120.0	1519.46	1519.46	1507.57	1507.57	1495.57	1495.57	1482.54	1475.91	1469.62
150.0	1556.95	1552.49	1542.78	1537.52	1532.60	1527.23	1522.20	1516.71	1511.46
180.0	1565.29	1560.38	1560.38	1551.46	1547.46	1542.20	1538.09	1532.72	1528.60
210.0	1558.78	1549.52	1549.52	1539.57	1539.57	1529.40	1523.80	1519.11	1508.14
240.0	1526.66	1520.71	1508.94	1503.34	1497.05	1491.00	1484.14	1477.96	1471.22
270.0	1508.71	1495.34	1495.34	1481.97	1481.97	1468.36	1461.73	1453.73	1446.65
300.0	1519.46	1519.46	1507.57	1507.57	1495.57	1495.57	1482.54	1475.91	1469.62
330.0	1556.95	1552.49	1542.78	1537.52	1532.60	1527.23	1522.20	1516.71	1511.46
360.0	1565.29	1560.38	1560.38	1551.46	1547.46	1542.20	1538.09	1532.72	1528.60
C/γ(°)	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0
0.0	1523.00	1512.94	1512.94	1502.31	1502.31	1491.68	1486.54	1480.48	1475.34
30.0	1508.14	1496.83	1496.83	1485.28	1485.28	1473.05	1473.05	1461.28	1454.76
60.0	1464.82	1457.50	1451.10	1436.93	1429.38	1422.41	1414.98	1408.12	1400.58
90.0	1438.99	1423.55	1423.55	1407.78	1407.78	1391.66	1383.78	1375.32	1367.20
120.0	1456.25	1456.25	1442.42	1442.42	1428.47	1428.47	1414.07	1406.41	1399.44
150.0	1505.63	1500.25	1488.94	1488.94	1477.16	1470.99	1465.05	1458.76	1452.82
180.0	1523.00	1512.94	1512.94	1502.31	1502.31	1491.68	1486.54	1480.48	1475.34
210.0	1508.14	1496.83	1496.83	1485.28	1485.28	1473.05	1473.05	1461.28	1454.76
240.0	1464.82	1457.50	1451.10	1436.93	1429.38	1422.41	1414.98	1408.12	1400.58
270.0	1438.99	1423.55	1423.55	1407.78	1407.78	1391.66	1383.78	1375.32	1367.20
300.0	1456.25	1456.25	1442.42	1442.42	1428.47	1428.47	1414.07	1406.41	1399.44
330.0	1505.63	1500.25	1488.94	1488.94	1477.16	1470.99	1465.05	1458.76	1452.82
360.0	1523.00	1512.94	1512.94	1502.31	1502.31	1491.68	1486.54	1480.48	1475.34
C/γ(°)	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5
0.0	1468.93	1463.79	1457.50	1445.50	1445.50	1433.16	1433.16	1420.58	1414.64
30.0	1448.36	1435.79	1435.79	1422.64	1422.64	1409.38	1409.38	1395.66	1395.66
60.0	1393.26	1385.26	1377.95	1369.60	1361.83	1345.94	1337.48	1329.60	1321.14
90.0	1358.29	1341.26	1341.26	1323.88	1323.88	1305.71	1305.71	1287.88	1279.07
120.0	1384.12	1384.12	1368.46	1368.46	1352.80	1352.80	1336.68	1336.68	1328.34
150.0	1446.19	1440.01	1433.39	1427.10	1413.73	1406.75	1400.01	1392.81	1386.06
180.0	1468.93	1463.79	1457.50	1445.50	1445.50	1433.16	1433.16	1420.58	1414.64
210.0	1448.36	1435.79	1435.79	1422.64	1422.64	1409.38	1409.38	1395.66	1395.66
240.0	1393.26	1385.26	1377.95	1369.60	1361.83	1345.94	1337.48	1329.60	1321.14
270.0	1358.29	1341.26	1341.26	1323.88	1323.88	1305.71	1305.71	1287.88	1279.07
300.0	1384.12	1384.12	1368.46	1368.46	1352.80	1352.80	1336.68	1336.68	1328.34
330.0	1446.19	1440.01	1433.39	1427.10	1413.73	1406.75	1400.01	1392.81	1386.06
360.0	1468.93	1463.79	1457.50	1445.50	1445.50	1433.16	1433.16	1420.58	1414.64

C/γ(°)	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
0.0	1407.55	1401.61	1394.64	1381.03	1381.03	1367.66	1367.66	1353.83	1347.09
30.0	1381.38	1367.20	1367.20	1352.57	1352.57	1337.71	1337.71	1322.62	1322.62
60.0	1312.79	1304.22	1296.33	1279.07	1279.07	1270.04	1252.90	1244.21	1234.95
90.0	1269.47	1260.44	1250.73	1231.64	1231.64	1212.32	1212.32	1192.89	1192.89
120.0	1307.54	1307.54	1290.73	1282.27	1273.47	1265.01	1256.10	1247.30	1238.61
150.0	1378.75	1372.12	1364.57	1357.49	1349.94	1342.97	1327.77	1320.00	1312.68
180.0	1407.55	1401.61	1394.64	1381.03	1381.03	1367.66	1367.66	1353.83	1347.09
210.0	1381.38	1367.20	1367.20	1352.57	1352.57	1337.71	1337.71	1322.62	1322.62
240.0	1312.79	1304.22	1296.33	1279.07	1279.07	1270.04	1252.90	1244.21	1234.95
270.0	1269.47	1260.44	1250.73	1231.64	1231.64	1212.32	1212.32	1192.89	1192.89
300.0	1307.54	1307.54	1290.73	1282.27	1273.47	1265.01	1256.10	1247.30	1238.61
330.0	1378.75	1372.12	1364.57	1357.49	1349.94	1342.97	1327.77	1320.00	1312.68
360.0	1407.55	1401.61	1394.64	1381.03	1381.03	1367.66	1367.66	1353.83	1347.09

C/γ(°)	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5
0.0	1339.65	1332.91	1325.37	1318.51	1310.85	1295.99	1295.99	1281.13	1281.13
30.0	1307.54	1299.65	1291.99	1276.22	1276.22	1260.10	1260.10	1243.87	1243.87
60.0	1226.15	1216.89	1208.09	1198.60	1189.69	1179.97	1170.83	1152.08	1142.48
90.0	1173.23	1163.28	1152.65	1142.82	1132.31	1111.85	1111.85	1090.47	1090.47
120.0	1229.69	1220.55	1202.38	1193.00	1183.86	1174.71	1165.23	1155.74	1146.14
150.0	1304.79	1297.25	1289.13	1281.59	1265.59	1265.59	1249.35	1249.35	1233.01
180.0	1339.65	1332.91	1325.37	1318.51	1310.85	1295.99	1295.99	1281.13	1281.13
210.0	1307.54	1299.65	1291.99	1276.22	1276.22	1260.10	1260.10	1243.87	1243.87
240.0	1226.15	1216.89	1208.09	1198.60	1189.69	1179.97	1170.83	1152.08	1142.48
270.0	1173.23	1163.28	1152.65	1142.82	1132.31	1111.85	1111.85	1090.47	1090.47
300.0	1229.69	1220.55	1202.38	1193.00	1183.86	1174.71	1165.23	1155.74	1146.14
330.0	1304.79	1297.25	1289.13	1281.59	1265.59	1265.59	1249.35	1249.35	1233.01
360.0	1339.65	1332.91	1325.37	1318.51	1310.85	1295.99	1295.99	1281.13	1281.13

C/γ(°)	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0
0.0	1265.47	1257.93	1249.93	1242.27	1234.27	1226.61	1218.38	1202.15	1202.15
30.0	1227.29	1227.29	1210.60	1202.03	1193.57	1176.54	1176.54	1159.17	1159.17
60.0	1132.88	1122.70	1112.99	1103.04	1093.90	1083.95	1074.24	1064.07	1044.29
90.0	1069.44	1059.04	1047.95	1037.43	1026.35	1004.28	1004.28	982.11	971.48
120.0	1136.65	1127.16	1107.85	1107.85	1088.18	1078.35	1068.64	1058.81	1048.75
150.0	1224.44	1216.32	1207.63	1199.52	1190.83	1182.49	1173.57	1165.23	1147.85
180.0	1265.47	1257.93	1249.93	1242.27	1234.27	1226.61	1218.38	1202.15	1202.15
210.0	1227.29	1227.29	1210.60	1202.03	1193.57	1176.54	1176.54	1159.17	1159.17
240.0	1132.88	1122.70	1112.99	1103.04	1093.90	1083.95	1074.24	1064.07	1044.29
270.0	1069.44	1059.04	1047.95	1037.43	1026.35	1004.28	1004.28	982.11	971.48
300.0	1136.65	1127.16	1107.85	1107.85	1088.18	1078.35	1068.64	1058.81	1048.75
330.0	1224.44	1216.32	1207.63	1199.52	1190.83	1182.49	1173.57	1165.23	1147.85
360.0	1265.47	1257.93	1249.93	1242.27	1234.27	1226.61	1218.38	1202.15	1202.15

C/γ(°)	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5
0.0	1185.69	1185.69	1169.11	1161.00	1152.31	1143.97	1135.16	1118.25	1118.25
30.0	1141.91	1141.91	1123.73	1123.73	1106.02	1087.73	1087.73	1069.55	1069.55
60.0	1034.35	1023.83	1013.77	1003.37	993.43	982.80	972.74	962.11	951.93
90.0	959.93	959.93	937.19	926.33	914.78	903.47	891.81	868.72	868.72
120.0	1038.46	1028.40	1018.34	1008.17	987.48	987.48	977.08	956.39	945.99
150.0	1138.59	1130.02	1120.99	1112.30	1102.93	1094.13	1084.75	1075.95	1066.35
180.0	1185.69	1185.69	1169.11	1161.00	1152.31	1143.97	1135.16	1118.25	1118.25
210.0	1141.91	1141.91	1123.73	1123.73	1106.02	1087.73	1087.73	1069.55	1069.55
240.0	1034.35	1023.83	1013.77	1003.37	993.43	982.80	972.74	962.11	951.93
270.0	959.93	959.93	937.19	926.33	914.78	903.47	891.81	868.72	868.72
300.0	1038.46	1028.40	1018.34	1008.17	987.48	987.48	977.08	956.39	945.99
330.0	1138.59	1130.02	1120.99	1112.30	1102.93	1094.13	1084.75	1075.95	1066.35
360.0	1185.69	1185.69	1169.11	1161.00	1152.31	1143.97	1135.16	1118.25	1118.25

Intensity data(cd)

Appendix Page: 22 Total:29

C/γ(°)	54.0	54.5	55.0	55.5	56.0	56.5	57.0	57.5	58.0
0.0	1100.53	1100.53	1082.93	1074.24	1065.21	1056.29	1047.15	1038.23	1029.09
30.0	1051.03	1051.03	1032.40	1032.40	1013.66	1004.17	994.57	975.48	975.48
60.0	931.47	920.61	909.98	899.01	888.61	877.75	867.23	856.14	845.74
90.0	845.06	845.06	821.63	821.63	798.19	786.42	774.07	762.53	750.07
120.0	935.59	925.07	914.21	903.70	893.07	882.44	861.17	850.20	839.57
150.0	1057.55	1039.15	1029.43	1020.40	1010.69	1001.43	991.60	982.34	972.51
180.0	1100.53	1100.53	1082.93	1074.24	1065.21	1056.29	1047.15	1038.23	1029.09
210.0	1051.03	1051.03	1032.40	1032.40	1013.66	1004.17	994.57	975.48	975.48
240.0	931.47	920.61	909.98	899.01	888.61	877.75	867.23	856.14	845.74
270.0	845.06	845.06	821.63	821.63	798.19	786.42	774.07	762.53	750.07
300.0	935.59	925.07	914.21	903.70	893.07	882.44	861.17	850.20	839.57
330.0	1057.55	1039.15	1029.43	1020.40	1010.69	1001.43	991.60	982.34	972.51
360.0	1100.53	1100.53	1082.93	1074.24	1065.21	1056.29	1047.15	1038.23	1029.09

C/γ(°)	58.5	59.0	59.5	60.0	60.5	61.0	61.5	62.0	62.5
0.0	1010.69	1010.69	992.40	992.40	973.76	964.39	954.90	945.76	936.16
30.0	956.28	956.28	936.84	936.84	917.30	917.30	897.64	887.92	877.75
60.0	834.77	823.91	802.19	791.22	780.36	769.04	758.30	747.10	736.13
90.0	725.84	725.84	701.60	701.60	676.91	664.91	652.34	640.11	614.96
120.0	828.48	817.62	806.76	796.13	785.16	774.30	752.36	752.36	730.18
150.0	963.13	943.93	943.93	924.38	914.33	904.72	894.78	885.18	874.89
180.0	1010.69	1010.69	992.40	992.40	973.76	964.39	954.90	945.76	936.16
210.0	956.28	956.28	936.84	936.84	917.30	917.30	897.64	887.92	877.75
240.0	834.77	823.91	802.19	791.22	780.36	769.04	758.30	747.10	736.13
270.0	725.84	725.84	701.60	701.60	676.91	664.91	652.34	640.11	614.96
300.0	828.48	817.62	806.76	796.13	785.16	774.30	752.36	752.36	730.18
330.0	963.13	943.93	943.93	924.38	914.33	904.72	894.78	885.18	874.89
360.0	1010.69	1010.69	992.40	992.40	973.76	964.39	954.90	945.76	936.16

C/γ(°)	63.0	63.5	64.0	64.5	65.0	65.5	66.0	66.5	67.0
0.0	926.67	917.07	897.87	897.87	878.78	878.78	859.57	849.63	840.14
30.0	857.97	857.97	837.86	837.86	817.85	817.85	797.51	797.51	777.50
60.0	724.92	714.06	702.86	680.69	669.60	652.80	641.71	641.71	619.42
90.0	602.73	602.73	590.27	577.47	552.44	552.44	527.18	514.94	502.26
120.0	719.21	708.12	696.92	685.94	674.63	663.66	652.45	641.59	619.19
150.0	865.29	855.12	845.17	825.40	815.11	805.28	794.99	785.28	774.87
180.0	926.67	917.07	897.87	897.87	878.78	878.78	859.57	849.63	840.14
210.0	857.97	857.97	837.86	837.86	817.85	817.85	797.51	797.51	777.50
240.0	724.92	714.06	702.86	680.69	669.60	652.80	641.71	641.71	619.42
270.0	602.73	602.73	590.27	577.47	552.44	552.44	527.18	514.94	502.26
300.0	719.21	708.12	696.92	685.94	674.63	663.66	652.45	641.59	619.19
330.0	865.29	855.12	845.17	825.40	815.11	805.28	794.99	785.28	774.87
360.0	926.67	917.07	897.87	897.87	878.78	878.78	859.57	849.63	840.14

C/γ(°)	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5
0.0	830.31	820.71	801.39	801.39	781.96	781.96	762.76	752.93	743.55
30.0	757.39	757.39	736.93	736.93	716.69	716.69	696.57	696.57	676.34
60.0	619.42	597.13	597.13	574.84	563.87	552.55	530.26	530.26	508.31
90.0	489.68	476.77	451.51	451.51	426.24	426.24	401.10	401.10	375.61
120.0	608.10	597.13	585.58	574.61	563.41	552.44	541.12	530.15	507.97
150.0	764.93	754.64	744.81	724.58	724.58	704.35	694.29	684.23	674.17
180.0	830.31	820.71	801.39	801.39	781.96	781.96	762.76	752.93	743.55
210.0	757.39	757.39	736.93	736.93	716.69	716.69	696.57	696.57	676.34
240.0	619.42	597.13	597.13	574.84	563.87	552.55	530.26	530.26	508.31
270.0	489.68	476.77	451.51	451.51	426.24	426.24	401.10	401.10	375.61
300.0	608.10	597.13	585.58	574.61	563.41	552.44	541.12	530.15	507.97
330.0	764.93	754.64	744.81	724.58	724.58	704.35	694.29	684.23	674.17
360.0	830.31	820.71	801.39	801.39	781.96	781.96	762.76	752.93	743.55

C/γ(°)	72.0	72.5	73.0	73.5	74.0	74.5	75.0	75.5	76.0
0.0	733.61	724.35	714.52	705.38	686.75	676.91	668.11	668.11	649.82
30.0	666.51	656.34	636.34	636.34	616.56	616.56	597.13	597.13	578.04
60.0	508.31	486.25	486.25	464.42	464.42	442.82	421.33	421.33	400.30
90.0	363.15	350.57	338.11	325.66	300.85	300.85	276.50	276.50	252.16
120.0	507.97	486.03	474.94	464.08	452.99	442.25	431.27	420.76	409.78
150.0	664.23	654.17	644.22	634.51	624.68	605.13	605.13	585.81	576.56
180.0	733.61	724.35	714.52	705.38	686.75	676.91	668.11	668.11	649.82
210.0	666.51	656.34	636.34	636.34	616.56	616.56	597.13	597.13	578.04
240.0	508.31	486.25	486.25	464.42	464.42	442.82	421.33	421.33	400.30
270.0	363.15	350.57	338.11	325.66	300.85	300.85	276.50	276.50	252.16
300.0	507.97	486.03	474.94	464.08	452.99	442.25	431.27	420.76	409.78
330.0	664.23	654.17	644.22	634.51	624.68	605.13	605.13	585.81	576.56
360.0	733.61	724.35	714.52	705.38	686.75	676.91	668.11	668.11	649.82
C/γ(°)	76.5	77.0	77.5	78.0	78.5	79.0	79.5	80.0	80.5
0.0	640.34	631.88	622.28	614.05	604.67	596.79	579.76	579.76	563.18
30.0	578.04	559.07	540.78	540.78	522.83	522.83	505.00	505.00	487.85
60.0	400.30	379.38	379.38	359.15	359.15	339.26	339.26	320.17	301.77
90.0	239.81	228.38	216.27	205.06	182.32	182.32	160.37	160.37	139.11
120.0	399.61	378.81	378.81	358.35	348.06	338.34	328.40	319.25	309.54
150.0	567.07	557.92	548.55	539.63	530.26	521.57	512.43	495.06	486.83
180.0	640.34	631.88	622.28	614.05	604.67	596.79	579.76	579.76	563.18
210.0	578.04	559.07	540.78	540.78	522.83	522.83	505.00	505.00	487.85
240.0	400.30	379.38	379.38	359.15	359.15	339.26	339.26	320.17	301.77
270.0	239.81	228.38	216.27	205.06	182.32	182.32	160.37	160.37	139.11
300.0	399.61	378.81	378.81	358.35	348.06	338.34	328.40	319.25	309.54
330.0	567.07	557.92	548.55	539.63	530.26	521.57	512.43	495.06	486.83
360.0	640.34	631.88	622.28	614.05	604.67	596.79	579.76	579.76	563.18
C/γ(°)	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5	85.0
0.0	554.15	546.84	538.03	530.95	522.49	515.63	500.66	500.66	486.14
30.0	487.85	471.39	471.39	455.16	439.50	439.50	424.53	424.53	410.01
60.0	301.77	283.71	283.71	266.79	266.79	250.79	250.79	235.47	227.58
90.0	139.11	118.88	108.02	99.79	89.27	82.07	65.73	65.73	50.98
120.0	300.62	291.02	282.56	265.53	256.84	249.41	241.30	234.33	226.67
150.0	478.14	470.25	461.79	454.13	445.79	438.47	430.59	415.73	415.73
180.0	554.15	546.84	538.03	530.95	522.49	515.63	500.66	500.66	486.14
210.0	487.85	471.39	471.39	455.16	439.50	439.50	424.53	424.53	410.01
240.0	301.77	283.71	283.71	266.79	266.79	250.79	250.79	235.47	227.58
270.0	139.11	118.88	108.02	99.79	89.27	82.07	65.73	65.73	50.98
300.0	300.62	291.02	282.56	265.53	256.84	249.41	241.30	234.33	226.67
330.0	478.14	470.25	461.79	454.13	445.79	438.47	430.59	415.73	415.73
360.0	554.15	546.84	538.03	530.95	522.49	515.63	500.66	500.66	486.14
C/γ(°)	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5
0.0	486.14	472.08	464.31	458.36	450.82	445.22	438.02	432.65	420.64
30.0	410.01	396.07	396.07	382.81	376.98	370.12	358.12	358.12	346.92
60.0	221.41	208.49	208.49	196.38	196.38	185.63	185.63	175.69	170.54
90.0	50.98	38.29	38.29	27.66	20.46	19.20	13.03	13.03	8.12
120.0	220.38	213.18	200.72	195.58	195.58	184.60	179.00	174.89	169.74
150.0	401.67	395.27	388.07	382.01	375.04	369.32	362.80	357.43	351.26
180.0	486.14	472.08	464.31	458.36	450.82	445.22	438.02	432.65	420.64
210.0	410.01	396.07	396.07	382.81	376.98	370.12	358.12	358.12	346.92
240.0	221.41	208.49	208.49	196.38	196.38	185.63	185.63	175.69	170.54
270.0	50.98	38.29	38.29	27.66	20.46	19.20	13.03	13.03	8.12
300.0	220.38	213.18	200.72	195.58	195.58	184.60	179.00	174.89	169.74
330.0	401.67	395.27	388.07	382.01	375.04	369.32	362.80	357.43	351.26
360.0	486.14	472.08	464.31	458.36	450.82	445.22	438.02	432.65	420.64

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	420.64	408.98	408.98	397.78	391.61	387.15	381.09	377.09	371.26		
30.0	346.92	336.06	336.06	325.88	325.88	316.28	307.25	307.25	298.79		
60.0	167.00	159.00	159.00	152.03	152.03	145.85	145.85	140.37	140.37		
90.0	8.12	4.69	4.69	2.63	1.71	1.83	1.71	1.83	1.71		
120.0	165.97	161.51	158.20	154.20	151.34	145.05	145.05	139.68	136.94		
150.0	340.17	340.17	329.88	325.31	319.94	315.83	310.80	306.91	302.11		
180.0	420.64	408.98	408.98	397.78	391.61	387.15	381.09	377.09	371.26		
210.0	346.92	336.06	336.06	325.88	325.88	316.28	307.25	307.25	298.79		
240.0	167.00	159.00	159.00	152.03	152.03	145.85	145.85	140.37	140.37		
270.0	8.12	4.69	4.69	2.63	1.71	1.83	1.71	1.83	1.71		
300.0	165.97	161.51	158.20	154.20	151.34	145.05	145.05	139.68	136.94		
330.0	340.17	340.17	329.88	325.31	319.94	315.83	310.80	306.91	302.11		
360.0	420.64	408.98	408.98	397.78	391.61	387.15	381.09	377.09	371.26		
C/γ(°)	94.5	95.0	95.5	96.0	96.5	97.0	97.5	98.0	98.5		
0.0	367.26	358.12	358.12	349.32	344.40	341.09	336.40	333.20	328.86		
30.0	298.79	290.91	290.91	283.36	283.36	276.39	276.39	269.99	263.82		
60.0	135.45	135.45	130.99	127.11	127.11	123.56	123.56	120.25	120.25		
90.0	1.71	1.71	1.71	1.71	1.71	1.60	1.60	1.60	1.60		
120.0	134.99	132.71	130.88	128.59	127.11	125.16	123.68	120.59	118.76		
150.0	298.34	293.99	286.33	283.13	279.13	276.16	272.50	269.65	266.10		
180.0	367.26	358.12	358.12	349.32	344.40	341.09	336.40	333.20	328.86		
210.0	298.79	290.91	290.91	283.36	283.36	276.39	276.39	269.99	263.82		
240.0	135.45	135.45	130.99	127.11	127.11	123.56	123.56	120.25	120.25		
270.0	1.71	1.71	1.71	1.71	1.71	1.60	1.60	1.60	1.60		
300.0	134.99	132.71	130.88	128.59	127.11	125.16	123.68	120.59	118.76		
330.0	298.34	293.99	286.33	283.13	279.13	276.16	272.50	269.65	266.10		
360.0	367.26	358.12	358.12	349.32	344.40	341.09	336.40	333.20	328.86		
C/γ(°)	99.0	99.5	100.0	100.5	101.0	101.5	102.0	102.5	103.0		
0.0	325.88	321.65	318.68	312.05	312.05	305.65	301.99	299.37	296.05		
30.0	263.82	258.22	258.22	252.84	252.84	247.81	247.81	242.90	240.84		
60.0	117.28	117.28	114.31	111.56	111.56	110.19	108.93	106.53	106.53		
90.0	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.71	1.60		
120.0	117.51	116.02	114.65	113.28	112.13	110.53	109.28	106.88	106.88		
150.0	263.47	260.16	254.67	254.67	249.30	246.90	244.27	241.98	239.58		
180.0	325.88	321.65	318.68	312.05	312.05	305.65	301.99	299.37	296.05		
210.0	263.82	258.22	258.22	252.84	252.84	247.81	247.81	242.90	240.84		
240.0	117.28	117.28	114.31	111.56	111.56	110.19	108.93	106.53	106.53		
270.0	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.71	1.60		
300.0	117.51	116.02	114.65	113.28	112.13	110.53	109.28	106.88	106.88		
330.0	263.47	260.16	254.67	254.67	249.30	246.90	244.27	241.98	239.58		
360.0	325.88	321.65	318.68	312.05	312.05	305.65	301.99	299.37	296.05		
C/γ(°)	103.5	104.0	104.5	105.0	105.5	106.0	106.5	107.0	107.5		
0.0	293.54	290.33	287.94	282.45	282.45	277.08	277.08	271.82	268.96		
30.0	238.21	233.64	233.64	229.18	229.18	224.72	224.72	220.38	220.38		
60.0	104.02	104.02	101.62	101.62	99.33	97.16	97.16	94.99	94.99		
90.0	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.71	1.71		
120.0	104.25	102.99	101.96	100.70	99.67	98.42	97.39	96.13	95.22		
150.0	237.18	234.78	232.50	230.21	225.87	225.87	221.41	219.35	217.18		
180.0	293.54	290.33	287.94	282.45	282.45	277.08	277.08	271.82	268.96		
210.0	238.21	233.64	233.64	229.18	229.18	224.72	224.72	220.38	220.38		
240.0	104.02	104.02	101.62	101.62	99.33	97.16	97.16	94.99	94.99		
270.0	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.71	1.71		
300.0	104.25	102.99	101.96	100.70	99.67	98.42	97.39	96.13	95.22		
330.0	237.18	234.78	232.50	230.21	225.87	225.87	221.41	219.35	217.18		
360.0	293.54	290.33	287.94	282.45	282.45	277.08	277.08	271.82	268.96		

C/γ(°)	108.0	108.5	109.0	109.5	110.0	110.5	111.0	111.5	112.0
0.0	266.56	263.82	261.42	258.67	256.39	251.36	251.36	246.44	243.81
30.0	216.04	211.69	211.69	207.58	207.58	203.35	203.35	199.23	199.23
60.0	92.93	92.93	90.87	90.87	88.93	88.93	86.99	85.16	85.16
90.0	1.71	1.71	1.71	1.83	1.83	1.83	1.83	1.83	1.83
120.0	93.16	93.16	91.10	90.07	89.16	88.13	87.22	86.19	85.39
150.0	215.01	212.84	209.52	207.46	207.46	205.52	201.29	199.23	195.23
180.0	266.56	263.82	261.42	258.67	256.39	251.36	251.36	246.44	243.81
210.0	216.04	211.69	211.69	207.58	207.58	203.35	203.35	199.23	199.23
240.0	92.93	92.93	90.87	90.87	88.93	88.93	86.99	85.16	85.16
270.0	1.71	1.71	1.71	1.83	1.83	1.83	1.83	1.83	1.83
300.0	93.16	93.16	91.10	90.07	89.16	88.13	87.22	86.19	85.39
330.0	215.01	212.84	209.52	207.46	207.46	205.52	201.29	199.23	195.23
360.0	266.56	263.82	261.42	258.67	256.39	251.36	251.36	246.44	243.81
C/γ(°)	112.5	113.0	113.5	114.0	114.5	115.0	115.5	116.0	116.5
0.0	241.53	238.90	236.61	234.10	231.81	226.90	226.90	222.10	222.10
30.0	195.12	195.12	191.12	187.00	187.00	183.12	183.12	179.12	179.12
60.0	83.44	83.44	81.61	81.61	80.01	80.01	78.30	76.59	76.59
90.0	1.83	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
120.0	84.47	83.56	81.73	80.81	80.13	79.21	78.53	77.61	76.93
150.0	195.23	191.23	191.23	187.23	187.23	183.23	181.40	179.34	175.57
180.0	241.53	238.90	236.61	234.10	231.81	226.90	226.90	222.10	222.10
210.0	195.12	195.12	191.12	187.00	187.00	183.12	183.12	179.12	179.12
240.0	83.44	83.44	81.61	81.61	80.01	80.01	78.30	76.59	76.59
270.0	1.83	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
300.0	84.47	83.56	81.73	80.81	80.13	79.21	78.53	77.61	76.93
330.0	195.23	191.23	191.23	187.23	187.23	183.23	181.40	179.34	175.57
360.0	241.53	238.90	236.61	234.10	231.81	226.90	226.90	222.10	222.10
C/γ(°)	117.0	117.5	118.0	118.5	119.0	119.5	120.0	120.5	121.0
0.0	217.41	215.01	212.72	210.21	208.04	205.64	203.58	198.89	198.89
30.0	175.34	175.34	171.46	169.74	167.69	164.03	164.03	160.26	160.26
60.0	74.98	74.98	73.50	73.50	71.90	71.90	70.53	70.53	69.04
90.0	2.06	2.06	2.06	2.06	2.06	2.17	2.17	2.17	2.17
120.0	76.01	75.21	73.61	73.61	72.01	71.21	70.07	69.27	67.90
150.0	175.57	171.69	171.69	167.91	167.91	164.26	164.26	160.60	158.88
180.0	217.41	215.01	212.72	210.21	208.04	205.64	203.58	198.89	198.89
210.0	175.34	175.34	171.46	169.74	167.69	164.03	164.03	160.26	160.26
240.0	74.98	74.98	73.50	73.50	71.90	71.90	70.53	70.53	69.04
270.0	2.06	2.06	2.06	2.06	2.06	2.17	2.17	2.17	2.17
300.0	76.01	75.21	73.61	73.61	72.01	71.21	70.07	69.27	67.90
330.0	175.57	171.69	171.69	167.91	167.91	164.26	164.26	160.60	158.88
360.0	217.41	215.01	212.72	210.21	208.04	205.64	203.58	198.89	198.89
C/γ(°)	121.5	122.0	122.5	123.0	123.5	124.0	124.5	125.0	125.5
0.0	194.43	194.43	189.98	187.69	185.63	183.35	181.17	178.89	176.94
30.0	156.60	156.60	153.17	153.17	149.51	145.97	145.97	142.65	142.65
60.0	67.55	67.55	65.73	65.73	63.78	63.78	62.07	62.07	61.38
90.0	2.17	2.17	2.17	2.17	2.29	2.29	2.40	2.40	2.40
120.0	67.21	65.95	65.95	64.81	63.67	61.61	59.90	59.90	58.18
150.0	157.06	153.40	153.40	149.85	149.85	146.42	146.42	143.00	143.00
180.0	194.43	194.43	189.98	187.69	185.63	183.35	181.17	178.89	176.94
210.0	156.60	156.60	153.17	153.17	149.51	145.97	145.97	142.65	142.65
240.0	67.55	67.55	65.73	65.73	63.78	63.78	62.07	62.07	61.38
270.0	2.17	2.17	2.17	2.17	2.29	2.29	2.40	2.40	2.40
300.0	67.21	65.95	65.95	64.81	63.67	61.61	59.90	59.90	58.18
330.0	157.06	153.40	153.40	149.85	149.85	146.42	146.42	143.00	143.00
360.0	194.43	194.43	189.98	187.69	185.63	183.35	181.17	178.89	176.94

Intensity data(cd)										Appendix Page: 26 Total:29	
C/γ(°)	126.0	126.5	127.0	127.5	128.0	128.5	129.0	129.5	130.0		
0.0	172.60	172.60	168.26	166.20	164.26	162.08	160.03	157.97	156.03		
30.0	139.22	139.22	135.79	135.79	132.48	130.88	129.16	125.85	125.85		
60.0	61.38	58.07	57.38	56.35	55.78	54.75	53.95	53.15	52.35		
90.0	2.40	2.40	2.40	2.40	2.40	2.40	2.63	2.63	2.63		
120.0	58.18	56.47	56.47	54.75	54.75	53.27	52.35	51.67	50.18		
150.0	139.57	137.97	136.25	132.94	132.94	129.62	129.62	126.54	126.54		
180.0	172.60	172.60	168.26	166.20	164.26	162.08	160.03	157.97	156.03		
210.0	139.22	139.22	135.79	135.79	132.48	130.88	129.16	125.85	125.85		
240.0	61.38	58.07	57.38	56.35	55.78	54.75	53.95	53.15	52.35		
270.0	2.40	2.40	2.40	2.40	2.40	2.40	2.63	2.63	2.63		
300.0	58.18	56.47	56.47	54.75	54.75	53.27	52.35	51.67	50.18		
330.0	139.57	137.97	136.25	132.94	132.94	129.62	129.62	126.54	126.54		
360.0	172.60	172.60	168.26	166.20	164.26	162.08	160.03	157.97	156.03		
C/γ(°)	130.5	131.0	131.5	132.0	132.5	133.0	133.5	134.0	134.5		
0.0	152.03	152.03	148.03	148.03	144.14	142.08	140.14	138.20	136.37		
30.0	122.65	122.65	119.56	119.56	116.36	116.36	112.82	110.65	109.05		
60.0	51.55	50.75	49.27	48.47	47.67	46.87	46.41	45.49	45.04		
90.0	2.63	2.63	2.74	2.74	2.74	2.74	2.74	2.74	2.86		
120.0	50.18	48.58	48.58	47.09	47.09	45.61	45.27	44.47	43.32		
150.0	123.34	121.74	120.25	117.05	117.05	113.96	113.96	110.88	110.88		
180.0	152.03	152.03	148.03	148.03	144.14	142.08	140.14	138.20	136.37		
210.0	122.65	122.65	119.56	119.56	116.36	116.36	112.82	110.65	109.05		
240.0	51.55	50.75	49.27	48.47	47.67	46.87	46.41	45.49	45.04		
270.0	2.63	2.63	2.74	2.74	2.74	2.74	2.74	2.74	2.86		
300.0	50.18	48.58	48.58	47.09	47.09	45.61	45.27	44.47	43.32		
330.0	123.34	121.74	120.25	117.05	117.05	113.96	113.96	110.88	110.88		
360.0	152.03	152.03	148.03	148.03	144.14	142.08	140.14	138.20	136.37		
C/γ(°)	135.0	135.5	136.0	136.5	137.0	137.5	138.0	138.5	139.0		
0.0	134.31	132.48	128.71	128.71	125.05	125.05	121.39	119.56	117.85		
30.0	105.39	105.39	101.85	101.85	98.42	98.42	94.87	94.87	91.44		
60.0	44.24	43.67	43.09	42.06	41.49	41.04	40.46	39.89	39.21		
90.0	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.97		
120.0	43.32	42.18	42.18	41.15	41.15	40.12	40.12	39.09	38.86		
150.0	107.90	107.90	105.05	103.45	101.96	98.42	98.42	94.65	94.65		
180.0	134.31	132.48	128.71	128.71	125.05	125.05	121.39	119.56	117.85		
210.0	105.39	105.39	101.85	101.85	98.42	98.42	94.87	94.87	91.44		
240.0	44.24	43.67	43.09	42.06	41.49	41.04	40.46	39.89	39.21		
270.0	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.97		
300.0	43.32	42.18	42.18	41.15	41.15	40.12	40.12	39.09	38.86		
330.0	107.90	107.90	105.05	103.45	101.96	98.42	98.42	94.65	94.65		
360.0	134.31	132.48	128.71	128.71	125.05	125.05	121.39	119.56	117.85		
C/γ(°)	139.5	140.0	140.5	141.0	141.5	142.0	142.5	143.0	143.5		
0.0	115.91	114.19	110.65	110.65	107.22	107.22	105.39	101.96	100.36		
30.0	88.13	88.13	85.04	85.04	81.96	81.96	78.87	78.87	76.01		
60.0	38.75	38.29	37.72	37.15	36.58	35.55	34.98	34.29	33.83		
90.0	2.97	2.97	2.97	2.97	2.97	2.97	2.97	3.09	3.20		
120.0	38.29	37.26	37.26	36.01	36.01	34.98	34.98	33.72	33.72		
150.0	90.99	90.99	87.33	87.33	83.90	81.96	80.59	77.27	77.27		
180.0	115.91	114.19	110.65	110.65	107.22	107.22	105.39	101.96	100.36		
210.0	88.13	88.13	85.04	85.04	81.96	81.96	78.87	78.87	76.01		
240.0	38.75	38.29	37.72	37.15	36.58	35.55	34.98	34.29	33.83		
270.0	2.97	2.97	2.97	2.97	2.97	2.97	2.97	3.09	3.20		
300.0	38.29	37.26	37.26	36.01	36.01	34.98	34.98	33.72	33.72		
330.0	90.99	90.99	87.33	87.33	83.90	81.96	80.59	77.27	77.27		
360.0	115.91	114.19	110.65	110.65	107.22	107.22	105.39	101.96	100.36		

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	98.53	96.93	95.22	93.73	90.42	90.42	87.22	87.22	84.01		
30.0	74.41	73.04	70.18	70.18	67.33	67.33	64.58	63.21	61.84		
60.0	33.15	32.58	31.89	31.43	30.86	30.41	29.26	28.69	28.23		
90.0	3.20	3.32	3.32	3.32	3.43	3.54	3.54	3.54	3.77		
120.0	32.69	32.12	31.66	30.63	30.63	29.49	29.49	28.46	28.46		
150.0	73.96	73.96	70.76	70.76	67.67	65.84	64.47	61.61	61.61		
180.0	98.53	96.93	95.22	93.73	90.42	90.42	87.22	87.22	84.01		
210.0	74.41	73.04	70.18	70.18	67.33	67.33	64.58	63.21	61.84		
240.0	33.15	32.58	31.89	31.43	30.86	30.41	29.26	28.69	28.23		
270.0	3.20	3.32	3.32	3.32	3.43	3.54	3.54	3.54	3.77		
300.0	32.69	32.12	31.66	30.63	30.63	29.49	29.49	28.46	28.46		
330.0	73.96	73.96	70.76	70.76	67.67	65.84	64.47	61.61	61.61		
360.0	98.53	96.93	95.22	93.73	90.42	90.42	87.22	87.22	84.01		
C/γ(°)	148.5	149.0	149.5	150.0	150.5	151.0	151.5	152.0	152.5		
0.0	82.30	80.81	79.21	77.84	76.13	74.64	71.44	71.44	68.35		
30.0	61.84	58.98	57.61	56.12	53.95	53.95	51.78	51.78	49.72		
60.0	27.66	27.21	26.75	26.29	25.83	25.38	25.03	24.12	23.66		
90.0	3.77	3.77	3.77	3.89	3.89	4.00	4.00	4.00	4.00		
120.0	27.43	26.98	26.41	25.60	25.60	24.58	24.58	23.78	23.78		
150.0	58.75	58.75	56.01	56.01	53.38	53.38	50.87	49.38	48.35		
180.0	82.30	80.81	79.21	77.84	76.13	74.64	71.44	71.44	68.35		
210.0	61.84	58.98	57.61	56.12	53.95	53.95	51.78	51.78	49.72		
240.0	27.66	27.21	26.75	26.29	25.83	25.38	25.03	24.12	23.66		
270.0	3.77	3.77	3.77	3.89	3.89	4.00	4.00	4.00	4.00		
300.0	27.43	26.98	26.41	25.60	25.60	24.58	24.58	23.78	23.78		
330.0	58.75	58.75	56.01	56.01	53.38	53.38	50.87	49.38	48.35		
360.0	82.30	80.81	79.21	77.84	76.13	74.64	71.44	71.44	68.35		
C/γ(°)	153.0	153.5	154.0	154.5	155.0	155.5	156.0	156.5	157.0		
0.0	68.35	65.04	63.44	61.95	60.47	58.98	56.24	56.24	53.50		
30.0	49.72	47.67	47.67	45.49	43.55	43.55	41.61	41.61	39.78		
60.0	23.32	23.32	22.63	22.18	21.72	21.26	20.80	20.46	19.89		
90.0	4.00	4.00	4.00	4.00	4.00	4.23	4.23	4.23	4.23		
120.0	22.86	22.86	22.06	21.72	21.26	20.46	20.46	19.78	19.78		
150.0	45.95	45.95	45.04	43.89	42.06	42.06	40.35	40.35	38.64		
180.0	68.35	65.04	63.44	61.95	60.47	58.98	56.24	56.24	53.50		
210.0	49.72	47.67	47.67	45.49	43.55	43.55	41.61	41.61	39.78		
240.0	23.32	23.32	22.63	22.18	21.72	21.26	20.80	20.46	19.89		
270.0	4.00	4.00	4.00	4.00	4.00	4.23	4.23	4.23	4.23		
300.0	22.86	22.86	22.06	21.72	21.26	20.46	20.46	19.78	19.78		
330.0	45.95	45.95	45.04	43.89	42.06	42.06	40.35	40.35	38.64		
360.0	68.35	65.04	63.44	61.95	60.47	58.98	56.24	56.24	53.50		
C/γ(°)	157.5	158.0	158.5	159.0	159.5	160.0	160.5	161.0	161.5		
0.0	53.50	50.75	49.38	48.24	46.87	45.49	44.24	42.98	40.46		
30.0	39.78	37.72	37.72	35.78	34.98	33.95	32.12	32.12	30.41		
60.0	19.09	18.63	18.17	17.72	17.26	16.80	16.35	16.00	15.66		
90.0	4.23	4.23	4.34	4.46	4.46	4.46	4.46	4.69	4.69		
120.0	18.97	18.97	18.17	18.17	17.37	17.03	16.57	16.00	16.00		
150.0	37.84	36.81	35.09	35.09	33.26	33.26	31.66	31.66	29.72		
180.0	53.50	50.75	49.38	48.24	46.87	45.49	44.24	42.98	40.46		
210.0	39.78	37.72	37.72	35.78	34.98	33.95	32.12	32.12	30.41		
240.0	19.09	18.63	18.17	17.72	17.26	16.80	16.35	16.00	15.66		
270.0	4.23	4.23	4.34	4.46	4.46	4.46	4.46	4.69	4.69		
300.0	18.97	18.97	18.17	18.17	17.37	17.03	16.57	16.00	16.00		
330.0	37.84	36.81	35.09	35.09	33.26	33.26	31.66	31.66	29.72		
360.0	53.50	50.75	49.38	48.24	46.87	45.49	44.24	42.98	40.46		

C/γ(°)	162.0	162.5	163.0	163.5	164.0	164.5	165.0	165.5	166.0
0.0	40.46	37.95	37.95	35.66	34.41	33.38	32.12	31.09	29.95
30.0	30.41	28.69	28.69	26.98	26.98	25.15	23.43	23.43	21.72
60.0	15.32	14.40	14.06	13.72	13.37	13.03	12.80	12.46	12.23
90.0	4.69	4.69	4.69	4.69	4.80	4.80	4.80	4.80	4.80
120.0	15.20	15.20	14.40	14.40	13.49	12.80	12.80	12.23	12.23
150.0	29.03	28.12	26.41	26.41	24.80	24.80	23.32	23.32	21.72
180.0	40.46	37.95	37.95	35.66	34.41	33.38	32.12	31.09	29.95
210.0	30.41	28.69	28.69	26.98	26.98	25.15	23.43	23.43	21.72
240.0	15.32	14.40	14.06	13.72	13.37	13.03	12.80	12.46	12.23
270.0	4.69	4.69	4.69	4.69	4.80	4.80	4.80	4.80	4.80
300.0	15.20	15.20	14.40	14.40	13.49	12.80	12.80	12.23	12.23
330.0	29.03	28.12	26.41	26.41	24.80	24.80	23.32	23.32	21.72
360.0	40.46	37.95	37.95	35.66	34.41	33.38	32.12	31.09	29.95
C/γ(°)	166.5	167.0	167.5	168.0	168.5	169.0	169.5	170.0	170.5
0.0	28.81	26.29	26.29	24.12	23.09	22.06	21.03	20.12	19.09
30.0	21.72	19.78	19.78	18.17	18.17	16.69	16.69	15.20	13.83
60.0	11.89	11.55	11.09	10.86	10.52	10.40	10.06	9.95	9.49
90.0	4.92	4.92	4.92	4.92	4.92	5.03	5.03	5.14	5.14
120.0	11.55	11.55	10.86	10.86	10.17	10.17	9.60	9.26	9.03
150.0	21.72	20.12	19.32	18.29	16.57	16.57	15.20	15.20	13.95
180.0	28.81	26.29	26.29	24.12	23.09	22.06	21.03	20.12	19.09
210.0	21.72	19.78	19.78	18.17	18.17	16.69	16.69	15.20	13.83
240.0	11.89	11.55	11.09	10.86	10.52	10.40	10.06	9.95	9.49
270.0	4.92	4.92	4.92	4.92	4.92	5.03	5.03	5.14	5.14
300.0	11.55	11.55	10.86	10.86	10.17	10.17	9.60	9.26	9.03
330.0	21.72	20.12	19.32	18.29	16.57	16.57	15.20	15.20	13.95
360.0	28.81	26.29	26.29	24.12	23.09	22.06	21.03	20.12	19.09
C/γ(°)	171.0	171.5	172.0	172.5	173.0	173.5	174.0	174.5	175.0
0.0	18.06	16.12	16.12	14.17	14.17	12.57	11.66	10.75	9.60
30.0	13.83	12.46	12.46	11.20	11.20	10.06	10.06	8.92	8.46
60.0	9.49	9.15	9.03	8.69	8.34	8.12	7.77	7.77	7.43
90.0	5.14	5.14	5.14	5.14	5.26	5.26	5.26	5.26	5.26
120.0	8.46	8.46	7.89	7.89	7.32	7.32	6.63	6.40	6.17
150.0	13.95	12.69	12.00	11.43	10.29	10.29	9.15	9.15	8.34
180.0	18.06	16.12	16.12	14.17	14.17	12.57	11.66	10.75	9.60
210.0	13.83	12.46	12.46	11.20	11.20	10.06	10.06	8.92	8.46
240.0	9.49	9.15	9.03	8.69	8.34	8.12	7.77	7.77	7.43
270.0	5.14	5.14	5.14	5.14	5.26	5.26	5.26	5.26	5.26
300.0	8.46	8.46	7.89	7.89	7.32	7.32	6.63	6.40	6.17
330.0	13.95	12.69	12.00	11.43	10.29	10.29	9.15	9.15	8.34
360.0	18.06	16.12	16.12	14.17	14.17	12.57	11.66	10.75	9.60
C/γ(°)	175.5	176.0	176.5	177.0	177.5	178.0	178.5	179.0	179.5
0.0	8.23	7.43	6.97	6.29	6.29	5.72	5.72	4.23	3.89
30.0	7.89	6.97	6.97	5.94	5.94	5.14	5.14	4.92	4.92
60.0	7.66	7.32	7.43	6.97	7.09	6.86	6.52	6.52	6.17
90.0	5.37	5.37	5.37	5.37	5.37	5.37	5.49	5.49	5.49
120.0	6.06	5.94	5.49	5.49	4.91	4.92	4.80	4.80	4.92
150.0	8.34	6.97	6.97	6.86	6.86	6.17	6.29	5.83	5.83
180.0	8.23	7.43	6.97	6.29	6.29	5.72	5.72	4.23	3.89
210.0	7.89	6.97	6.97	5.94	5.94	5.14	5.14	4.92	4.92
240.0	7.66	7.32	7.43	6.97	7.09	6.86	6.52	6.52	6.17
270.0	5.37	5.37	5.37	5.37	5.37	5.37	5.49	5.49	5.49
300.0	6.06	5.94	5.49	5.49	4.91	4.92	4.80	4.80	4.92
330.0	8.34	6.97	6.97	6.86	6.86	6.17	6.29	5.83	5.83
360.0	8.23	7.43	6.97	6.29	6.29	5.72	5.72	4.23	3.89

Intensity data(cd)

Appendix Page: 29 Total:29

C/ $\gamma(^{\circ})$	180.0
0.0	3.66
30.0	5.14
60.0	5.94
90.0	5.49
120.0	5.03
150.0	5.14
180.0	3.66
210.0	5.14
240.0	5.94
270.0	5.49
300.0	5.03
330.0	5.14
360.0	3.66