

Report No	:		Voltage	:	V
Test No	:	A2502415A002	Current	:	A
LumCAT	:	0028920255 Tri-proof 49W 4000K 7800lm	Power	:	49.000 W
Luminaire	:	LIT by CARDI	PF	:	
LampCAT	:		Ballast type	:	
Lamp flux	:	7800.0 lm	Width	:	60 mm
Number of Lamps	:	1	Length	:	1465 mm
Phm Type	:	C	Height	:	25 mm

Photometric Results

Lumens(lm)	:	7800.00	Central intensity(cd)	:	2068.751
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	2086.419
Luminous Efficacy(lm/W)	:	159.18	Angle of maximum intensity	:	C=270.0 γ =1.5
Beam Angle(50%Imax)	:	[C0/180]Total=135.3 [C90/270]Total=109.8			
Field angle(10%Imax)	:	[C0/180]Total=255.8 [C90/270]Total=159.1			
Maximum s/h(1/2)	:	C0_180=1.34 C90_270=1.24			
Maximum s/h(1/4)	:	C0_180=1.48 C90_270=1.35			
Up flux rate of lamp(%)	:	11.50%			
Down flux rate of lamp(%)	:	88.50%			
Up flux rate of LUM(%)	:	11.50%			
Down flux rate of LUM(%)	:	88.50%			
CIE Type	:	Semidirect lighting			
Output flux ratio in π solid angle :	:	62.675%			

Zonal flux distribution table

Appendix Page: 2 Total:31

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2068.751	0.000	0	0.00%	0.00%
0.5	2068.204	0.495	0.495	0.01%	0.01%
1.0	2069.644	1.485	1.98	0.02%	0.03%
1.5	2068.486	2.475	4.455	0.03%	0.06%
2.0	2067.528	3.463	7.917	0.04%	0.10%
2.5	2066.981	4.450	12.368	0.06%	0.16%
3.0	2066.177	5.437	17.804	0.07%	0.23%
3.5	2064.849	6.421	24.225	0.08%	0.31%
4.0	2065.340	7.406	31.63	0.09%	0.41%
4.5	2062.041	8.386	40.016	0.11%	0.51%
5.0	2060.666	9.359	49.376	0.12%	0.63%
5.5	2057.882	10.332	59.707	0.13%	0.77%
6.0	2056.498	11.301	71.008	0.14%	0.91%
6.5	2054.881	12.271	83.279	0.16%	1.07%
7.0	2052.620	13.236	96.515	0.17%	1.24%
7.5	2051.751	14.200	110.715	0.18%	1.42%
8.0	2047.696	15.156	125.871	0.19%	1.61%
8.5	2044.559	16.099	141.97	0.21%	1.82%
9.0	2042.113	17.044	159.013	0.22%	2.04%
9.5	2039.168	17.986	176.999	0.23%	2.27%
10.0	2036.393	18.922	195.921	0.24%	2.51%
10.5	2032.113	19.848	215.769	0.25%	2.77%
11.0	2028.983	20.767	236.536	0.27%	3.03%
11.5	2025.974	21.688	258.223	0.28%	3.31%
12.0	2022.136	22.600	280.824	0.29%	3.60%
12.5	2017.800	23.500	304.324	0.30%	3.90%
13.0	2013.753	24.393	328.717	0.31%	4.21%
13.5	2009.537	25.281	353.998	0.32%	4.54%
14.0	2006.142	26.167	380.165	0.34%	4.87%
14.5	2001.725	27.047	407.212	0.35%	5.22%
15.0	1996.448	27.907	435.119	0.36%	5.58%
15.5	1992.505	28.765	463.884	0.37%	5.95%
16.0	1986.600	29.611	493.495	0.38%	6.33%
16.5	1981.081	30.439	523.934	0.39%	6.72%
17.0	1975.876	31.264	555.198	0.40%	7.12%
17.5	1970.767	32.086	587.283	0.41%	7.53%
18.0	1966.736	32.910	620.193	0.42%	7.95%
18.5	1959.559	33.709	653.903	0.43%	8.38%

Equipment: CT-023-3
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 52%

Operator: CWR

Zonal flux distribution table

Appendix Page: 3 Total:31

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
19.0	1953.735	34.486	688.388	0.44%	8.83%
19.5	1947.837	35.265	723.653	0.45%	9.28%
20.0	1942.222	36.038	759.691	0.46%	9.74%
20.5	1934.370	36.785	796.476	0.47%	10.21%
21.0	1928.271	37.518	833.994	0.48%	10.69%
21.5	1921.256	38.250	872.244	0.49%	11.18%
22.0	1914.393	38.966	911.211	0.50%	11.68%
22.5	1907.723	39.677	950.888	0.51%	12.19%
23.0	1900.466	40.374	991.261	0.52%	12.71%
23.5	1893.901	41.063	1032.324	0.53%	13.23%
24.0	1886.467	41.741	1074.065	0.54%	13.77%
24.5	1878.808	42.397	1116.463	0.54%	14.31%
25.0	1869.741	43.025	1159.488	0.55%	14.87%
25.5	1863.353	43.657	1203.145	0.56%	15.42%
26.0	1854.415	44.281	1247.425	0.57%	15.99%
26.5	1846.546	44.876	1292.301	0.58%	16.57%
27.0	1838.598	45.473	1337.775	0.58%	17.15%
27.5	1830.794	46.061	1383.836	0.59%	17.74%
28.0	1821.163	46.617	1430.453	0.60%	18.34%
28.5	1813.472	47.164	1477.617	0.60%	18.94%
29.0	1804.204	47.705	1525.322	0.61%	19.56%
29.5	1794.879	48.213	1573.535	0.62%	20.17%
30.0	1787.236	48.731	1622.266	0.62%	20.80%
30.5	1778.201	49.243	1671.509	0.63%	21.43%
31.0	1768.040	49.709	1721.218	0.64%	22.07%
31.5	1760.115	50.179	1771.397	0.64%	22.71%
32.0	1750.597	50.647	1822.043	0.65%	23.36%
32.5	1739.664	51.060	1873.104	0.65%	24.01%
33.0	1730.524	51.467	1924.57	0.66%	24.67%
33.5	1719.792	51.864	1976.434	0.66%	25.34%
34.0	1709.558	52.233	2028.668	0.67%	26.01%
34.5	1700.370	52.614	2081.281	0.67%	26.68%
35.0	1690.161	52.983	2134.264	0.68%	27.36%
35.5	1679.299	53.314	2187.578	0.68%	28.05%
36.0	1668.551	53.624	2241.202	0.69%	28.73%
36.5	1657.287	53.915	2295.118	0.69%	29.42%
37.0	1647.705	54.213	2349.331	0.70%	30.12%
37.5	1637.777	54.521	2403.851	0.70%	30.82%

Equipment: CT-023-3
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 52%

Operator: CWR

Zonal flux distribution table

Appendix Page: 4 Total:31

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	1626.546	54.789	2458.64	0.70%	31.52%
38.5	1616.216	55.039	2513.679	0.71%	32.23%
39.0	1603.754	55.255	2568.934	0.71%	32.94%
39.5	1592.426	55.441	2624.374	0.71%	33.65%
40.0	1582.152	55.652	2680.026	0.71%	34.36%
40.5	1569.907	55.835	2735.861	0.72%	35.08%
41.0	1559.303	55.999	2791.861	0.72%	35.79%
41.5	1546.865	56.148	2848.009	0.72%	36.51%
42.0	1536.237	56.283	2904.292	0.72%	37.23%
42.5	1523.678	56.404	2960.696	0.72%	37.96%
43.0	1513.565	56.522	3017.218	0.72%	38.68%
43.5	1500.588	56.620	3073.838	0.73%	39.41%
44.0	1489.164	56.680	3130.518	0.73%	40.13%
44.5	1476.959	56.743	3187.261	0.73%	40.86%
45.0	1465.132	56.785	3244.046	0.73%	41.59%
45.5	1452.847	56.813	3300.859	0.73%	42.32%
46.0	1440.264	56.814	3357.673	0.73%	43.05%
46.5	1428.284	56.809	3414.482	0.73%	43.78%
47.0	1414.575	56.768	3471.25	0.73%	44.50%
47.5	1402.676	56.716	3527.966	0.73%	45.23%
48.0	1390.439	56.682	3584.648	0.73%	45.96%
48.5	1377.068	56.605	3641.254	0.73%	46.68%
49.0	1364.766	56.515	3697.768	0.72%	47.41%
49.5	1352.352	56.432	3754.2	0.72%	48.13%
50.0	1338.723	56.309	3810.509	0.72%	48.85%
50.5	1325.939	56.166	3866.676	0.72%	49.57%
51.0	1312.801	56.021	3922.697	0.72%	50.29%
51.5	1299.148	55.846	3978.543	0.72%	51.01%
52.0	1286.115	55.660	4034.203	0.71%	51.72%
52.5	1273.146	55.477	4089.681	0.71%	52.43%
53.0	1260.080	55.282	4144.963	0.71%	53.14%
53.5	1246.033	55.051	4200.014	0.71%	53.85%
54.0	1232.790	54.804	4254.818	0.70%	54.55%
54.5	1219.403	54.561	4309.379	0.70%	55.25%
55.0	1205.154	54.282	4363.661	0.70%	55.94%
55.5	1190.729	53.969	4417.63	0.69%	56.64%
56.0	1178.235	53.684	4471.314	0.69%	57.32%
56.5	1164.421	53.401	4524.716	0.68%	58.01%

Equipment: CT-023-3
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 52%

Operator: CWR

Zonal flux distribution table

Appendix Page: 5 Total:31

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
57.0	1150.399	53.072	4577.788	0.68%	58.69%
57.5	1136.667	52.734	4630.522	0.68%	59.37%
58.0	1121.988	52.369	4682.891	0.67%	60.04%
58.5	1108.587	52.001	4734.892	0.67%	60.70%
59.0	1094.645	51.639	4786.531	0.66%	61.37%
59.5	1080.201	51.242	4837.773	0.66%	62.02%
60.0	1066.812	50.847	4888.619	0.65%	62.67%
60.5	1051.537	50.421	4939.04	0.65%	63.32%
61.0	1038.495	49.993	4989.034	0.64%	63.96%
61.5	1023.718	49.567	5038.601	0.64%	64.60%
62.0	1009.985	49.114	5087.715	0.63%	65.23%
62.5	994.652	48.637	5136.352	0.62%	65.85%
63.0	980.700	48.145	5184.497	0.62%	66.47%
63.5	965.383	47.643	5232.14	0.61%	67.08%
64.0	951.496	47.133	5279.272	0.60%	67.68%
64.5	937.079	46.635	5325.907	0.60%	68.28%
65.0	923.116	46.126	5372.033	0.59%	68.87%
65.5	908.419	45.600	5417.633	0.58%	69.46%
66.0	893.124	45.032	5462.665	0.58%	70.03%
66.5	879.446	44.480	5507.145	0.57%	70.60%
67.0	863.779	43.910	5551.055	0.56%	71.17%
67.5	849.806	43.324	5594.379	0.56%	71.72%
68.0	835.014	42.751	5637.13	0.55%	72.27%
68.5	820.334	42.151	5679.282	0.54%	72.81%
69.0	805.805	41.550	5720.832	0.53%	73.34%
69.5	791.351	40.947	5761.778	0.52%	73.87%
70.0	776.840	40.335	5802.114	0.52%	74.39%
70.5	761.885	39.703	5841.817	0.51%	74.90%
71.0	747.361	39.063	5880.88	0.50%	75.40%
71.5	733.338	38.440	5919.32	0.49%	75.89%
72.0	718.937	37.812	5957.132	0.48%	76.37%
72.5	704.274	37.161	5994.293	0.48%	76.85%
73.0	689.836	36.501	6030.794	0.47%	77.32%
73.5	675.598	35.846	6066.64	0.46%	77.78%
74.0	661.481	35.192	6101.832	0.45%	78.23%
74.5	647.430	34.537	6136.369	0.44%	78.67%
75.0	633.395	33.878	6170.247	0.43%	79.11%
75.5	620.074	33.232	6203.479	0.43%	79.53%

Equipment: CT-023-3
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 52%

Operator: CWR

Zonal flux distribution table

Appendix Page: 6 Total:31

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	605.662	32.570	6236.049	0.42%	79.95%
76.5	591.767	31.887	6267.936	0.41%	80.36%
77.0	578.530	31.230	6299.167	0.40%	80.76%
77.5	564.737	30.570	6329.737	0.39%	81.15%
78.0	552.414	29.930	6359.667	0.38%	81.53%
78.5	539.046	29.296	6388.963	0.38%	81.91%
79.0	525.963	28.637	6417.599	0.37%	82.28%
79.5	512.920	27.982	6445.581	0.36%	82.64%
80.0	500.517	27.340	6472.921	0.35%	82.99%
80.5	488.488	26.722	6499.644	0.34%	83.33%
81.0	476.501	26.112	6525.755	0.33%	83.66%
81.5	464.457	25.497	6551.252	0.33%	83.99%
82.0	453.057	24.894	6576.146	0.32%	84.31%
82.5	441.981	24.314	6600.46	0.31%	84.62%
83.0	430.859	23.738	6624.198	0.30%	84.93%
83.5	419.489	23.151	6647.349	0.30%	85.22%
84.0	409.292	22.586	6669.935	0.29%	85.51%
84.5	398.725	22.041	6691.976	0.28%	85.79%
85.0	388.591	21.494	6713.47	0.28%	86.07%
85.5	378.879	20.968	6734.438	0.27%	86.34%
86.0	369.565	20.463	6754.901	0.26%	86.60%
86.5	360.686	19.977	6774.878	0.26%	86.86%
87.0	352.053	19.509	6794.387	0.25%	87.11%
87.5	344.097	19.063	6813.45	0.24%	87.35%
88.0	336.070	18.633	6832.083	0.24%	87.59%
88.5	329.023	18.225	6850.308	0.23%	87.82%
89.0	321.995	17.844	6868.152	0.23%	88.05%
89.5	315.397	17.473	6885.625	0.22%	88.28%
90.0	309.235	17.124	6902.749	0.22%	88.50%
90.5	303.145	16.789	6919.538	0.22%	88.71%
91.0	297.534	16.466	6936.004	0.21%	88.92%
91.5	292.150	16.163	6952.167	0.21%	89.13%
92.0	286.766	15.864	6968.031	0.20%	89.33%
92.5	281.909	15.578	6983.609	0.20%	89.53%
93.0	277.156	15.309	6998.918	0.20%	89.73%
93.5	272.557	15.046	7013.965	0.19%	89.92%
94.0	267.873	14.784	7028.749	0.19%	90.11%
94.5	263.763	14.535	7043.284	0.19%	90.30%

Equipment: CT-023-3
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 52%

Operator: CWR

Zonal flux distribution table

Appendix Page: 7 Total:31

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
95.0	259.631	14.300	7057.584	0.18%	90.48%
95.5	255.540	14.064	7071.648	0.18%	90.66%
96.0	251.637	13.835	7085.483	0.18%	90.84%
96.5	247.881	13.613	7099.096	0.17%	91.01%
97.0	244.384	13.402	7112.498	0.17%	91.19%
97.5	240.914	13.198	7125.696	0.17%	91.36%
98.0	237.657	13.000	7138.697	0.17%	91.52%
98.5	234.496	12.810	7151.507	0.16%	91.69%
99.0	231.362	12.623	7164.13	0.16%	91.85%
99.5	228.458	12.442	7176.573	0.16%	92.01%
100.0	225.286	12.260	7188.833	0.16%	92.16%
100.5	222.504	12.080	7200.913	0.15%	92.32%
101.0	219.899	11.916	7212.829	0.15%	92.47%
101.5	217.163	11.752	7224.581	0.15%	92.62%
102.0	214.393	11.583	7236.164	0.15%	92.77%
102.5	211.819	11.419	7247.583	0.15%	92.92%
103.0	209.281	11.260	7258.843	0.14%	93.06%
103.5	207.065	11.110	7269.953	0.14%	93.20%
104.0	204.588	10.962	7280.916	0.14%	93.35%
104.5	202.122	10.807	7291.723	0.14%	93.48%
105.0	199.794	10.656	7302.378	0.14%	93.62%
105.5	197.520	10.509	7312.887	0.13%	93.75%
106.0	195.197	10.362	7323.25	0.13%	93.89%
106.5	192.915	10.215	7333.465	0.13%	94.02%
107.0	190.668	10.070	7343.535	0.13%	94.15%
107.5	188.493	9.927	7353.462	0.13%	94.28%
108.0	186.209	9.784	7363.246	0.13%	94.40%
108.5	183.913	9.637	7372.882	0.12%	94.52%
109.0	181.725	9.492	7382.375	0.12%	94.65%
109.5	179.425	9.348	7391.722	0.12%	94.77%
110.0	177.137	9.200	7400.922	0.12%	94.88%
110.5	174.984	9.057	7409.979	0.12%	95.00%
111.0	172.764	8.915	7418.894	0.11%	95.11%
111.5	170.803	8.779	7427.673	0.11%	95.23%
112.0	168.897	8.650	7436.323	0.11%	95.34%
112.5	166.823	8.519	7444.842	0.11%	95.45%
113.0	164.751	8.383	7453.225	0.11%	95.55%
113.5	162.814	8.251	7461.476	0.11%	95.66%

Equipment: CT-023-3
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 52%

Operator: CWR

Zonal flux distribution table

Appendix Page: 8 Total:31

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	160.884	8.123	7469.599	0.10%	95.76%
114.5	159.034	7.997	7477.595	0.10%	95.87%
115.0	157.227	7.874	7485.469	0.10%	95.97%
115.5	155.412	7.752	7493.222	0.10%	96.07%
116.0	153.455	7.627	7500.848	0.10%	96.16%
116.5	151.318	7.494	7508.342	0.10%	96.26%
117.0	149.172	7.356	7515.699	0.09%	96.36%
117.5	147.171	7.223	7522.921	0.09%	96.45%
118.0	145.307	7.096	7530.018	0.09%	96.54%
118.5	143.324	6.970	7536.988	0.09%	96.63%
119.0	141.358	6.843	7543.831	0.09%	96.72%
119.5	139.567	6.720	7550.55	0.09%	96.80%
120.0	137.690	6.599	7557.15	0.08%	96.89%
120.5	135.801	6.477	7563.627	0.08%	96.97%
121.0	133.805	6.352	7569.979	0.08%	97.05%
121.5	131.778	6.225	7576.203	0.08%	97.13%
122.0	129.806	6.098	7582.302	0.08%	97.21%
122.5	127.964	5.977	7588.278	0.08%	97.29%
123.0	126.127	5.859	7594.137	0.08%	97.36%
123.5	124.344	5.743	7599.88	0.07%	97.43%
124.0	122.654	5.630	7605.51	0.07%	97.51%
124.5	120.959	5.521	7611.031	0.07%	97.58%
125.0	119.279	5.412	7616.442	0.07%	97.65%
125.5	117.674	5.305	7621.747	0.07%	97.71%
126.0	116.129	5.202	7626.949	0.07%	97.78%
126.5	114.543	5.100	7632.049	0.07%	97.85%
127.0	113.008	4.999	7637.048	0.06%	97.91%
127.5	111.364	4.896	7641.944	0.06%	97.97%
128.0	109.767	4.793	7646.738	0.06%	98.04%
128.5	108.127	4.691	7651.429	0.06%	98.10%
129.0	106.483	4.589	7656.018	0.06%	98.15%
129.5	104.900	4.488	7660.505	0.06%	98.21%
130.0	103.445	4.392	7664.897	0.06%	98.27%
130.5	102.076	4.300	7669.197	0.06%	98.32%
131.0	100.658	4.211	7673.408	0.05%	98.38%
131.5	99.218	4.120	7677.528	0.05%	98.43%
132.0	97.872	4.031	7681.559	0.05%	98.48%
132.5	96.542	3.945	7685.504	0.05%	98.53%

Equipment: CT-023-3
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 52%

Operator: CWR

Zonal flux distribution table

Appendix Page: 9 Total:31

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
133.0	95.083	3.858	7689.362	0.05%	98.58%
133.5	93.691	3.770	7693.131	0.05%	98.63%
134.0	92.225	3.682	7696.813	0.05%	98.68%
134.5	90.717	3.593	7700.406	0.05%	98.72%
135.0	89.255	3.504	7703.91	0.04%	98.77%
135.5	87.815	3.418	7707.328	0.04%	98.81%
136.0	86.433	3.333	7710.661	0.04%	98.85%
136.5	85.010	3.250	7713.911	0.04%	98.90%
137.0	83.598	3.167	7717.078	0.04%	98.94%
137.5	82.037	3.082	7720.161	0.04%	98.98%
138.0	80.237	2.991	7723.152	0.04%	99.01%
138.5	78.508	2.898	7726.05	0.04%	99.05%
139.0	76.871	2.809	7728.859	0.04%	99.09%
139.5	75.624	2.729	7731.588	0.03%	99.12%
140.0	74.299	2.656	7734.244	0.03%	99.16%
140.5	72.990	2.582	7736.826	0.03%	99.19%
141.0	71.603	2.508	7739.334	0.03%	99.22%
141.5	70.231	2.434	7741.768	0.03%	99.25%
142.0	68.923	2.362	7744.129	0.03%	99.28%
142.5	67.635	2.292	7746.421	0.03%	99.31%
143.0	66.276	2.222	7748.644	0.03%	99.34%
143.5	64.787	2.150	7750.793	0.03%	99.37%
144.0	63.393	2.078	7752.871	0.03%	99.40%
144.5	62.083	2.010	7754.881	0.03%	99.42%
145.0	60.723	1.943	7756.824	0.02%	99.45%
145.5	59.406	1.877	7758.701	0.02%	99.47%
146.0	58.097	1.813	7760.515	0.02%	99.49%
146.5	56.800	1.750	7762.265	0.02%	99.52%
147.0	55.534	1.689	7763.953	0.02%	99.54%
147.5	54.317	1.629	7765.582	0.02%	99.56%
148.0	53.203	1.573	7767.155	0.02%	99.58%
148.5	52.021	1.518	7768.673	0.02%	99.60%
149.0	50.843	1.463	7770.136	0.02%	99.62%
149.5	49.770	1.410	7771.547	0.02%	99.64%
150.0	48.818	1.362	7772.908	0.02%	99.65%
150.5	47.870	1.315	7774.224	0.02%	99.67%
151.0	46.918	1.270	7775.493	0.02%	99.69%
151.5	45.968	1.225	7776.718	0.02%	99.70%

Equipment: CT-023-3
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 52%

Operator: CWR

Zonal flux distribution table

Appendix Page: 10 Total:31

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	44.988	1.180	7777.898	0.02%	99.72%
152.5	44.089	1.137	7779.035	0.01%	99.73%
153.0	43.211	1.096	7780.131	0.01%	99.75%
153.5	42.374	1.056	7781.187	0.01%	99.76%
154.0	41.490	1.017	7782.204	0.01%	99.77%
154.5	40.629	0.978	7783.182	0.01%	99.78%
155.0	39.863	0.941	7784.124	0.01%	99.80%
155.5	39.142	0.907	7785.03	0.01%	99.81%
156.0	38.433	0.873	7785.904	0.01%	99.82%
156.5	37.681	0.840	7786.744	0.01%	99.83%
157.0	36.861	0.807	7787.551	0.01%	99.84%
157.5	36.005	0.773	7788.324	0.01%	99.85%
158.0	35.182	0.739	7789.063	0.01%	99.86%
158.5	34.318	0.706	7789.769	0.01%	99.87%
159.0	33.477	0.674	7790.442	0.01%	99.88%
159.5	32.588	0.642	7791.084	0.01%	99.89%
160.0	31.733	0.610	7791.694	0.01%	99.89%
160.5	30.846	0.580	7792.274	0.01%	99.90%
161.0	29.940	0.549	7792.823	0.01%	99.91%
161.5	29.013	0.520	7793.343	0.01%	99.91%
162.0	28.177	0.491	7793.834	0.01%	99.92%
162.5	27.358	0.464	7794.298	0.01%	99.93%
163.0	26.513	0.438	7794.736	0.01%	99.93%
163.5	25.674	0.412	7795.148	0.01%	99.94%
164.0	24.833	0.387	7795.536	0.00%	99.94%
164.5	24.111	0.364	7795.9	0.00%	99.95%
165.0	23.474	0.343	7796.243	0.00%	99.95%
165.5	22.896	0.324	7796.567	0.00%	99.96%
166.0	22.304	0.305	7796.872	0.00%	99.96%
166.5	21.669	0.287	7797.158	0.00%	99.96%
167.0	20.898	0.267	7797.426	0.00%	99.97%
167.5	20.224	0.249	7797.675	0.00%	99.97%
168.0	19.633	0.232	7797.907	0.00%	99.97%
168.5	18.989	0.216	7798.122	0.00%	99.98%
169.0	18.373	0.200	7798.322	0.00%	99.98%
169.5	17.841	0.185	7798.507	0.00%	99.98%
170.0	17.276	0.171	7798.679	0.00%	99.98%
170.5	16.747	0.158	7798.837	0.00%	99.99%

Equipment: CT-023-3
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 52%

Operator: CWR

Zonal flux distribution table

Appendix Page: 11 Total:31

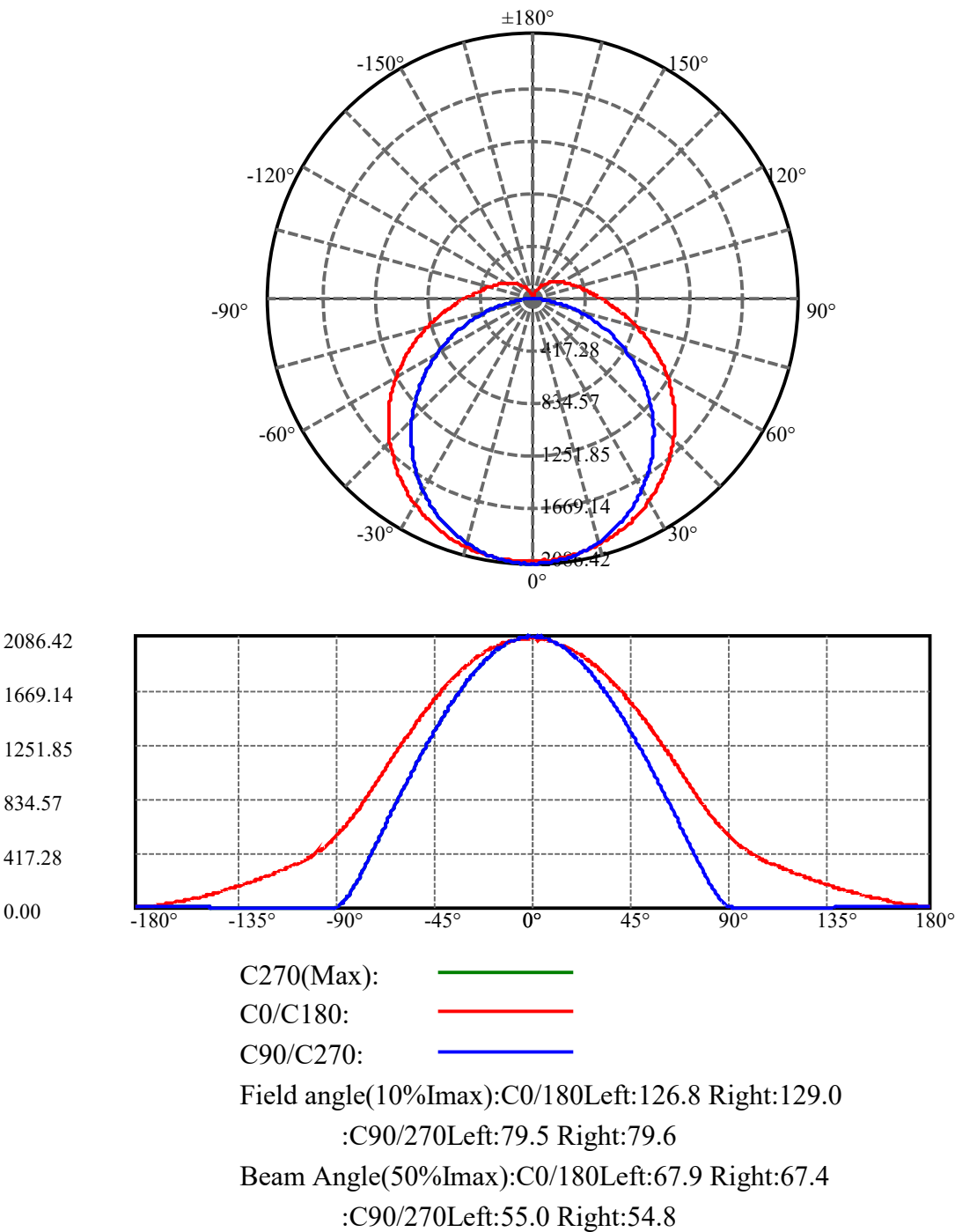
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
171.0	16.196	0.145	7798.982	0.00%	99.99%
171.5	15.604	0.133	7799.114	0.00%	99.99%
172.0	14.962	0.120	7799.235	0.00%	99.99%
172.5	14.562	0.109	7799.344	0.00%	99.99%
173.0	14.059	0.099	7799.443	0.00%	99.99%
173.5	13.571	0.089	7799.532	0.00%	99.99%
174.0	13.083	0.080	7799.611	0.00%	100.00%
174.5	12.615	0.071	7799.682	0.00%	100.00%
175.0	12.176	0.062	7799.744	0.00%	100.00%
175.5	11.718	0.054	7799.798	0.00%	100.00%
176.0	10.957	0.046	7799.844	0.00%	100.00%
176.5	10.579	0.039	7799.883	0.00%	100.00%
177.0	10.274	0.032	7799.915	0.00%	100.00%
177.5	9.961	0.027	7799.942	0.00%	100.00%
178.0	9.710	0.021	7799.963	0.00%	100.00%
178.5	9.537	0.016	7799.979	0.00%	100.00%
179.0	9.393	0.011	7799.991	0.00%	100.00%
179.5	9.290	0.007	7799.997	0.00%	100.00%
180.0	9.503	0.002	7800	0.00%	100.00%

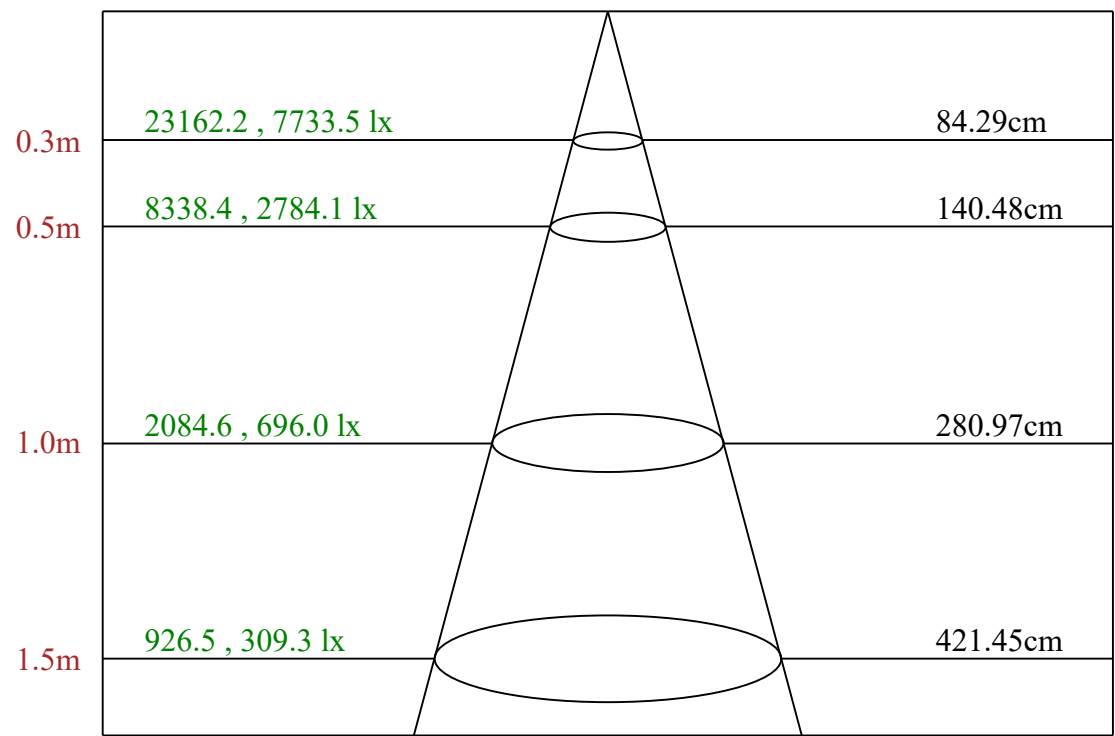
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1622.27	20.80%	20.80%
0-40	2680.03	34.36%	34.36%
0-60	4888.62	62.67%	62.67%
0-90	6902.75	88.50%	88.50%
0-120	7557.15	96.89%	96.89%
0-180	7800.00	100.00%	100.00%
60-90	2014.13	25.82%	25.82%
90-120	654.40	8.39%	8.39%
90-130	762.15	9.77%	9.77%
90-150	870.16	11.16%	11.16%
90-180	897.25	11.50%	11.50%
0-76.06	6240.00	80.00%	80.00%

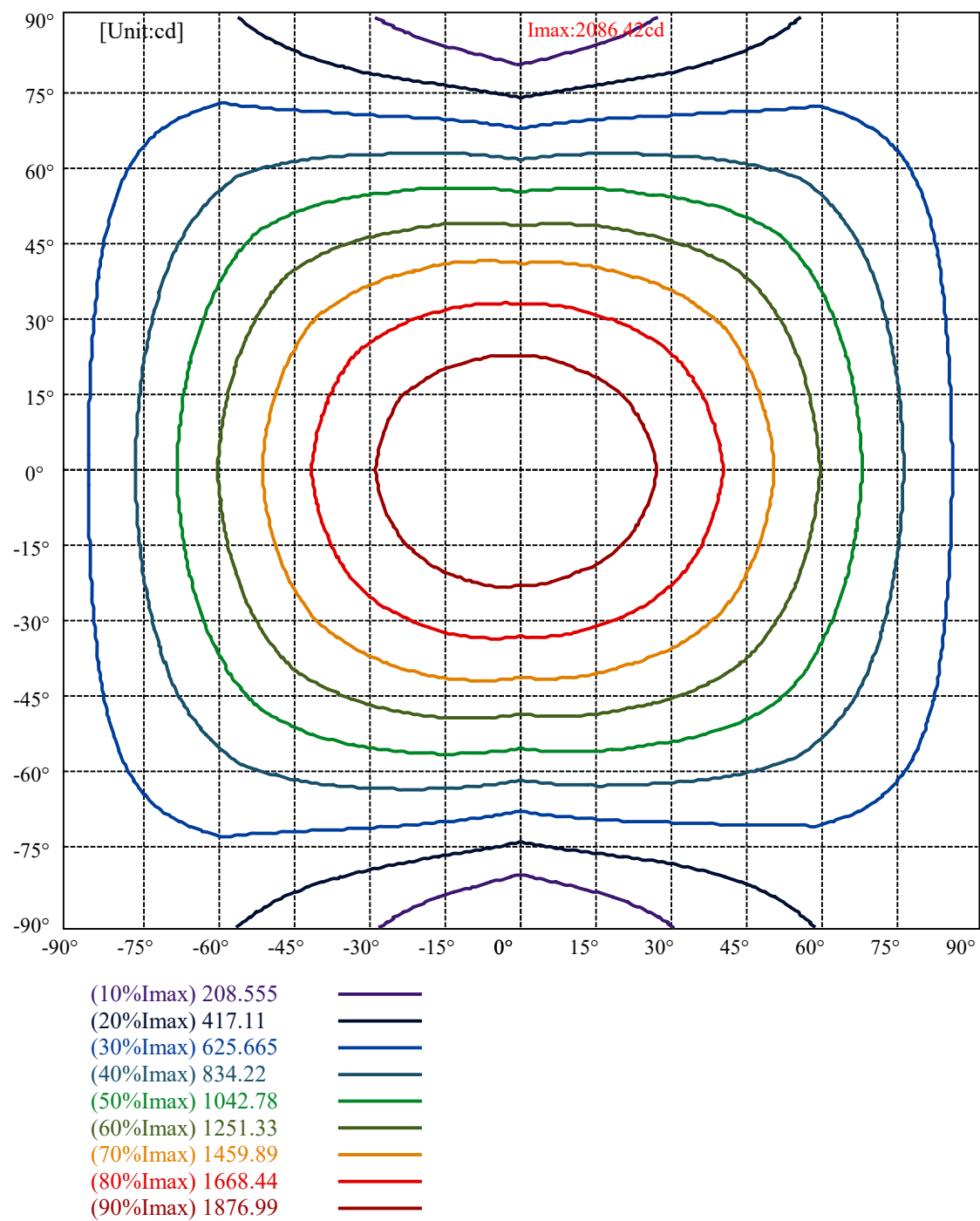
ZONAL LUMEN SUMMARY

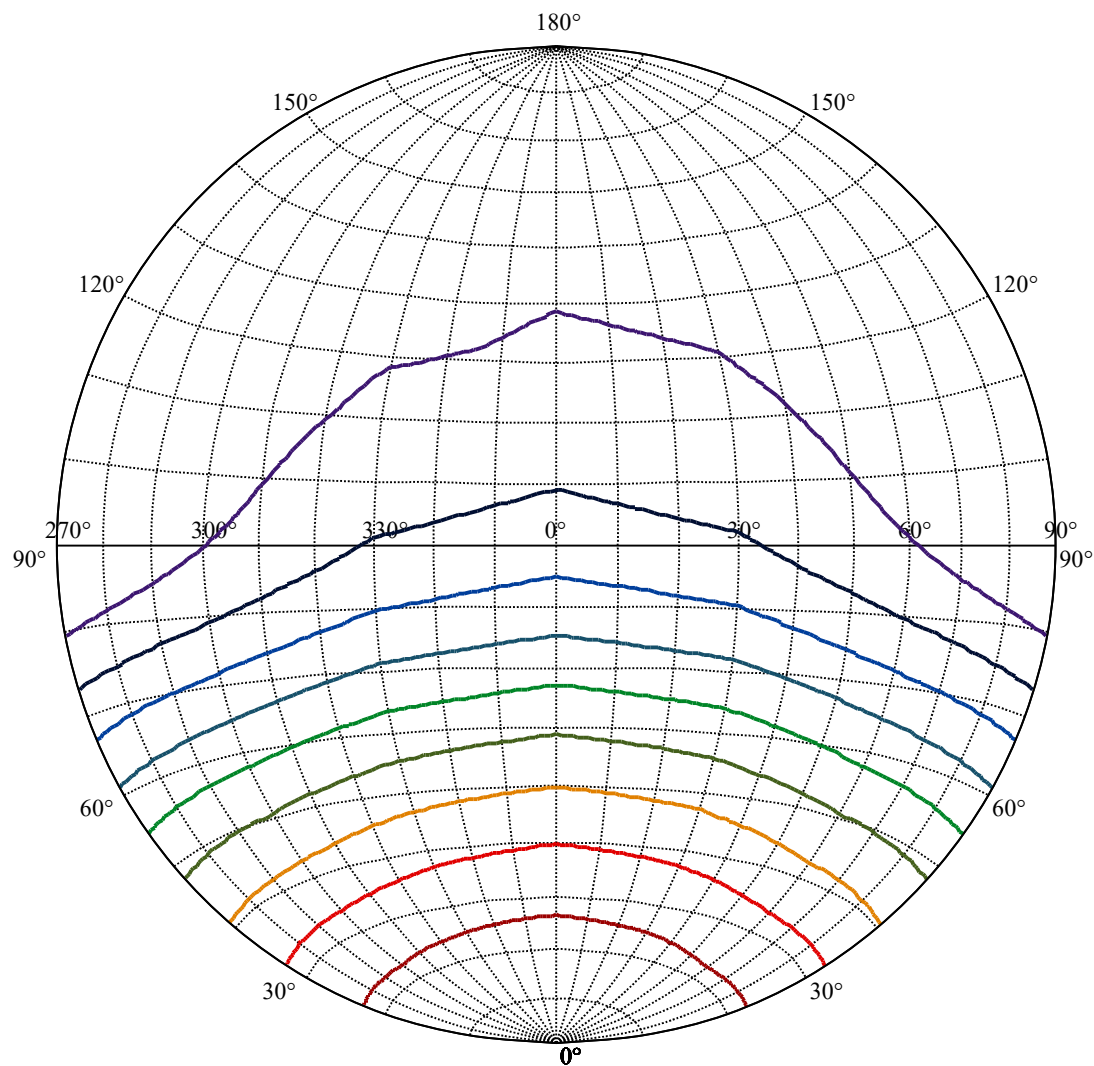
0-10	195.92
10-20	563.77
20-30	862.57
30-40	1057.76
40-50	1130.48
50-60	1078.11
60-70	913.49
70-80	670.81
80-90	429.83
90-100	286.08
100-110	212.09
110-120	156.23
120-130	107.75
130-140	69.35
140-150	38.66
150-160	18.79
160-170	6.98
170-180	1.32





Max , Ave Beam angle of C270 plane 109.11



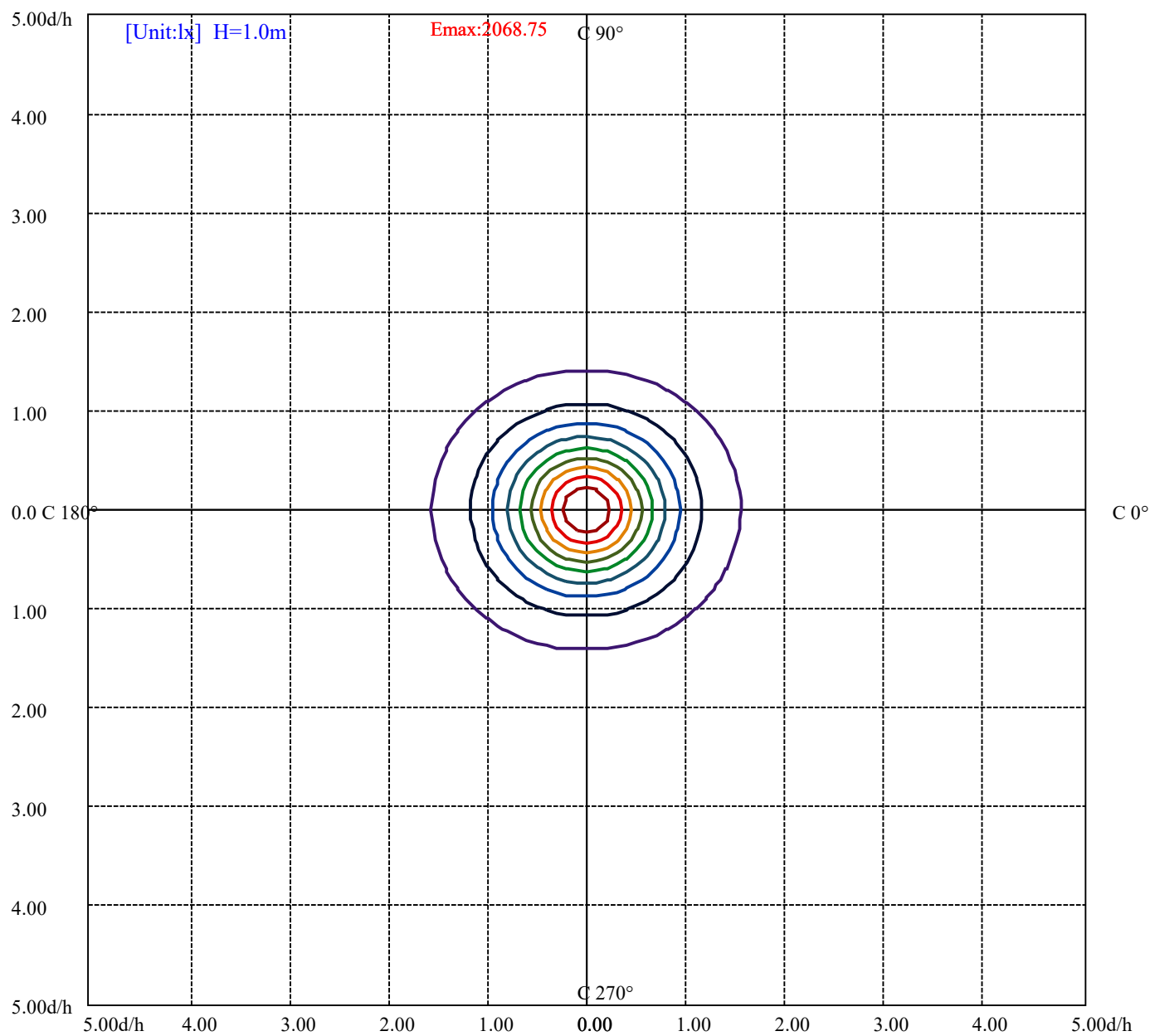


House

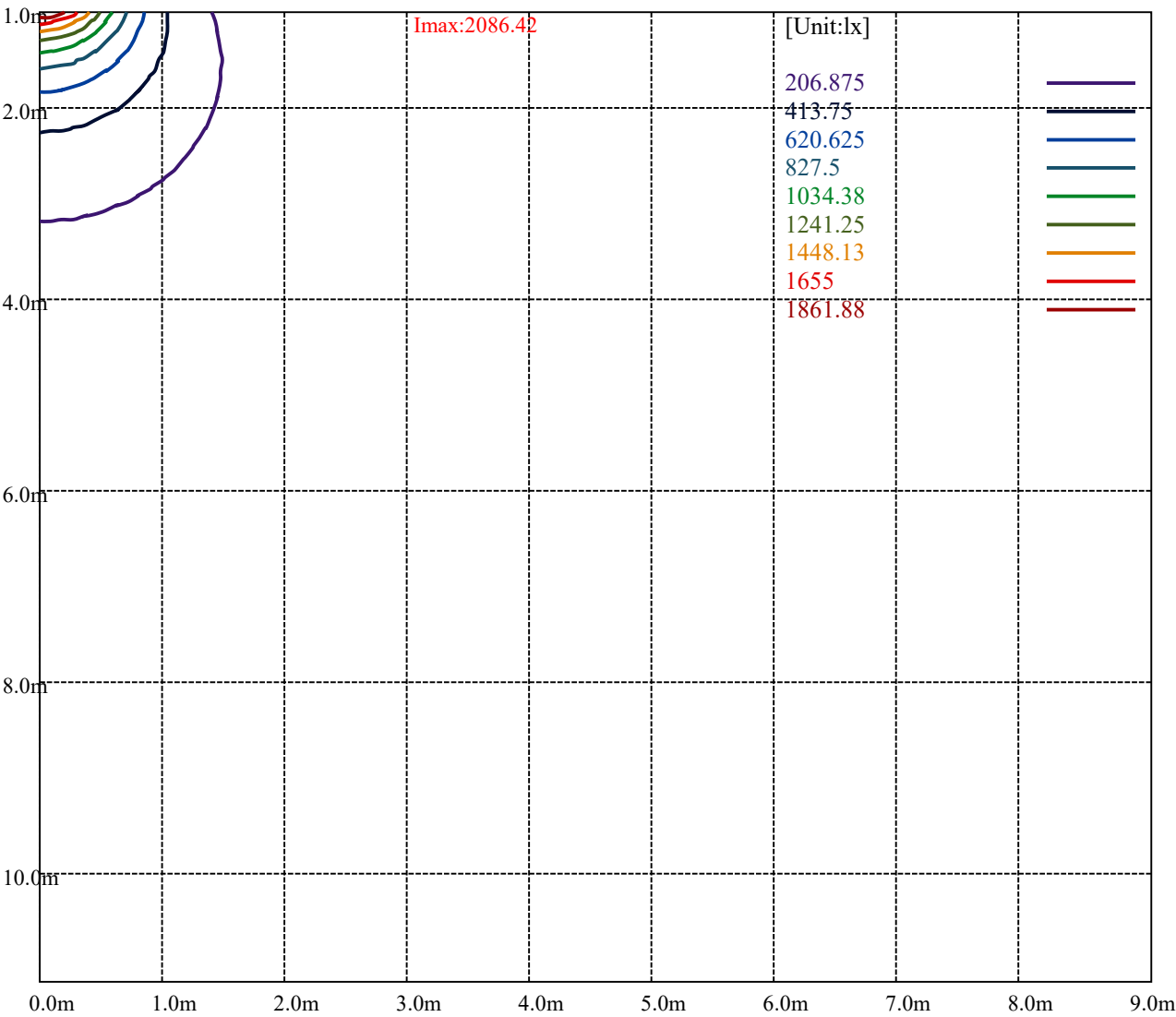
[Unit:cd]

Road

Imax:2086.42	
(10%Imax) 208.555	
(20%Imax) 417.11	
(30%Imax) 625.665	
(40%Imax) 834.22	
(50%Imax) 1042.78	
(60%Imax) 1251.33	
(70%Imax) 1459.89	
(80%Imax) 1668.44	
(90%Imax) 1876.99	



(10%Emax) 206.875	—
(20%Emax) 413.75	—
(30%Emax) 620.625	—
(40%Emax) 827.5	—
(50%Emax) 1034.37	—
(60%Emax) 1241.25	—
(70%Emax) 1448.12	—
(80%Emax) 1655	—
(90%Emax) 1861.87	—



Luminance Limiting Curve(no luminous side)

Appendix Page: 19 Total:31

Luminance Table

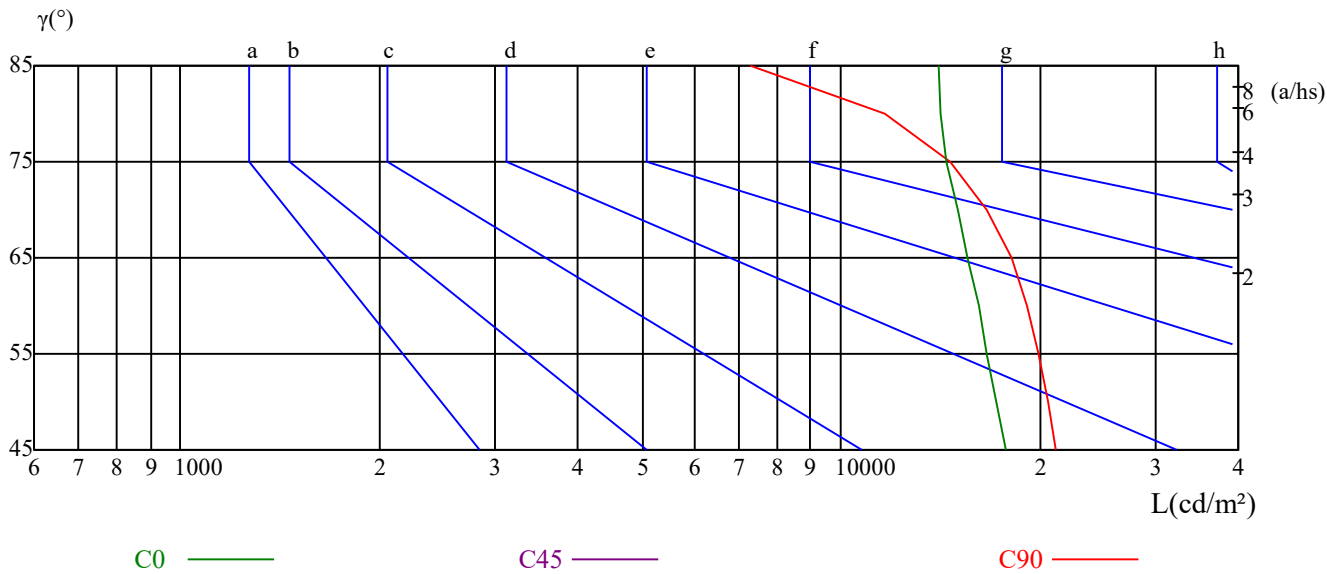
γ	45	50	55	60	65	70	75	80	85
C0	17758	17203	16669	16154	15588	15037	14478	14158	14092
C45	0	0	0	0	0	0	0	0	0
C90	21117	20575	19938	19122	18154	16677	14666	11656	7308

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
29733	18824	0	37296	15565	0	81497	8490	0

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve



Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	21.54	23.00	22.07	23.54	24.12	20.67	22.13	21.20	22.67	23.25
	3H	23.69	25.03	24.24	25.58	26.19	22.34	23.67	22.88	24.23	24.83
	4H	24.68	25.94	25.24	26.50	27.13	22.94	24.21	23.50	24.77	25.39
	6H	25.66	26.84	26.23	27.41	28.06	23.38	24.56	23.94	25.13	25.78
	8H	26.10	27.25	26.68	27.83	28.49	23.47	24.62	24.04	25.19	25.85
	12H	26.53	27.64	27.11	28.22	28.89	23.51	24.61	24.09	25.20	25.86
4H	2H	22.24	23.51	22.80	24.07	24.70	21.58	22.84	22.14	23.40	24.03
	3H	24.57	25.67	25.15	26.26	26.92	23.41	24.51	23.99	25.10	25.76
	4H	25.77	26.76	26.36	27.36	28.05	24.22	25.21	24.82	25.82	26.51
	6H	26.88	27.77	27.50	28.40	29.09	24.77	25.66	25.39	26.29	26.98
	8H	27.44	28.27	28.07	28.91	29.61	24.96	25.80	25.59	26.43	27.14
	12H	27.99	28.77	28.62	29.39	30.14	25.08	25.86	25.71	26.49	27.23
8H	4H	26.09	26.93	26.72	27.56	28.26	24.76	25.60	25.39	26.23	26.93
	6H	27.41	28.12	28.05	28.77	29.50	25.52	26.23	26.17	26.88	27.62
	8H	28.17	28.79	28.83	29.47	30.21	25.88	26.51	26.55	27.19	27.92
	12H	28.87	29.42	29.54	30.10	30.84	26.11	26.65	26.78	27.34	28.08
12H	4H	26.12	26.91	26.76	27.53	28.27	24.88	25.67	25.52	26.29	27.03
	6H	27.55	28.18	28.21	28.86	29.59	25.79	26.42	26.45	27.10	27.83
	8H	28.33	28.87	29.00	29.56	30.30	26.19	26.73	26.86	27.42	28.16
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.6					0.2/-0.9				
S = 1.5H		0.5/-0.6					0.5/-0.7				
S = 2.0H		0.6/-0.8					0.4/-0.6				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		10.6					12.5				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Intensity data(cd)

Appendix Page: 21 Total:31

C/γ(°)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
0.0	2068.75	2059.87	2065.18	2063.83	2062.77	2052.53	2063.15	2059.87	2058.81
30.0	2068.75	2057.07	2052.63	2059.58	2053.69	2056.39	2056.30	2053.01	2054.95
60.0	2068.75	2067.11	2070.49	2070.20	2070.39	2067.21	2071.36	2069.91	2064.60
90.0	2068.75	2081.30	2083.43	2077.63	2079.08	2080.72	2078.89	2081.59	2076.96
120.0	2068.75	2074.93	2076.38	2069.43	2070.68	2074.16	2068.85	2069.81	2071.07
150.0	2068.75	2067.50	2067.69	2068.37	2068.17	2063.63	2063.06	2064.21	2063.44
180.0	2068.75	2060.83	2066.24	2060.45	2061.90	2063.92	2059.97	2063.15	2063.63
210.0	2068.75	2057.46	2060.74	2058.81	2058.23	2064.21	2058.61	2053.69	2056.20
240.0	2068.75	2070.97	2073.00	2070.68	2067.88	2068.08	2063.92	2065.47	2067.30
270.0	2068.75	2084.58	2085.55	2086.42	2077.92	2082.75	2079.85	2077.73	2079.56
300.0	2068.75	2069.81	2071.84	2073.77	2075.61	2070.01	2069.04	2063.25	2068.08
330.0	2068.75	2067.01	2062.57	2062.67	2064.02	2060.16	2061.12	2056.49	2059.48
360.0	2068.75	2059.87	2065.18	2063.83	2062.77	2052.53	2063.15	2059.87	2058.81

C/γ(°)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
0.0	2055.52	2055.91	2054.85	2050.89	2048.57	2046.55	2046.84	2044.52	2044.71
30.0	2050.99	2051.86	2047.99	2038.63	2044.62	2042.39	2040.85	2038.73	2032.55
60.0	2063.15	2060.74	2051.28	2050.89	2050.22	2042.30	2047.03	2040.66	2036.51
90.0	2071.55	2070.59	2069.81	2063.92	2060.74	2063.73	2058.61	2051.86	2050.99
120.0	2065.28	2064.50	2061.32	2060.06	2061.99	2059.00	2054.66	2052.24	2048.86
150.0	2062.28	2064.60	2060.83	2060.35	2059.00	2052.92	2057.55	2050.12	2050.50
180.0	2062.48	2059.77	2056.78	2056.10	2057.84	2058.61	2058.71	2055.43	2053.11
210.0	2058.52	2058.42	2051.57	2050.70	2053.69	2048.77	2047.13	2047.70	2042.20
240.0	2064.99	2059.29	2061.03	2061.90	2056.68	2056.01	2057.46	2049.35	2045.58
270.0	2073.00	2067.59	2069.52	2073.39	2063.83	2064.60	2059.19	2058.90	2053.50
300.0	2065.37	2059.68	2057.26	2060.64	2053.98	2050.79	2047.13	2045.87	2038.05
330.0	2051.37	2055.04	2052.34	2050.50	2047.42	2045.77	2045.87	2036.99	2038.15
360.0	2055.52	2055.91	2054.85	2050.89	2048.57	2046.55	2046.84	2044.52	2044.71

C/γ(°)	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
0.0	2038.34	2036.02	2034.86	2031.58	2030.42	2022.60	2022.12	2018.26	2012.08
30.0	2024.05	2027.43	2023.47	2025.02	2015.56	2015.17	2009.96	2004.16	2004.07
60.0	2035.54	2027.72	2024.82	2020.87	2019.13	2010.63	2007.54	2007.25	2001.17
90.0	2044.91	2044.71	2037.09	2032.16	2026.18	2027.43	2018.07	2017.29	2011.40
120.0	2045.29	2037.86	2038.92	2027.53	2026.27	2025.89	2022.51	2017.00	2011.79
150.0	2051.47	2045.00	2047.99	2037.66	2043.26	2039.21	2033.22	2026.37	2028.01
180.0	2049.25	2053.01	2051.18	2045.29	2038.44	2037.18	2036.22	2036.51	2038.24
210.0	2043.55	2040.46	2034.57	2038.34	2036.80	2031.78	2032.64	2021.54	2020.87
240.0	2049.35	2045.87	2043.26	2036.80	2030.62	2031.78	2024.63	2025.40	2016.91
270.0	2049.54	2046.64	2044.81	2036.41	2033.90	2028.69	2021.64	2018.84	2012.56
300.0	2038.63	2033.32	2029.75	2028.40	2027.14	2019.03	2018.74	2011.40	2005.13
330.0	2035.44	2031.97	2025.98	2025.31	2020.09	2022.31	2018.36	2009.57	2002.81
360.0	2038.34	2036.02	2034.86	2031.58	2030.42	2022.60	2022.12	2018.26	2012.08

C/γ(°)	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5
0.0	2012.56	2011.31	2006.58	1998.37	1996.83	1994.03	1987.17	1989.20	1983.60
30.0	1999.05	1994.32	1992.58	1983.60	1980.90	1976.26	1975.97	1966.51	1965.74
60.0	1995.28	1992.29	1986.01	1981.77	1976.74	1968.06	1961.78	1954.25	1950.29
90.0	2004.07	1998.76	1993.83	1984.56	1982.73	1974.81	1967.57	1957.63	1948.36
120.0	2009.67	2001.94	2002.14	1995.28	1990.45	1981.38	1973.95	1966.03	1964.39
150.0	2027.24	2024.15	2017.68	2013.24	2013.43	2009.18	2003.49	1995.67	1990.94
180.0	2029.55	2025.60	2023.86	2022.60	2017.58	2013.05	2007.83	2006.77	2001.07
210.0	2017.20	2014.01	2010.34	2005.80	2005.23	2000.40	1993.25	1996.63	1985.72
240.0	2011.21	2010.34	2004.36	1999.72	1994.51	1988.81	1984.76	1976.74	1970.66
270.0	2006.58	2003.29	1996.92	1993.64	1985.43	1976.94	1970.86	1965.26	1961.97
300.0	2000.30	1998.85	1991.81	1989.59	1982.25	1973.37	1969.12	1961.97	1958.21
330.0	2001.75	1998.85	1994.61	1989.20	1983.99	1982.92	1977.23	1973.85	1968.25
360.0	2012.56	2011.31	2006.58	1998.37	1996.83	1994.03	1987.17	1989.20	1983.60

Intensity data(cd)

Appendix Page: 22 Total:31

C/γ(°)	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0
0.0	1975.68	1972.59	1969.60	1965.84	1961.39	1949.71	1946.53	1942.86	1938.03
30.0	1961.97	1955.70	1944.50	1945.37	1936.29	1932.04	1928.57	1922.00	1912.74
60.0	1944.69	1934.55	1932.04	1921.14	1916.60	1906.36	1902.41	1891.79	1884.35
90.0	1945.08	1934.84	1930.60	1920.27	1913.99	1906.36	1899.32	1891.50	1886.19
120.0	1962.26	1952.90	1950.10	1941.80	1933.78	1923.94	1917.27	1907.33	1901.83
150.0	1988.14	1986.11	1976.94	1976.84	1968.64	1961.88	1957.73	1952.42	1946.43
180.0	2001.65	1992.39	1990.26	1986.88	1979.64	1973.17	1971.24	1965.84	1957.82
210.0	1983.79	1980.61	1970.57	1964.00	1966.41	1960.82	1948.75	1942.09	1939.86
240.0	1968.25	1960.04	1955.60	1947.59	1940.93	1933.01	1927.12	1917.95	1910.90
270.0	1954.44	1943.73	1936.58	1927.80	1923.16	1912.35	1902.99	1898.93	1886.96
300.0	1949.71	1945.08	1938.03	1930.21	1927.12	1918.05	1909.74	1903.08	1891.79
330.0	1965.16	1956.18	1950.00	1946.33	1938.71	1934.75	1927.60	1919.30	1915.83
360.0	1975.68	1972.59	1969.60	1965.84	1961.39	1949.71	1946.53	1942.86	1938.03

C/γ(°)	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5
0.0	1933.11	1926.64	1920.17	1913.60	1905.69	1900.57	1893.04	1886.96	1882.61
30.0	1909.94	1902.60	1895.55	1892.46	1881.75	1875.08	1869.29	1860.12	1851.62
60.0	1878.37	1868.13	1861.95	1851.04	1843.13	1833.28	1829.23	1815.32	1811.75
90.0	1874.50	1864.95	1855.58	1843.90	1835.11	1826.72	1819.67	1808.08	1795.05
120.0	1896.71	1888.12	1877.69	1873.25	1866.11	1855.77	1845.06	1840.13	1828.74
150.0	1939.00	1929.53	1924.03	1923.94	1916.12	1905.40	1900.57	1891.40	1888.60
180.0	1954.83	1947.49	1945.46	1938.42	1934.27	1927.12	1917.76	1915.25	1908.10
210.0	1933.78	1929.92	1924.51	1915.73	1909.07	1903.66	1895.94	1886.09	1880.68
240.0	1903.47	1896.81	1889.76	1880.20	1872.38	1862.73	1854.91	1845.54	1839.56
270.0	1879.04	1871.99	1866.59	1852.69	1844.38	1831.93	1828.36	1812.91	1805.38
300.0	1882.23	1875.86	1870.45	1864.56	1854.13	1838.88	1837.53	1827.97	1816.19
330.0	1907.72	1903.56	1895.07	1887.83	1883.58	1875.76	1868.90	1863.21	1850.27
360.0	1933.11	1926.64	1920.17	1913.60	1905.69	1900.57	1893.04	1886.96	1882.61

C/γ(°)	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0
0.0	1872.57	1869.10	1861.28	1854.91	1848.15	1838.98	1830.00	1827.39	1817.35
30.0	1850.46	1843.71	1827.49	1825.46	1817.64	1805.67	1800.26	1793.41	1783.95
60.0	1801.23	1789.06	1784.62	1771.68	1762.90	1750.35	1744.46	1735.38	1723.61
90.0	1788.68	1776.22	1765.80	1753.05	1742.05	1732.39	1722.06	1714.34	1701.79
120.0	1816.67	1812.14	1803.74	1795.43	1781.73	1772.84	1765.31	1751.02	1744.27
150.0	1878.08	1873.83	1863.98	1858.38	1849.40	1842.26	1839.36	1825.17	1816.87
180.0	1903.85	1894.20	1885.12	1875.18	1870.16	1867.65	1860.22	1850.95	1846.51
210.0	1872.67	1867.07	1857.42	1855.20	1842.55	1837.43	1826.62	1821.79	1809.05
240.0	1832.22	1822.37	1810.69	1803.74	1796.30	1780.95	1778.25	1765.41	1755.75
270.0	1790.90	1783.27	1771.88	1763.19	1751.70	1744.27	1730.27	1722.74	1705.75
300.0	1808.28	1797.46	1791.67	1782.30	1774.77	1759.62	1749.77	1739.92	1730.75
330.0	1847.57	1841.10	1830.29	1823.14	1813.10	1806.15	1800.26	1790.90	1780.86
360.0	1872.57	1869.10	1861.28	1854.91	1848.15	1838.98	1830.00	1827.39	1817.35

C/γ(°)	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5
0.0	1810.79	1806.63	1795.05	1788.48	1774.77	1769.85	1763.29	1752.28	1741.56
30.0	1778.25	1768.50	1755.95	1746.29	1737.41	1730.56	1724.86	1710.09	1702.85
60.0	1715.11	1702.46	1692.81	1680.84	1673.31	1662.30	1653.32	1639.61	1627.25
90.0	1687.21	1680.64	1664.52	1659.11	1641.83	1629.09	1614.12	1608.04	1591.15
120.0	1735.38	1721.00	1712.60	1701.40	1691.26	1679.97	1671.95	1661.14	1647.34
150.0	1811.17	1803.45	1790.70	1783.08	1775.55	1765.12	1756.53	1745.91	1741.18
180.0	1836.85	1830.77	1824.01	1813.20	1805.57	1791.77	1783.66	1775.84	1770.53
210.0	1808.47	1798.33	1786.26	1779.31	1767.34	1759.62	1747.84	1743.30	1734.61
240.0	1745.62	1735.96	1725.05	1716.75	1703.91	1690.39	1683.83	1673.98	1660.85
270.0	1694.84	1686.82	1674.56	1661.91	1650.81	1638.07	1626.87	1612.39	1601.28
300.0	1721.19	1711.34	1697.44	1690.78	1678.04	1669.64	1654.96	1646.08	1632.66
330.0	1776.51	1761.26	1757.01	1745.14	1737.70	1728.34	1723.22	1713.28	1700.34
360.0	1810.79	1806.63	1795.05	1788.48	1774.77	1769.85	1763.29	1752.28	1741.56

Intensity data(cd)

Appendix Page: 23 Total:31

C/γ(°)	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
0.0	1734.03	1722.35	1715.88	1711.34	1702.37	1694.35	1684.31	1673.60	1666.16
30.0	1697.15	1687.88	1674.08	1660.66	1656.31	1646.37	1637.97	1625.23	1615.38
60.0	1618.57	1603.99	1593.95	1579.47	1572.90	1558.13	1546.54	1533.99	1526.66
90.0	1578.40	1569.62	1559.67	1543.07	1527.04	1518.06	1500.59	1488.71	1474.91
120.0	1636.43	1624.84	1614.51	1606.30	1587.96	1581.01	1563.34	1550.98	1543.07
150.0	1729.21	1718.39	1707.77	1698.50	1694.26	1683.15	1670.51	1656.51	1649.65
180.0	1758.94	1749.87	1744.07	1738.57	1724.57	1717.14	1710.96	1699.47	1686.82
210.0	1722.35	1711.63	1702.85	1698.50	1684.41	1673.02	1662.20	1656.60	1644.92
240.0	1646.18	1633.14	1625.61	1618.18	1604.28	1593.85	1581.69	1568.56	1554.75
270.0	1587.19	1575.41	1563.25	1550.69	1536.21	1522.60	1506.67	1497.31	1483.50
300.0	1623.88	1609.49	1599.74	1585.26	1576.09	1562.76	1550.31	1539.69	1527.72
330.0	1690.30	1680.84	1671.09	1662.78	1652.16	1644.15	1629.96	1618.47	1612.29
360.0	1734.03	1722.35	1715.88	1711.34	1702.37	1694.35	1684.31	1673.60	1666.16

C/γ(°)	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5
0.0	1654.00	1645.79	1631.50	1626.39	1611.61	1606.69	1595.11	1585.84	1571.55
30.0	1605.15	1595.59	1586.03	1574.93	1563.54	1556.29	1546.06	1533.03	1522.60
60.0	1510.53	1499.53	1484.76	1474.23	1462.84	1449.90	1437.26	1427.31	1413.60
90.0	1461.68	1447.20	1436.00	1422.29	1407.81	1395.26	1378.27	1364.85	1350.08
120.0	1531.58	1516.81	1504.74	1491.71	1481.47	1469.11	1453.86	1442.66	1431.75
150.0	1638.45	1627.93	1616.06	1608.91	1597.91	1589.51	1571.64	1564.98	1553.78
180.0	1681.61	1670.31	1654.00	1649.17	1638.65	1627.06	1621.17	1608.81	1601.09
210.0	1630.34	1626.39	1616.06	1604.08	1588.54	1580.14	1574.83	1561.31	1547.99
240.0	1542.39	1533.12	1519.61	1507.44	1495.09	1482.44	1469.40	1456.85	1445.56
270.0	1468.83	1454.25	1442.47	1428.76	1414.66	1402.98	1386.28	1371.70	1356.16
300.0	1513.62	1505.42	1490.84	1478.58	1464.67	1454.63	1436.97	1426.06	1413.12
330.0	1600.70	1589.31	1580.33	1568.36	1557.36	1548.76	1536.21	1526.56	1516.23
360.0	1654.00	1645.79	1631.50	1626.39	1611.61	1606.69	1595.11	1585.84	1571.55

C/γ(°)	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0
0.0	1563.63	1555.14	1544.81	1533.51	1525.88	1510.92	1497.79	1490.84	1480.89
30.0	1513.81	1501.65	1488.52	1477.71	1466.12	1455.21	1444.21	1430.79	1423.55
60.0	1400.47	1390.72	1371.80	1361.95	1347.28	1334.34	1323.53	1307.40	1294.85
90.0	1334.92	1322.95	1307.21	1294.47	1274.87	1262.90	1248.99	1232.97	1217.62
120.0	1414.08	1401.34	1388.98	1377.40	1362.53	1349.11	1333.57	1324.40	1306.63
150.0	1542.20	1532.16	1518.55	1507.73	1495.95	1487.46	1475.39	1462.26	1447.78
180.0	1592.02	1578.11	1571.64	1559.67	1543.65	1533.03	1524.72	1510.82	1504.26
210.0	1539.69	1527.33	1516.61	1503.29	1492.29	1483.40	1468.92	1455.79	1447.59
240.0	1427.70	1415.92	1404.33	1390.62	1375.85	1367.26	1352.78	1338.10	1323.04
270.0	1344.38	1325.94	1312.33	1300.93	1283.65	1267.43	1251.02	1236.73	1221.48
300.0	1404.24	1391.01	1375.27	1361.56	1351.52	1333.37	1324.30	1310.78	1298.23
330.0	1504.45	1491.90	1483.11	1470.56	1455.31	1447.68	1440.06	1423.93	1411.28
360.0	1563.63	1555.14	1544.81	1533.51	1525.88	1510.92	1497.79	1490.84	1480.89

C/γ(°)	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5
0.0	1470.27	1454.63	1446.81	1437.26	1424.70	1414.18	1400.86	1392.56	1380.39
30.0	1408.68	1396.42	1386.67	1371.32	1360.99	1349.79	1339.46	1327.58	1313.29
60.0	1282.30	1268.40	1253.63	1240.69	1228.82	1211.63	1197.54	1185.56	1170.02
90.0	1201.30	1186.14	1170.50	1157.28	1140.38	1122.71	1107.75	1092.40	1078.30
120.0	1296.40	1281.92	1268.11	1252.37	1240.11	1224.86	1211.92	1197.63	1184.89
150.0	1439.28	1427.02	1416.31	1404.62	1387.92	1380.78	1364.17	1352.39	1339.07
180.0	1489.97	1480.31	1471.05	1455.98	1443.24	1434.17	1423.74	1410.32	1399.51
210.0	1438.22	1425.09	1409.64	1399.02	1383.96	1372.38	1363.11	1349.01	1336.75
240.0	1307.21	1299.58	1286.16	1268.30	1254.88	1241.37	1226.50	1213.56	1195.80
270.0	1207.87	1191.65	1173.98	1159.40	1144.24	1128.22	1114.03	1098.77	1081.78
300.0	1283.94	1266.76	1252.28	1241.17	1228.43	1213.27	1199.66	1184.89	1171.47
330.0	1402.79	1386.76	1376.14	1366.20	1352.10	1340.04	1329.03	1316.29	1301.13
360.0	1470.27	1454.63	1446.81	1437.26	1424.70	1414.18	1400.86	1392.56	1380.39

Intensity data(cd)

Appendix Page: 24 Total:31

C/γ(°)	54.0	54.5	55.0	55.5	56.0	56.5	57.0	57.5	58.0
0.0	1368.81	1355.10	1340.52	1329.99	1321.50	1307.50	1296.69	1284.04	1270.23
30.0	1300.07	1289.25	1276.03	1262.80	1249.09	1241.27	1227.27	1214.33	1201.49
60.0	1156.12	1142.31	1129.38	1113.16	1100.70	1085.93	1071.06	1054.26	1039.30
90.0	1062.66	1045.00	1029.74	1011.21	997.88	982.15	964.01	947.20	932.96
120.0	1171.18	1154.67	1138.55	1126.67	1111.23	1095.30	1080.81	1068.55	1050.89
150.0	1327.68	1316.86	1302.67	1288.00	1277.67	1262.99	1252.37	1240.88	1223.99
180.0	1389.66	1374.60	1363.30	1348.34	1338.97	1325.36	1314.16	1303.54	1290.22
210.0	1323.91	1313.20	1297.36	1285.78	1275.93	1262.70	1246.87	1234.61	1222.54
240.0	1185.85	1169.63	1157.66	1143.37	1125.42	1114.51	1098.87	1084.48	1069.61
270.0	1064.69	1050.31	1035.53	1015.94	1002.32	983.01	968.63	950.89	935.25
300.0	1153.42	1142.12	1126.67	1111.80	1101.18	1085.54	1069.04	1054.07	1039.11
330.0	1289.45	1279.79	1264.44	1251.70	1236.93	1226.79	1215.01	1203.14	1188.27
360.0	1368.81	1355.10	1340.52	1329.99	1321.50	1307.50	1296.69	1284.04	1270.23
C/γ(°)	58.5	59.0	59.5	60.0	60.5	61.0	61.5	62.0	62.5
0.0	1259.32	1248.51	1236.15	1222.35	1210.86	1201.30	1182.96	1174.08	1162.10
30.0	1190.49	1175.62	1164.42	1153.32	1136.52	1126.96	1110.94	1097.32	1086.61
60.0	1027.42	1012.75	997.11	981.66	967.95	953.77	941.84	924.72	910.20
90.0	915.37	898.66	882.94	865.27	846.41	832.40	816.21	799.97	781.83
120.0	1038.43	1022.89	1008.31	993.92	977.41	963.16	948.62	932.54	917.59
150.0	1210.67	1199.76	1187.01	1173.79	1159.50	1147.82	1132.56	1119.91	1103.98
180.0	1278.15	1264.15	1251.89	1242.04	1228.72	1218.10	1203.04	1191.16	1175.72
210.0	1209.31	1196.96	1182.28	1170.99	1155.25	1143.86	1130.24	1118.27	1103.98
240.0	1053.97	1037.95	1024.34	1011.50	994.99	980.41	964.87	952.27	933.89
270.0	917.63	902.78	883.33	868.45	851.81	833.82	818.16	802.01	783.89
300.0	1022.98	1009.76	994.79	980.99	965.64	950.28	937.10	923.38	905.06
330.0	1179.29	1165.97	1149.84	1137.49	1123.39	1110.07	1098.10	1084.19	1070.97
360.0	1259.32	1248.51	1236.15	1222.35	1210.86	1201.30	1182.96	1174.08	1162.10
C/γ(°)	63.0	63.5	64.0	64.5	65.0	65.5	66.0	66.5	67.0
0.0	1150.04	1133.33	1123.29	1106.11	1096.45	1085.35	1072.12	1060.15	1046.54
30.0	1072.99	1060.83	1045.38	1029.93	1021.15	1007.15	993.34	979.73	968.24
60.0	895.75	879.41	867.90	852.28	836.74	821.78	805.88	792.98	777.10
90.0	765.43	748.90	731.73	713.93	699.07	681.24	663.62	646.24	627.63
120.0	902.75	887.95	871.84	858.21	843.61	826.79	811.36	796.60	780.77
150.0	1093.46	1080.72	1063.34	1052.72	1039.59	1026.75	1009.66	997.11	982.15
180.0	1163.84	1150.33	1137.68	1126.19	1112.58	1099.54	1085.25	1075.02	1058.99
210.0	1089.41	1074.83	1062.76	1049.05	1036.02	1021.92	1007.92	994.89	978.96
240.0	919.20	903.49	888.99	875.88	859.04	844.38	827.39	813.51	798.18
270.0	764.90	748.81	732.95	713.75	699.52	680.58	662.84	645.86	628.06
300.0	892.13	873.81	860.43	846.33	831.21	814.73	800.19	785.73	770.26
330.0	1058.51	1042.20	1031.67	1020.57	1002.42	990.83	977.90	965.54	948.47
360.0	1150.04	1133.33	1123.29	1106.11	1096.45	1085.35	1072.12	1060.15	1046.54
C/γ(°)	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5
0.0	1031.58	1020.47	1006.57	994.12	980.21	969.59	954.56	943.77	930.98
30.0	953.62	939.56	926.74	912.04	900.70	886.78	872.49	859.22	848.39
60.0	760.76	746.83	730.73	715.48	702.79	687.07	672.16	657.56	641.57
90.0	613.61	594.62	576.88	559.55	542.21	524.88	507.54	490.22	473.12
120.0	765.48	750.51	734.96	720.58	705.73	690.77	673.49	659.48	643.28
150.0	971.62	956.60	940.30	929.05	916.27	901.67	886.68	875.01	862.13
180.0	1045.38	1032.73	1020.86	1008.12	994.21	981.28	969.69	956.23	942.00
210.0	966.99	953.43	942.66	925.71	912.22	899.32	884.44	870.97	860.00
240.0	785.51	768.67	752.47	737.39	723.29	707.46	692.87	675.74	661.02
270.0	611.95	594.14	577.26	561.12	541.75	524.54	508.34	489.81	473.42
300.0	753.99	738.76	724.44	709.95	693.63	679.93	663.72	647.68	634.01
330.0	937.19	923.85	910.14	896.58	883.20	868.79	856.62	842.65	830.16
360.0	1031.58	1020.47	1006.57	994.12	980.21	969.59	954.56	943.77	930.98

Intensity data(cd)

Appendix Page: 25 Total:31

C/γ(°)	72.0	72.5	73.0	73.5	74.0	74.5	75.0	75.5	76.0
0.0	918.08	905.36	891.42	879.60	867.45	855.88	841.59	833.17	818.09
30.0	833.17	822.11	807.53	794.35	781.50	768.24	755.92	745.13	731.64
60.0	628.52	613.63	599.23	583.49	568.47	555.80	541.28	527.92	512.55
90.0	456.67	439.30	421.41	403.91	387.92	370.86	354.91	338.82	322.35
120.0	629.61	615.27	598.32	584.25	569.87	554.99	538.65	524.94	509.92
150.0	849.12	831.59	820.21	806.38	793.51	779.96	768.03	753.70	742.45
180.0	928.94	915.80	902.49	890.54	878.29	865.25	855.38	841.41	830.27
210.0	845.02	829.58	818.15	806.00	791.17	779.58	766.26	754.59	740.54
240.0	647.79	632.88	617.06	600.77	588.52	572.28	557.31	542.34	527.37
270.0	454.50	437.73	421.56	404.57	387.32	369.79	353.29	337.51	320.35
300.0	619.19	604.06	589.02	575.77	560.36	544.95	529.55	514.13	498.81
330.0	816.63	803.98	791.64	777.56	763.41	751.59	738.57	727.23	713.60
360.0	918.08	905.36	891.42	879.60	867.45	855.88	841.59	833.17	818.09

C/γ(°)	76.5	77.0	77.5	78.0	78.5	79.0	79.5	80.0	80.5
0.0	808.80	794.91	784.85	772.71	761.10	748.81	737.32	726.76	715.92
30.0	718.17	706.60	693.27	683.79	670.53	658.75	647.14	636.46	625.45
60.0	499.13	485.08	470.06	458.72	444.85	431.70	418.27	405.78	394.25
90.0	305.70	289.49	273.40	258.61	243.19	227.02	210.54	195.14	181.06
120.0	495.75	481.98	467.24	453.71	440.32	426.13	412.91	399.25	387.44
150.0	728.67	716.93	703.29	692.92	679.88	668.78	656.04	643.21	632.76
180.0	816.06	804.64	793.44	782.19	769.39	757.12	746.52	735.81	724.77
210.0	728.42	717.15	704.15	691.88	678.71	668.35	655.08	645.27	632.59
240.0	512.41	497.53	484.60	470.61	457.36	443.67	429.94	416.60	404.24
270.0	303.67	286.88	270.90	254.96	239.02	223.09	207.85	192.62	177.52
300.0	485.07	471.18	456.64	443.18	429.94	416.71	403.31	390.82	378.73
330.0	699.36	690.00	675.02	665.69	654.28	641.43	630.13	618.50	607.13
360.0	808.80	794.91	784.85	772.71	761.10	748.81	737.32	726.76	715.92

C/γ(°)	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5	85.0
0.0	705.25	693.98	685.02	673.46	664.81	652.95	643.70	632.95	622.12
30.0	614.83	601.68	592.64	582.77	572.78	560.65	550.58	540.50	530.43
60.0	382.40	370.12	357.27	347.31	337.15	326.83	316.72	305.58	296.34
90.0	167.13	153.58	139.64	126.23	113.01	100.88	89.54	78.34	66.91
120.0	375.47	363.43	350.74	340.48	328.51	316.93	306.68	296.05	287.07
150.0	621.01	609.72	598.67	587.74	577.04	565.58	555.28	544.98	534.68
180.0	712.82	700.20	691.38	680.55	669.26	658.65	647.04	638.85	626.57
210.0	620.99	611.00	598.32	589.54	578.39	566.69	558.32	545.55	536.91
240.0	392.14	380.19	368.53	356.87	345.79	335.06	323.86	313.30	303.18
270.0	163.43	149.99	136.08	122.81	109.67	96.52	84.76	73.66	63.18
300.0	366.32	353.76	342.39	331.04	319.91	309.36	299.73	289.62	279.76
330.0	596.22	585.83	575.99	564.97	553.99	543.79	535.29	525.31	515.93
360.0	705.25	693.98	685.02	673.46	664.81	652.95	643.70	632.95	622.12

C/γ(°)	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5
0.0	613.37	603.79	595.07	585.30	577.71	568.76	560.69	552.76	543.95
30.0	520.36	510.32	501.97	493.53	485.18	476.97	469.32	460.97	453.30
60.0	286.50	278.57	270.65	262.75	254.83	246.91	239.78	233.35	227.42
90.0	55.99	46.63	38.38	30.97	24.11	18.29	13.73	10.34	7.99
120.0	277.73	268.36	259.00	249.64	242.04	234.27	227.10	219.84	213.42
150.0	524.38	514.09	503.81	494.07	485.13	476.13	467.24	458.71	450.98
180.0	617.59	608.13	598.50	590.06	579.87	569.32	562.26	553.14	544.24
210.0	525.92	517.47	507.64	498.09	490.22	480.28	472.88	464.13	456.05
240.0	294.18	284.84	275.91	267.12	259.01	251.25	244.33	236.88	229.68
270.0	53.38	43.71	35.18	27.80	21.36	15.85	11.45	8.18	5.95
300.0	270.70	262.02	253.66	246.08	238.13	231.13	224.15	217.68	211.71
330.0	506.45	496.85	488.46	479.24	471.58	463.68	455.35	447.97	440.08
360.0	613.37	603.79	595.07	585.30	577.71	568.76	560.69	552.76	543.95

Intensity data(cd)

Appendix Page: 26 Total:31

C/γ(°)	90.0	90.5	91.0	91.5	92.0	92.5	93.0	93.5	94.0
0.0	535.22	528.73	520.23	513.02	505.75	498.90	490.77	485.25	477.53
30.0	446.02	438.47	431.04	423.73	417.00	410.98	404.41	398.45	392.30
60.0	221.54	215.69	210.39	205.18	200.52	196.28	192.19	188.10	184.19
90.0	6.51	5.88	5.59	5.40	5.24	5.07	4.88	4.68	4.51
120.0	207.58	201.69	195.99	190.78	185.91	181.47	177.18	173.09	169.41
150.0	443.28	434.29	427.24	419.78	412.47	405.81	398.74	392.43	385.78
180.0	535.34	526.44	517.54	508.68	500.91	493.11	486.67	479.24	472.01
210.0	447.55	439.45	432.25	425.68	417.56	410.54	405.09	397.46	390.66
240.0	223.49	217.58	211.91	206.40	201.18	196.69	192.36	188.06	183.95
270.0	4.84	4.44	4.25	4.09	3.94	3.76	3.57	3.42	3.32
300.0	205.68	200.22	195.15	190.29	185.57	181.41	177.37	173.39	170.05
330.0	433.77	424.87	418.86	412.77	405.14	398.90	392.65	387.11	380.78
360.0	535.22	528.73	520.23	513.02	505.75	498.90	490.77	485.25	477.53
C/γ(°)	94.5	95.0	95.5	96.0	96.5	97.0	97.5	98.0	98.5
0.0	471.46	464.10	458.37	452.28	447.12	440.33	434.45	429.09	423.42
30.0	386.41	380.86	375.07	369.68	364.73	359.54	354.77	349.85	345.26
60.0	180.98	177.79	174.54	171.41	168.76	165.89	163.66	161.55	159.29
90.0	4.38	4.25	4.12	4.00	3.89	3.76	3.65	3.59	3.50
120.0	165.98	162.88	159.81	157.07	154.22	151.73	149.01	146.61	144.45
150.0	379.85	373.67	367.66	362.21	356.80	351.58	346.51	341.70	336.94
180.0	465.44	458.40	452.03	445.41	438.80	432.92	427.08	421.64	416.35
210.0	385.75	379.99	373.00	367.67	361.52	356.82	352.15	347.33	342.98
240.0	180.20	176.65	173.49	170.45	167.20	164.62	161.99	159.66	157.09
270.0	3.20	3.11	3.01	2.92	2.84	2.79	2.72	2.66	2.60
300.0	166.81	163.66	160.69	158.07	155.49	152.85	150.66	148.65	146.64
330.0	374.70	370.23	364.69	358.48	353.22	349.78	344.33	339.57	335.43
360.0	471.46	464.10	458.37	452.28	447.12	440.33	434.45	429.09	423.42
C/γ(°)	99.0	99.5	100.0	100.5	101.0	101.5	102.0	102.5	103.0
0.0	417.96	414.17	407.92	403.31	399.18	393.91	389.17	384.81	380.42
30.0	340.99	336.51	332.53	328.64	324.59	321.10	317.43	313.47	310.04
60.0	156.96	154.95	153.06	151.19	149.02	147.16	145.23	143.51	141.79
90.0	3.43	3.35	3.35	3.34	3.33	3.32	3.31	3.30	3.30
120.0	142.20	140.27	138.17	136.00	133.99	131.91	130.11	128.33	126.42
150.0	331.88	328.23	323.87	319.55	315.53	311.60	307.65	303.70	300.30
180.0	411.01	404.92	399.81	395.19	390.42	385.50	380.59	376.44	371.68
210.0	338.74	334.27	328.58	325.02	321.39	317.76	313.16	309.18	306.00
240.0	154.82	152.33	149.99	147.96	145.88	143.90	141.84	139.84	137.81
270.0	2.54	2.47	2.45	2.40	2.38	2.35	2.34	2.32	2.31
300.0	144.43	142.46	140.31	138.59	136.86	134.95	133.36	131.80	130.05
330.0	331.39	327.58	323.41	318.85	316.23	312.50	308.53	305.13	301.28
360.0	417.96	414.17	407.92	403.31	399.18	393.91	389.17	384.81	380.42
C/γ(°)	103.5	104.0	104.5	105.0	105.5	106.0	106.5	107.0	107.5
0.0	376.96	372.31	368.04	363.75	359.67	356.28	352.68	349.17	345.64
30.0	306.62	303.50	299.95	296.83	293.90	290.95	287.53	284.30	281.51
60.0	140.23	138.52	136.94	135.13	133.52	131.77	130.39	128.76	127.24
90.0	3.29	3.31	3.33	3.36	3.37	3.41	3.42	3.44	3.47
120.0	124.82	123.00	121.18	119.62	117.95	116.27	114.56	113.07	111.42
150.0	297.07	293.58	289.76	286.54	283.28	280.00	277.07	273.66	270.87
180.0	367.66	363.73	359.13	355.63	351.21	347.40	343.27	339.47	335.87
210.0	302.73	298.46	295.69	291.75	289.24	285.38	282.00	278.62	275.23
240.0	136.15	134.05	132.22	130.15	128.61	126.86	125.05	123.48	121.82
270.0	2.32	2.31	2.32	2.32	2.33	2.35	2.39	2.45	2.48
300.0	128.47	126.88	125.18	123.51	121.58	119.29	117.36	115.53	113.45
330.0	298.47	295.40	291.74	288.94	285.60	282.42	279.25	276.08	272.91
360.0	376.96	372.31	368.04	363.75	359.67	356.28	352.68	349.17	345.64

Intensity data(cd)

Appendix Page: 27 Total:31

C/γ(°)	108.0	108.5	109.0	109.5	110.0	110.5	111.0	111.5	112.0
0.0	342.10	338.57	335.41	331.71	328.49	323.76	320.87	317.98	313.98
30.0	278.43	276.04	273.20	270.07	267.14	264.25	261.11	258.46	255.72
60.0	125.88	124.40	122.91	121.59	120.02	118.63	117.37	115.97	114.72
90.0	3.54	3.61	3.68	3.72	3.76	3.80	3.87	3.99	4.08
120.0	110.11	108.65	107.24	105.76	104.52	103.22	101.81	100.72	99.35
150.0	267.49	264.69	261.45	258.23	254.74	252.24	249.21	246.06	243.07
180.0	332.32	328.23	324.82	321.28	317.43	313.89	310.35	306.38	303.16
210.0	271.85	268.47	265.52	262.01	258.86	256.00	252.71	249.88	246.78
240.0	120.20	118.69	117.10	115.52	113.90	112.56	111.08	109.67	108.19
270.0	2.53	2.56	2.61	2.64	2.66	2.68	2.70	2.75	2.83
300.0	110.34	106.11	102.40	99.14	96.07	92.92	89.48	88.00	87.82
330.0	269.74	266.95	264.36	261.43	258.04	255.85	252.62	249.79	247.07
360.0	342.10	338.57	335.41	331.71	328.49	323.76	320.87	317.98	313.98
C/γ(°)	112.5	113.0	113.5	114.0	114.5	115.0	115.5	116.0	116.5
0.0	310.79	306.80	303.83	300.35	297.09	294.04	290.67	287.93	284.34
30.0	252.56	250.03	247.34	244.35	241.76	238.76	236.30	233.48	230.84
60.0	113.35	112.22	110.86	109.69	108.54	107.13	105.62	103.15	99.18
90.0	4.14	4.17	4.23	4.28	4.33	4.40	4.46	4.50	4.53
120.0	98.04	96.92	95.81	94.64	93.33	92.27	91.08	89.95	88.85
150.0	240.13	237.57	234.59	231.58	228.69	226.18	223.23	220.63	217.62
180.0	299.14	295.84	292.57	289.02	285.35	281.84	278.60	274.94	271.67
210.0	243.78	240.80	237.94	235.16	231.94	229.16	226.72	223.52	220.85
240.0	106.83	105.50	104.31	102.89	101.69	100.30	98.89	97.74	96.53
270.0	2.90	2.91	2.94	3.00	3.05	3.11	3.18	3.21	3.25
300.0	85.86	82.63	80.53	79.47	78.86	78.84	78.20	77.57	76.65
330.0	244.35	241.62	238.82	236.17	233.79	230.69	228.01	224.84	221.52
360.0	310.79	306.80	303.83	300.35	297.09	294.04	290.67	287.93	284.34
C/γ(°)	117.0	117.5	118.0	118.5	119.0	119.5	120.0	120.5	121.0
0.0	280.83	277.31	273.81	270.30	266.66	263.73	260.59	257.74	254.25
30.0	228.27	225.66	222.89	220.29	217.91	214.89	212.37	210.09	207.33
60.0	94.97	92.58	91.28	89.29	87.72	86.14	84.66	83.47	82.70
90.0	4.59	4.64	4.70	4.73	4.74	4.79	4.85	4.90	4.96
120.0	87.85	86.79	85.74	84.66	83.55	82.62	81.52	80.45	79.42
150.0	215.06	212.27	209.51	206.80	204.23	201.86	198.84	196.56	193.75
180.0	268.44	265.25	261.66	258.38	254.99	251.95	248.74	245.55	242.20
210.0	218.11	215.01	212.25	209.64	206.88	204.19	201.46	198.84	196.41
240.0	95.33	94.18	92.97	91.87	90.70	89.59	88.36	87.25	86.13
270.0	3.31	3.35	3.41	3.47	3.51	3.56	3.61	3.66	3.73
300.0	74.92	74.12	74.47	74.84	74.26	74.76	75.37	74.81	73.82
330.0	218.38	214.90	210.99	205.65	201.16	196.73	191.90	186.30	180.97
360.0	280.83	277.31	273.81	270.30	266.66	263.73	260.59	257.74	254.25
C/γ(°)	121.5	122.0	122.5	123.0	123.5	124.0	124.5	125.0	125.5
0.0	251.15	247.92	245.18	242.20	238.72	235.92	232.93	229.95	227.04
30.0	204.94	202.52	200.08	197.43	194.93	192.67	190.28	187.78	185.33
60.0	81.82	80.85	79.69	78.62	77.63	76.71	75.61	74.07	72.50
90.0	4.99	5.05	5.11	5.15	5.20	5.27	5.31	5.36	5.42
120.0	77.72	75.99	74.08	72.65	71.38	70.25	69.25	68.21	67.23
150.0	191.41	188.86	186.45	183.76	181.45	179.06	176.45	174.21	171.76
180.0	238.86	235.82	232.49	229.55	226.60	223.59	220.52	217.30	214.23
210.0	193.54	190.97	188.72	185.97	183.29	180.86	178.59	175.95	173.50
240.0	84.92	83.76	82.48	80.68	78.65	76.96	75.56	74.24	73.17
270.0	3.78	3.83	3.89	3.93	3.99	4.04	4.09	4.15	4.19
300.0	72.89	72.40	72.30	72.30	71.90	71.09	69.92	68.75	67.39
330.0	175.32	169.70	165.11	161.28	158.39	155.43	153.00	151.39	150.32
360.0	251.15	247.92	245.18	242.20	238.72	235.92	232.93	229.95	227.04

C/γ(°)	126.0	126.5	127.0	127.5	128.0	128.5	129.0	129.5	130.0
0.0	224.07	220.88	218.50	215.06	212.37	209.69	206.58	203.84	201.03
30.0	183.03	181.00	178.40	176.10	173.74	170.98	167.53	164.31	161.55
60.0	71.30	70.06	68.81	67.37	65.79	64.16	62.58	61.40	60.57
90.0	5.48	5.54	5.58	5.64	5.70	5.73	5.79	5.85	5.88
120.0	66.31	65.32	64.25	63.07	61.87	60.83	59.87	59.09	58.47
150.0	169.43	166.96	164.67	162.47	160.11	157.76	155.64	153.49	151.23
180.0	211.26	208.33	205.47	202.39	199.51	196.50	193.68	190.61	187.76
210.0	171.33	168.72	166.41	163.75	161.50	159.26	157.09	154.69	152.27
240.0	72.06	71.03	69.89	68.85	67.80	66.63	65.47	64.22	62.98
270.0	4.26	4.31	4.35	4.41	4.47	4.51	4.58	4.62	4.68
300.0	65.93	64.25	62.53	60.99	59.33	57.93	56.99	56.09	55.53
330.0	149.10	148.11	147.25	146.27	145.02	143.54	142.01	140.61	139.40
360.0	224.07	220.88	218.50	215.06	212.37	209.69	206.58	203.84	201.03
C/γ(°)	130.5	131.0	131.5	132.0	132.5	133.0	133.5	134.0	134.5
0.0	198.40	195.75	192.74	189.97	187.36	184.37	181.29	178.24	174.65
30.0	158.99	155.85	152.95	150.00	147.38	144.94	142.45	140.05	137.78
60.0	59.73	59.13	58.86	58.75	58.47	57.47	56.48	55.36	54.10
90.0	5.94	5.99	6.03	6.09	6.13	6.16	6.22	6.25	6.30
120.0	57.98	57.40	56.82	56.43	55.90	55.25	54.45	53.71	52.97
150.0	148.87	146.86	144.62	142.38	140.31	138.05	136.07	133.96	131.85
180.0	185.28	182.35	179.51	176.92	174.19	171.36	168.65	166.13	163.39
210.0	150.06	147.84	145.66	143.47	141.10	138.96	137.00	134.77	132.58
240.0	62.03	61.27	60.57	59.95	59.24	58.62	58.13	57.51	56.70
270.0	4.73	4.77	4.82	4.89	4.93	4.99	5.03	5.09	5.13
300.0	55.11	54.59	53.68	52.52	51.58	50.56	49.71	48.89	48.06
330.0	137.79	136.10	134.35	133.11	131.94	130.28	128.81	126.74	125.09
360.0	198.40	195.75	192.74	189.97	187.36	184.37	181.29	178.24	174.65
C/γ(°)	135.0	135.5	136.0	136.5	137.0	137.5	138.0	138.5	139.0
0.0	171.05	167.25	163.98	160.44	157.53	154.82	152.16	149.90	147.18
30.0	135.59	133.47	131.37	129.30	127.12	123.79	118.19	112.70	108.37
60.0	53.07	52.13	51.08	50.15	48.99	47.94	47.06	46.21	45.53
90.0	6.34	6.39	6.43	6.47	6.53	6.54	6.58	6.63	6.65
120.0	52.35	51.58	50.87	50.14	49.45	48.77	48.12	47.48	46.72
150.0	129.63	127.61	125.63	123.25	121.27	118.35	115.25	112.30	109.70
180.0	160.67	158.17	155.29	153.09	150.24	147.88	145.56	142.92	140.20
210.0	130.38	128.21	126.10	123.77	121.58	118.65	115.49	112.49	110.06
240.0	55.91	55.06	54.24	53.49	52.67	51.86	51.10	50.34	49.49
270.0	5.18	5.23	5.31	5.33	5.38	5.44	5.47	5.54	5.59
300.0	47.14	46.17	45.34	44.58	43.87	43.30	42.65	42.05	41.50
330.0	123.76	122.52	121.57	120.11	118.56	117.11	115.23	113.53	111.46
360.0	171.05	167.25	163.98	160.44	157.53	154.82	152.16	149.90	147.18
C/γ(°)	139.5	140.0	140.5	141.0	141.5	142.0	142.5	143.0	143.5
0.0	144.82	142.51	140.34	138.00	135.95	134.02	132.26	130.26	127.94
30.0	106.91	105.31	103.36	101.01	99.45	98.72	97.04	94.68	91.86
60.0	44.63	43.72	42.87	42.01	41.16	40.27	39.39	38.45	37.49
90.0	6.71	6.74	6.78	6.82	6.84	6.89	7.00	7.08	7.14
120.0	46.08	45.36	44.71	44.04	43.36	42.73	42.10	41.45	40.78
150.0	107.60	105.53	103.51	101.45	99.58	97.66	95.56	93.78	91.89
180.0	137.90	135.07	132.57	130.18	126.96	123.30	120.40	118.12	115.67
210.0	107.76	105.79	103.66	101.75	99.75	97.87	95.92	93.92	92.06
240.0	48.91	48.14	47.37	46.64	45.91	45.19	44.48	43.65	42.98
270.0	5.63	5.68	5.73	5.77	5.79	5.88	5.97	6.07	6.16
300.0	40.76	40.04	39.28	38.68	38.02	37.30	36.62	35.90	35.26
330.0	109.78	107.71	105.71	102.89	100.01	97.25	94.88	91.96	88.23
360.0	144.82	142.51	140.34	138.00	135.95	134.02	132.26	130.26	127.94

C/ γ (°)	144.0	144.5	145.0	145.5	146.0	146.5	147.0	147.5	148.0
0.0	125.68	123.41	120.98	118.98	116.65	114.39	112.05	108.99	105.69
30.0	89.57	88.14	86.03	83.44	80.62	77.63	74.77	72.53	70.10
60.0	36.52	35.69	34.92	34.18	33.31	32.63	32.06	31.68	31.46
90.0	7.17	7.22	7.27	7.32	7.37	7.40	7.46	7.52	7.58
120.0	40.13	39.44	38.87	38.28	37.63	36.98	36.35	35.71	35.13
150.0	90.04	88.21	86.33	84.52	82.92	81.26	79.68	78.02	76.98
180.0	113.51	111.31	109.11	106.83	104.71	102.51	100.24	98.23	96.11
210.0	90.08	88.13	86.28	84.48	82.84	81.21	79.56	78.14	76.74
240.0	42.37	41.60	40.92	40.29	39.57	38.88	38.20	37.62	36.93
270.0	6.19	6.26	6.32	6.39	6.46	6.52	6.58	6.64	6.70
300.0	34.60	33.96	33.27	32.69	32.13	31.54	31.01	30.58	30.22
330.0	84.85	81.63	78.39	75.48	72.95	70.66	68.46	66.16	64.80
360.0	125.68	123.41	120.98	118.98	116.65	114.39	112.05	108.99	105.69
C/ γ (°)	148.5	149.0	149.5	150.0	150.5	151.0	151.5	152.0	152.5
0.0	102.29	99.55	97.25	95.43	93.67	92.00	90.52	88.77	87.00
30.0	67.40	65.34	63.55	61.97	60.45	58.96	57.37	55.58	53.82
60.0	31.22	30.96	30.63	30.35	29.97	29.57	29.08	28.66	28.42
90.0	7.62	7.67	7.73	7.77	7.81	7.86	7.90	7.96	8.02
120.0	34.56	33.92	33.31	32.71	32.10	31.51	30.92	30.28	29.75
150.0	75.65	73.99	72.56	71.01	69.43	67.95	66.44	64.89	63.45
180.0	93.99	91.97	89.90	87.89	86.03	84.05	82.09	80.04	78.16
210.0	75.25	73.76	72.18	70.63	68.98	67.40	65.96	64.42	62.96
240.0	36.23	35.59	34.89	34.19	33.60	32.96	32.28	31.61	31.02
270.0	6.77	6.84	6.89	6.95	7.00	7.05	7.11	7.16	7.21
300.0	29.77	29.29	28.81	28.38	28.04	27.86	27.69	27.54	27.37
330.0	63.51	61.25	59.53	58.55	57.36	55.84	54.26	52.95	51.90
360.0	102.29	99.55	97.25	95.43	93.67	92.00	90.52	88.77	87.00
C/ γ (°)	153.0	153.5	154.0	154.5	155.0	155.5	156.0	156.5	157.0
0.0	85.25	83.57	81.13	78.88	77.32	76.03	74.90	73.66	72.09
30.0	52.31	51.09	50.02	49.12	48.64	48.30	47.94	47.35	46.58
60.0	28.16	28.03	27.91	27.78	27.64	27.49	27.40	27.08	26.73
90.0	8.07	8.11	8.16	8.22	8.27	8.32	8.36	8.43	8.47
120.0	29.17	28.57	28.01	27.44	26.86	26.32	25.77	25.23	24.67
150.0	62.00	60.56	59.18	57.70	56.31	54.97	53.55	52.19	50.75
180.0	76.25	74.41	72.58	70.68	68.79	66.94	65.20	63.43	61.74
210.0	61.47	59.97	58.47	57.02	55.65	54.15	52.81	51.42	50.11
240.0	30.37	29.77	29.15	28.54	27.91	27.30	26.69	26.10	25.54
270.0	7.28	7.32	7.36	7.42	7.47	7.54	7.58	7.65	7.71
300.0	27.20	27.11	26.93	26.66	26.34	25.97	25.67	25.31	24.95
330.0	51.01	49.99	48.98	48.11	47.18	46.37	45.36	44.35	43.00
360.0	85.25	83.57	81.13	78.88	77.32	76.03	74.90	73.66	72.09
C/ γ (°)	157.5	158.0	158.5	159.0	159.5	160.0	160.5	161.0	161.5
0.0	70.27	68.60	66.75	65.00	63.28	61.35	59.30	57.56	55.81
30.0	45.86	45.05	44.04	42.87	41.55	40.28	38.86	36.78	34.31
60.0	26.35	25.96	25.56	25.23	24.78	24.37	24.01	23.58	23.19
90.0	8.51	8.56	8.60	8.64	8.66	8.72	8.76	8.79	8.82
120.0	24.14	23.58	23.08	22.57	22.01	21.43	20.99	20.44	19.95
150.0	49.40	48.13	46.81	45.49	44.19	42.98	41.68	40.46	39.20
180.0	59.96	58.19	56.53	54.92	53.18	51.54	49.88	48.28	46.71
210.0	48.66	47.35	46.00	44.73	43.39	42.07	40.77	39.51	38.24
240.0	24.93	24.36	23.79	23.22	22.65	22.11	21.53	20.96	20.48
270.0	7.76	7.83	7.88	7.90	7.99	8.04	8.09	8.15	8.19
300.0	24.67	24.32	23.80	23.36	22.93	22.56	22.12	21.71	21.37
330.0	41.56	40.25	38.98	37.79	36.45	35.34	34.18	33.08	31.89
360.0	70.27	68.60	66.75	65.00	63.28	61.35	59.30	57.56	55.81

Intensity data(cd)

Appendix Page: 30 Total:31

C/γ(°)	162.0	162.5	163.0	163.5	164.0	164.5	165.0	165.5	166.0
0.0	53.99	51.80	49.43	46.91	44.06	41.99	40.50	39.33	38.21
30.0	32.70	31.74	30.61	29.28	28.13	27.45	26.84	26.30	25.74
60.0	22.80	22.39	21.99	21.60	21.24	20.87	20.51	20.12	19.75
90.0	8.88	8.90	8.96	8.98	9.04	9.07	9.12	9.16	9.19
120.0	19.44	18.96	18.46	17.98	17.55	17.10	16.62	16.19	15.74
150.0	38.01	36.84	35.56	34.51	33.31	32.15	31.06	29.96	28.90
180.0	45.19	43.62	42.05	40.51	39.04	37.58	36.16	34.76	33.33
210.0	37.04	35.92	34.65	33.51	32.38	31.23	30.05	29.04	27.89
240.0	19.93	19.38	18.87	18.33	17.79	17.31	16.80	16.33	15.87
270.0	8.26	8.32	8.37	8.43	8.48	8.53	8.58	8.62	8.69
300.0	21.12	20.74	20.41	20.05	19.71	19.35	19.01	18.71	18.36
330.0	30.75	29.67	28.80	28.01	27.28	26.71	26.44	26.23	25.99
360.0	53.99	51.80	49.43	46.91	44.06	41.99	40.50	39.33	38.21
C/γ(°)	166.5	167.0	167.5	168.0	168.5	169.0	169.5	170.0	170.5
0.0	36.46	33.06	30.55	29.76	28.36	27.10	26.80	26.00	25.63
30.0	25.61	25.63	25.18	24.47	23.74	22.99	22.27	21.54	20.90
60.0	19.40	19.01	18.70	18.31	17.91	17.57	17.18	16.80	16.45
90.0	9.22	9.26	9.29	9.32	9.34	9.37	9.41	9.43	9.46
120.0	15.33	14.88	14.44	13.97	13.55	13.16	12.74	12.32	11.91
150.0	27.77	26.66	25.62	24.59	23.53	22.53	21.52	20.58	19.57
180.0	31.95	30.62	29.30	27.97	26.66	25.39	24.14	22.91	21.68
210.0	26.81	25.74	24.71	23.64	22.62	21.59	20.61	19.65	18.69
240.0	15.38	14.92	14.45	14.02	13.53	13.09	12.64	12.20	11.79
270.0	8.73	8.78	8.84	8.88	8.90	8.96	8.98	9.01	9.04
300.0	18.10	17.81	17.42	17.16	16.84	16.50	16.21	15.94	15.58
330.0	25.29	24.42	24.19	23.52	22.90	22.24	21.60	20.94	20.26
360.0	36.46	33.06	30.55	29.76	28.36	27.10	26.80	26.00	25.63
C/γ(°)	171.0	171.5	172.0	172.5	173.0	173.5	174.0	174.5	175.0
0.0	24.82	23.56	21.76	22.22	21.23	20.36	19.43	18.52	17.79
30.0	20.20	19.55	18.77	18.06	17.45	16.80	16.16	15.55	14.93
60.0	16.07	15.69	15.27	14.91	14.51	14.14	13.76	13.36	12.98
90.0	9.47	9.48	9.48	9.48	9.48	9.48	9.49	9.49	9.49
120.0	11.57	11.22	10.84	10.59	10.39	10.19	9.99	9.84	9.70
150.0	18.65	17.74	16.80	15.95	15.09	14.24	13.45	12.65	11.92
180.0	20.60	19.38	18.30	17.21	16.23	15.25	14.23	13.32	12.43
210.0	17.71	16.75	15.88	15.01	14.13	13.32	12.55	11.83	11.14
240.0	11.39	10.99	10.60	10.29	10.11	9.87	9.69	9.53	9.39
270.0	9.08	9.11	9.13	9.17	9.18	9.26	9.26	9.29	9.30
300.0	15.22	14.90	14.58	14.29	13.95	13.57	13.21	12.84	12.47
330.0	19.57	18.88	18.13	17.56	16.96	16.37	15.79	15.16	14.57
360.0	24.82	23.56	21.76	22.22	21.23	20.36	19.43	18.52	17.79
C/γ(°)	175.5	176.0	176.5	177.0	177.5	178.0	178.5	179.0	179.5
0.0	16.95	13.04	11.85	11.39	10.21	9.52	9.11	8.67	8.32
30.0	14.31	13.72	13.09	12.47	11.86	11.26	10.70	10.16	9.66
60.0	12.59	12.22	11.84	11.48	11.12	10.73	10.41	10.07	9.78
90.0	9.49	9.49	9.50	9.50	9.50	9.50	9.50	9.50	9.50
120.0	9.54	9.48	9.38	9.33	9.30	9.29	9.29	9.41	9.46
150.0	11.27	10.67	10.33	9.96	9.65	9.43	9.32	9.34	9.42
180.0	11.26	9.04	8.39	7.87	7.73	7.69	7.71	7.78	7.90
210.0	10.54	10.15	9.81	9.52	9.30	9.15	9.09	9.08	9.22
240.0	9.25	9.23	9.21	9.19	9.17	9.15	9.27	9.38	9.46
270.0	9.32	9.32	9.35	9.41	9.42	9.42	9.42	9.43	9.45
300.0	12.14	11.77	11.50	11.13	10.80	10.45	10.14	9.86	9.65
330.0	13.96	13.37	12.71	12.06	11.46	10.93	10.49	10.03	9.66
360.0	16.95	13.04	11.85	11.39	10.21	9.52	9.11	8.67	8.32

Intensity data(cd)

Appendix Page: 31 Total:31

C/γ(°)	180.0
0.0	9.50
30.0	9.50
60.0	9.50
90.0	9.50
120.0	9.50
150.0	9.50
180.0	9.50
210.0	9.50
240.0	9.50
270.0	9.50
300.0	9.50
330.0	9.50
360.0	9.50