

Report No	:		Voltage	:	V
Test No	:	A2502415A001	Current	:	A
LumCAT	:	0028920255 Tri-proof 56W 4000K 9000lm	Power	:	56.000 W
Luminaire	:	LIT by CARDI	PF	:	
LampCAT	:		Ballast type	:	
Lamp flux	:	9000.0 lm	Width	:	60 mm
Number of Lamps	:	1	Length	:	1465 mm
Phm Type	:	C	Height	:	25 mm

Photometric Results

Lumens(lm)	:	9000.00	Central intensity(cd)	:	2384.692
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	2404.611
Luminous Efficacy(lm/W)	:	160.71	Angle of maximum intensity	:	C=90.0 γ =1.5
Beam Angle(50%Imax)	:	[C0/180]Total=135.6 [C90/270]Total=109.8			
Field angle(10%Imax)	:	[C0/180]Total=255.8 [C90/270]Total=159.2			
Maximum s/h(1/2)	:	C0_180=1.33 C90_270=1.24			
Maximum s/h(1/4)	:	C0_180=1.47 C90_270=1.36			
Up flux rate of lamp(%)	:	11.52%			
Down flux rate of lamp(%)	:	88.48%			
Up flux rate of LUM(%)	:	11.52%			
Down flux rate of LUM(%)	:	88.48%			
CIE Type	:	Semidirect lighting			
Output flux ratio in π solid angle :	:	62.659%			

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	2384.692	0.000	0	0.00%	0.00%
0.5	2385.442	0.571	0.571	0.01%	0.01%
1.0	2387.294	1.713	2.283	0.02%	0.03%
1.5	2386.110	2.855	5.138	0.03%	0.06%
2.0	2386.527	3.996	9.134	0.04%	0.10%
2.5	2382.673	5.133	14.267	0.06%	0.16%
3.0	2382.690	6.268	20.535	0.07%	0.23%
3.5	2382.022	7.406	27.941	0.08%	0.31%
4.0	2380.638	8.540	36.481	0.09%	0.41%
4.5	2378.636	9.670	46.15	0.11%	0.51%
5.0	2377.034	10.796	56.947	0.12%	0.63%
5.5	2375.549	11.922	68.869	0.13%	0.77%
6.0	2372.330	13.041	81.91	0.14%	0.91%
6.5	2370.394	14.155	96.065	0.16%	1.07%
7.0	2367.025	15.266	111.331	0.17%	1.24%
7.5	2365.023	16.372	127.703	0.18%	1.42%
8.0	2363.288	17.481	145.183	0.19%	1.61%
8.5	2359.150	18.578	163.761	0.21%	1.82%
9.0	2355.397	19.662	183.423	0.22%	2.04%
9.5	2353.345	20.751	204.174	0.23%	2.27%
10.0	2350.359	21.838	226.012	0.24%	2.51%
10.5	2345.587	22.909	248.921	0.25%	2.77%
11.0	2340.466	23.963	272.884	0.27%	3.03%
11.5	2338.747	25.027	297.91	0.28%	3.31%
12.0	2332.525	26.079	323.99	0.29%	3.60%
12.5	2328.521	27.113	351.103	0.30%	3.90%
13.0	2323.766	28.149	379.252	0.31%	4.21%
13.5	2317.377	29.163	408.415	0.32%	4.54%
14.0	2313.790	30.178	438.593	0.34%	4.87%
14.5	2308.068	31.190	469.783	0.35%	5.22%
15.0	2304.181	32.194	501.977	0.36%	5.58%
15.5	2298.025	33.187	535.164	0.37%	5.95%
16.0	2291.085	34.151	569.314	0.38%	6.33%
16.5	2285.797	35.112	604.427	0.39%	6.72%
17.0	2279.324	36.069	640.496	0.40%	7.12%
17.5	2272.901	37.009	677.505	0.41%	7.53%
18.0	2267.379	37.948	715.452	0.42%	7.95%
18.5	2260.973	38.878	754.331	0.43%	8.38%

Equipment: CT-023-3
Temperature($^{\circ}$ 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	2252.698	39.776	794.107	0.44%	8.82%
19.5	2245.157	40.654	834.761	0.45%	9.28%
20.0	2238.918	41.541	876.303	0.46%	9.74%
20.5	2230.660	42.412	918.714	0.47%	10.21%
21.0	2224.588	43.274	961.988	0.48%	10.69%
21.5	2216.213	44.126	1006.114	0.49%	11.18%
22.0	2208.706	44.953	1051.067	0.50%	11.68%
22.5	2201.299	45.780	1096.846	0.51%	12.19%
23.0	2193.091	46.589	1143.435	0.52%	12.70%
23.5	2184.849	47.378	1190.813	0.53%	13.23%
24.0	2175.207	48.142	1238.955	0.53%	13.77%
24.5	2166.982	48.893	1287.848	0.54%	14.31%
25.0	2156.689	49.626	1337.474	0.55%	14.86%
25.5	2147.647	50.337	1387.812	0.56%	15.42%
26.0	2140.640	51.076	1438.888	0.57%	15.99%
26.5	2129.346	51.776	1490.664	0.58%	16.56%
27.0	2120.271	52.439	1543.102	0.58%	17.15%
27.5	2111.646	53.123	1596.225	0.59%	17.74%
28.0	2102.370	53.792	1650.017	0.60%	18.33%
28.5	2091.560	54.422	1704.439	0.60%	18.94%
29.0	2080.633	55.017	1759.455	0.61%	19.55%
29.5	2070.973	55.614	1815.069	0.62%	20.17%
30.0	2060.647	56.207	1871.276	0.62%	20.79%
30.5	2050.454	56.779	1928.055	0.63%	21.42%
31.0	2039.510	57.330	1985.386	0.64%	22.06%
31.5	2028.533	57.857	2043.243	0.64%	22.70%
32.0	2018.223	58.380	2101.623	0.65%	23.35%
32.5	2006.261	58.875	2160.499	0.65%	24.01%
33.0	1995.201	59.346	2219.845	0.66%	24.66%
33.5	1983.139	59.801	2279.646	0.66%	25.33%
34.0	1973.213	60.260	2339.906	0.67%	26.00%
34.5	1961.051	60.704	2400.61	0.67%	26.67%
35.0	1949.507	61.109	2461.719	0.68%	27.35%
35.5	1936.928	61.494	2523.213	0.68%	28.04%
36.0	1926.401	61.881	2585.094	0.69%	28.72%
36.5	1914.540	62.266	2647.36	0.69%	29.42%
37.0	1900.076	62.572	2709.932	0.70%	30.11%
37.5	1888.748	62.873	2772.805	0.70%	30.81%

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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	1876.053	63.189	2835.995	0.70%	31.51%
38.5	1862.590	63.455	2899.45	0.71%	32.22%
39.0	1851.096	63.727	2963.177	0.71%	32.92%
39.5	1837.082	63.975	3027.151	0.71%	33.64%
40.0	1826.072	64.217	3091.368	0.71%	34.35%
40.5	1811.207	64.430	3155.798	0.72%	35.06%
41.0	1798.895	64.605	3220.404	0.72%	35.78%
41.5	1784.965	64.783	3285.187	0.72%	36.50%
42.0	1772.087	64.936	3350.122	0.72%	37.22%
42.5	1757.405	65.060	3415.182	0.72%	37.95%
43.0	1745.027	65.179	3480.361	0.72%	38.67%
43.5	1730.847	65.293	3545.654	0.73%	39.40%
44.0	1717.183	65.368	3611.023	0.73%	40.12%
44.5	1703.470	65.438	3676.461	0.73%	40.85%
45.0	1689.307	65.484	3741.944	0.73%	41.58%
45.5	1675.977	65.522	3807.467	0.73%	42.31%
46.0	1661.880	65.548	3873.015	0.73%	43.03%
46.5	1647.833	65.545	3938.56	0.73%	43.76%
47.0	1633.436	65.522	4004.083	0.73%	44.49%
47.5	1617.938	65.456	4069.539	0.73%	45.22%
48.0	1603.858	65.381	4134.92	0.73%	45.94%
48.5	1588.576	65.297	4200.216	0.73%	46.67%
49.0	1575.013	65.208	4265.424	0.72%	47.39%
49.5	1558.882	65.088	4330.512	0.72%	48.12%
50.0	1546.102	64.970	4395.482	0.72%	48.84%
50.5	1529.003	64.818	4460.3	0.72%	49.56%
51.0	1514.038	64.605	4524.905	0.72%	50.28%
51.5	1499.224	64.426	4589.331	0.72%	50.99%
52.0	1484.126	64.231	4653.562	0.71%	51.71%
52.5	1469.028	64.016	4717.578	0.71%	52.42%
53.0	1453.530	63.778	4781.356	0.71%	53.13%
53.5	1436.547	63.486	4844.842	0.71%	53.83%
54.0	1421.933	63.198	4908.04	0.70%	54.53%
54.5	1405.717	62.914	4970.955	0.70%	55.23%
55.0	1391.454	62.625	5033.579	0.70%	55.93%
55.5	1375.538	62.329	5095.908	0.69%	56.62%
56.0	1358.522	61.958	5157.866	0.69%	57.31%
56.5	1343.658	61.597	5219.462	0.68%	57.99%

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

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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	1327.376	61.239	5280.702	0.68%	58.67%
57.5	1311.076	60.836	5341.538	0.68%	59.35%
58.0	1295.912	60.446	5401.983	0.67%	60.02%
58.5	1279.112	60.031	5462.014	0.67%	60.69%
59.0	1261.679	59.551	5521.565	0.66%	61.35%
59.5	1246.665	59.099	5580.664	0.66%	62.01%
60.0	1231.185	58.682	5639.346	0.65%	62.66%
60.5	1214.342	58.209	5697.554	0.65%	63.31%
61.0	1197.596	57.693	5755.248	0.64%	63.95%
61.5	1181.627	57.187	5812.434	0.64%	64.58%
62.0	1164.377	56.656	5869.091	0.63%	65.21%
62.5	1148.093	56.106	5925.196	0.62%	65.84%
63.0	1131.029	55.549	5980.745	0.62%	66.45%
63.5	1114.663	54.978	6035.723	0.61%	67.06%
64.0	1097.376	54.390	6090.113	0.60%	67.67%
64.5	1081.306	53.798	6143.911	0.60%	68.27%
65.0	1064.291	53.202	6197.114	0.59%	68.86%
65.5	1047.086	52.567	6249.681	0.58%	69.44%
66.0	1030.702	51.937	6301.618	0.58%	70.02%
66.5	1013.379	51.294	6352.912	0.57%	70.59%
67.0	996.988	50.639	6403.551	0.56%	71.15%
67.5	980.173	49.988	6453.539	0.56%	71.71%
68.0	962.782	49.301	6502.84	0.55%	72.25%
68.5	946.164	48.609	6551.449	0.54%	72.79%
69.0	929.844	47.935	6599.383	0.53%	73.33%
69.5	913.169	47.250	6646.633	0.52%	73.85%
70.0	896.173	46.538	6693.171	0.52%	74.37%
70.5	879.392	45.815	6738.985	0.51%	74.88%
71.0	863.128	45.101	6784.087	0.50%	75.38%
71.5	845.577	44.359	6828.445	0.49%	75.87%
72.0	829.671	43.618	6872.063	0.48%	76.36%
72.5	812.448	42.876	6914.939	0.48%	76.83%
73.0	795.968	42.112	6957.051	0.47%	77.30%
73.5	778.789	41.341	6998.392	0.46%	77.76%
74.0	763.567	40.595	7038.987	0.45%	78.21%
74.5	747.293	39.866	7078.853	0.44%	78.65%
75.0	731.148	39.105	7117.958	0.43%	79.09%
75.5	715.045	38.342	7156.3	0.43%	79.51%

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

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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	699.179	37.579	7193.878	0.42%	79.93%
76.5	684.086	36.836	7230.714	0.41%	80.34%
77.0	668.089	36.084	7266.798	0.40%	80.74%
77.5	652.559	35.313	7302.111	0.39%	81.13%
78.0	636.647	34.539	7336.651	0.38%	81.52%
78.5	621.727	33.776	7370.427	0.38%	81.89%
79.0	606.881	33.036	7403.463	0.37%	82.26%
79.5	592.223	32.297	7435.76	0.36%	82.62%
80.0	577.867	31.567	7467.326	0.35%	82.97%
80.5	563.530	30.840	7498.166	0.34%	83.31%
81.0	549.400	30.115	7528.281	0.33%	83.65%
81.5	536.527	29.425	7557.706	0.33%	83.97%
82.0	522.651	28.737	7586.443	0.32%	84.29%
82.5	509.858	28.048	7614.491	0.31%	84.61%
83.0	496.938	27.381	7641.872	0.30%	84.91%
83.5	484.577	26.722	7668.595	0.30%	85.21%
84.0	472.381	26.080	7694.674	0.29%	85.50%
84.5	460.230	25.439	7720.113	0.28%	85.78%
85.0	448.439	24.807	7744.92	0.28%	86.05%
85.5	438.033	24.220	7769.14	0.27%	86.32%
86.0	427.361	23.660	7792.8	0.26%	86.59%
86.5	416.926	23.097	7815.897	0.26%	86.84%
87.0	407.004	22.552	7838.449	0.25%	87.09%
87.5	397.577	22.033	7860.482	0.24%	87.34%
88.0	388.570	21.536	7882.018	0.24%	87.58%
88.5	380.087	21.063	7903.081	0.23%	87.81%
89.0	371.535	20.601	7923.682	0.23%	88.04%
89.5	364.022	20.164	7943.846	0.22%	88.26%
90.0	357.042	19.768	7963.614	0.22%	88.48%
90.5	350.047	19.385	7982.999	0.22%	88.70%
91.0	343.662	19.017	8002.016	0.21%	88.91%
91.5	337.321	18.665	8020.681	0.21%	89.12%
92.0	331.370	18.324	8039.005	0.20%	89.32%
92.5	325.609	17.998	8057.002	0.20%	89.52%
93.0	319.891	17.676	8074.679	0.20%	89.72%
93.5	314.584	17.366	8092.045	0.19%	89.91%
94.0	309.415	17.071	8109.116	0.19%	90.10%
94.5	304.413	16.782	8125.898	0.19%	90.29%

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

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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	299.683	16.505	8142.402	0.18%	90.47%
95.5	294.944	16.234	8158.636	0.18%	90.65%
96.0	290.615	15.973	8174.609	0.18%	90.83%
96.5	286.237	15.721	8190.329	0.17%	91.00%
97.0	282.247	15.477	8205.807	0.17%	91.18%
97.5	278.203	15.242	8221.049	0.17%	91.34%
98.0	274.415	15.012	8236.061	0.17%	91.51%
98.5	270.585	14.787	8250.847	0.16%	91.68%
99.0	266.934	14.565	8265.412	0.16%	91.84%
99.5	263.444	14.351	8279.764	0.16%	92.00%
100.0	260.175	14.148	8293.912	0.16%	92.15%
100.5	256.890	13.949	8307.861	0.15%	92.31%
101.0	253.581	13.749	8321.61	0.15%	92.46%
101.5	250.678	13.559	8335.169	0.15%	92.61%
102.0	247.559	13.373	8348.542	0.15%	92.76%
102.5	244.603	13.186	8361.728	0.15%	92.91%
103.0	241.607	13.001	8374.729	0.14%	93.05%
103.5	239.059	12.827	8387.556	0.14%	93.20%
104.0	235.924	12.649	8400.204	0.14%	93.34%
104.5	233.278	12.468	8412.672	0.14%	93.47%
105.0	230.535	12.297	8424.969	0.14%	93.61%
105.5	228.041	12.129	8437.098	0.13%	93.75%
106.0	225.308	11.962	8449.06	0.13%	93.88%
106.5	222.788	11.794	8460.854	0.13%	94.01%
107.0	220.528	11.638	8472.492	0.13%	94.14%
107.5	217.827	11.477	8483.969	0.13%	94.27%
108.0	215.103	11.304	8495.273	0.13%	94.39%
108.5	212.725	11.139	8506.413	0.12%	94.52%
109.0	210.446	10.986	8517.398	0.12%	94.64%
109.5	207.725	10.823	8528.222	0.12%	94.76%
110.0	205.420	10.660	8538.882	0.12%	94.88%
110.5	202.684	10.497	8549.379	0.12%	94.99%
111.0	200.070	10.325	8559.704	0.11%	95.11%
111.5	197.534	10.159	8569.864	0.11%	95.22%
112.0	194.884	9.992	8579.856	0.11%	95.33%
112.5	192.355	9.826	8589.682	0.11%	95.44%
113.0	189.982	9.666	8599.348	0.11%	95.55%
113.5	187.707	9.514	8608.862	0.11%	95.65%

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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	185.745	9.371	8618.233	0.10%	95.76%
114.5	183.566	9.231	8627.465	0.10%	95.86%
115.0	181.464	9.088	8636.553	0.10%	95.96%
115.5	179.280	8.945	8645.498	0.10%	96.06%
116.0	177.022	8.798	8654.296	0.10%	96.16%
116.5	174.677	8.648	8662.944	0.10%	96.25%
117.0	172.242	8.493	8671.437	0.09%	96.35%
117.5	170.159	8.345	8679.782	0.09%	96.44%
118.0	168.078	8.206	8687.989	0.09%	96.53%
118.5	166.134	8.071	8696.06	0.09%	96.62%
119.0	163.936	7.934	8703.993	0.09%	96.71%
119.5	161.928	7.795	8711.788	0.09%	96.80%
120.0	159.907	7.660	8719.448	0.09%	96.88%
120.5	157.782	7.524	8726.972	0.08%	96.97%
121.0	155.696	7.386	8734.358	0.08%	97.05%
121.5	153.512	7.247	8741.605	0.08%	97.13%
122.0	151.170	7.103	8748.708	0.08%	97.21%
122.5	148.858	6.956	8755.664	0.08%	97.29%
123.0	146.564	6.812	8762.476	0.08%	97.36%
123.5	144.353	6.670	8769.146	0.07%	97.43%
124.0	142.238	6.533	8775.679	0.07%	97.51%
124.5	140.019	6.396	8782.075	0.07%	97.58%
125.0	137.846	6.259	8788.334	0.07%	97.65%
125.5	135.797	6.126	8794.461	0.07%	97.72%
126.0	133.749	5.997	8800.458	0.07%	97.78%
126.5	131.960	5.875	8806.333	0.07%	97.85%
127.0	130.047	5.755	8812.088	0.06%	97.91%
127.5	128.177	5.635	8817.723	0.06%	97.97%
128.0	126.240	5.515	8823.238	0.06%	98.04%
128.5	124.265	5.393	8828.632	0.06%	98.10%
129.0	122.315	5.272	8833.904	0.06%	98.15%
129.5	120.479	5.155	8839.058	0.06%	98.21%
130.0	118.809	5.044	8844.102	0.06%	98.27%
130.5	117.247	4.939	8849.041	0.05%	98.32%
131.0	115.681	4.838	8853.879	0.05%	98.38%
131.5	114.064	4.736	8858.615	0.05%	98.43%
132.0	112.500	4.634	8863.249	0.05%	98.48%
132.5	111.001	4.536	8867.784	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	109.425	4.438	8872.222	0.05%	98.58%
133.5	107.859	4.339	8876.561	0.05%	98.63%
134.0	106.232	4.240	8880.801	0.05%	98.68%
134.5	104.541	4.139	8884.94	0.05%	98.72%
135.0	102.836	4.038	8888.977	0.04%	98.77%
135.5	101.119	3.937	8892.914	0.04%	98.81%
136.0	99.503	3.838	8896.752	0.04%	98.85%
136.5	97.929	3.743	8900.495	0.04%	98.89%
137.0	96.318	3.649	8904.144	0.04%	98.93%
137.5	94.534	3.552	8907.695	0.04%	98.97%
138.0	92.587	3.449	8911.145	0.04%	99.01%
138.5	90.746	3.347	8914.491	0.04%	99.05%
139.0	89.142	3.252	8917.743	0.04%	99.09%
139.5	87.793	3.166	8920.909	0.04%	99.12%
140.0	86.391	3.085	8923.995	0.03%	99.16%
140.5	84.758	3.000	8926.995	0.03%	99.19%
141.0	82.948	2.909	8929.904	0.03%	99.22%
141.5	81.327	2.819	8932.723	0.03%	99.25%
142.0	79.758	2.734	8935.457	0.03%	99.28%
142.5	78.170	2.651	8938.108	0.03%	99.31%
143.0	76.533	2.567	8940.675	0.03%	99.34%
143.5	74.897	2.484	8943.159	0.03%	99.37%
144.0	73.282	2.402	8945.561	0.03%	99.40%
144.5	71.754	2.323	8947.884	0.03%	99.42%
145.0	70.179	2.246	8950.13	0.02%	99.45%
145.5	68.620	2.169	8952.299	0.02%	99.47%
146.0	67.100	2.094	8954.393	0.02%	99.49%
146.5	65.596	2.021	8956.414	0.02%	99.52%
147.0	64.138	1.950	8958.364	0.02%	99.54%
147.5	62.754	1.882	8960.246	0.02%	99.56%
148.0	61.471	1.817	8962.064	0.02%	99.58%
148.5	60.113	1.754	8963.818	0.02%	99.60%
149.0	58.712	1.690	8965.508	0.02%	99.62%
149.5	57.467	1.629	8967.136	0.02%	99.63%
150.0	56.282	1.571	8968.707	0.02%	99.65%
150.5	55.181	1.516	8970.224	0.02%	99.67%
151.0	54.088	1.464	8971.687	0.02%	99.69%
151.5	53.009	1.412	8973.1	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	51.874	1.361	8974.461	0.02%	99.72%
152.5	50.839	1.311	8975.772	0.01%	99.73%
153.0	49.862	1.264	8977.036	0.01%	99.74%
153.5	48.842	1.218	8978.254	0.01%	99.76%
154.0	47.832	1.172	8979.426	0.01%	99.77%
154.5	46.814	1.127	8980.553	0.01%	99.78%
155.0	45.860	1.084	8981.637	0.01%	99.80%
155.5	45.025	1.043	8982.68	0.01%	99.81%
156.0	44.214	1.005	8983.685	0.01%	99.82%
156.5	43.386	0.967	8984.652	0.01%	99.83%
157.0	42.454	0.929	8985.581	0.01%	99.84%
157.5	41.485	0.890	8986.471	0.01%	99.85%
158.0	40.512	0.851	8987.322	0.01%	99.86%
158.5	39.535	0.813	8988.136	0.01%	99.87%
159.0	38.544	0.776	8988.911	0.01%	99.88%
159.5	37.543	0.739	8989.65	0.01%	99.89%
160.0	36.581	0.703	8990.354	0.01%	99.89%
160.5	35.588	0.669	8991.022	0.01%	99.90%
161.0	34.660	0.635	8991.657	0.01%	99.91%
161.5	33.740	0.603	8992.26	0.01%	99.91%
162.0	32.831	0.572	8992.832	0.01%	99.92%
162.5	31.922	0.541	8993.373	0.01%	99.93%
163.0	30.959	0.511	8993.884	0.01%	99.93%
163.5	29.997	0.482	8994.366	0.01%	99.94%
164.0	29.124	0.454	8994.819	0.01%	99.94%
164.5	28.265	0.427	8995.246	0.00%	99.95%
165.0	27.425	0.402	8995.648	0.00%	99.95%
165.5	26.625	0.377	8996.025	0.00%	99.96%
166.0	25.788	0.354	8996.379	0.00%	99.96%
166.5	24.990	0.331	8996.71	0.00%	99.96%
167.0	24.288	0.310	8997.019	0.00%	99.97%
167.5	23.664	0.290	8997.309	0.00%	99.97%
168.0	22.957	0.271	8997.581	0.00%	99.97%
168.5	22.179	0.252	8997.833	0.00%	99.98%
169.0	21.406	0.233	8998.066	0.00%	99.98%
169.5	20.660	0.215	8998.281	0.00%	99.98%
170.0	19.916	0.198	8998.479	0.00%	99.98%
170.5	19.239	0.182	8998.661	0.00%	99.99%

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

Date:
Humidity(%): 52%

Operator: CWR

Zonal flux distribution table

Appendix Page: 11 Total:31

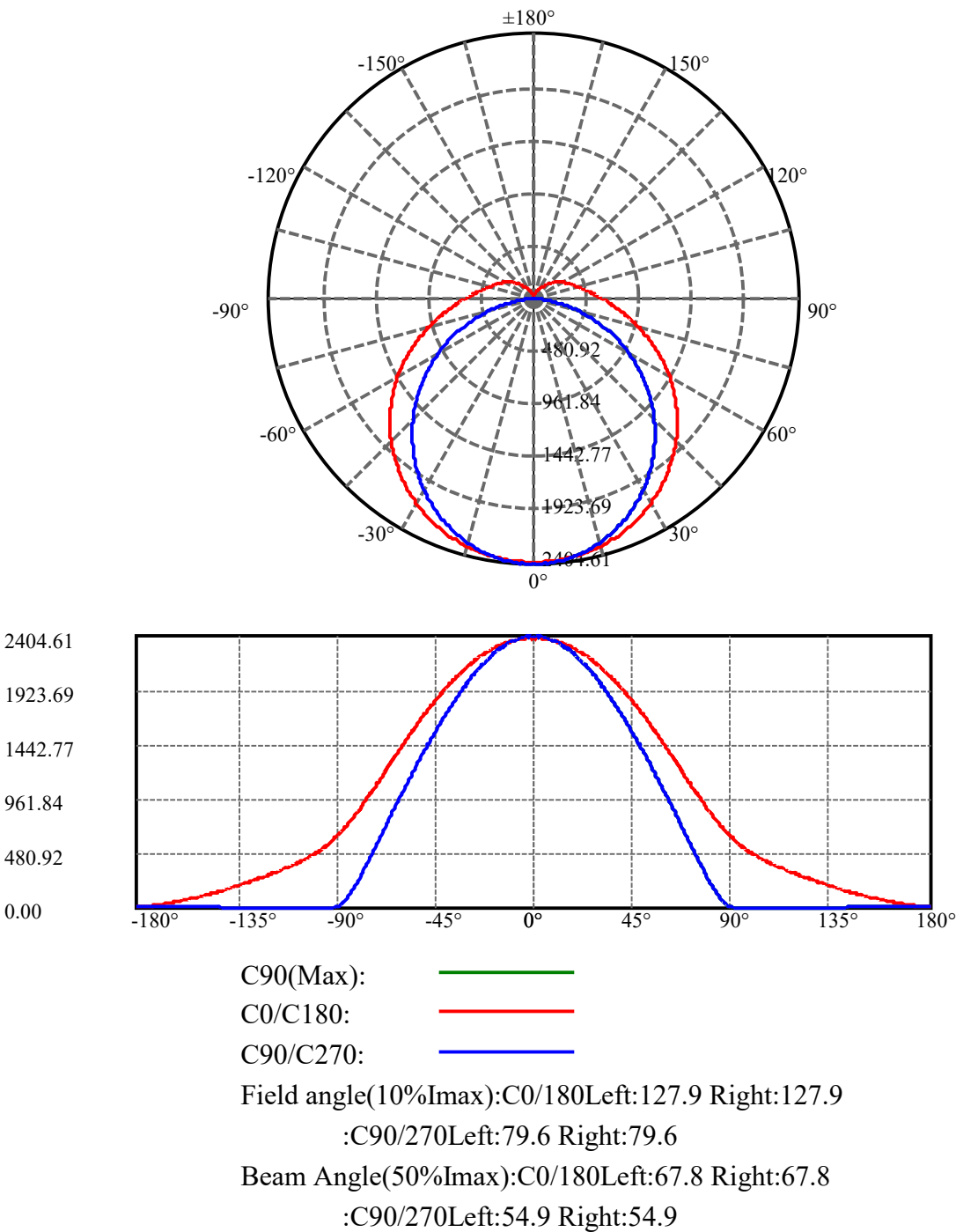
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
171.0	18.628	0.167	8998.827	0.00%	99.99%
171.5	17.959	0.153	8998.98	0.00%	99.99%
172.0	17.252	0.139	8999.119	0.00%	99.99%
172.5	16.700	0.126	8999.244	0.00%	99.99%
173.0	16.094	0.113	8999.358	0.00%	99.99%
173.5	15.580	0.102	8999.46	0.00%	99.99%
174.0	15.035	0.091	8999.551	0.00%	100.00%
174.5	14.536	0.081	8999.632	0.00%	100.00%
175.0	14.034	0.072	8999.704	0.00%	100.00%
175.5	13.494	0.062	8999.766	0.00%	100.00%
176.0	12.723	0.053	8999.82	0.00%	100.00%
176.5	12.237	0.045	8999.864	0.00%	100.00%
177.0	11.890	0.037	8999.902	0.00%	100.00%
177.5	11.522	0.031	8999.933	0.00%	100.00%
178.0	11.248	0.025	8999.957	0.00%	100.00%
178.5	11.042	0.019	8999.976	0.00%	100.00%
179.0	10.883	0.013	8999.989	0.00%	100.00%
179.5	10.764	0.008	8999.997	0.00%	100.00%
180.0	10.992	0.003	8999.999	0.00%	100.00%

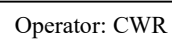
ZONAL LUMEN SUMMARY

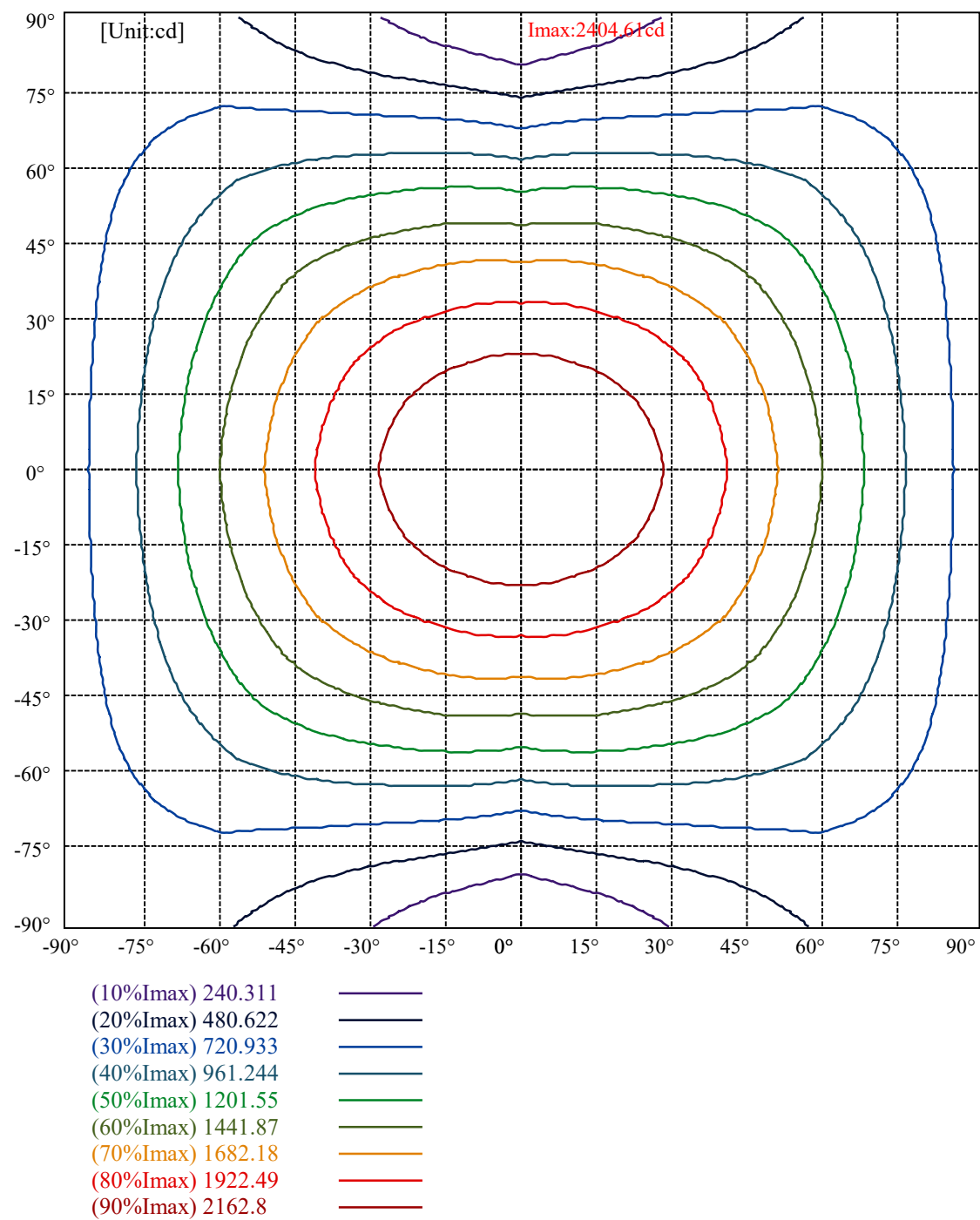
Zone	Lumens	%Lamp	%Fixt
0-30	1871.28	20.79%	20.79%
0-40	3091.37	34.35%	34.35%
0-60	5639.35	62.66%	62.66%
0-90	7963.61	88.48%	88.48%
0-120	8719.45	96.88%	96.88%
0-180	9000.00	100.00%	100.00%
60-90	2324.27	25.83%	25.83%
90-120	755.83	8.40%	8.40%
90-130	880.49	9.78%	9.78%
90-150	1005.09	11.17%	11.17%
90-180	1036.38	11.52%	11.52%
0-76.08	7200.00	80.00%	80.00%

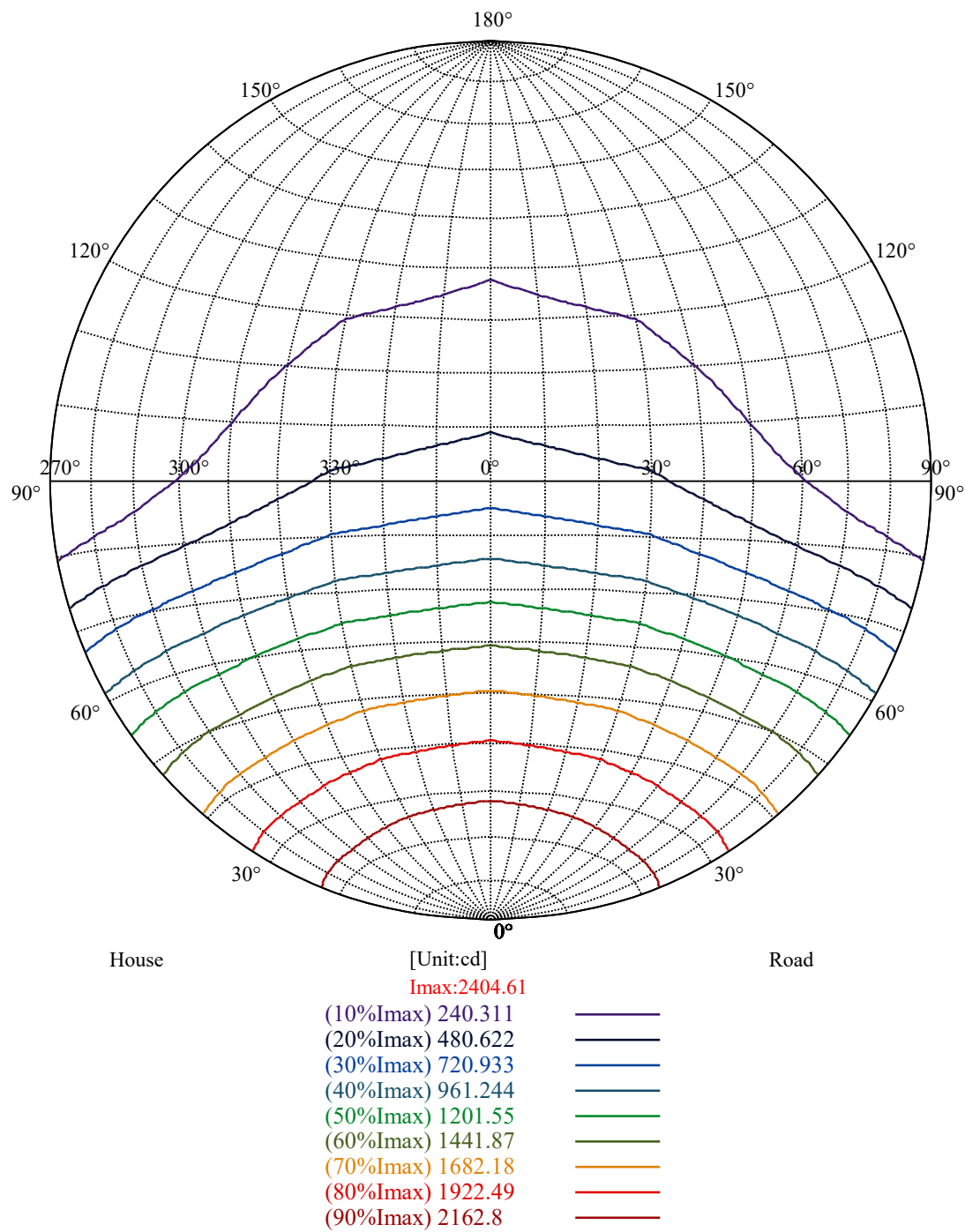
ZONAL LUMEN SUMMARY

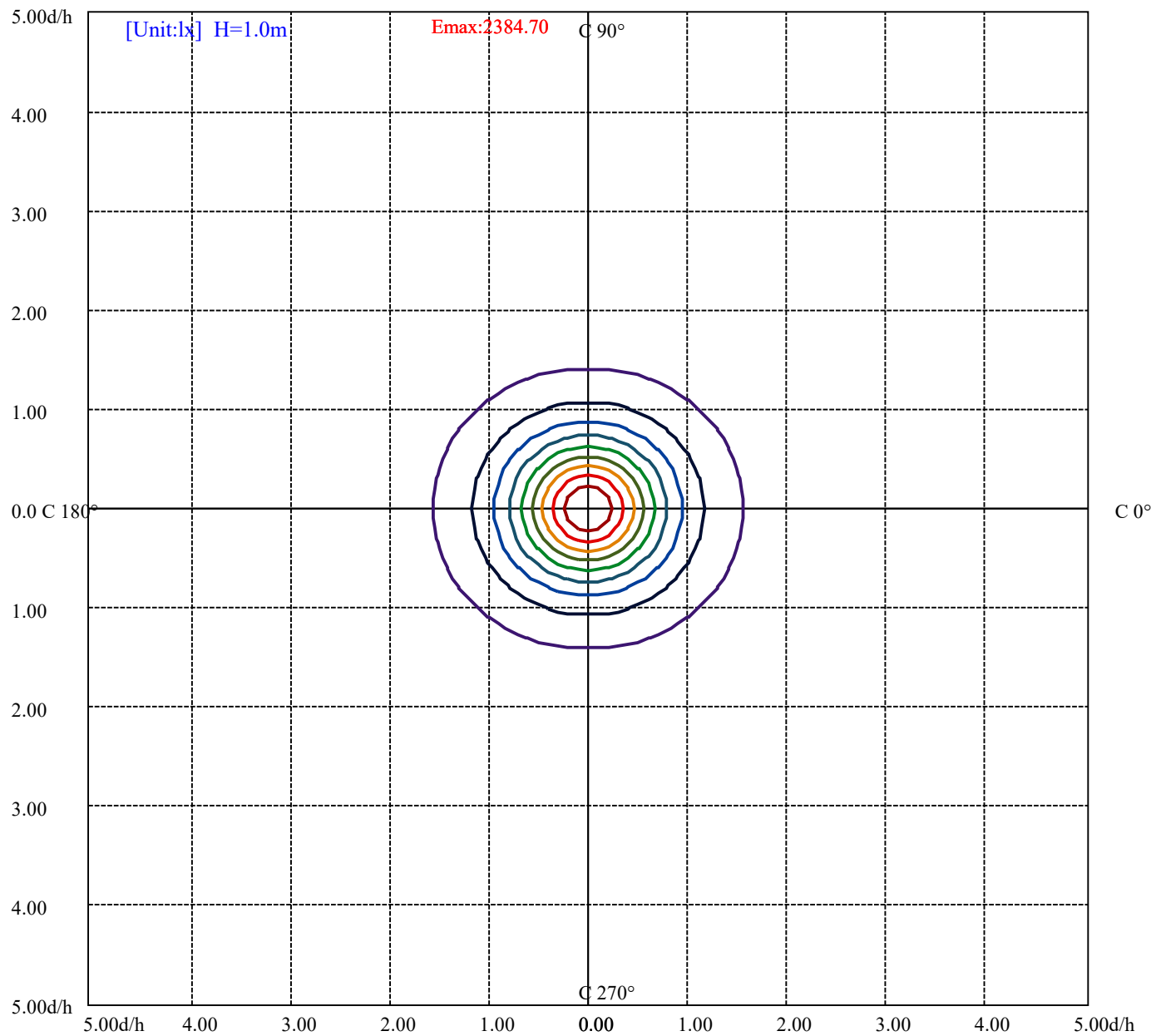
0-10	226.01
10-20	650.29
20-30	994.97
30-40	1220.09
40-50	1304.11
50-60	1243.86
60-70	1053.83
70-80	774.16
80-90	496.29
90-100	330.30
100-110	244.97
110-120	180.57
120-130	124.65
130-140	79.89
140-150	44.71
150-160	21.65
160-170	8.13
170-180	1.52



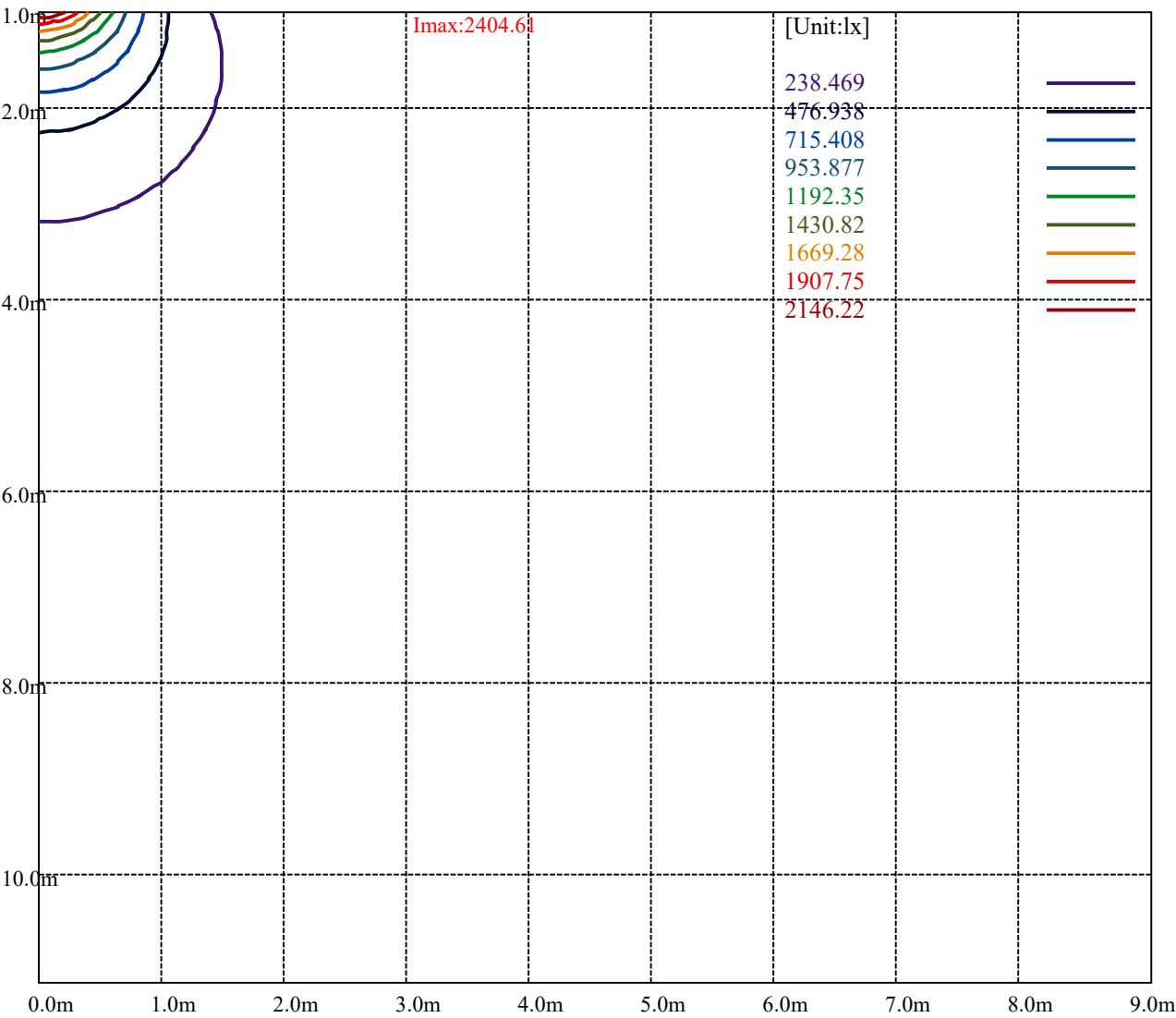








(10%Emax) 238.469	—
(20%Emax) 476.938	—
(30%Emax) 715.407	—
(40%Emax) 953.876	—
(50%Emax) 1192.35	—
(60%Emax) 1430.81	—
(70%Emax) 1669.28	—
(80%Emax) 1907.75	—
(90%Emax) 2146.22	—



Luminance Limiting Curve(no luminous side)

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Luminance Table

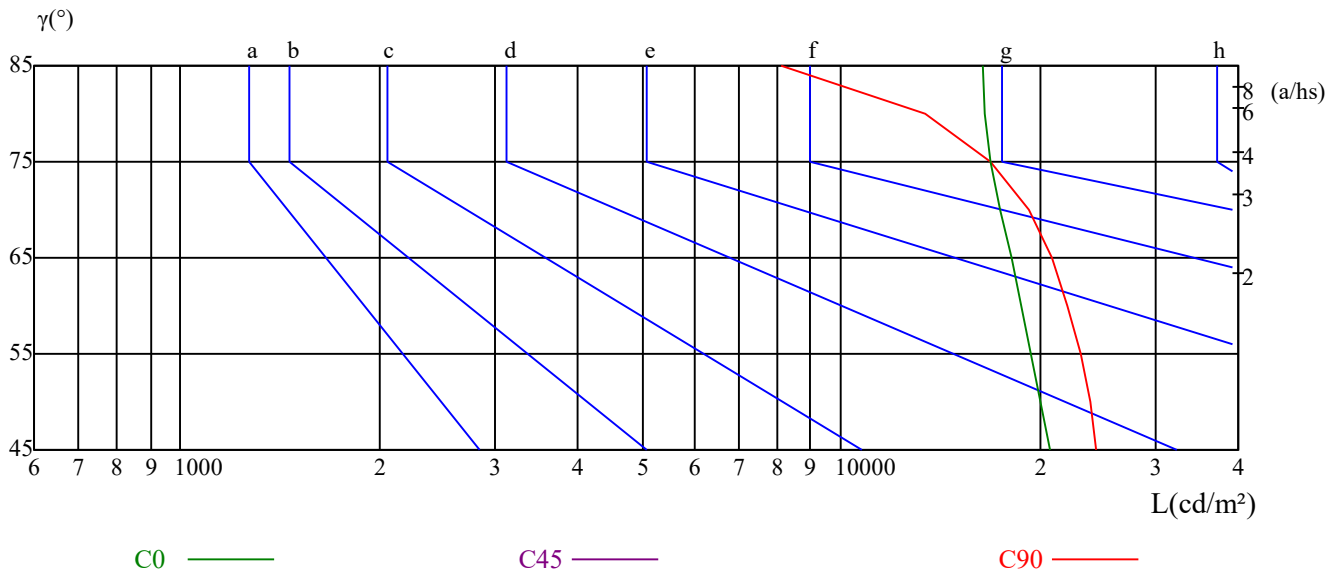
γ	45	50	55	60	65	70	75	80	85
C0	20691	20065	19464	18820	18133	17447	16880	16484	16365
C45	0	0	0	0	0	0	0	0	0
C90	24438	23830	23035	22110	20894	19313	16897	13395	8099

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
34336	21659	0	43129	17974	0	94302	9679	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



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

Date:
Humidity(%): 52%

Operator: CWR

Illumination assessment according UGR					
Rf of Ceiling		70	70	50	50
Rf of Wall		50	30	50	30
Rf of Floor		20	20	20	20
Room dimensions		Viewed crosswise			
X	Y				
2H	2H	22.09	23.55	22.62	24.09
	3H	24.24	25.57	24.78	26.13
	4H	25.22	26.49	25.78	27.05
	6H	26.20	27.38	26.77	27.95
	8H	26.64	27.79	27.22	28.37
4H	12H	27.07	28.18	27.65	28.76
	2H	22.79	24.05	23.35	24.61
	3H	25.11	26.21	25.69	26.79
	4H	26.30	27.29	26.90	27.90
	6H	27.41	28.30	28.03	28.93
8H	8H	27.97	28.81	28.60	29.44
	12H	28.52	29.30	29.15	29.93
	4H	26.62	27.46	27.25	28.09
	6H	27.93	28.65	28.58	29.29
	8H	28.69	29.32	29.35	30.00
12H	12H	29.40	29.94	30.07	30.62
	4H	26.65	27.44	27.29	28.06
	6H	28.07	28.70	28.74	29.38
	8H	28.85	29.39	29.52	30.08
Variation with the observer position at spacings:					
S = 1.0H		0.2/-0.6			
S = 1.5H		0.5/-0.6			
S = 2.0H		0.6/-0.8			
Standard tables:		BKBF			
Uncorrected UGR		11.1			

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

Intensity data(cd)

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C/γ(°)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
0.0	2384.69	2382.09	2384.19	2385.29	2385.09	2382.79	2382.99	2383.09	2378.39
30.0	2384.69	2376.08	2380.29	2376.88	2376.18	2372.78	2372.58	2372.48	2372.58
60.0	2384.69	2387.09	2388.70	2386.49	2389.30	2386.19	2382.99	2383.99	2382.39
90.0	2384.69	2404.21	2401.61	2404.61	2403.11	2395.30	2402.01	2396.10	2395.50
120.0	2384.69	2387.09	2388.70	2386.49	2389.30	2386.19	2382.99	2383.99	2382.39
150.0	2384.69	2376.08	2380.29	2376.88	2376.18	2372.78	2372.58	2372.48	2372.58
180.0	2384.69	2382.09	2384.19	2385.29	2385.09	2382.79	2382.99	2383.09	2378.39
210.0	2384.69	2376.08	2380.29	2376.88	2376.18	2372.78	2372.58	2372.48	2372.58
240.0	2384.69	2387.09	2388.70	2386.49	2389.30	2386.19	2382.99	2383.99	2382.39
270.0	2384.69	2404.21	2401.61	2404.61	2403.11	2395.30	2402.01	2396.10	2395.50
300.0	2384.69	2387.09	2388.70	2386.49	2389.30	2386.19	2382.99	2383.99	2382.39
330.0	2384.69	2376.08	2380.29	2376.88	2376.18	2372.78	2372.58	2372.48	2372.58
360.0	2384.69	2382.09	2384.19	2385.29	2385.09	2382.79	2382.99	2383.09	2378.39

C/γ(°)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
0.0	2377.08	2376.68	2379.39	2371.18	2371.98	2369.68	2367.98	2369.58	2366.17
30.0	2368.68	2369.08	2366.77	2365.47	2364.37	2359.97	2359.97	2357.87	2352.36
60.0	2381.89	2378.39	2374.18	2373.08	2368.98	2367.98	2363.37	2361.37	2358.57
90.0	2393.60	2390.60	2392.00	2385.69	2383.69	2376.58	2375.48	2371.68	2366.87
120.0	2381.89	2378.39	2374.18	2373.08	2368.98	2367.98	2363.37	2361.37	2358.57
150.0	2368.68	2369.08	2366.77	2365.47	2364.37	2359.97	2359.97	2357.87	2352.36
180.0	2377.08	2376.68	2379.39	2371.18	2371.98	2369.68	2367.98	2369.58	2366.17
210.0	2368.68	2369.08	2366.77	2365.47	2364.37	2359.97	2359.97	2357.87	2352.36
240.0	2381.89	2378.39	2374.18	2373.08	2368.98	2367.98	2363.37	2361.37	2358.57
270.0	2393.60	2390.60	2392.00	2385.69	2383.69	2376.58	2375.48	2371.68	2366.87
300.0	2381.89	2378.39	2374.18	2373.08	2368.98	2367.98	2363.37	2361.37	2358.57
330.0	2368.68	2369.08	2366.77	2365.47	2364.37	2359.97	2359.97	2357.87	2352.36
360.0	2377.08	2376.68	2379.39	2371.18	2371.98	2369.68	2367.98	2369.58	2366.17

C/γ(°)	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
0.0	2363.77	2357.67	2362.07	2355.36	2351.26	2351.26	2344.15	2341.15	2339.95
30.0	2352.06	2350.36	2346.56	2341.95	2338.45	2337.15	2330.54	2330.34	2324.83
60.0	2350.86	2350.56	2345.95	2342.05	2336.05	2332.54	2328.64	2321.83	2316.53
90.0	2362.77	2360.57	2355.06	2350.16	2342.55	2341.85	2332.64	2325.64	2319.93
120.0	2350.86	2350.56	2345.95	2342.05	2336.05	2332.54	2328.64	2321.83	2316.53
150.0	2352.06	2350.36	2346.56	2341.95	2338.45	2337.15	2330.54	2330.34	2324.83
180.0	2363.77	2357.67	2362.07	2355.36	2351.26	2351.26	2344.15	2341.15	2339.95
210.0	2352.06	2350.36	2346.56	2341.95	2338.45	2337.15	2330.54	2330.34	2324.83
240.0	2350.86	2350.56	2345.95	2342.05	2336.05	2332.54	2328.64	2321.83	2316.53
270.0	2362.77	2360.57	2355.06	2350.16	2342.55	2341.85	2332.64	2325.64	2319.93
300.0	2350.86	2350.56	2345.95	2342.05	2336.05	2332.54	2328.64	2321.83	2316.53
330.0	2352.06	2350.36	2346.56	2341.95	2338.45	2337.15	2330.54	2330.34	2324.83
360.0	2363.77	2357.67	2362.07	2355.36	2351.26	2351.26	2344.15	2341.15	2339.95

C/γ(°)	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5
0.0	2332.54	2329.94	2325.94	2327.04	2324.03	2315.83	2309.12	2304.72	2301.41
30.0	2318.23	2317.03	2308.22	2308.62	2301.31	2296.11	2291.40	2287.10	2279.59
60.0	2309.32	2307.22	2303.21	2294.10	2287.90	2279.59	2274.99	2266.78	2260.27
90.0	2316.63	2304.31	2299.61	2292.60	2285.70	2279.29	2272.88	2263.48	2256.27
120.0	2309.32	2307.22	2303.21	2294.10	2287.90	2279.59	2274.99	2266.78	2260.27
150.0	2318.23	2317.03	2308.22	2308.62	2301.31	2296.11	2291.40	2287.10	2279.59
180.0	2332.54	2329.94	2325.94	2327.04	2324.03	2315.83	2309.12	2304.72	2301.41
210.0	2318.23	2317.03	2308.22	2308.62	2301.31	2296.11	2291.40	2287.10	2279.59
240.0	2309.32	2307.22	2303.21	2294.10	2287.90	2279.59	2274.99	2266.78	2260.27
270.0	2316.63	2304.31	2299.61	2292.60	2285.70	2279.29	2272.88	2263.48	2256.27
300.0	2309.32	2307.22	2303.21	2294.10	2287.90	2279.59	2274.99	2266.78	2260.27
330.0	2318.23	2317.03	2308.22	2308.62	2301.31	2296.11	2291.40	2287.10	2279.59
360.0	2332.54	2329.94	2325.94	2327.04	2324.03	2315.83	2309.12	2304.72	2301.41

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	2293.70	2298.41	2283.19	2285.10	2275.19	2269.98	2265.28	2261.87	2252.06
30.0	2278.09	2269.88	2262.07	2256.37	2252.06	2245.46	2237.65	2231.34	2226.64
60.0	2252.46	2243.76	2239.15	2227.14	2221.44	2212.93	2206.32	2194.11	2187.70
90.0	2249.46	2240.15	2230.54	2218.83	2211.33	2197.21	2194.31	2184.50	2171.49
120.0	2252.46	2243.76	2239.15	2227.14	2221.44	2212.93	2206.32	2194.11	2187.70
150.0	2278.09	2269.88	2262.07	2256.37	2252.06	2245.46	2237.65	2231.34	2226.64
180.0	2293.70	2298.41	2283.19	2285.10	2275.19	2269.98	2265.28	2261.87	2252.06
210.0	2278.09	2269.88	2262.07	2256.37	2252.06	2245.46	2237.65	2231.34	2226.64
240.0	2252.46	2243.76	2239.15	2227.14	2221.44	2212.93	2206.32	2194.11	2187.70
270.0	2249.46	2240.15	2230.54	2218.83	2211.33	2197.21	2194.31	2184.50	2171.49
300.0	2252.46	2243.76	2239.15	2227.14	2221.44	2212.93	2206.32	2194.11	2187.70
330.0	2278.09	2269.88	2262.07	2256.37	2252.06	2245.46	2237.65	2231.34	2226.64
360.0	2293.70	2298.41	2283.19	2285.10	2275.19	2269.98	2265.28	2261.87	2252.06

C/γ(°)	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5
0.0	2245.76	2242.05	2230.24	2226.14	2219.33	2206.82	2205.12	2198.11	2189.30
30.0	2218.93	2211.33	2204.32	2194.01	2186.90	2180.30	2170.49	2163.78	2154.47
60.0	2179.80	2168.88	2162.98	2152.37	2143.56	2131.55	2120.44	2115.53	2101.22
90.0	2164.58	2156.07	2144.26	2132.35	2121.64	2109.63	2098.92	2087.11	2075.39
120.0	2179.80	2168.88	2162.98	2152.37	2143.56	2131.55	2120.44	2115.53	2101.22
150.0	2218.93	2211.33	2204.32	2194.01	2186.90	2180.30	2170.49	2163.78	2154.47
180.0	2245.76	2242.05	2230.24	2226.14	2219.33	2206.82	2205.12	2198.11	2189.30
210.0	2218.93	2211.33	2204.32	2194.01	2186.90	2180.30	2170.49	2163.78	2154.47
240.0	2179.80	2168.88	2162.98	2152.37	2143.56	2131.55	2120.44	2115.53	2101.22
270.0	2164.58	2156.07	2144.26	2132.35	2121.64	2109.63	2098.92	2087.11	2075.39
300.0	2179.80	2168.88	2162.98	2152.37	2143.56	2131.55	2120.44	2115.53	2101.22
330.0	2218.93	2211.33	2204.32	2194.01	2186.90	2180.30	2170.49	2163.78	2154.47
360.0	2245.76	2242.05	2230.24	2226.14	2219.33	2206.82	2205.12	2198.11	2189.30

C/γ(°)	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0
0.0	2184.90	2170.09	2162.68	2156.67	2146.86	2140.56	2132.85	2122.04	2117.24
30.0	2146.16	2139.76	2131.15	2119.84	2111.83	2103.52	2093.51	2083.50	2075.09
60.0	2089.01	2082.60	2073.49	2061.58	2048.17	2039.16	2026.95	2016.44	2003.63
90.0	2066.39	2055.08	2042.26	2029.85	2016.94	1999.92	1990.11	1980.80	1962.39
120.0	2089.01	2082.60	2073.49	2061.58	2048.17	2039.16	2026.95	2016.44	2003.63
150.0	2146.16	2139.76	2131.15	2119.84	2111.83	2103.52	2093.51	2083.50	2075.09
180.0	2184.90	2170.09	2162.68	2156.67	2146.86	2140.56	2132.85	2122.04	2117.24
210.0	2146.16	2139.76	2131.15	2119.84	2111.83	2103.52	2093.51	2083.50	2075.09
240.0	2089.01	2082.60	2073.49	2061.58	2048.17	2039.16	2026.95	2016.44	2003.63
270.0	2066.39	2055.08	2042.26	2029.85	2016.94	1999.92	1990.11	1980.80	1962.39
300.0	2089.01	2082.60	2073.49	2061.58	2048.17	2039.16	2026.95	2016.44	2003.63
330.0	2146.16	2139.76	2131.15	2119.84	2111.83	2103.52	2093.51	2083.50	2075.09
360.0	2184.90	2170.09	2162.68	2156.67	2146.86	2140.56	2132.85	2122.04	2117.24

C/γ(°)	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5
0.0	2104.62	2098.22	2085.30	2079.60	2067.59	2061.68	2053.17	2040.26	2028.85
30.0	2065.69	2053.97	2044.97	2032.35	2023.34	2015.64	2004.63	1994.32	1982.41
60.0	1991.91	1981.70	1968.29	1956.58	1944.17	1931.16	1917.14	1904.63	1893.32
90.0	1951.38	1939.76	1925.75	1913.74	1896.22	1884.01	1869.60	1858.89	1841.27
120.0	1991.91	1981.70	1968.29	1956.58	1944.17	1931.16	1917.14	1904.63	1893.32
150.0	2065.69	2053.97	2044.97	2032.35	2023.34	2015.64	2004.63	1994.32	1982.41
180.0	2104.62	2098.22	2085.30	2079.60	2067.59	2061.68	2053.17	2040.26	2028.85
210.0	2065.69	2053.97	2044.97	2032.35	2023.34	2015.64	2004.63	1994.32	1982.41
240.0	1991.91	1981.70	1968.29	1956.58	1944.17	1931.16	1917.14	1904.63	1893.32
270.0	1951.38	1939.76	1925.75	1913.74	1896.22	1884.01	1869.60	1858.89	1841.27
300.0	1991.91	1981.70	1968.29	1956.58	1944.17	1931.16	1917.14	1904.63	1893.32
330.0	2065.69	2053.97	2044.97	2032.35	2023.34	2015.64	2004.63	1994.32	1982.41
360.0	2104.62	2098.22	2085.30	2079.60	2067.59	2061.68	2053.17	2040.26	2028.85

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	2020.84	2012.13	2001.42	1988.41	1979.00	1966.89	1956.38	1948.47	1935.76
30.0	1972.80	1963.19	1946.97	1938.16	1926.75	1915.74	1904.53	1891.52	1881.71
60.0	1881.71	1868.40	1852.98	1842.37	1828.66	1812.04	1802.13	1785.02	1774.91
90.0	1828.56	1811.94	1799.13	1783.01	1766.50	1753.09	1736.87	1720.95	1707.44
120.0	1881.71	1868.40	1852.98	1842.37	1828.66	1812.04	1802.13	1785.02	1774.91
150.0	1972.80	1963.19	1946.97	1938.16	1926.75	1915.74	1904.53	1891.52	1881.71
180.0	2020.84	2012.13	2001.42	1988.41	1979.00	1966.89	1956.38	1948.47	1935.76
210.0	1972.80	1963.19	1946.97	1938.16	1926.75	1915.74	1904.53	1891.52	1881.71
240.0	1881.71	1868.40	1852.98	1842.37	1828.66	1812.04	1802.13	1785.02	1774.91
270.0	1828.56	1811.94	1799.13	1783.01	1766.50	1753.09	1736.87	1720.95	1707.44
300.0	1881.71	1868.40	1852.98	1842.37	1828.66	1812.04	1802.13	1785.02	1774.91
330.0	1972.80	1963.19	1946.97	1938.16	1926.75	1915.74	1904.53	1891.52	1881.71
360.0	2020.84	2012.13	2001.42	1988.41	1979.00	1966.89	1956.38	1948.47	1935.76
C/γ(°)	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5
0.0	1923.05	1912.84	1902.33	1892.52	1876.60	1871.50	1858.49	1845.27	1833.56
30.0	1867.29	1857.19	1844.87	1832.36	1819.75	1807.84	1795.53	1781.91	1771.10
60.0	1759.69	1746.38	1729.86	1716.75	1701.74	1686.62	1670.31	1658.49	1642.38
90.0	1690.22	1673.41	1657.99	1641.78	1624.86	1609.75	1594.93	1577.02	1560.30
120.0	1759.69	1746.38	1729.86	1716.75	1701.74	1686.62	1670.31	1658.49	1642.38
150.0	1867.29	1857.19	1844.87	1832.36	1819.75	1807.84	1795.53	1781.91	1771.10
180.0	1923.05	1912.84	1902.33	1892.52	1876.60	1871.50	1858.49	1845.27	1833.56
210.0	1867.29	1857.19	1844.87	1832.36	1819.75	1807.84	1795.53	1781.91	1771.10
240.0	1759.69	1746.38	1729.86	1716.75	1701.74	1686.62	1670.31	1658.49	1642.38
270.0	1690.22	1673.41	1657.99	1641.78	1624.86	1609.75	1594.93	1577.02	1560.30
300.0	1759.69	1746.38	1729.86	1716.75	1701.74	1686.62	1670.31	1658.49	1642.38
330.0	1867.29	1857.19	1844.87	1832.36	1819.75	1807.84	1795.53	1781.91	1771.10
360.0	1923.05	1912.84	1902.33	1892.52	1876.60	1871.50	1858.49	1845.27	1833.56
C/γ(°)	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0
0.0	1821.85	1811.54	1799.33	1786.42	1775.11	1761.79	1747.58	1738.37	1723.96
30.0	1756.09	1743.38	1732.16	1718.05	1704.04	1693.23	1679.91	1664.40	1653.99
60.0	1628.47	1615.55	1597.44	1585.32	1569.51	1551.89	1536.68	1520.16	1505.25
90.0	1544.89	1526.47	1512.75	1493.84	1478.42	1455.60	1442.39	1423.97	1407.65
120.0	1628.47	1615.55	1597.44	1585.32	1569.51	1551.89	1536.68	1520.16	1505.25
150.0	1756.09	1743.38	1732.16	1718.05	1704.04	1693.23	1679.91	1664.40	1653.99
180.0	1821.85	1811.54	1799.33	1786.42	1775.11	1761.79	1747.58	1738.37	1723.96
210.0	1756.09	1743.38	1732.16	1718.05	1704.04	1693.23	1679.91	1664.40	1653.99
240.0	1628.47	1615.55	1597.44	1585.32	1569.51	1551.89	1536.68	1520.16	1505.25
270.0	1544.89	1526.47	1512.75	1493.84	1478.42	1455.60	1442.39	1423.97	1407.65
300.0	1628.47	1615.55	1597.44	1585.32	1569.51	1551.89	1536.68	1520.16	1505.25
330.0	1756.09	1743.38	1732.16	1718.05	1704.04	1693.23	1679.91	1664.40	1653.99
360.0	1821.85	1811.54	1799.33	1786.42	1775.11	1761.79	1747.58	1738.37	1723.96
C/γ(°)	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5
0.0	1710.44	1696.63	1684.52	1672.31	1659.40	1644.58	1633.17	1617.86	1601.94
30.0	1637.07	1626.56	1609.55	1596.83	1584.32	1570.41	1554.49	1540.58	1525.47
60.0	1488.83	1476.52	1459.00	1441.49	1425.77	1409.45	1394.34	1378.93	1361.11
90.0	1391.04	1373.82	1352.40	1335.28	1315.76	1300.45	1283.33	1264.32	1244.20
120.0	1488.83	1476.52	1459.00	1441.49	1425.77	1409.45	1394.34	1378.93	1361.11
150.0	1637.07	1626.56	1609.55	1596.83	1584.32	1570.41	1554.49	1540.58	1525.47
180.0	1710.44	1696.63	1684.52	1672.31	1659.40	1644.58	1633.17	1617.86	1601.94
210.0	1637.07	1626.56	1609.55	1596.83	1584.32	1570.41	1554.49	1540.58	1525.47
240.0	1488.83	1476.52	1459.00	1441.49	1425.77	1409.45	1394.34	1378.93	1361.11
270.0	1391.04	1373.82	1352.40	1335.28	1315.76	1300.45	1283.33	1264.32	1244.20
300.0	1488.83	1476.52	1459.00	1441.49	1425.77	1409.45	1394.34	1378.93	1361.11
330.0	1637.07	1626.56	1609.55	1596.83	1584.32	1570.41	1554.49	1540.58	1525.47
360.0	1710.44	1696.63	1684.52	1672.31	1659.40	1644.58	1633.17	1617.86	1601.94

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	1590.83	1575.61	1565.30	1550.99	1534.37	1521.96	1508.35	1492.73	1482.43
30.0	1512.65	1496.94	1484.63	1469.51	1454.00	1439.28	1424.57	1410.26	1396.24
60.0	1346.09	1328.78	1312.26	1295.75	1279.03	1263.92	1245.70	1228.28	1211.36
90.0	1223.28	1207.26	1189.64	1171.73	1150.71	1133.59	1115.37	1096.65	1077.84
120.0	1346.09	1328.78	1312.26	1295.75	1279.03	1263.92	1245.70	1228.28	1211.36
150.0	1512.65	1496.94	1484.63	1469.51	1454.00	1439.28	1424.57	1410.26	1396.24
180.0	1590.83	1575.61	1565.30	1550.99	1534.37	1521.96	1508.35	1492.73	1482.43
210.0	1512.65	1496.94	1484.63	1469.51	1454.00	1439.28	1424.57	1410.26	1396.24
240.0	1346.09	1328.78	1312.26	1295.75	1279.03	1263.92	1245.70	1228.28	1211.36
270.0	1223.28	1207.26	1189.64	1171.73	1150.71	1133.59	1115.37	1096.65	1077.84
300.0	1346.09	1328.78	1312.26	1295.75	1279.03	1263.92	1245.70	1228.28	1211.36
330.0	1512.65	1496.94	1484.63	1469.51	1454.00	1439.28	1424.57	1410.26	1396.24
360.0	1590.83	1575.61	1565.30	1550.99	1534.37	1521.96	1508.35	1492.73	1482.43

C/γ(°)	58.5	59.0	59.5	60.0	60.5	61.0	61.5	62.0	62.5
0.0	1465.41	1449.79	1437.68	1424.07	1409.15	1393.44	1379.63	1366.11	1350.90
30.0	1380.13	1365.41	1349.90	1336.38	1320.77	1306.26	1290.04	1274.53	1257.61
60.0	1195.15	1176.63	1161.92	1144.90	1126.78	1108.57	1093.45	1074.83	1060.02
90.0	1058.72	1036.20	1018.68	1000.47	981.79	962.50	943.16	921.44	902.41
120.0	1195.15	1176.63	1161.92	1144.90	1126.78	1108.57	1093.45	1074.83	1060.02
150.0	1380.13	1365.41	1349.90	1336.38	1320.77	1306.26	1290.04	1274.53	1257.61
180.0	1465.41	1449.79	1437.68	1424.07	1409.15	1393.44	1379.63	1366.11	1350.90
210.0	1380.13	1365.41	1349.90	1336.38	1320.77	1306.26	1290.04	1274.53	1257.61
240.0	1195.15	1176.63	1161.92	1144.90	1126.78	1108.57	1093.45	1074.83	1060.02
270.0	1058.72	1036.20	1018.68	1000.47	981.79	962.50	943.16	921.44	902.41
300.0	1195.15	1176.63	1161.92	1144.90	1126.78	1108.57	1093.45	1074.83	1060.02
330.0	1380.13	1365.41	1349.90	1336.38	1320.77	1306.26	1290.04	1274.53	1257.61
360.0	1465.41	1449.79	1437.68	1424.07	1409.15	1393.44	1379.63	1366.11	1350.90

C/γ(°)	63.0	63.5	64.0	64.5	65.0	65.5	66.0	66.5	67.0
0.0	1337.99	1320.17	1304.05	1292.64	1275.53	1260.71	1247.70	1229.48	1217.37
30.0	1242.59	1228.58	1212.57	1197.15	1181.64	1165.42	1150.41	1134.49	1119.18
60.0	1040.70	1023.18	1005.47	987.57	971.18	953.92	935.70	918.11	900.28
90.0	881.60	864.28	844.14	825.75	804.58	783.13	764.30	745.59	725.66
120.0	1040.70	1023.18	1005.47	987.57	971.18	953.92	935.70	918.11	900.28
150.0	1242.59	1228.58	1212.57	1197.15	1181.64	1165.42	1150.41	1134.49	1119.18
180.0	1337.99	1320.17	1304.05	1292.64	1275.53	1260.71	1247.70	1229.48	1217.37
210.0	1242.59	1228.58	1212.57	1197.15	1181.64	1165.42	1150.41	1134.49	1119.18
240.0	1040.70	1023.18	1005.47	987.57	971.18	953.92	935.70	918.11	900.28
270.0	881.60	864.28	844.14	825.75	804.58	783.13	764.30	745.59	725.66
300.0	1040.70	1023.18	1005.47	987.57	971.18	953.92	935.70	918.11	900.28
330.0	1242.59	1228.58	1212.57	1197.15	1181.64	1165.42	1150.41	1134.49	1119.18
360.0	1337.99	1320.17	1304.05	1292.64	1275.53	1260.71	1247.70	1229.48	1217.37

C/γ(°)	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5
0.0	1200.95	1185.14	1170.83	1155.61	1142.20	1124.98	1111.47	1097.96	1079.24
30.0	1103.46	1087.65	1071.83	1056.52	1041.80	1025.89	1010.07	995.37	979.31
60.0	883.70	865.58	848.77	832.02	813.55	796.23	778.90	761.53	744.38
90.0	705.77	685.10	664.97	646.38	626.11	607.83	586.94	567.02	546.86
120.0	883.70	865.58	848.77	832.02	813.55	796.23	778.90	761.53	744.38
150.0	1103.46	1087.65	1071.83	1056.52	1041.80	1025.89	1010.07	995.37	979.31
180.0	1200.95	1185.14	1170.83	1155.61	1142.20	1124.98	1111.47	1097.96	1079.24
210.0	1103.46	1087.65	1071.83	1056.52	1041.80	1025.89	1010.07	995.37	979.31
240.0	883.70	865.58	848.77	832.02	813.55	796.23	778.90	761.53	744.38
270.0	705.77	685.10	664.97	646.38	626.11	607.83	586.94	567.02	546.86
300.0	883.70	865.58	848.77	832.02	813.55	796.23	778.90	761.53	744.38
330.0	1103.46	1087.65	1071.83	1056.52	1041.80	1025.89	1010.07	995.37	979.31
360.0	1200.95	1185.14	1170.83	1155.61	1142.20	1124.98	1111.47	1097.96	1079.24

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	1067.53	1051.71	1038.90	1022.48	1008.67	994.61	981.18	966.46	951.24
30.0	964.45	948.22	932.86	917.02	903.35	888.20	873.01	858.53	844.28
60.0	727.40	710.43	692.89	675.07	659.36	642.31	625.39	609.05	592.73
90.0	526.81	505.67	485.43	466.07	447.31	428.13	408.90	388.67	369.81
120.0	727.40	710.43	692.89	675.07	659.36	642.31	625.39	609.05	592.73
150.0	964.45	948.22	932.86	917.02	903.35	888.20	873.01	858.53	844.28
180.0	1067.53	1051.71	1038.90	1022.48	1008.67	994.61	981.18	966.46	951.24
210.0	964.45	948.22	932.86	917.02	903.35	888.20	873.01	858.53	844.28
240.0	727.40	710.43	692.89	675.07	659.36	642.31	625.39	609.05	592.73
270.0	526.81	505.67	485.43	466.07	447.31	428.13	408.90	388.67	369.81
300.0	727.40	710.43	692.89	675.07	659.36	642.31	625.39	609.05	592.73
330.0	964.45	948.22	932.86	917.02	903.35	888.20	873.01	858.53	844.28
360.0	1067.53	1051.71	1038.90	1022.48	1008.67	994.61	981.18	966.46	951.24

C/γ(°)	76.5	77.0	77.5	78.0	78.5	79.0	79.5	80.0	80.5
0.0	938.52	924.94	911.61	896.23	884.14	870.41	858.21	846.15	831.03
30.0	830.65	815.12	801.31	786.87	773.08	759.90	746.29	732.70	720.28
60.0	576.15	560.04	543.33	527.10	511.40	495.83	480.35	465.70	450.82
90.0	352.39	333.27	314.46	295.72	277.26	259.43	241.85	224.25	207.94
120.0	576.15	560.04	543.33	527.10	511.40	495.83	480.35	465.70	450.82
150.0	830.65	815.12	801.31	786.87	773.08	759.90	746.29	732.70	720.28
180.0	938.52	924.94	911.61	896.23	884.14	870.41	858.21	846.15	831.03
210.0	830.65	815.12	801.31	786.87	773.08	759.90	746.29	732.70	720.28
240.0	576.15	560.04	543.33	527.10	511.40	495.83	480.35	465.70	450.82
270.0	352.39	333.27	314.46	295.72	277.26	259.43	241.85	224.25	207.94
300.0	576.15	560.04	543.33	527.10	511.40	495.83	480.35	465.70	450.82
330.0	830.65	815.12	801.31	786.87	773.08	759.90	746.29	732.70	720.28
360.0	938.52	924.94	911.61	896.23	884.14	870.41	858.21	846.15	831.03

C/γ(°)	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5	85.0
0.0	818.16	807.22	794.08	782.17	770.17	757.99	746.38	734.33	722.44
30.0	707.00	695.09	681.73	669.93	657.55	646.25	634.18	622.32	610.57
60.0	436.75	423.83	409.91	396.85	383.58	371.18	359.68	347.82	336.45
90.0	190.74	174.12	158.54	143.41	129.19	114.62	100.20	86.77	74.15
120.0	436.75	423.83	409.91	396.85	383.58	371.18	359.68	347.82	336.45
150.0	707.00	695.09	681.73	669.93	657.55	646.25	634.18	622.32	610.57
180.0	818.16	807.22	794.08	782.17	770.17	757.99	746.38	734.33	722.44
210.0	707.00	695.09	681.73	669.93	657.55	646.25	634.18	622.32	610.57
240.0	436.75	423.83	409.91	396.85	383.58	371.18	359.68	347.82	336.45
270.0	190.74	174.12	158.54	143.41	129.19	114.62	100.20	86.77	74.15
300.0	436.75	423.83	409.91	396.85	383.58	371.18	359.68	347.82	336.45
330.0	707.00	695.09	681.73	669.93	657.55	646.25	634.18	622.32	610.57
360.0	818.16	807.22	794.08	782.17	770.17	757.99	746.38	734.33	722.44

C/γ(°)	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5
0.0	712.16	701.01	689.65	678.51	669.20	657.98	648.50	637.84	628.45
30.0	600.30	589.50	578.83	568.76	558.02	548.28	538.39	528.15	519.22
60.0	326.11	315.73	305.58	295.93	287.10	278.67	270.33	262.17	254.60
90.0	63.21	52.69	43.08	34.13	26.04	19.55	14.59	10.73	8.05
120.0	326.11	315.73	305.58	295.93	287.10	278.67	270.33	262.17	254.60
150.0	600.30	589.50	578.83	568.76	558.02	548.28	538.39	528.15	519.22
180.0	712.16	701.01	689.65	678.51	669.20	657.98	648.50	637.84	628.45
210.0	600.30	589.50	578.83	568.76	558.02	548.28	538.39	528.15	519.22
240.0	326.11	315.73	305.58	295.93	287.10	278.67	270.33	262.17	254.60
270.0	63.21	52.69	43.08	34.13	26.04	19.55	14.59	10.73	8.05
300.0	326.11	315.73	305.58	295.93	287.10	278.67	270.33	262.17	254.60
330.0	600.30	589.50	578.83	568.76	558.02	548.28	538.39	528.15	519.22
360.0	712.16	701.01	689.65	678.51	669.20	657.98	648.50	637.84	628.45

C/γ(°)	90.0	90.5	91.0	91.5	92.0	92.5	93.0	93.5	94.0
0.0	620.50	610.28	601.23	592.06	582.59	573.82	565.49	557.09	549.85
30.0	510.22	501.45	493.02	484.38	476.84	469.34	461.50	454.39	446.83
60.0	247.41	240.57	234.51	228.81	223.32	218.02	212.99	208.48	204.23
90.0	6.50	5.96	5.69	5.50	5.33	5.11	4.88	4.68	4.53
120.0	247.41	240.57	234.51	228.81	223.32	218.02	212.99	208.48	204.23
150.0	510.22	501.45	493.02	484.38	476.84	469.34	461.50	454.39	446.83
180.0	620.50	610.28	601.23	592.06	582.59	573.82	565.49	557.09	549.85
210.0	510.22	501.45	493.02	484.38	476.84	469.34	461.50	454.39	446.83
240.0	247.41	240.57	234.51	228.81	223.32	218.02	212.99	208.48	204.23
270.0	6.50	5.96	5.69	5.50	5.33	5.11	4.88	4.68	4.53
300.0	247.41	240.57	234.51	228.81	223.32	218.02	212.99	208.48	204.23
330.0	510.22	501.45	493.02	484.38	476.84	469.34	461.50	454.39	446.83
360.0	620.50	610.28	601.23	592.06	582.59	573.82	565.49	557.09	549.85
C/γ(°)	94.5	95.0	95.5	96.0	96.5	97.0	97.5	98.0	98.5
0.0	541.08	533.68	526.23	519.28	511.75	504.50	497.98	491.21	485.50
30.0	440.33	433.66	426.79	420.88	414.67	409.31	403.23	397.99	392.15
60.0	200.17	196.42	192.87	189.32	186.23	183.30	180.55	177.85	175.11
90.0	4.39	4.27	4.13	4.00	3.88	3.77	3.68	3.59	3.51
120.0	200.17	196.42	192.87	189.32	186.23	183.30	180.55	177.85	175.11
150.0	440.33	433.66	426.79	420.88	414.67	409.31	403.23	397.99	392.15
180.0	541.08	533.68	526.23	519.28	511.75	504.50	497.98	491.21	485.50
210.0	440.33	433.66	426.79	420.88	414.67	409.31	403.23	397.99	392.15
240.0	200.17	196.42	192.87	189.32	186.23	183.30	180.55	177.85	175.11
270.0	4.39	4.27	4.13	4.00	3.88	3.77	3.68	3.59	3.51
300.0	200.17	196.42	192.87	189.32	186.23	183.30	180.55	177.85	175.11
330.0	440.33	433.66	426.79	420.88	414.67	409.31	403.23	397.99	392.15
360.0	541.08	533.68	526.23	519.28	511.75	504.50	497.98	491.21	485.50
C/γ(°)	99.0	99.5	100.0	100.5	101.0	101.5	102.0	102.5	103.0
0.0	478.88	472.23	467.13	461.41	455.68	450.93	445.16	440.18	434.32
30.0	387.07	382.32	377.49	372.78	367.97	363.89	359.51	355.33	351.25
60.0	172.58	170.20	167.81	165.54	163.30	161.06	158.97	156.77	154.80
90.0	3.43	3.39	3.32	3.29	3.27	3.25	3.24	3.23	3.23
120.0	172.58	170.20	167.81	165.54	163.30	161.06	158.97	156.77	154.80
150.0	387.07	382.32	377.49	372.78	367.97	363.89	359.51	355.33	351.25
180.0	478.88	472.23	467.13	461.41	455.68	450.93	445.16	440.18	434.32
210.0	387.07	382.32	377.49	372.78	367.97	363.89	359.51	355.33	351.25
240.0	172.58	170.20	167.81	165.54	163.30	161.06	158.97	156.77	154.80
270.0	3.43	3.39	3.32	3.29	3.27	3.25	3.24	3.23	3.23
300.0	172.58	170.20	167.81	165.54	163.30	161.06	158.97	156.77	154.80
330.0	387.07	382.32	377.49	372.78	367.97	363.89	359.51	355.33	351.25
360.0	478.88	472.23	467.13	461.41	455.68	450.93	445.16	440.18	434.32
C/γ(°)	103.5	104.0	104.5	105.0	105.5	106.0	106.5	107.0	107.5
0.0	429.88	424.64	420.01	414.81	410.94	406.49	402.05	398.30	393.89
30.0	347.91	343.18	339.56	335.81	332.16	328.07	324.68	321.69	317.81
60.0	152.70	150.65	148.63	146.74	144.84	142.95	140.98	139.04	137.00
90.0	3.25	3.25	3.28	3.29	3.32	3.33	3.37	3.40	3.46
120.0	152.70	150.65	148.63	146.74	144.84	142.95	140.98	139.04	137.00
150.0	347.91	343.18	339.56	335.81	332.16	328.07	324.68	321.69	317.81
180.0	429.88	424.64	420.01	414.81	410.94	406.49	402.05	398.30	393.89
210.0	347.91	343.18	339.56	335.81	332.16	328.07	324.68	321.69	317.81
240.0	152.70	150.65	148.63	146.74	144.84	142.95	140.98	139.04	137.00
270.0	3.25	3.25	3.28	3.29	3.32	3.33	3.37	3.40	3.46
300.0	152.70	150.65	148.63	146.74	144.84	142.95	140.98	139.04	137.00
330.0	347.91	343.18	339.56	335.81	332.16	328.07	324.68	321.69	317.81
360.0	429.88	424.64	420.01	414.81	410.94	406.49	402.05	398.30	393.89

C/γ(°)	108.0	108.5	109.0	109.5	110.0	110.5	111.0	111.5	112.0
0.0	389.05	384.86	381.40	376.43	372.65	368.78	364.66	360.65	356.30
30.0	314.00	310.72	307.37	303.55	300.63	296.62	293.34	289.91	286.41
60.0	135.02	133.24	131.46	129.58	127.45	125.16	122.62	120.42	118.10
90.0	3.52	3.58	3.64	3.67	3.71	3.77	3.84	3.91	3.98
120.0	135.02	133.24	131.46	129.58	127.45	125.16	122.62	120.42	118.10
150.0	314.00	310.72	307.37	303.55	300.63	296.62	293.34	289.91	286.41
180.0	389.05	384.86	381.40	376.43	372.65	368.78	364.66	360.65	356.30
210.0	314.00	310.72	307.37	303.55	300.63	296.62	293.34	289.91	286.41
240.0	135.02	133.24	131.46	129.58	127.45	125.16	122.62	120.42	118.10
270.0	3.52	3.58	3.64	3.67	3.71	3.77	3.84	3.91	3.98
300.0	135.02	133.24	131.46	129.58	127.45	125.16	122.62	120.42	118.10
330.0	314.00	310.72	307.37	303.55	300.63	296.62	293.34	289.91	286.41
360.0	389.05	384.86	381.40	376.43	372.65	368.78	364.66	360.65	356.30
C/γ(°)	112.5	113.0	113.5	114.0	114.5	115.0	115.5	116.0	116.5
0.0	352.38	348.24	344.28	340.93	336.98	333.15	328.45	324.99	321.05
30.0	282.99	279.78	276.31	273.28	269.94	266.78	263.71	260.37	257.41
60.0	115.85	114.00	112.60	111.39	110.14	108.88	107.69	105.97	103.85
90.0	4.07	4.10	4.15	4.20	4.26	4.33	4.42	4.45	4.50
120.0	115.85	114.00	112.60	111.39	110.14	108.88	107.69	105.97	103.85
150.0	282.99	279.78	276.31	273.28	269.94	266.78	263.71	260.37	257.41
180.0	352.38	348.24	344.28	340.93	336.98	333.15	328.45	324.99	321.05
210.0	282.99	279.78	276.31	273.28	269.94	266.78	263.71	260.37	257.41
240.0	115.85	114.00	112.60	111.39	110.14	108.88	107.69	105.97	103.85
270.0	4.07	4.10	4.15	4.20	4.26	4.33	4.42	4.45	4.50
300.0	115.85	114.00	112.60	111.39	110.14	108.88	107.69	105.97	103.85
330.0	282.99	279.78	276.31	273.28	269.94	266.78	263.71	260.37	257.41
360.0	352.38	348.24	344.28	340.93	336.98	333.15	328.45	324.99	321.05
C/γ(°)	117.0	117.5	118.0	118.5	119.0	119.5	120.0	120.5	121.0
0.0	317.23	313.62	309.55	306.31	302.07	298.12	294.64	290.70	287.33
30.0	254.20	251.10	247.91	244.82	241.55	238.18	234.63	231.24	227.79
60.0	101.63	100.26	99.21	98.06	96.82	96.12	95.31	94.27	93.11
90.0	4.56	4.62	4.68	4.74	4.80	4.86	4.92	4.98	5.05
120.0	101.63	100.26	99.21	98.06	96.82	96.12	95.31	94.27	93.11
150.0	254.20	251.10	247.91	244.82	241.55	238.18	234.63	231.24	227.79
180.0	317.23	313.62	309.55	306.31	302.07	298.12	294.64	290.70	287.33
210.0	254.20	251.10	247.91	244.82	241.55	238.18	234.63	231.24	227.79
240.0	101.63	100.26	99.21	98.06	96.82	96.12	95.31	94.27	93.11
270.0	4.56	4.62	4.68	4.74	4.80	4.86	4.92	4.98	5.05
300.0	101.63	100.26	99.21	98.06	96.82	96.12	95.31	94.27	93.11
330.0	254.20	251.10	247.91	244.82	241.55	238.18	234.63	231.24	227.79
360.0	317.23	313.62	309.55	306.31	302.07	298.12	294.64	290.70	287.33
C/γ(°)	121.5	122.0	122.5	123.0	123.5	124.0	124.5	125.0	125.5
0.0	283.65	279.84	276.04	272.23	268.90	265.33	261.71	258.29	254.85
30.0	224.37	220.58	216.92	213.27	209.53	206.13	202.52	199.20	196.22
60.0	91.80	90.43	89.02	87.67	86.41	85.23	83.95	82.43	80.95
90.0	5.10	5.16	5.23	5.28	5.34	5.39	5.47	5.53	5.59
120.0	91.80	90.43	89.02	87.67	86.41	85.23	83.95	82.43	80.95
150.0	224.37	220.58	216.92	213.27	209.53	206.13	202.52	199.20	196.22
180.0	283.65	279.84	276.04	272.23	268.90	265.33	261.71	258.29	254.85
210.0	224.37	220.58	216.92	213.27	209.53	206.13	202.52	199.20	196.22
240.0	91.80	90.43	89.02	87.67	86.41	85.23	83.95	82.43	80.95
270.0	5.10	5.16	5.23	5.28	5.34	5.39	5.47	5.53	5.59
300.0	91.80	90.43	89.02	87.67	86.41	85.23	83.95	82.43	80.95
330.0	224.37	220.58	216.92	213.27	209.53	206.13	202.52	199.20	196.22
360.0	283.65	279.84	276.04	272.23	268.90	265.33	261.71	258.29	254.85

C/γ(°)	126.0	126.5	127.0	127.5	128.0	128.5	129.0	129.5	130.0
0.0	251.39	248.00	244.66	241.18	237.90	234.61	231.23	227.86	224.84
30.0	193.19	190.89	188.31	185.90	183.23	180.45	177.68	175.03	172.57
60.0	79.54	78.14	76.62	75.12	73.59	72.06	70.64	69.44	68.38
90.0	5.64	5.70	5.77	5.83	5.90	5.95	6.02	6.07	6.13
120.0	79.54	78.14	76.62	75.12	73.59	72.06	70.64	69.44	68.38
150.0	193.19	190.89	188.31	185.90	183.23	180.45	177.68	175.03	172.57
180.0	251.39	248.00	244.66	241.18	237.90	234.61	231.23	227.86	224.84
210.0	193.19	190.89	188.31	185.90	183.23	180.45	177.68	175.03	172.57
240.0	79.54	78.14	76.62	75.12	73.59	72.06	70.64	69.44	68.38
270.0	5.64	5.70	5.77	5.83	5.90	5.95	6.02	6.07	6.13
300.0	79.54	78.14	76.62	75.12	73.59	72.06	70.64	69.44	68.38
330.0	193.19	190.89	188.31	185.90	183.23	180.45	177.68	175.03	172.57
360.0	251.39	248.00	244.66	241.18	237.90	234.61	231.23	227.86	224.84
C/γ(°)	130.5	131.0	131.5	132.0	132.5	133.0	133.5	134.0	134.5
0.0	221.55	218.39	215.21	211.79	208.61	205.53	202.37	198.99	195.30
30.0	170.34	168.00	165.45	163.14	160.92	158.52	156.30	153.99	151.75
60.0	67.52	66.73	65.98	65.29	64.58	63.75	62.83	61.92	60.91
90.0	6.20	6.24	6.31	6.35	6.41	6.48	6.52	6.59	6.64
120.0	67.52	66.73	65.98	65.29	64.58	63.75	62.83	61.92	60.91
150.0	170.34	168.00	165.45	163.14	160.92	158.52	156.30	153.99	151.75
180.0	221.55	218.39	215.21	211.79	208.61	205.53	202.37	198.99	195.30
210.0	170.34	168.00	165.45	163.14	160.92	158.52	156.30	153.99	151.75
240.0	67.52	66.73	65.98	65.29	64.58	63.75	62.83	61.92	60.91
270.0	6.20	6.24	6.31	6.35	6.41	6.48	6.52	6.59	6.64
300.0	67.52	66.73	65.98	65.29	64.58	63.75	62.83	61.92	60.91
330.0	170.34	168.00	165.45	163.14	160.92	158.52	156.30	153.99	151.75
360.0	221.55	218.39	215.21	211.79	208.61	205.53	202.37	198.99	195.30
C/γ(°)	135.0	135.5	136.0	136.5	137.0	137.5	138.0	138.5	139.0
0.0	191.66	188.14	184.55	181.18	178.02	174.83	171.82	168.99	166.16
30.0	149.43	147.08	144.92	142.75	140.42	137.50	133.99	130.66	128.03
60.0	59.90	58.83	57.92	57.02	56.09	55.22	54.36	53.56	52.77
90.0	6.69	6.75	6.80	6.85	6.89	6.94	7.00	7.05	7.09
120.0	59.90	58.83	57.92	57.02	56.09	55.22	54.36	53.56	52.77
150.0	149.43	147.08	144.92	142.75	140.42	137.50	133.99	130.66	128.03
180.0	191.66	188.14	184.55	181.18	178.02	174.83	171.82	168.99	166.16
210.0	149.43	147.08	144.92	142.75	140.42	137.50	133.99	130.66	128.03
240.0	59.90	58.83	57.92	57.02	56.09	55.22	54.36	53.56	52.77
270.0	6.69	6.75	6.80	6.85	6.89	6.94	7.00	7.05	7.09
300.0	59.90	58.83	57.92	57.02	56.09	55.22	54.36	53.56	52.77
330.0	149.43	147.08	144.92	142.75	140.42	137.50	133.99	130.66	128.03
360.0	191.66	188.14	184.55	181.18	178.02	174.83	171.82	168.99	166.16
C/γ(°)	139.5	140.0	140.5	141.0	141.5	142.0	142.5	143.0	143.5
0.0	163.26	160.47	157.61	154.81	152.03	148.85	145.91	143.35	140.90
30.0	126.29	124.25	121.59	118.37	115.68	113.35	110.85	107.99	105.09
60.0	51.89	51.10	50.25	49.43	48.62	47.80	46.95	46.12	45.31
90.0	7.14	7.18	7.26	7.28	7.33	7.40	7.53	7.63	7.69
120.0	51.89	51.10	50.25	49.43	48.62	47.80	46.95	46.12	45.31
150.0	126.29	124.25	121.59	118.37	115.68	113.35	110.85	107.99	105.09
180.0	163.26	160.47	157.61	154.81	152.03	148.85	145.91	143.35	140.90
210.0	126.29	124.25	121.59	118.37	115.68	113.35	110.85	107.99	105.09
240.0	51.89	51.10	50.25	49.43	48.62	47.80	46.95	46.12	45.31
270.0	7.14	7.18	7.26	7.28	7.33	7.40	7.53	7.63	7.69
300.0	51.89	51.10	50.25	49.43	48.62	47.80	46.95	46.12	45.31
330.0	126.29	124.25	121.59	118.37	115.68	113.35	110.85	107.99	105.09
360.0	163.26	160.47	157.61	154.81	152.03	148.85	145.91	143.35	140.90

C/ γ (°)	144.0	144.5	145.0	145.5	146.0	146.5	147.0	147.5	148.0
0.0	138.34	135.70	133.00	130.42	127.92	125.41	122.77	119.93	116.76
30.0	102.29	99.80	97.25	94.62	92.04	89.52	87.17	85.05	83.26
60.0	44.52	43.70	42.84	42.06	41.30	40.53	39.79	39.16	38.64
90.0	7.75	7.82	7.88	7.95	8.01	8.08	8.13	8.20	8.27
120.0	44.52	43.70	42.84	42.06	41.30	40.53	39.79	39.16	38.64
150.0	102.29	99.80	97.25	94.62	92.04	89.52	87.17	85.05	83.26
180.0	138.34	135.70	133.00	130.42	127.92	125.41	122.77	119.93	116.76
210.0	102.29	99.80	97.25	94.62	92.04	89.52	87.17	85.05	83.26
240.0	44.52	43.70	42.84	42.06	41.30	40.53	39.79	39.16	38.64
270.0	7.75	7.82	7.88	7.95	8.01	8.08	8.13	8.20	8.27
300.0	44.52	43.70	42.84	42.06	41.30	40.53	39.79	39.16	38.64
330.0	102.29	99.80	97.25	94.62	92.04	89.52	87.17	85.05	83.26
360.0	138.34	135.70	133.00	130.42	127.92	125.41	122.77	119.93	116.76
C/ γ (°)	148.5	149.0	149.5	150.0	150.5	151.0	151.5	152.0	152.5
0.0	113.69	110.80	108.00	105.41	103.46	101.61	99.70	97.49	95.37
30.0	81.27	79.02	77.20	75.45	73.67	71.86	70.07	68.32	66.78
60.0	38.05	37.52	36.97	36.43	35.85	35.28	34.76	34.17	33.64
90.0	8.35	8.39	8.46	8.53	8.60	8.64	8.69	8.77	8.82
120.0	38.05	37.52	36.97	36.43	35.85	35.28	34.76	34.17	33.64
150.0	81.27	79.02	77.20	75.45	73.67	71.86	70.07	68.32	66.78
180.0	113.69	110.80	108.00	105.41	103.46	101.61	99.70	97.49	95.37
210.0	81.27	79.02	77.20	75.45	73.67	71.86	70.07	68.32	66.78
240.0	38.05	37.52	36.97	36.43	35.85	35.28	34.76	34.17	33.64
270.0	8.35	8.39	8.46	8.53	8.60	8.64	8.69	8.77	8.82
300.0	38.05	37.52	36.97	36.43	35.85	35.28	34.76	34.17	33.64
330.0	81.27	79.02	77.20	75.45	73.67	71.86	70.07	68.32	66.78
360.0	113.69	110.80	108.00	105.41	103.46	101.61	99.70	97.49	95.37
C/ γ (°)	153.0	153.5	154.0	154.5	155.0	155.5	156.0	156.5	157.0
0.0	93.39	91.29	88.90	86.54	84.38	82.59	80.88	79.16	77.26
30.0	65.30	63.78	62.36	60.91	59.57	58.39	57.23	56.03	54.65
60.0	33.13	32.63	32.18	31.72	31.25	30.79	30.34	29.90	29.40
90.0	8.91	8.93	9.01	9.08	9.14	9.19	9.25	9.31	9.38
120.0	33.13	32.63	32.18	31.72	31.25	30.79	30.34	29.90	29.40
150.0	65.30	63.78	62.36	60.91	59.57	58.39	57.23	56.03	54.65
180.0	93.39	91.29	88.90	86.54	84.38	82.59	80.88	79.16	77.26
210.0	65.30	63.78	62.36	60.91	59.57	58.39	57.23	56.03	54.65
240.0	33.13	32.63	32.18	31.72	31.25	30.79	30.34	29.90	29.40
270.0	8.91	8.93	9.01	9.08	9.14	9.19	9.25	9.31	9.38
300.0	33.13	32.63	32.18	31.72	31.25	30.79	30.34	29.90	29.40
330.0	65.30	63.78	62.36	60.91	59.57	58.39	57.23	56.03	54.65
360.0	93.39	91.29	88.90	86.54	84.38	82.59	80.88	79.16	77.26
C/ γ (°)	157.5	158.0	158.5	159.0	159.5	160.0	160.5	161.0	161.5
0.0	75.25	73.32	71.25	69.24	67.31	65.35	63.26	61.38	59.53
30.0	53.22	51.79	50.41	48.99	47.50	46.10	44.69	43.34	41.99
60.0	28.89	28.35	27.80	27.23	26.65	26.11	25.57	25.04	24.53
90.0	9.45	9.48	9.55	9.60	9.66	9.71	9.75	9.82	9.88
120.0	28.89	28.35	27.80	27.23	26.65	26.11	25.57	25.04	24.53
150.0	53.22	51.79	50.41	48.99	47.50	46.10	44.69	43.34	41.99
180.0	75.25	73.32	71.25	69.24	67.31	65.35	63.26	61.38	59.53
210.0	53.22	51.79	50.41	48.99	47.50	46.10	44.69	43.34	41.99
240.0	28.89	28.35	27.80	27.23	26.65	26.11	25.57	25.04	24.53
270.0	9.45	9.48	9.55	9.60	9.66	9.71	9.75	9.82	9.88
300.0	28.89	28.35	27.80	27.23	26.65	26.11	25.57	25.04	24.53
330.0	53.22	51.79	50.41	48.99	47.50	46.10	44.69	43.34	41.99
360.0	75.25	73.32	71.25	69.24	67.31	65.35	63.26	61.38	59.53

C/γ(°)	162.0	162.5	163.0	163.5	164.0	164.5	165.0	165.5	166.0
0.0	57.74	55.92	54.09	52.24	50.37	48.50	46.61	44.52	42.14
30.0	40.63	39.31	37.80	36.30	35.09	33.89	32.79	31.87	30.97
60.0	24.02	23.51	23.01	22.53	22.02	21.55	21.05	20.59	20.15
90.0	9.94	9.98	10.04	10.09	10.16	10.21	10.26	10.30	10.35
120.0	24.02	23.51	23.01	22.53	22.02	21.55	21.05	20.59	20.15
150.0	40.63	39.31	37.80	36.30	35.09	33.89	32.79	31.87	30.97
180.0	57.74	55.92	54.09	52.24	50.37	48.50	46.61	44.52	42.14
210.0	40.63	39.31	37.80	36.30	35.09	33.89	32.79	31.87	30.97
240.0	24.02	23.51	23.01	22.53	22.02	21.55	21.05	20.59	20.15
270.0	9.94	9.98	10.04	10.09	10.16	10.21	10.26	10.30	10.35
300.0	24.02	23.51	23.01	22.53	22.02	21.55	21.05	20.59	20.15
330.0	40.63	39.31	37.80	36.30	35.09	33.89	32.79	31.87	30.97
360.0	57.74	55.92	54.09	52.24	50.37	48.50	46.61	44.52	42.14
C/γ(°)	166.5	167.0	167.5	168.0	168.5	169.0	169.5	170.0	170.5
0.0	39.97	38.26	36.94	35.19	33.25	31.39	29.70	28.03	26.72
30.0	30.11	29.26	28.48	27.68	26.75	25.78	24.82	23.83	22.89
60.0	19.68	19.24	18.79	18.33	17.88	17.44	16.99	16.56	16.11
90.0	10.40	10.46	10.51	10.54	10.58	10.61	10.66	10.70	10.72
120.0	19.68	19.24	18.79	18.33	17.88	17.44	16.99	16.56	16.11
150.0	30.11	29.26	28.48	27.68	26.75	25.78	24.82	23.83	22.89
180.0	39.97	38.26	36.94	35.19	33.25	31.39	29.70	28.03	26.72
210.0	30.11	29.26	28.48	27.68	26.75	25.78	24.82	23.83	22.89
240.0	19.68	19.24	18.79	18.33	17.88	17.44	16.99	16.56	16.11
270.0	10.40	10.46	10.51	10.54	10.58	10.61	10.66	10.70	10.72
300.0	19.68	19.24	18.79	18.33	17.88	17.44	16.99	16.56	16.11
330.0	30.11	29.26	28.48	27.68	26.75	25.78	24.82	23.83	22.89
360.0	39.97	38.26	36.94	35.19	33.25	31.39	29.70	28.03	26.72
C/γ(°)	171.0	171.5	172.0	172.5	173.0	173.5	174.0	174.5	175.0
0.0	25.81	24.48	22.89	22.01	20.70	19.91	18.93	18.05	17.17
30.0	21.95	21.01	20.09	19.20	18.35	17.54	16.72	15.94	15.18
60.0	15.66	15.24	14.83	14.48	14.17	13.83	13.49	13.20	12.89
90.0	10.74	10.77	10.79	10.81	10.83	10.84	10.86	10.89	10.89
120.0	15.66	15.24	14.83	14.48	14.17	13.83	13.49	13.20	12.89
150.0	21.95	21.01	20.09	19.20	18.35	17.54	16.72	15.94	15.18
180.0	25.81	24.48	22.89	22.01	20.70	19.91	18.93	18.05	17.17
210.0	21.95	21.01	20.09	19.20	18.35	17.54	16.72	15.94	15.18
240.0	15.66	15.24	14.83	14.48	14.17	13.83	13.49	13.20	12.89
270.0	10.74	10.77	10.79	10.81	10.83	10.84	10.86	10.89	10.89
300.0	15.66	15.24	14.83	14.48	14.17	13.83	13.49	13.20	12.89
330.0	21.95	21.01	20.09	19.20	18.35	17.54	16.72	15.94	15.18
360.0	25.81	24.48	22.89	22.01	20.70	19.91	18.93	18.05	17.17
C/γ(°)	175.5	176.0	176.5	177.0	177.5	178.0	178.5	179.0	179.5
0.0	15.91	13.02	11.73	11.21	10.45	10.00	9.74	9.55	9.42
30.0	14.47	13.86	13.29	12.73	12.22	11.79	11.44	11.17	10.98
60.0	12.61	12.35	12.09	11.86	11.65	11.47	11.33	11.21	11.11
90.0	10.90	10.91	10.92	10.94	10.95	10.97	10.97	10.97	10.98
120.0	12.61	12.35	12.09	11.86	11.65	11.47	11.33	11.21	11.11
150.0	14.47	13.86	13.29	12.73	12.22	11.79	11.44	11.17	10.98
180.0	15.91	13.02	11.73	11.21	10.45	10.00	9.74	9.55	9.42
210.0	14.47	13.86	13.29	12.73	12.22	11.79	11.44	11.17	10.98
240.0	12.61	12.35	12.09	11.86	11.65	11.47	11.33	11.21	11.11
270.0	10.90	10.91	10.92	10.94	10.95	10.97	10.97	10.97	10.98
300.0	12.61	12.35	12.09	11.86	11.65	11.47	11.33	11.21	11.11
330.0	14.47	13.86	13.29	12.73	12.22	11.79	11.44	11.17	10.98
360.0	15.91	13.02	11.73	11.21	10.45	10.00	9.74	9.55	9.42

Intensity data(cd)

Appendix Page: 31 Total:31

C/γ(°)	180.0
0.0	10.99
30.0	10.99
60.0	10.99
90.0	10.99
120.0	10.99
150.0	10.99
180.0	10.99
210.0	10.99
240.0	10.99
270.0	10.99
300.0	10.99
330.0	10.99
360.0	10.99