

Report No	:		Voltage	:	V
Test No	:	A2502415A003	Current	:	A
LumCAT	:	0028920255 Tri-proof 40W 4000K 6440lm	Power	:	40.000 W
Luminaire	:	LIT by CARDI	PF	:	
LampCAT	:		Ballast type	:	
Lamp flux	:	6440.0 lm	Width	:	60 mm
Number of Lamps	:	1	Length	:	1465 mm
Phm Type	:	C	Height	:	25 mm

Photometric Results

Lumens(lm)	:	6440.00	Central intensity(cd)	:	1710.089
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	1722.244
Luminous Efficacy(lm/W)	:	161.00	Angle of maximum intensity	:	C=90.0 γ =0.5
Beam Angle(50%Imax)	:	[C0/180]Total=135.2 [C90/270]Total=109.8			
Field angle(10%Imax)	:	[C0/180]Total=255.4 [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=1.35			
Up flux rate of lamp(%)	:	11.48%			
Down flux rate of lamp(%)	:	88.52%			
Up flux rate of LUM(%)	:	11.48%			
Down flux rate of LUM(%)	:	88.52%			
CIE Type	:	Semidirect lighting			
Output flux ratio in π solid angle :	:	62.711%			

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	1710.089	0.000	0	0.00%	0.00%
0.5	1709.474	0.409	0.409	0.01%	0.01%
1.0	1709.773	1.227	1.636	0.02%	0.03%
1.5	1709.973	2.045	3.681	0.03%	0.06%
2.0	1708.047	2.862	6.543	0.04%	0.10%
2.5	1707.781	3.677	10.22	0.06%	0.16%
3.0	1707.266	4.492	14.711	0.07%	0.23%
3.5	1705.622	5.305	20.016	0.08%	0.31%
4.0	1705.025	6.115	26.131	0.09%	0.41%
4.5	1703.846	6.926	33.057	0.11%	0.51%
5.0	1702.484	7.733	40.791	0.12%	0.63%
5.5	1701.072	8.538	49.329	0.13%	0.77%
6.0	1699.594	9.341	58.669	0.15%	0.91%
6.5	1697.651	10.140	68.809	0.16%	1.07%
7.0	1695.875	10.935	79.744	0.17%	1.24%
7.5	1694.264	11.729	91.473	0.18%	1.42%
8.0	1691.408	12.517	103.99	0.19%	1.61%
8.5	1689.548	13.300	117.29	0.21%	1.82%
9.0	1687.306	14.083	131.374	0.22%	2.04%
9.5	1685.114	14.862	146.235	0.23%	2.27%
10.0	1681.710	15.631	161.867	0.24%	2.51%
10.5	1680.498	16.402	178.269	0.25%	2.77%
11.0	1677.227	17.170	195.439	0.27%	3.03%
11.5	1672.926	17.918	213.357	0.28%	3.31%
12.0	1671.149	18.670	232.027	0.29%	3.60%
12.5	1667.845	19.423	251.45	0.30%	3.90%
13.0	1664.590	20.163	271.613	0.31%	4.22%
13.5	1660.771	20.895	292.508	0.32%	4.54%
14.0	1657.002	21.620	314.128	0.34%	4.88%
14.5	1653.431	22.340	336.468	0.35%	5.22%
15.0	1649.579	23.055	359.523	0.36%	5.58%
15.5	1645.743	23.763	383.286	0.37%	5.95%
16.0	1641.210	24.460	407.747	0.38%	6.33%
16.5	1636.959	25.149	432.896	0.39%	6.72%
17.0	1633.040	25.836	458.732	0.40%	7.12%
17.5	1627.809	26.510	485.242	0.41%	7.53%
18.0	1623.309	27.173	512.415	0.42%	7.96%
18.5	1618.577	27.833	540.248	0.43%	8.39%

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	1613.861	28.486	568.734	0.44%	8.83%
19.5	1609.195	29.132	597.866	0.45%	9.28%
20.0	1604.429	29.771	627.637	0.46%	9.75%
20.5	1598.135	30.389	658.026	0.47%	10.22%
21.0	1592.656	30.992	689.019	0.48%	10.70%
21.5	1587.574	31.600	720.619	0.49%	11.19%
22.0	1582.161	32.201	752.82	0.50%	11.69%
22.5	1576.067	32.785	785.605	0.51%	12.20%
23.0	1570.421	33.359	818.964	0.52%	12.72%
23.5	1564.294	33.924	852.888	0.53%	13.24%
24.0	1558.963	34.485	887.373	0.54%	13.78%
24.5	1552.188	35.032	922.405	0.54%	14.32%
25.0	1544.866	35.547	957.952	0.55%	14.88%
25.5	1538.788	36.062	994.014	0.56%	15.44%
26.0	1531.681	36.571	1030.585	0.57%	16.00%
26.5	1525.255	37.067	1067.652	0.58%	16.58%
27.0	1519.127	37.567	1105.219	0.58%	17.16%
27.5	1511.572	38.044	1143.263	0.59%	17.75%
28.0	1504.631	38.502	1181.765	0.60%	18.35%
28.5	1497.690	38.959	1220.724	0.60%	18.96%
29.0	1490.981	39.410	1260.134	0.61%	19.57%
29.5	1483.409	39.844	1299.978	0.62%	20.19%
30.0	1476.102	40.261	1340.24	0.63%	20.81%
30.5	1467.567	40.656	1380.895	0.63%	21.44%
31.0	1460.842	41.049	1421.944	0.64%	22.08%
31.5	1453.154	41.444	1463.388	0.64%	22.72%
32.0	1445.117	41.812	1505.199	0.65%	23.37%
32.5	1436.847	42.161	1547.36	0.65%	24.03%
33.0	1430.122	42.520	1589.881	0.66%	24.69%
33.5	1421.305	42.862	1632.743	0.67%	25.35%
34.0	1412.836	43.167	1675.91	0.67%	26.02%
34.5	1405.181	43.481	1719.391	0.68%	26.70%
35.0	1395.799	43.770	1763.161	0.68%	27.38%
35.5	1387.197	44.035	1807.196	0.68%	28.06%
36.0	1378.878	44.306	1851.501	0.69%	28.75%
36.5	1370.027	44.563	1896.064	0.69%	29.44%
37.0	1361.177	44.801	1940.865	0.70%	30.14%
37.5	1352.575	45.033	1985.898	0.70%	30.84%

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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	1343.658	45.254	2031.152	0.70%	31.54%
38.5	1334.508	45.456	2076.608	0.71%	32.25%
39.0	1325.459	45.645	2122.253	0.71%	32.95%
39.5	1316.940	45.835	2168.088	0.71%	33.67%
40.0	1306.678	45.993	2214.081	0.71%	34.38%
40.5	1297.113	46.123	2260.204	0.72%	35.10%
41.0	1288.130	46.265	2306.469	0.72%	35.81%
41.5	1278.781	46.400	2352.869	0.72%	36.54%
42.0	1269.515	46.520	2399.389	0.72%	37.26%
42.5	1259.402	46.616	2446.006	0.72%	37.98%
43.0	1249.788	46.695	2492.701	0.73%	38.71%
43.5	1239.758	46.765	2539.466	0.73%	39.43%
44.0	1230.060	46.823	2586.289	0.73%	40.16%
44.5	1220.164	46.873	2633.162	0.73%	40.89%
45.0	1210.051	46.905	2680.068	0.73%	41.62%
45.5	1199.623	46.917	2726.984	0.73%	42.34%
46.0	1189.593	46.919	2773.903	0.73%	43.07%
46.5	1179.215	46.912	2820.815	0.73%	43.80%
47.0	1168.670	46.884	2867.699	0.73%	44.53%
47.5	1158.508	46.850	2914.549	0.73%	45.26%
48.0	1148.478	46.817	2961.366	0.73%	45.98%
48.5	1137.220	46.751	3008.117	0.73%	46.71%
49.0	1126.958	46.669	3054.786	0.72%	47.43%
49.5	1116.712	46.599	3101.385	0.72%	48.16%
50.0	1106.458	46.518	3147.903	0.72%	48.88%
50.5	1094.899	46.401	3194.304	0.72%	49.60%
51.0	1084.241	46.264	3240.568	0.72%	50.32%
51.5	1073.429	46.133	3286.701	0.72%	51.04%
52.0	1062.555	45.987	3332.688	0.71%	51.75%
52.5	1051.664	45.830	3378.518	0.71%	52.46%
53.0	1041.221	45.673	3424.191	0.71%	53.17%
53.5	1029.886	45.495	3469.686	0.71%	53.88%
54.0	1018.460	45.287	3514.973	0.70%	54.58%
54.5	1007.110	45.068	3560.042	0.70%	55.28%
55.0	996.267	44.853	3604.894	0.70%	55.98%
55.5	984.646	44.622	3649.516	0.69%	56.67%
56.0	973.011	44.363	3693.879	0.69%	57.36%
56.5	961.893	44.106	3737.986	0.68%	58.04%

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	950.041	43.835	3781.821	0.68%	58.72%
57.5	938.910	43.554	3825.375	0.68%	59.40%
58.0	927.238	43.269	3868.644	0.67%	60.07%
58.5	915.930	42.969	3911.613	0.67%	60.74%
59.0	904.451	42.666	3954.279	0.66%	61.40%
59.5	892.430	42.336	3996.615	0.66%	62.06%
60.0	880.964	41.998	4038.614	0.65%	62.71%
60.5	868.910	41.651	4080.264	0.65%	63.36%
61.0	857.148	41.287	4121.552	0.64%	64.00%
61.5	845.513	40.925	4162.477	0.64%	64.63%
62.0	833.296	40.543	4203.02	0.63%	65.26%
62.5	821.538	40.150	4243.17	0.62%	65.89%
63.0	809.551	39.754	4282.924	0.62%	66.51%
63.5	797.993	39.355	4322.279	0.61%	67.12%
64.0	786.122	38.951	4361.23	0.60%	67.72%
64.5	773.765	38.518	4399.748	0.60%	68.32%
65.0	761.774	38.075	4437.824	0.59%	68.91%
65.5	749.557	37.628	4475.451	0.58%	69.49%
66.0	737.702	37.176	4512.628	0.58%	70.07%
66.5	725.654	36.721	4549.349	0.57%	70.64%
67.0	713.346	36.247	4585.596	0.56%	71.20%
67.5	701.362	35.767	4621.363	0.56%	71.76%
68.0	689.001	35.279	4656.642	0.55%	72.31%
68.5	677.037	34.784	4691.427	0.54%	72.85%
69.0	664.921	34.289	4725.716	0.53%	73.38%
69.5	653.329	33.796	4759.512	0.52%	73.91%
70.0	641.233	33.297	4792.809	0.52%	74.42%
70.5	628.882	32.773	4825.582	0.51%	74.93%
71.0	616.802	32.242	4857.823	0.50%	75.43%
71.5	605.004	31.719	4889.542	0.49%	75.92%
72.0	593.378	31.202	4920.744	0.48%	76.41%
72.5	580.850	30.660	4951.403	0.48%	76.89%
73.0	569.272	30.113	4981.516	0.47%	77.35%
73.5	557.400	29.578	5011.094	0.46%	77.81%
74.0	545.914	29.039	5040.133	0.45%	78.26%
74.5	534.230	28.501	5068.634	0.44%	78.71%
75.0	522.651	27.955	5096.589	0.43%	79.14%
75.5	511.293	27.412	5124.001	0.43%	79.57%

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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	499.983	26.872	5150.872	0.42%	79.98%
76.5	488.971	26.336	5177.208	0.41%	80.39%
77.0	477.779	25.798	5203.006	0.40%	80.79%
77.5	466.542	25.251	5228.257	0.39%	81.18%
78.0	455.701	24.708	5252.965	0.38%	81.57%
78.5	444.631	24.166	5277.131	0.38%	81.94%
79.0	434.012	23.626	5300.756	0.37%	82.31%
79.5	423.492	23.096	5323.853	0.36%	82.67%
80.0	412.906	22.564	5346.417	0.35%	83.02%
80.5	402.671	22.036	5368.453	0.34%	83.36%
81.0	392.747	21.523	5389.977	0.33%	83.70%
81.5	383.025	21.021	5410.997	0.33%	84.02%
82.0	373.567	20.528	5431.525	0.32%	84.34%
82.5	364.043	20.037	5451.562	0.31%	84.65%
83.0	354.871	19.552	5471.114	0.30%	84.96%
83.5	345.775	19.075	5490.189	0.30%	85.25%
84.0	337.012	18.608	5508.797	0.29%	85.54%
84.5	328.515	18.154	5526.951	0.28%	85.82%
85.0	320.304	17.713	5544.664	0.28%	86.10%
85.5	312.331	17.284	5561.948	0.27%	86.37%
86.0	304.638	16.868	5578.816	0.26%	86.63%
86.5	297.437	16.471	5595.287	0.26%	86.88%
87.0	290.302	16.087	5611.374	0.25%	87.13%
87.5	283.505	15.713	5627.088	0.24%	87.38%
88.0	277.106	15.358	5642.445	0.24%	87.62%
88.5	271.078	15.022	5657.467	0.23%	87.85%
89.0	265.483	14.707	5672.173	0.23%	88.08%
89.5	259.980	14.405	5686.578	0.22%	88.30%
90.0	254.727	14.111	5700.689	0.22%	88.52%
90.5	250.033	13.838	5714.527	0.21%	88.73%
91.0	245.336	13.580	5728.106	0.21%	88.95%
91.5	240.935	13.328	5741.435	0.21%	89.15%
92.0	236.623	13.086	5754.521	0.20%	89.36%
92.5	232.492	12.851	5767.372	0.20%	89.56%
93.0	228.529	12.625	5779.997	0.20%	89.75%
93.5	224.623	12.403	5792.4	0.19%	89.94%
94.0	220.949	12.189	5804.589	0.19%	90.13%
94.5	217.375	11.984	5816.573	0.19%	90.32%

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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	213.964	11.785	5828.358	0.18%	90.50%
95.5	210.746	11.595	5839.953	0.18%	90.68%
96.0	207.466	11.408	5851.361	0.18%	90.86%
96.5	204.427	11.225	5862.586	0.17%	91.03%
97.0	201.513	11.052	5873.638	0.17%	91.21%
97.5	198.608	10.882	5884.519	0.17%	91.37%
98.0	195.886	10.716	5895.236	0.17%	91.54%
98.5	193.213	10.557	5905.793	0.16%	91.70%
99.0	190.656	10.401	5916.194	0.16%	91.87%
99.5	188.026	10.247	5926.441	0.16%	92.03%
100.0	185.628	10.096	5936.537	0.16%	92.18%
100.5	183.250	9.952	5946.489	0.15%	92.34%
101.0	180.994	9.811	5956.299	0.15%	92.49%
101.5	178.824	9.675	5965.974	0.15%	92.64%
102.0	176.597	9.540	5975.514	0.15%	92.79%
102.5	174.527	9.407	5984.921	0.15%	92.93%
103.0	172.456	9.278	5994.199	0.14%	93.08%
103.5	170.410	9.150	6003.349	0.14%	93.22%
104.0	168.451	9.024	6012.373	0.14%	93.36%
104.5	166.469	8.899	6021.272	0.14%	93.50%
105.0	164.589	8.777	6030.049	0.14%	93.63%
105.5	162.688	8.657	6038.706	0.13%	93.77%
106.0	160.800	8.536	6047.241	0.13%	93.90%
106.5	158.937	8.416	6055.657	0.13%	94.03%
107.0	157.022	8.295	6063.951	0.13%	94.16%
107.5	155.103	8.172	6072.124	0.13%	94.29%
108.0	153.255	8.051	6080.175	0.13%	94.41%
108.5	151.373	7.931	6088.106	0.12%	94.54%
109.0	149.545	7.812	6095.918	0.12%	94.66%
109.5	147.683	7.693	6103.611	0.12%	94.78%
110.0	145.894	7.575	6111.186	0.12%	94.89%
110.5	144.219	7.462	6118.648	0.12%	95.01%
111.0	142.568	7.352	6126.001	0.11%	95.12%
111.5	140.951	7.244	6133.245	0.11%	95.24%
112.0	139.365	7.138	6140.383	0.11%	95.35%
112.5	137.630	7.029	6147.412	0.11%	95.46%
113.0	135.900	6.916	6154.327	0.11%	95.56%
113.5	134.168	6.803	6161.13	0.11%	95.67%

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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	132.557	6.693	6167.823	0.10%	95.77%
114.5	131.049	6.589	6174.412	0.10%	95.88%
115.0	129.509	6.487	6180.899	0.10%	95.98%
115.5	127.962	6.384	6187.284	0.10%	96.08%
116.0	126.320	6.279	6193.563	0.10%	96.17%
116.5	124.529	6.168	6199.731	0.10%	96.27%
117.0	122.698	6.052	6205.783	0.09%	96.36%
117.5	121.003	5.940	6211.723	0.09%	96.46%
118.0	119.393	5.833	6217.555	0.09%	96.55%
118.5	117.821	5.729	6223.284	0.09%	96.63%
119.0	116.217	5.625	6228.909	0.09%	96.72%
119.5	114.680	5.523	6234.432	0.09%	96.81%
120.0	113.236	5.425	6239.857	0.08%	96.89%
120.5	111.756	5.328	6245.186	0.08%	96.97%
121.0	110.167	5.229	6250.414	0.08%	97.06%
121.5	108.579	5.127	6255.541	0.08%	97.14%
122.0	107.134	5.029	6260.57	0.08%	97.21%
122.5	105.601	4.932	6265.503	0.08%	97.29%
123.0	104.179	4.837	6270.34	0.08%	97.37%
123.5	102.722	4.744	6275.083	0.07%	97.44%
124.0	101.315	4.651	6279.734	0.07%	97.51%
124.5	99.902	4.560	6284.294	0.07%	97.58%
125.0	98.471	4.469	6288.763	0.07%	97.65%
125.5	97.164	4.380	6293.143	0.07%	97.72%
126.0	95.927	4.296	6297.439	0.07%	97.79%
126.5	94.532	4.211	6301.65	0.07%	97.85%
127.0	93.207	4.124	6305.774	0.06%	97.92%
127.5	91.857	4.039	6309.812	0.06%	97.98%
128.0	90.526	3.954	6313.766	0.06%	98.04%
128.5	89.163	3.869	6317.634	0.06%	98.10%
129.0	87.810	3.784	6321.418	0.06%	98.16%
129.5	86.503	3.701	6325.119	0.06%	98.22%
130.0	85.256	3.620	6328.739	0.06%	98.27%
130.5	84.139	3.544	6332.284	0.06%	98.33%
131.0	83.011	3.472	6335.755	0.05%	98.38%
131.5	81.918	3.400	6339.155	0.05%	98.43%
132.0	80.762	3.327	6342.482	0.05%	98.49%
132.5	79.623	3.255	6345.737	0.05%	98.54%

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	78.454	3.182	6348.919	0.05%	98.59%
133.5	77.261	3.109	6352.029	0.05%	98.63%
134.0	76.033	3.036	6355.065	0.05%	98.68%
134.5	74.782	2.962	6358.026	0.05%	98.73%
135.0	73.498	2.887	6360.913	0.04%	98.77%
135.5	72.235	2.813	6363.726	0.04%	98.82%
136.0	71.061	2.741	6366.467	0.04%	98.86%
136.5	69.857	2.672	6369.139	0.04%	98.90%
137.0	68.695	2.603	6371.742	0.04%	98.94%
137.5	67.420	2.533	6374.275	0.04%	98.98%
138.0	66.069	2.461	6376.735	0.04%	99.02%
138.5	64.750	2.388	6379.123	0.04%	99.05%
139.0	63.493	2.318	6381.442	0.04%	99.09%
139.5	62.444	2.254	6383.695	0.03%	99.13%
140.0	61.401	2.194	6385.889	0.03%	99.16%
140.5	60.306	2.134	6388.023	0.03%	99.19%
141.0	59.104	2.071	6390.094	0.03%	99.23%
141.5	57.883	2.007	6392.101	0.03%	99.26%
142.0	56.784	1.946	6394.048	0.03%	99.29%
142.5	55.675	1.888	6395.935	0.03%	99.32%
143.0	54.558	1.829	6397.764	0.03%	99.34%
143.5	53.327	1.770	6399.534	0.03%	99.37%
144.0	52.201	1.711	6401.245	0.03%	99.40%
144.5	51.127	1.655	6402.9	0.03%	99.42%
145.0	49.989	1.600	6404.5	0.02%	99.45%
145.5	48.868	1.545	6406.044	0.02%	99.47%
146.0	47.818	1.492	6407.536	0.02%	99.50%
146.5	46.797	1.441	6408.977	0.02%	99.52%
147.0	45.744	1.391	6410.368	0.02%	99.54%
147.5	44.717	1.342	6411.71	0.02%	99.56%
148.0	43.770	1.294	6413.005	0.02%	99.58%
148.5	42.813	1.249	6414.254	0.02%	99.60%
149.0	41.854	1.204	6415.458	0.02%	99.62%
149.5	40.970	1.161	6416.619	0.02%	99.64%
150.0	40.193	1.121	6417.74	0.02%	99.65%
150.5	39.414	1.083	6418.823	0.02%	99.67%
151.0	38.574	1.045	6419.867	0.02%	99.69%
151.5	37.782	1.007	6420.874	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	36.997	0.970	6421.845	0.02%	99.72%
152.5	36.254	0.935	6422.78	0.01%	99.73%
153.0	35.560	0.901	6423.681	0.01%	99.75%
153.5	34.860	0.869	6424.55	0.01%	99.76%
154.0	34.152	0.837	6425.387	0.01%	99.77%
154.5	33.417	0.805	6426.192	0.01%	99.79%
155.0	32.775	0.774	6426.966	0.01%	99.80%
155.5	32.178	0.746	6427.711	0.01%	99.81%
156.0	31.581	0.718	6428.429	0.01%	99.82%
156.5	30.969	0.691	6429.12	0.01%	99.83%
157.0	30.278	0.663	6429.783	0.01%	99.84%
157.5	29.604	0.635	6430.418	0.01%	99.85%
158.0	28.915	0.607	6431.025	0.01%	99.86%
158.5	28.210	0.580	6431.605	0.01%	99.87%
159.0	27.517	0.554	6432.159	0.01%	99.88%
159.5	26.794	0.528	6432.687	0.01%	99.89%
160.0	26.074	0.502	6433.188	0.01%	99.89%
160.5	25.286	0.476	6433.664	0.01%	99.90%
161.0	24.488	0.450	6434.114	0.01%	99.91%
161.5	23.728	0.425	6434.539	0.01%	99.92%
162.0	23.071	0.402	6434.941	0.01%	99.92%
162.5	22.431	0.380	6435.321	0.01%	99.93%
163.0	21.756	0.359	6435.68	0.01%	99.93%
163.5	21.081	0.338	6436.019	0.01%	99.94%
164.0	20.463	0.319	6436.337	0.00%	99.94%
164.5	19.849	0.300	6436.637	0.00%	99.95%
165.0	19.255	0.282	6436.919	0.00%	99.95%
165.5	18.701	0.265	6437.184	0.00%	99.96%
166.0	18.161	0.249	6437.433	0.00%	99.96%
166.5	17.648	0.233	6437.666	0.00%	99.96%
167.0	17.130	0.219	6437.885	0.00%	99.97%
167.5	16.672	0.205	6438.089	0.00%	99.97%
168.0	16.174	0.191	6438.281	0.00%	99.97%
168.5	15.661	0.178	6438.458	0.00%	99.98%
169.0	15.139	0.165	6438.623	0.00%	99.98%
169.5	14.657	0.152	6438.775	0.00%	99.98%
170.0	14.196	0.141	6438.916	0.00%	99.98%
170.5	13.736	0.130	6439.046	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

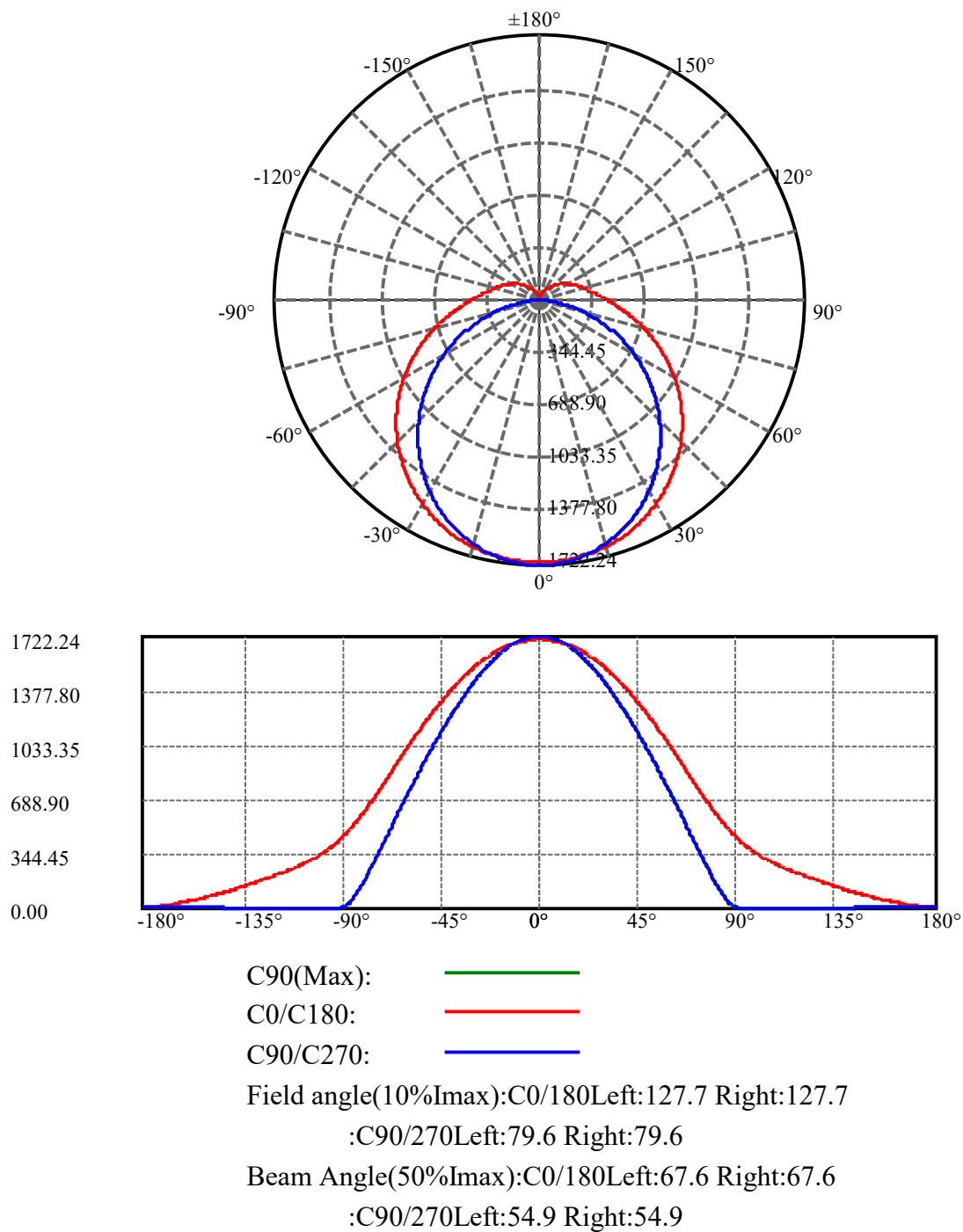
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
171.0	13.299	0.119	6439.165	0.00%	99.99%
171.5	12.833	0.109	6439.274	0.00%	99.99%
172.0	12.330	0.099	6439.373	0.00%	99.99%
172.5	11.943	0.090	6439.463	0.00%	99.99%
173.0	11.522	0.081	6439.544	0.00%	99.99%
173.5	11.129	0.073	6439.617	0.00%	99.99%
174.0	10.733	0.065	6439.682	0.00%	100.00%
174.5	10.354	0.058	6439.74	0.00%	100.00%
175.0	9.985	0.051	6439.791	0.00%	100.00%
175.5	9.597	0.044	6439.835	0.00%	100.00%
176.0	8.927	0.038	6439.873	0.00%	100.00%
176.5	8.633	0.031	6439.905	0.00%	100.00%
177.0	8.374	0.026	6439.931	0.00%	100.00%
177.5	8.106	0.022	6439.953	0.00%	100.00%
178.0	7.920	0.017	6439.97	0.00%	100.00%
178.5	7.774	0.013	6439.983	0.00%	100.00%
179.0	7.651	0.009	6439.992	0.00%	100.00%
179.5	7.565	0.005	6439.998	0.00%	100.00%
180.0	7.728	0.002	6440	0.00%	100.00%

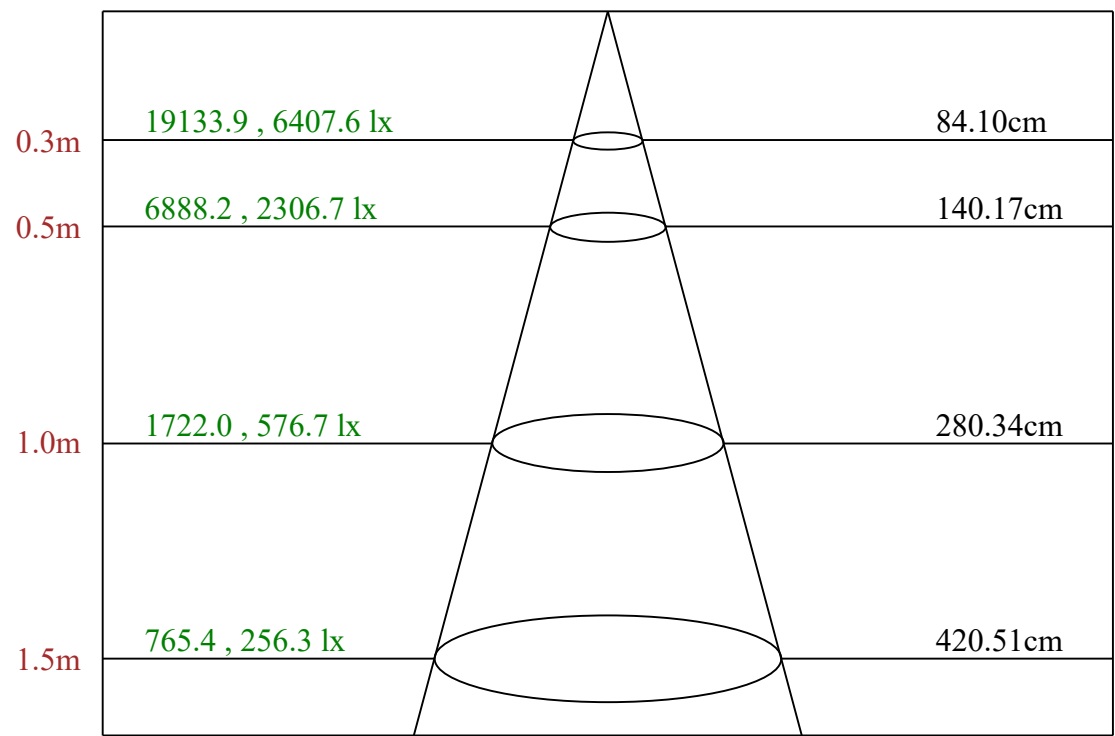
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1340.24	20.81%	20.81%
0-40	2214.08	34.38%	34.38%
0-60	4038.61	62.71%	62.71%
0-90	5700.69	88.52%	88.52%
0-120	6239.86	96.89%	96.89%
0-180	6440.00	100.00%	100.00%
60-90	1662.07	25.81%	25.81%
90-120	539.17	8.37%	8.37%
90-130	628.05	9.75%	9.75%
90-150	717.05	11.13%	11.13%
90-180	739.31	11.48%	11.48%
0-76.02	5152.00	80.00%	80.00%

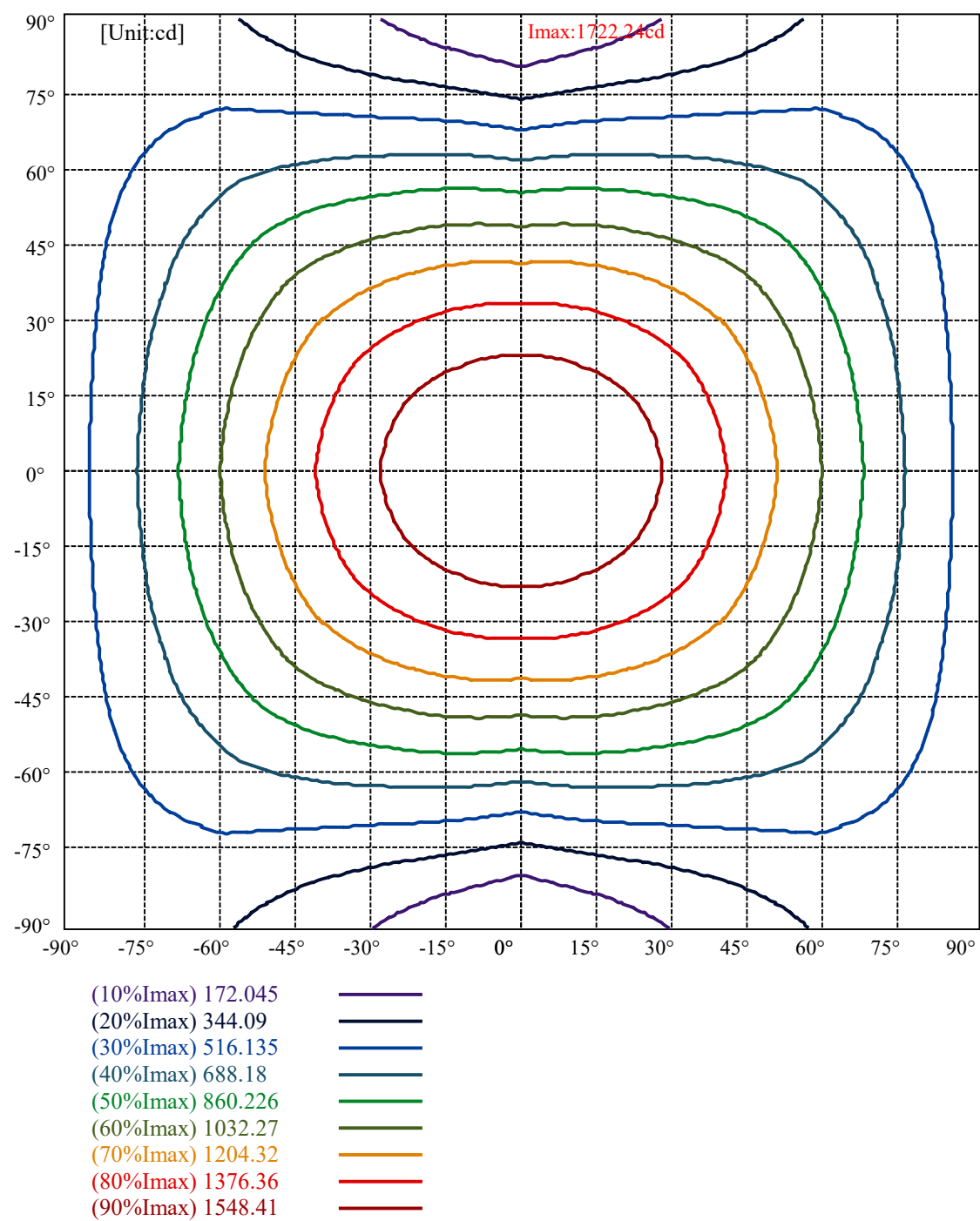
ZONAL LUMEN SUMMARY

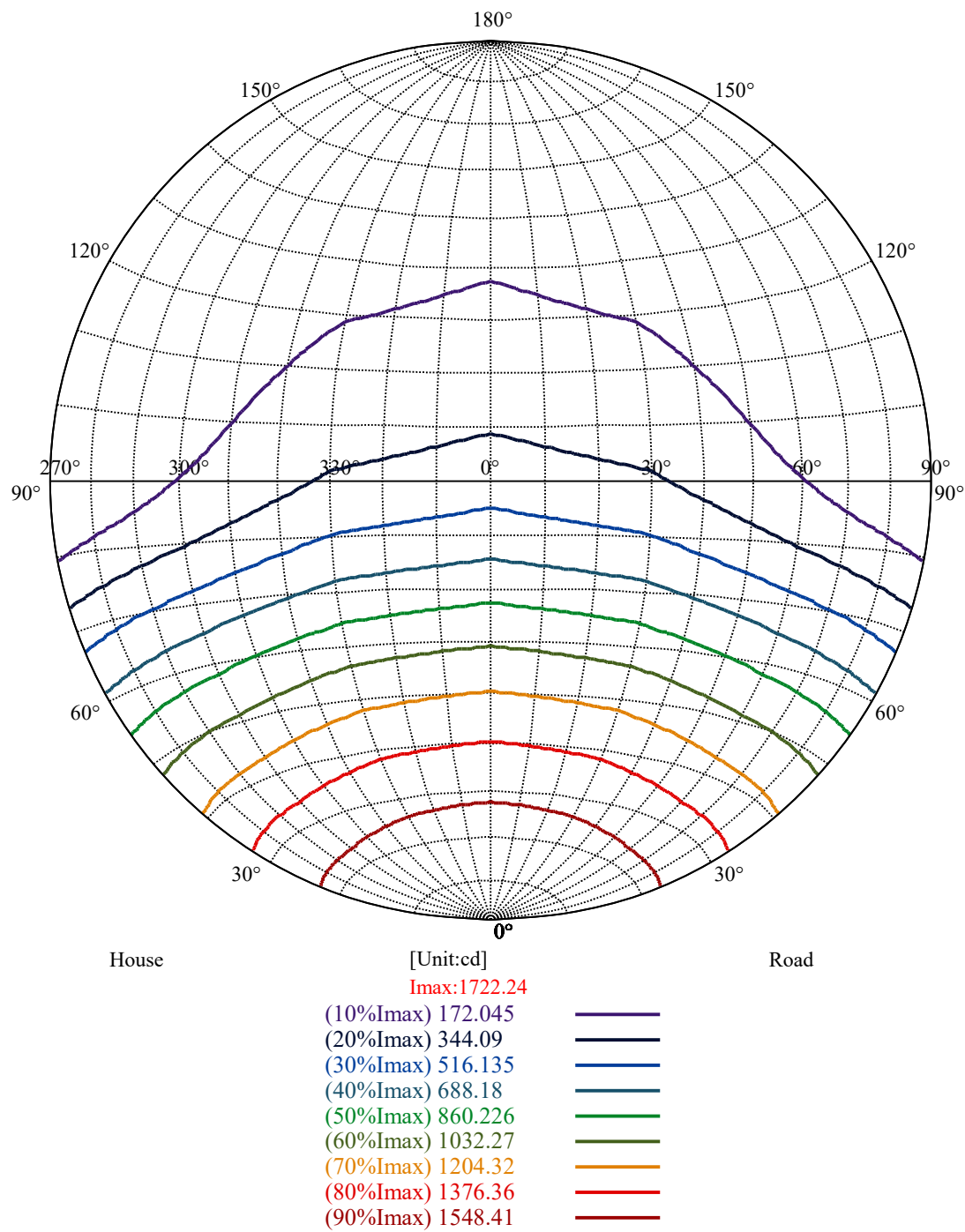
0-10	161.87
10-20	465.77
20-30	712.60
30-40	873.84
40-50	933.82
50-60	890.71
60-70	754.20
70-80	553.61
80-90	354.27
90-100	235.85
100-110	174.65
110-120	128.67
120-130	88.88
130-140	57.15
140-150	31.85
150-160	15.45
160-170	5.73
170-180	1.08

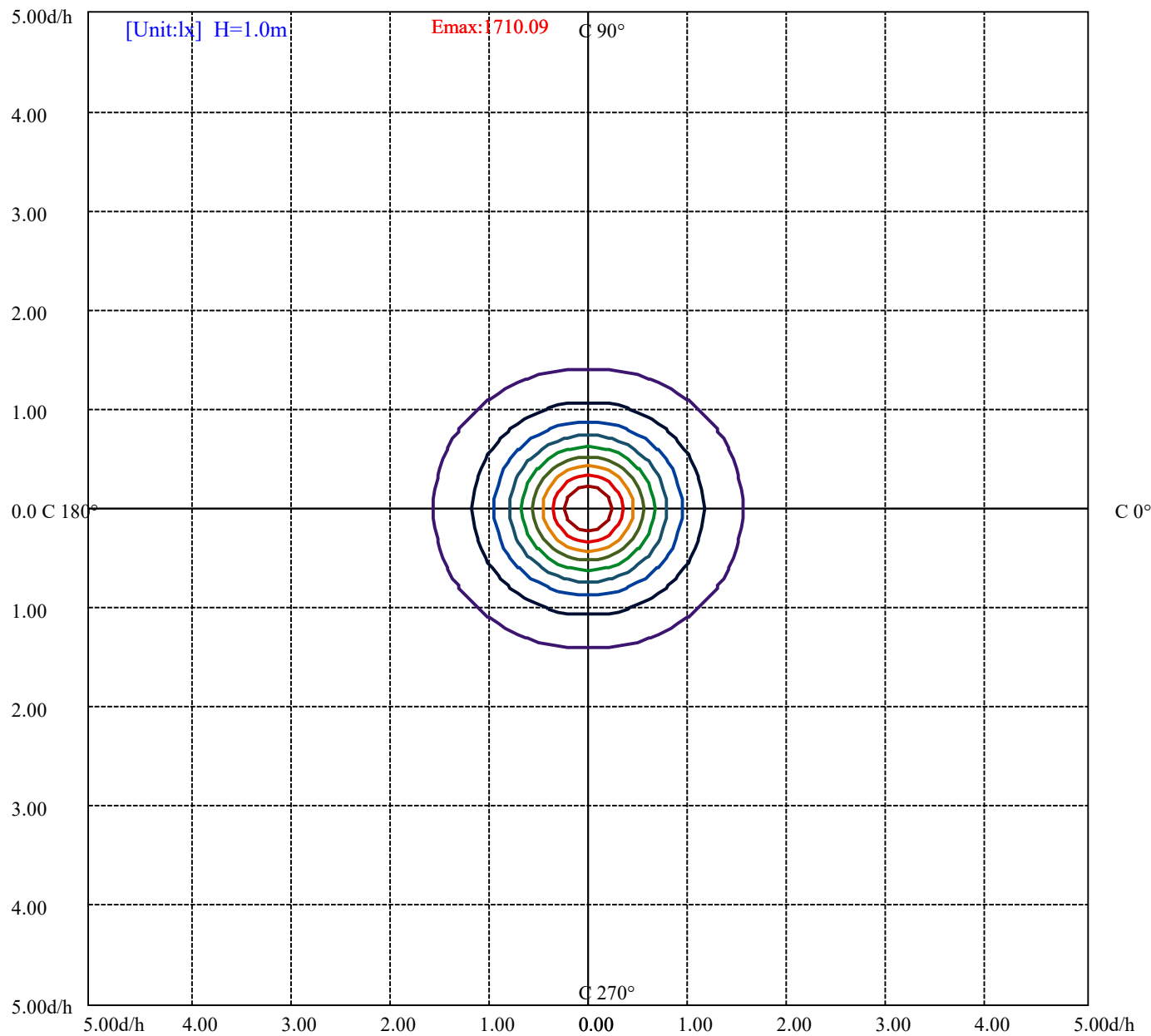




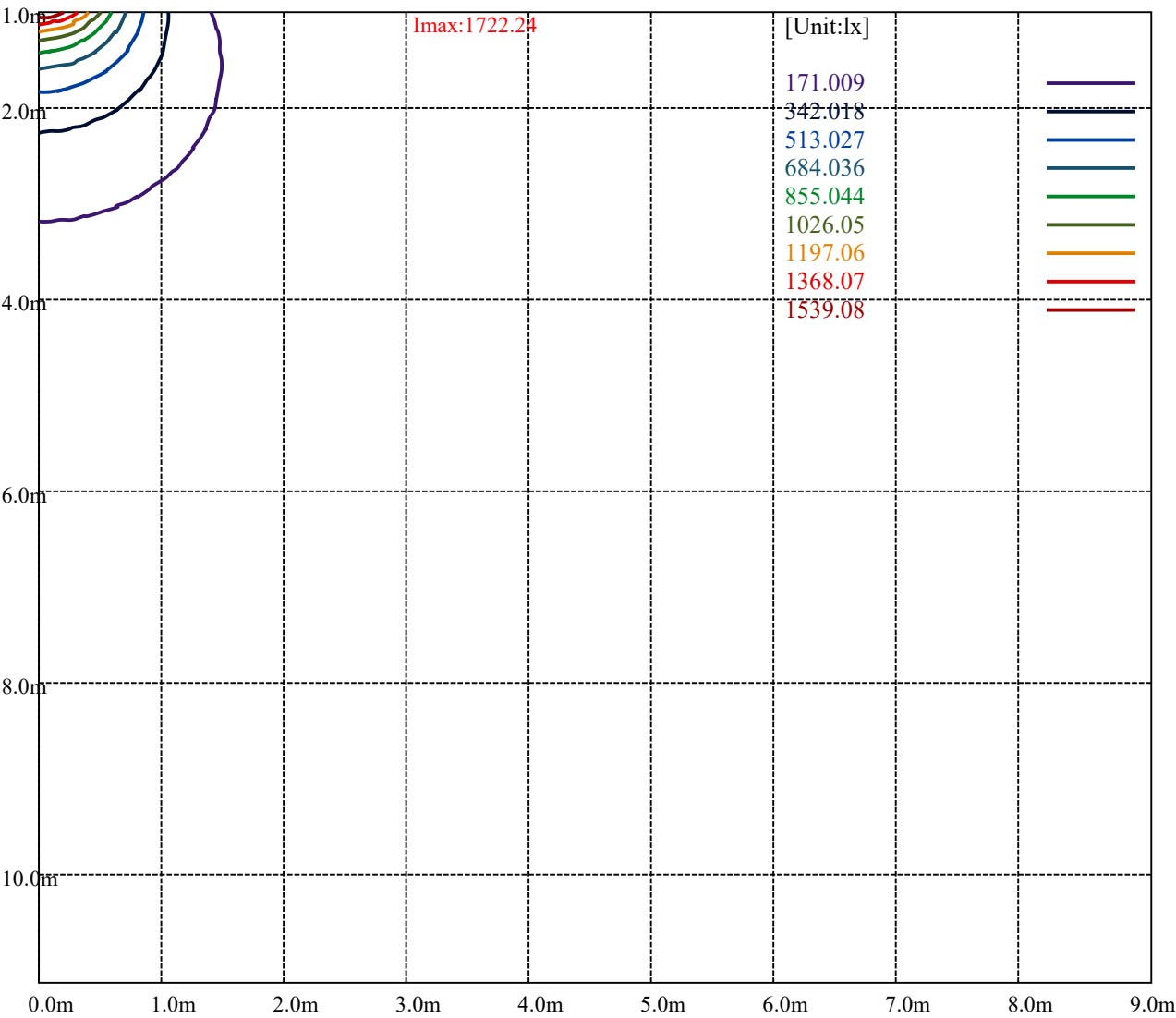
Max , Ave Beam angle of C90 plane 108.99







(10%Emax) 171.009	—
(20%Emax) 342.018	—
(30%Emax) 513.026	—
(40%Emax) 684.035	—
(50%Emax) 855.044	—
(60%Emax) 1026.05	—
(70%Emax) 1197.06	—
(80%Emax) 1368.07	—
(90%Emax) 1539.08	—



Luminance Limiting Curve(no luminous side)

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Luminance Table

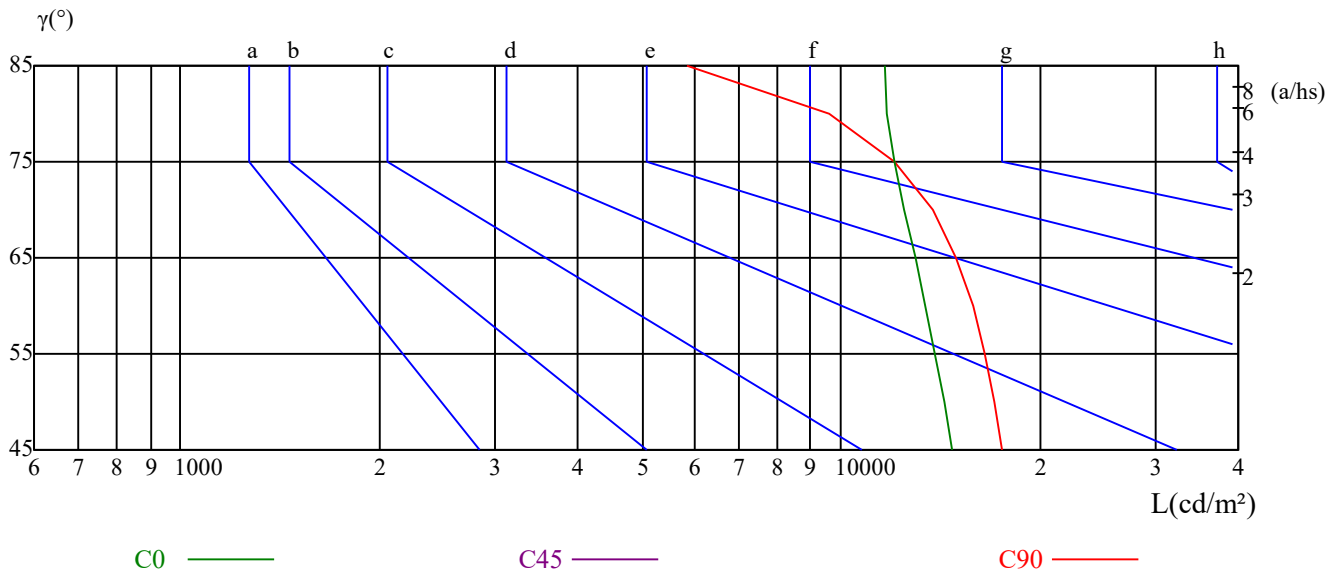
γ	45	50	55	60	65	70	75	80	85
C0	14771	14336	13894	13429	12944	12483	12029	11744	11670
C45	0	0	0	0	0	0	0	0	0
C90	17512	17033	16502	15852	14970	13771	12091	9578	5863

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
24509	15518	0	30735	12861	0	67247	7007	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	20.93	22.39	21.45	22.92	23.51	20.05	21.51	20.58	22.05	22.63
	3H	23.07	24.41	23.62	24.96	25.57	21.70	23.04	22.25	23.59	24.20
	4H	24.05	25.32	24.61	25.88	26.50	22.30	23.57	22.86	24.13	24.75
	6H	25.03	26.21	25.60	26.78	27.44	22.73	23.91	23.30	24.48	25.13
	8H	25.47	26.62	26.05	27.20	27.85	22.82	23.96	23.39	24.54	25.20
	12H	25.90	27.00	26.48	27.59	28.25	22.85	23.95	23.43	24.54	25.20
4H	2H	21.63	22.89	22.18	23.45	24.08	20.96	22.22	21.51	22.78	23.41
	3H	23.95	25.04	24.53	25.63	26.30	22.78	23.88	23.36	24.47	25.13
	4H	25.14	26.13	25.73	26.73	27.42	23.58	24.57	24.18	25.18	25.87
	6H	26.24	27.13	26.86	27.76	28.45	24.12	25.01	24.74	25.64	26.33
	8H	26.80	27.64	27.43	28.27	28.97	24.31	25.14	24.93	25.77	26.48
	12H	27.35	28.13	27.98	28.75	29.49	24.42	25.20	25.05	25.82	26.56
8H	4H	25.45	26.29	26.08	26.92	27.63	24.11	24.95	24.74	25.58	26.29
	6H	26.77	27.48	27.41	28.13	28.86	24.86	25.58	25.51	26.22	26.96
	8H	27.52	28.15	28.18	28.83	29.56	25.22	25.85	25.88	26.53	27.26
	12H	28.22	28.77	28.89	29.45	30.19	25.43	25.98	26.11	26.66	27.40
12H	4H	25.49	26.27	26.12	26.90	27.64	24.24	25.02	24.87	25.65	26.39
	6H	26.90	27.54	27.57	28.21	28.94	25.13	25.76	25.79	26.44	27.17
	8H	27.68	28.22	28.35	28.91	29.65	25.52	26.06	26.19	26.75	27.49
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		9.9					11.8				

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

C/γ(°)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
0.0	1710.09	1702.82	1703.81	1704.81	1704.21	1699.83	1702.52	1701.12	1699.83
30.0	1710.09	1703.51	1704.01	1704.31	1702.22	1702.72	1701.92	1700.92	1700.43
60.0	1710.09	1712.38	1713.28	1712.58	1709.99	1709.99	1708.40	1707.00	1706.30
90.0	1710.09	1722.24	1720.25	1721.25	1719.65	1721.45	1720.45	1716.76	1716.86
120.0	1710.09	1712.38	1713.28	1712.58	1709.99	1709.99	1708.40	1707.00	1706.30
150.0	1710.09	1703.51	1704.01	1704.31	1702.22	1702.72	1701.92	1700.92	1700.43
180.0	1710.09	1702.82	1703.81	1704.81	1704.21	1699.83	1702.52	1701.12	1699.83
210.0	1710.09	1703.51	1704.01	1704.31	1702.22	1702.72	1701.92	1700.92	1700.43
240.0	1710.09	1712.38	1713.28	1712.58	1709.99	1709.99	1708.40	1707.00	1706.30
270.0	1710.09	1722.24	1720.25	1721.25	1719.65	1721.45	1720.45	1716.76	1716.86
300.0	1710.09	1712.38	1713.28	1712.58	1709.99	1709.99	1708.40	1707.00	1706.30
330.0	1710.09	1703.51	1704.01	1704.31	1702.22	1702.72	1701.92	1700.92	1700.43
360.0	1710.09	1702.82	1703.81	1704.81	1704.21	1699.83	1702.52	1701.12	1699.83

C/γ(°)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
0.0	1697.93	1699.03	1698.93	1695.74	1695.14	1693.95	1693.25	1690.76	1689.76
30.0	1698.53	1698.13	1695.54	1695.14	1692.65	1691.86	1690.96	1688.67	1686.18
60.0	1706.10	1703.71	1702.52	1701.62	1699.23	1697.04	1693.65	1691.46	1688.57
90.0	1715.87	1712.18	1711.38	1708.30	1707.00	1703.51	1703.12	1697.44	1698.03
120.0	1706.10	1703.71	1702.52	1701.62	1699.23	1697.04	1693.65	1691.46	1688.57
150.0	1698.53	1698.13	1695.54	1695.14	1692.65	1691.86	1690.96	1688.67	1686.18
180.0	1697.93	1699.03	1698.93	1695.74	1695.14	1693.95	1693.25	1690.76	1689.76
210.0	1698.53	1698.13	1695.54	1695.14	1692.65	1691.86	1690.96	1688.67	1686.18
240.0	1706.10	1703.71	1702.52	1701.62	1699.23	1697.04	1693.65	1691.46	1688.57
270.0	1715.87	1712.18	1711.38	1708.30	1707.00	1703.51	1703.12	1697.44	1698.03
300.0	1706.10	1703.71	1702.52	1701.62	1699.23	1697.04	1693.65	1691.46	1688.57
330.0	1698.53	1698.13	1695.54	1695.14	1692.65	1691.86	1690.96	1688.67	1686.18
360.0	1697.93	1699.03	1698.93	1695.74	1695.14	1693.95	1693.25	1690.76	1689.76

C/γ(°)	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
0.0	1684.78	1684.78	1683.49	1683.29	1681.59	1676.51	1677.21	1674.12	1672.43
30.0	1684.78	1682.59	1680.60	1679.30	1676.61	1673.52	1670.44	1668.64	1664.56
60.0	1687.67	1684.78	1679.90	1678.31	1674.82	1669.84	1668.24	1663.16	1660.77
90.0	1694.15	1691.16	1685.78	1684.48	1678.90	1674.32	1672.33	1669.34	1664.46
120.0	1687.67	1684.78	1679.90	1678.31	1674.82	1669.84	1668.24	1663.16	1660.77
150.0	1684.78	1682.59	1680.60	1679.30	1676.61	1673.52	1670.44	1668.64	1664.56
180.0	1684.78	1684.78	1683.49	1683.29	1681.59	1676.51	1677.21	1674.12	1672.43
210.0	1684.78	1682.59	1680.60	1679.30	1676.61	1673.52	1670.44	1668.64	1664.56
240.0	1687.67	1684.78	1679.90	1678.31	1674.82	1669.84	1668.24	1663.16	1660.77
270.0	1694.15	1691.16	1685.78	1684.48	1678.90	1674.32	1672.33	1669.34	1664.46
300.0	1687.67	1684.78	1679.90	1678.31	1674.82	1669.84	1668.24	1663.16	1660.77
330.0	1684.78	1682.59	1680.60	1679.30	1676.61	1673.52	1670.44	1668.64	1664.56
360.0	1684.78	1684.78	1683.49	1683.29	1681.59	1676.51	1677.21	1674.12	1672.43

C/γ(°)	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5
0.0	1667.35	1666.15	1663.66	1659.08	1657.78	1654.59	1650.81	1646.52	1642.54
30.0	1662.96	1657.98	1656.19	1653.50	1648.82	1646.32	1642.44	1639.15	1633.87
60.0	1656.39	1653.00	1648.02	1643.83	1639.65	1633.47	1629.89	1625.20	1619.52
90.0	1658.58	1653.90	1648.52	1643.73	1639.75	1633.07	1626.30	1623.01	1617.53
120.0	1656.39	1653.00	1648.02	1643.83	1639.65	1633.47	1629.89	1625.20	1619.52
150.0	1662.96	1657.98	1656.19	1653.50	1648.82	1646.32	1642.44	1639.15	1633.87
180.0	1667.35	1666.15	1663.66	1659.08	1657.78	1654.59	1650.81	1646.52	1642.54
210.0	1662.96	1657.98	1656.19	1653.50	1648.82	1646.32	1642.44	1639.15	1633.87
240.0	1656.39	1653.00	1648.02	1643.83	1639.65	1633.47	1629.89	1625.20	1619.52
270.0	1658.58	1653.90	1648.52	1643.73	1639.75	1633.07	1626.30	1623.01	1617.53
300.0	1656.39	1653.00	1648.02	1643.83	1639.65	1633.47	1629.89	1625.20	1619.52
330.0	1662.96	1657.98	1656.19	1653.50	1648.82	1646.32	1642.44	1639.15	1633.87
360.0	1667.35	1666.15	1663.66	1659.08	1657.78	1654.59	1650.81	1646.52	1642.54

C/γ(°)	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0
0.0	1640.35	1636.86	1634.97	1629.89	1625.30	1622.11	1617.73	1614.34	1609.76
30.0	1630.28	1625.30	1620.92	1618.83	1614.84	1608.07	1603.88	1597.90	1593.62
60.0	1613.74	1610.26	1603.08	1597.01	1592.72	1585.65	1579.67	1574.49	1568.81
90.0	1611.45	1603.48	1600.19	1593.62	1586.15	1579.27	1571.10	1566.32	1558.35
120.0	1613.74	1610.26	1603.08	1597.01	1592.72	1585.65	1579.67	1574.49	1568.81
150.0	1630.28	1625.30	1620.92	1618.83	1614.84	1608.07	1603.88	1597.90	1593.62
180.0	1640.35	1636.86	1634.97	1629.89	1625.30	1622.11	1617.73	1614.34	1609.76
210.0	1630.28	1625.30	1620.92	1618.83	1614.84	1608.07	1603.88	1597.90	1593.62
240.0	1613.74	1610.26	1603.08	1597.01	1592.72	1585.65	1579.67	1574.49	1568.81
270.0	1611.45	1603.48	1600.19	1593.62	1586.15	1579.27	1571.10	1566.32	1558.35
300.0	1613.74	1610.26	1603.08	1597.01	1592.72	1585.65	1579.67	1574.49	1568.81
330.0	1630.28	1625.30	1620.92	1618.83	1614.84	1608.07	1603.88	1597.90	1593.62
360.0	1640.35	1636.86	1634.97	1629.89	1625.30	1622.11	1617.73	1614.34	1609.76

C/γ(°)	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5
0.0	1602.69	1599.00	1593.72	1591.13	1584.45	1578.87	1575.19	1568.11	1562.53
30.0	1589.83	1584.05	1578.87	1574.09	1568.11	1561.64	1555.76	1549.48	1544.80
60.0	1561.84	1555.06	1549.18	1542.51	1535.53	1527.76	1520.19	1513.81	1505.84
90.0	1550.38	1545.30	1535.93	1529.46	1521.39	1511.52	1505.64	1495.38	1487.71
120.0	1561.84	1555.06	1549.18	1542.51	1535.53	1527.76	1520.19	1513.81	1505.84
150.0	1589.83	1584.05	1578.87	1574.09	1568.11	1561.64	1555.76	1549.48	1544.80
180.0	1602.69	1599.00	1593.72	1591.13	1584.45	1578.87	1575.19	1568.11	1562.53
210.0	1589.83	1584.05	1578.87	1574.09	1568.11	1561.64	1555.76	1549.48	1544.80
240.0	1561.84	1555.06	1549.18	1542.51	1535.53	1527.76	1520.19	1513.81	1505.84
270.0	1550.38	1545.30	1535.93	1529.46	1521.39	1511.52	1505.64	1495.38	1487.71
300.0	1561.84	1555.06	1549.18	1542.51	1535.53	1527.76	1520.19	1513.81	1505.84
330.0	1589.83	1584.05	1578.87	1574.09	1568.11	1561.64	1555.76	1549.48	1544.80
360.0	1602.69	1599.00	1593.72	1591.13	1584.45	1578.87	1575.19	1568.11	1562.53

C/γ(°)	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0
0.0	1558.95	1552.27	1545.80	1539.92	1536.43	1529.75	1523.88	1516.50	1510.92
30.0	1538.52	1531.05	1525.27	1519.39	1513.32	1507.24	1500.86	1491.99	1486.61
60.0	1499.87	1491.10	1483.92	1476.05	1468.48	1460.31	1452.34	1443.47	1435.70
90.0	1479.04	1472.86	1463.60	1455.33	1445.86	1435.60	1426.34	1417.97	1409.50
120.0	1499.87	1491.10	1483.92	1476.05	1468.48	1460.31	1452.34	1443.47	1435.70
150.0	1538.52	1531.05	1525.27	1519.39	1513.32	1507.24	1500.86	1491.99	1486.61
180.0	1558.95	1552.27	1545.80	1539.92	1536.43	1529.75	1523.88	1516.50	1510.92
210.0	1538.52	1531.05	1525.27	1519.39	1513.32	1507.24	1500.86	1491.99	1486.61
240.0	1499.87	1491.10	1483.92	1476.05	1468.48	1460.31	1452.34	1443.47	1435.70
270.0	1479.04	1472.86	1463.60	1455.33	1445.86	1435.60	1426.34	1417.97	1409.50
300.0	1499.87	1491.10	1483.92	1476.05	1468.48	1460.31	1452.34	1443.47	1435.70
330.0	1538.52	1531.05	1525.27	1519.39	1513.32	1507.24	1500.86	1491.99	1486.61
360.0	1558.95	1552.27	1545.80	1539.92	1536.43	1529.75	1523.88	1516.50	1510.92

C/γ(°)	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5
0.0	1505.74	1497.87	1491.99	1485.42	1479.24	1472.67	1464.70	1458.22	1450.75
30.0	1479.34	1472.47	1464.89	1458.72	1450.25	1443.17	1436.20	1428.43	1419.86
60.0	1427.23	1418.96	1410.00	1402.92	1393.46	1383.79	1376.32	1365.26	1356.89
90.0	1400.03	1389.97	1379.31	1372.04	1361.18	1350.42	1341.35	1329.20	1318.93
120.0	1427.23	1418.96	1410.00	1402.92	1393.46	1383.79	1376.32	1365.26	1356.89
150.0	1479.34	1472.47	1464.89	1458.72	1450.25	1443.17	1436.20	1428.43	1419.86
180.0	1505.74	1497.87	1491.99	1485.42	1479.24	1472.67	1464.70	1458.22	1450.75
210.0	1479.34	1472.47	1464.89	1458.72	1450.25	1443.17	1436.20	1428.43	1419.86
240.0	1427.23	1418.96	1410.00	1402.92	1393.46	1383.79	1376.32	1365.26	1356.89
270.0	1400.03	1389.97	1379.31	1372.04	1361.18	1350.42	1341.35	1329.20	1318.93
300.0	1427.23	1418.96	1410.00	1402.92	1393.46	1383.79	1376.32	1365.26	1356.89
330.0	1479.34	1472.47	1464.89	1458.72	1450.25	1443.17	1436.20	1428.43	1419.86
360.0	1505.74	1497.87	1491.99	1485.42	1479.24	1472.67	1464.70	1458.22	1450.75

Intensity data(cd)

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C/γ(°)	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
0.0	1444.37	1437.40	1429.52	1421.35	1414.48	1406.41	1399.14	1392.56	1382.70
30.0	1412.09	1404.62	1396.35	1388.38	1381.00	1372.34	1363.57	1355.90	1347.53
60.0	1347.53	1337.86	1328.30	1320.03	1309.07	1299.41	1290.64	1281.37	1270.61
90.0	1309.67	1297.81	1288.25	1277.29	1267.32	1257.16	1245.21	1234.54	1221.09
120.0	1347.53	1337.86	1328.30	1320.03	1309.07	1299.41	1290.64	1281.37	1270.61
150.0	1412.09	1404.62	1396.35	1388.38	1381.00	1372.34	1363.57	1355.90	1347.53
180.0	1444.37	1437.40	1429.52	1421.35	1414.48	1406.41	1399.14	1392.56	1382.70
210.0	1412.09	1404.62	1396.35	1388.38	1381.00	1372.34	1363.57	1355.90	1347.53
240.0	1347.53	1337.86	1328.30	1320.03	1309.07	1299.41	1290.64	1281.37	1270.61
270.0	1309.67	1297.81	1288.25	1277.29	1267.32	1257.16	1245.21	1234.54	1221.09
300.0	1347.53	1337.86	1328.30	1320.03	1309.07	1299.41	1290.64	1281.37	1270.61
330.0	1412.09	1404.62	1396.35	1388.38	1381.00	1372.34	1363.57	1355.90	1347.53
360.0	1444.37	1437.40	1429.52	1421.35	1414.48	1406.41	1399.14	1392.56	1382.70

C/γ(°)	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5
0.0	1375.52	1367.85	1359.48	1352.01	1345.24	1334.97	1326.70	1319.23	1309.87
30.0	1338.36	1329.99	1322.12	1313.65	1304.49	1296.52	1286.25	1278.08	1268.22
60.0	1259.25	1250.39	1240.62	1230.16	1218.80	1208.64	1198.68	1187.62	1177.85
90.0	1211.93	1200.17	1187.72	1177.46	1164.60	1153.44	1141.99	1129.73	1118.97
120.0	1259.25	1250.39	1240.62	1230.16	1218.80	1208.64	1198.68	1187.62	1177.85
150.0	1338.36	1329.99	1322.12	1313.65	1304.49	1296.52	1286.25	1278.08	1268.22
180.0	1375.52	1367.85	1359.48	1352.01	1345.24	1334.97	1326.70	1319.23	1309.87
210.0	1338.36	1329.99	1322.12	1313.65	1304.49	1296.52	1286.25	1278.08	1268.22
240.0	1259.25	1250.39	1240.62	1230.16	1218.80	1208.64	1198.68	1187.62	1177.85
270.0	1211.93	1200.17	1187.72	1177.46	1164.60	1153.44	1141.99	1129.73	1118.97
300.0	1259.25	1250.39	1240.62	1230.16	1218.80	1208.64	1198.68	1187.62	1177.85
330.0	1338.36	1329.99	1322.12	1313.65	1304.49	1296.52	1286.25	1278.08	1268.22
360.0	1375.52	1367.85	1359.48	1352.01	1345.24	1334.97	1326.70	1319.23	1309.87

C/γ(°)	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0
0.0	1300.60	1291.63	1284.06	1274.50	1266.03	1257.36	1250.19	1239.63	1230.46
30.0	1259.85	1250.09	1240.42	1230.96	1221.99	1212.03	1202.76	1192.00	1183.43
60.0	1166.50	1155.64	1145.07	1134.12	1121.86	1111.90	1101.34	1089.58	1078.02
90.0	1107.02	1094.66	1082.51	1070.65	1058.29	1045.84	1032.49	1020.53	1008.38
120.0	1166.50	1155.64	1145.07	1134.12	1121.86	1111.90	1101.34	1089.58	1078.02
150.0	1259.85	1250.09	1240.42	1230.96	1221.99	1212.03	1202.76	1192.00	1183.43
180.0	1300.60	1291.63	1284.06	1274.50	1266.03	1257.36	1250.19	1239.63	1230.46
210.0	1259.85	1250.09	1240.42	1230.96	1221.99	1212.03	1202.76	1192.00	1183.43
240.0	1166.50	1155.64	1145.07	1134.12	1121.86	1111.90	1101.34	1089.58	1078.02
270.0	1107.02	1094.66	1082.51	1070.65	1058.29	1045.84	1032.49	1020.53	1008.38
300.0	1166.50	1155.64	1145.07	1134.12	1121.86	1111.90	1101.34	1089.58	1078.02
330.0	1259.85	1250.09	1240.42	1230.96	1221.99	1212.03	1202.76	1192.00	1183.43
360.0	1300.60	1291.63	1284.06	1274.50	1266.03	1257.36	1250.19	1239.63	1230.46

C/γ(°)	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5
0.0	1220.99	1212.23	1202.26	1193.60	1184.23	1174.67	1166.30	1155.83	1147.57
30.0	1173.67	1165.20	1153.05	1143.88	1134.12	1123.55	1114.39	1104.23	1093.86
60.0	1067.76	1057.10	1045.34	1033.59	1022.03	1010.57	998.42	988.34	975.36
90.0	996.42	981.93	970.36	956.92	944.06	932.42	918.08	906.36	893.30
120.0	1067.76	1057.10	1045.34	1033.59	1022.03	1010.57	998.42	988.34	975.36
150.0	1173.67	1165.20	1153.05	1143.88	1134.12	1123.55	1114.39	1104.23	1093.86
180.0	1220.99	1212.23	1202.26	1193.60	1184.23	1174.67	1166.30	1155.83	1147.57
210.0	1173.67	1165.20	1153.05	1143.88	1134.12	1123.55	1114.39	1104.23	1093.86
240.0	1067.76	1057.10	1045.34	1033.59	1022.03	1010.57	998.42	988.34	975.36
270.0	996.42	981.93	970.36	956.92	944.06	932.42	918.08	906.36	893.30
300.0	1067.76	1057.10	1045.34	1033.59	1022.03	1010.57	998.42	988.34	975.36
330.0	1173.67	1165.20	1153.05	1143.88	1134.12	1123.55	1114.39	1104.23	1093.86
360.0	1220.99	1212.23	1202.26	1193.60	1184.23	1174.67	1166.30	1155.83	1147.57

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	1136.71	1127.74	1117.38	1107.41	1097.55	1088.08	1077.23	1067.46	1057.20
30.0	1083.40	1072.94	1063.18	1052.02	1041.36	1031.00	1020.14	1009.97	999.41
60.0	964.03	951.81	940.80	928.62	916.25	904.36	891.55	880.46	867.73
90.0	879.19	865.43	852.28	839.18	825.30	812.56	799.65	785.13	771.95
120.0	964.03	951.81	940.80	928.62	916.25	904.36	891.55	880.46	867.73
150.0	1083.40	1072.94	1063.18	1052.02	1041.36	1031.00	1020.14	1009.97	999.41
180.0	1136.71	1127.74	1117.38	1107.41	1097.55	1088.08	1077.23	1067.46	1057.20
210.0	1083.40	1072.94	1063.18	1052.02	1041.36	1031.00	1020.14	1009.97	999.41
240.0	964.03	951.81	940.80	928.62	916.25	904.36	891.55	880.46	867.73
270.0	879.19	865.43	852.28	839.18	825.30	812.56	799.65	785.13	771.95
300.0	964.03	951.81	940.80	928.62	916.25	904.36	891.55	880.46	867.73
330.0	1083.40	1072.94	1063.18	1052.02	1041.36	1031.00	1020.14	1009.97	999.41
360.0	1136.71	1127.74	1117.38	1107.41	1097.55	1088.08	1077.23	1067.46	1057.20

C/γ(°)	58.5	59.0	59.5	60.0	60.5	61.0	61.5	62.0	62.5
0.0	1047.53	1035.98	1027.31	1016.15	1006.88	995.42	985.42	974.67	963.85
30.0	988.95	978.68	966.67	956.82	945.10	934.61	923.74	912.53	901.64
60.0	855.90	844.67	831.45	819.35	806.55	794.42	783.06	769.77	757.65
90.0	758.34	744.02	731.02	717.30	703.27	689.42	674.05	660.50	646.78
120.0	855.90	844.67	831.45	819.35	806.55	794.42	783.06	769.77	757.65
150.0	988.95	978.68	966.67	956.82	945.10	934.61	923.74	912.53	901.64
180.0	1047.53	1035.98	1027.31	1016.15	1006.88	995.42	985.42	974.67	963.85
210.0	988.95	978.68	966.67	956.82	945.10	934.61	923.74	912.53	901.64
240.0	855.90	844.67	831.45	819.35	806.55	794.42	783.06	769.77	757.65
270.0	758.34	744.02	731.02	717.30	703.27	689.42	674.05	660.50	646.78
300.0	855.90	844.67	831.45	819.35	806.55	794.42	783.06	769.77	757.65
330.0	988.95	978.68	966.67	956.82	945.10	934.61	923.74	912.53	901.64
360.0	1047.53	1035.98	1027.31	1016.15	1006.88	995.42	985.42	974.67	963.85

C/γ(°)	63.0	63.5	64.0	64.5	65.0	65.5	66.0	66.5	67.0
0.0	953.21	943.18	932.54	922.52	910.47	901.27	889.84	878.68	867.95
30.0	890.32	879.69	868.48	856.64	846.37	835.09	824.22	812.83	801.13
60.0	745.48	733.26	720.63	708.07	695.49	682.33	670.09	657.99	645.62
90.0	632.49	618.87	605.98	590.66	576.45	561.23	547.77	533.60	518.63
120.0	745.48	733.26	720.63	708.07	695.49	682.33	670.09	657.99	645.62
150.0	890.32	879.69	868.48	856.64	846.37	835.09	824.22	812.83	801.13
180.0	953.21	943.18	932.54	922.52	910.47	901.27	889.84	878.68	867.95
210.0	890.32	879.69	868.48	856.64	846.37	835.09	824.22	812.83	801.13
240.0	745.48	733.26	720.63	708.07	695.49	682.33	670.09	657.99	645.62
270.0	632.49	618.87	605.98	590.66	576.45	561.23	547.77	533.60	518.63
300.0	745.48	733.26	720.63	708.07	695.49	682.33	670.09	657.99	645.62
330.0	890.32	879.69	868.48	856.64	846.37	835.09	824.22	812.83	801.13
360.0	953.21	943.18	932.54	922.52	910.47	901.27	889.84	878.68	867.95

C/γ(°)	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5
0.0	857.22	847.49	835.52	825.22	814.88	804.91	793.00	782.97	772.44
30.0	790.11	778.78	767.73	756.19	745.21	734.22	723.23	711.46	701.33
60.0	633.47	619.80	607.75	595.25	583.44	570.32	557.52	544.72	531.92
90.0	503.78	489.35	475.75	461.43	447.80	433.42	418.78	405.47	391.09
120.0	633.47	619.80	607.75	595.25	583.44	570.32	557.52	544.72	531.92
150.0	790.11	778.78	767.73	756.19	745.21	734.22	723.23	711.46	701.33
180.0	857.22	847.49	835.52	825.22	814.88	804.91	793.00	782.97	772.44
210.0	790.11	778.78	767.73	756.19	745.21	734.22	723.23	711.46	701.33
240.0	633.47	619.80	607.75	595.25	583.44	570.32	557.52	544.72	531.92
270.0	503.78	489.35	475.75	461.43	447.80	433.42	418.78	405.47	391.09
300.0	633.47	619.80	607.75	595.25	583.44	570.32	557.52	544.72	531.92
330.0	790.11	778.78	767.73	756.19	745.21	734.22	723.23	711.46	701.33
360.0	857.22	847.49	835.52	825.22	814.88	804.91	793.00	782.97	772.44

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	762.85	751.20	741.36	730.52	720.11	709.81	699.23	689.70	679.22
30.0	689.85	678.69	668.07	657.59	647.01	636.10	625.19	614.71	604.22
60.0	519.91	507.14	495.01	482.65	470.65	458.53	446.85	434.86	423.27
90.0	377.90	362.25	348.10	333.39	320.04	306.31	292.59	278.93	265.70
120.0	519.91	507.14	495.01	482.65	470.65	458.53	446.85	434.86	423.27
150.0	689.85	678.69	668.07	657.59	647.01	636.10	625.19	614.71	604.22
180.0	762.85	751.20	741.36	730.52	720.11	709.81	699.23	689.70	679.22
210.0	689.85	678.69	668.07	657.59	647.01	636.10	625.19	614.71	604.22
240.0	519.91	507.14	495.01	482.65	470.65	458.53	446.85	434.86	423.27
270.0	377.90	362.25	348.10	333.39	320.04	306.31	292.59	278.93	265.70
300.0	519.91	507.14	495.01	482.65	470.65	458.53	446.85	434.86	423.27
330.0	689.85	678.69	668.07	657.59	647.01	636.10	625.19	614.71	604.22
360.0	762.85	751.20	741.36	730.52	720.11	709.81	699.23	689.70	679.22

C/γ(°)	76.5	77.0	77.5	78.0	78.5	79.0	79.5	80.0	80.5
0.0	670.87	660.61	649.99	640.83	630.76	621.70	613.06	602.86	594.13
30.0	594.15	584.25	574.00	564.05	553.60	543.73	533.54	523.93	514.03
60.0	411.41	399.72	388.21	376.79	365.58	354.52	343.91	333.19	322.82
90.0	251.83	238.12	224.84	211.71	198.67	185.86	172.99	160.35	148.19
120.0	411.41	399.72	388.21	376.79	365.58	354.52	343.91	333.19	322.82
150.0	594.15	584.25	574.00	564.05	553.60	543.73	533.54	523.93	514.03
180.0	670.87	660.61	649.99	640.83	630.76	621.70	613.06	602.86	594.13
210.0	594.15	584.25	574.00	564.05	553.60	543.73	533.54	523.93	514.03
240.0	411.41	399.72	388.21	376.79	365.58	354.52	343.91	333.19	322.82
270.0	251.83	238.12	224.84	211.71	198.67	185.86	172.99	160.35	148.19
300.0	411.41	399.72	388.21	376.79	365.58	354.52	343.91	333.19	322.82
330.0	594.15	584.25	574.00	564.05	553.60	543.73	533.54	523.93	514.03
360.0	670.87	660.61	649.99	640.83	630.76	621.70	613.06	602.86	594.13

C/γ(°)	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5	85.0
0.0	584.79	575.87	567.26	558.37	549.64	540.55	531.86	523.37	515.18
30.0	505.03	495.85	487.21	477.89	469.23	460.70	452.61	444.19	436.19
60.0	312.65	302.83	293.01	283.68	274.52	265.56	256.57	248.37	240.29
90.0	136.35	124.92	113.70	102.75	92.09	81.59	71.85	62.60	53.68
120.0	312.65	302.83	293.01	283.68	274.52	265.56	256.57	248.37	240.29
150.0	505.03	495.85	487.21	477.89	469.23	460.70	452.61	444.19	436.19
180.0	584.79	575.87	567.26	558.37	549.64	540.55	531.86	523.37	515.18
210.0	505.03	495.85	487.21	477.89	469.23	460.70	452.61	444.19	436.19
240.0	312.65	302.83	293.01	283.68	274.52	265.56	256.57	248.37	240.29
270.0	136.35	124.92	113.70	102.75	92.09	81.59	71.85	62.60	53.68
300.0	312.65	302.83	293.01	283.68	274.52	265.56	256.57	248.37	240.29
330.0	505.03	495.85	487.21	477.89	469.23	460.70	452.61	444.19	436.19
360.0	584.79	575.87	567.26	558.37	549.64	540.55	531.86	523.37	515.18

C/γ(°)	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5
0.0	506.97	498.73	491.55	483.45	475.94	468.82	461.43	454.63	447.70
30.0	428.41	420.60	413.15	405.73	398.34	391.33	384.49	377.98	371.24
60.0	232.50	225.33	218.25	211.45	204.91	198.60	192.92	187.43	182.06
90.0	45.19	37.25	30.30	24.00	18.57	13.97	10.22	7.46	5.58
120.0	232.50	225.33	218.25	211.45	204.91	198.60	192.92	187.43	182.06
150.0	428.41	420.60	413.15	405.73	398.34	391.33	384.49	377.98	371.24
180.0	506.97	498.73	491.55	483.45	475.94	468.82	461.43	454.63	447.70
210.0	428.41	420.60	413.15	405.73	398.34	391.33	384.49	377.98	371.24
240.0	232.50	225.33	218.25	211.45	204.91	198.60	192.92	187.43	182.06
270.0	45.19	37.25	30.30	24.00	18.57	13.97	10.22	7.46	5.58
300.0	232.50	225.33	218.25	211.45	204.91	198.60	192.92	187.43	182.06
330.0	428.41	420.60	413.15	405.73	398.34	391.33	384.49	377.98	371.24
360.0	506.97	498.73	491.55	483.45	475.94	468.82	461.43	454.63	447.70

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	440.66	434.27	427.54	421.23	415.00	409.35	402.82	396.82	391.11
30.0	364.77	358.87	352.48	346.77	341.05	335.25	330.14	324.79	319.76
60.0	176.80	172.04	167.79	163.53	159.49	155.80	152.35	149.05	145.97
90.0	4.55	4.13	3.94	3.79	3.66	3.50	3.37	3.24	3.13
120.0	176.80	172.04	167.79	163.53	159.49	155.80	152.35	149.05	145.97
150.0	364.77	358.87	352.48	346.77	341.05	335.25	330.14	324.79	319.76
180.0	440.66	434.27	427.54	421.23	415.00	409.35	402.82	396.82	391.11
210.0	364.77	358.87	352.48	346.77	341.05	335.25	330.14	324.79	319.76
240.0	176.80	172.04	167.79	163.53	159.49	155.80	152.35	149.05	145.97
270.0	4.55	4.13	3.94	3.79	3.66	3.50	3.37	3.24	3.13
300.0	176.80	172.04	167.79	163.53	159.49	155.80	152.35	149.05	145.97
330.0	364.77	358.87	352.48	346.77	341.05	335.25	330.14	324.79	319.76
360.0	440.66	434.27	427.54	421.23	415.00	409.35	402.82	396.82	391.11
C/γ(°)	94.5	95.0	95.5	96.0	96.5	97.0	97.5	98.0	98.5
0.0	385.77	380.48	375.23	369.64	364.54	360.21	355.20	350.76	346.19
30.0	314.70	309.91	305.41	300.89	296.59	292.20	288.06	284.05	280.22
60.0	143.03	140.28	137.79	135.31	133.09	130.93	128.90	127.00	125.12
90.0	3.02	2.93	2.85	2.76	2.68	2.61	2.53	2.46	2.42
120.0	143.03	140.28	137.79	135.31	133.09	130.93	128.90	127.00	125.12
150.0	314.70	309.91	305.41	300.89	296.59	292.20	288.06	284.05	280.22
180.0	385.77	380.48	375.23	369.64	364.54	360.21	355.20	350.76	346.19
210.0	314.70	309.91	305.41	300.89	296.59	292.20	288.06	284.05	280.22
240.0	143.03	140.28	137.79	135.31	133.09	130.93	128.90	127.00	125.12
270.0	3.02	2.93	2.85	2.76	2.68	2.61	2.53	2.46	2.42
300.0	143.03	140.28	137.79	135.31	133.09	130.93	128.90	127.00	125.12
330.0	314.70	309.91	305.41	300.89	296.59	292.20	288.06	284.05	280.22
360.0	385.77	380.48	375.23	369.64	364.54	360.21	355.20	350.76	346.19
C/γ(°)	99.0	99.5	100.0	100.5	101.0	101.5	102.0	102.5	103.0
0.0	342.04	337.31	333.09	328.82	325.17	321.32	317.20	313.85	310.36
30.0	276.46	272.72	269.29	265.93	262.63	259.66	256.62	253.58	250.59
60.0	123.31	121.54	119.91	118.27	116.64	115.03	113.45	111.96	110.49
90.0	2.37	2.32	2.29	2.28	2.25	2.25	2.23	2.23	2.22
120.0	123.31	121.54	119.91	118.27	116.64	115.03	113.45	111.96	110.49
150.0	276.46	272.72	269.29	265.93	262.63	259.66	256.62	253.58	250.59
180.0	342.04	337.31	333.09	328.82	325.17	321.32	317.20	313.85	310.36
210.0	276.46	272.72	269.29	265.93	262.63	259.66	256.62	253.58	250.59
240.0	123.31	121.54	119.91	118.27	116.64	115.03	113.45	111.96	110.49
270.0	2.37	2.32	2.29	2.28	2.25	2.25	2.23	2.23	2.22
300.0	123.31	121.54	119.91	118.27	116.64	115.03	113.45	111.96	110.49
330.0	276.46	272.72	269.29	265.93	262.63	259.66	256.62	253.58	250.59
360.0	342.04	337.31	333.09	328.82	325.17	321.32	317.20	313.85	310.36
C/γ(°)	103.5	104.0	104.5	105.0	105.5	106.0	106.5	107.0	107.5
0.0	306.60	302.99	299.57	296.56	293.38	290.10	286.84	283.58	280.26
30.0	247.78	245.18	242.36	239.63	236.99	234.38	231.89	229.20	226.69
60.0	109.04	107.56	106.14	104.73	103.26	101.83	100.34	98.90	97.30
90.0	2.23	2.24	2.25	2.26	2.26	2.28	2.31	2.34	2.37
120.0	109.04	107.56	106.14	104.73	103.26	101.83	100.34	98.90	97.30
150.0	247.78	245.18	242.36	239.63	236.99	234.38	231.89	229.20	226.69
180.0	306.60	302.99	299.57	296.56	293.38	290.10	286.84	283.58	280.26
210.0	247.78	245.18	242.36	239.63	236.99	234.38	231.89	229.20	226.69
240.0	109.04	107.56	106.14	104.73	103.26	101.83	100.34	98.90	97.30
270.0	2.23	2.24	2.25	2.26	2.26	2.28	2.31	2.34	2.37
300.0	109.04	107.56	106.14	104.73	103.26	101.83	100.34	98.90	97.30
330.0	247.78	245.18	242.36	239.63	236.99	234.38	231.89	229.20	226.69
360.0	306.60	302.99	299.57	296.56	293.38	290.10	286.84	283.58	280.26

C/γ(°)	108.0	108.5	109.0	109.5	110.0	110.5	111.0	111.5	112.0
0.0	277.09	274.11	271.36	268.25	265.21	262.36	259.37	256.44	253.78
30.0	224.25	221.64	219.15	216.72	214.34	211.91	209.40	207.08	204.80
60.0	95.76	94.19	92.56	90.95	89.46	88.28	87.31	86.21	85.02
90.0	2.41	2.46	2.49	2.51	2.55	2.57	2.63	2.68	2.75
120.0	95.76	94.19	92.56	90.95	89.46	88.28	87.31	86.21	85.02
150.0	224.25	221.64	219.15	216.72	214.34	211.91	209.40	207.08	204.80
180.0	277.09	274.11	271.36	268.25	265.21	262.36	259.37	256.44	253.78
210.0	224.25	221.64	219.15	216.72	214.34	211.91	209.40	207.08	204.80
240.0	95.76	94.19	92.56	90.95	89.46	88.28	87.31	86.21	85.02
270.0	2.41	2.46	2.49	2.51	2.55	2.57	2.63	2.68	2.75
300.0	95.76	94.19	92.56	90.95	89.46	88.28	87.31	86.21	85.02
330.0	224.25	221.64	219.15	216.72	214.34	211.91	209.40	207.08	204.80
360.0	277.09	274.11	271.36	268.25	265.21	262.36	259.37	256.44	253.78
C/γ(°)	112.5	113.0	113.5	114.0	114.5	115.0	115.5	116.0	116.5
0.0	250.78	247.98	245.21	242.41	239.76	236.86	234.02	231.34	228.64
30.0	202.35	199.94	197.58	195.29	193.02	190.60	188.23	185.76	183.18
60.0	83.75	82.36	80.89	79.73	78.78	78.00	77.13	75.99	74.53
90.0	2.80	2.83	2.86	2.90	2.94	3.00	3.05	3.08	3.12
120.0	83.75	82.36	80.89	79.73	78.78	78.00	77.13	75.99	74.53
150.0	202.35	199.94	197.58	195.29	193.02	190.60	188.23	185.76	183.18
180.0	250.78	247.98	245.21	242.41	239.76	236.86	234.02	231.34	228.64
210.0	202.35	199.94	197.58	195.29	193.02	190.60	188.23	185.76	183.18
240.0	83.75	82.36	80.89	79.73	78.78	78.00	77.13	75.99	74.53
270.0	2.80	2.83	2.86	2.90	2.94	3.00	3.05	3.08	3.12
300.0	83.75	82.36	80.89	79.73	78.78	78.00	77.13	75.99	74.53
330.0	202.35	199.94	197.58	195.29	193.02	190.60	188.23	185.76	183.18
360.0	250.78	247.98	245.21	242.41	239.76	236.86	234.02	231.34	228.64
C/γ(°)	117.0	117.5	118.0	118.5	119.0	119.5	120.0	120.5	121.0
0.0	225.84	223.31	220.47	217.75	215.02	212.44	209.72	207.17	204.54
30.0	180.70	178.17	175.57	172.81	170.27	167.63	165.22	162.72	160.08
60.0	72.89	71.58	70.75	70.14	69.22	68.51	67.94	67.25	66.42
90.0	3.16	3.20	3.24	3.28	3.30	3.36	3.39	3.43	3.48
120.0	72.89	71.58	70.75	70.14	69.22	68.51	67.94	67.25	66.42
150.0	180.70	178.17	175.57	172.81	170.27	167.63	165.22	162.72	160.08
180.0	225.84	223.31	220.47	217.75	215.02	212.44	209.72	207.17	204.54
210.0	180.70	178.17	175.57	172.81	170.27	167.63	165.22	162.72	160.08
240.0	72.89	71.58	70.75	70.14	69.22	68.51	67.94	67.25	66.42
270.0	3.16	3.20	3.24	3.28	3.30	3.36	3.39	3.43	3.48
300.0	72.89	71.58	70.75	70.14	69.22	68.51	67.94	67.25	66.42
330.0	180.70	178.17	175.57	172.81	170.27	167.63	165.22	162.72	160.08
360.0	225.84	223.31	220.47	217.75	215.02	212.44	209.72	207.17	204.54
C/γ(°)	121.5	122.0	122.5	123.0	123.5	124.0	124.5	125.0	125.5
0.0	201.92	199.45	196.78	194.23	191.75	189.28	186.73	184.18	181.74
30.0	157.58	155.37	153.06	150.91	148.68	146.54	144.50	142.54	140.88
60.0	65.44	64.53	63.55	62.68	61.77	60.89	59.96	58.87	57.81
90.0	3.52	3.56	3.61	3.65	3.68	3.74	3.77	3.81	3.87
120.0	65.44	64.53	63.55	62.68	61.77	60.89	59.96	58.87	57.81
150.0	157.58	155.37	153.06	150.91	148.68	146.54	144.50	142.54	140.88
180.0	201.92	199.45	196.78	194.23	191.75	189.28	186.73	184.18	181.74
210.0	157.58	155.37	153.06	150.91	148.68	146.54	144.50	142.54	140.88
240.0	65.44	64.53	63.55	62.68	61.77	60.89	59.96	58.87	57.81
270.0	3.52	3.56	3.61	3.65	3.68	3.74	3.77	3.81	3.87
300.0	65.44	64.53	63.55	62.68	61.77	60.89	59.96	58.87	57.81
330.0	157.58	155.37	153.06	150.91	148.68	146.54	144.50	142.54	140.88
360.0	201.92	199.45	196.78	194.23	191.75	189.28	186.73	184.18	181.74

C/γ(°)	126.0	126.5	127.0	127.5	128.0	128.5	129.0	129.5	130.0
0.0	179.39	176.85	174.52	172.03	169.59	167.25	164.85	162.60	160.27
30.0	139.28	137.35	135.57	133.86	132.18	130.34	128.45	126.48	124.59
60.0	56.85	55.84	54.79	53.68	52.56	51.46	50.47	49.62	48.92
90.0	3.92	3.95	4.00	4.04	4.07	4.12	4.17	4.22	4.25
120.0	56.85	55.84	54.79	53.68	52.56	51.46	50.47	49.62	48.92
150.0	139.28	137.35	135.57	133.86	132.18	130.34	128.45	126.48	124.59
180.0	179.39	176.85	174.52	172.03	169.59	167.25	164.85	162.60	160.27
210.0	139.28	137.35	135.57	133.86	132.18	130.34	128.45	126.48	124.59
240.0	56.85	55.84	54.79	53.68	52.56	51.46	50.47	49.62	48.92
270.0	3.92	3.95	4.00	4.04	4.07	4.12	4.17	4.22	4.25
300.0	56.85	55.84	54.79	53.68	52.56	51.46	50.47	49.62	48.92
330.0	139.28	137.35	135.57	133.86	132.18	130.34	128.45	126.48	124.59
360.0	179.39	176.85	174.52	172.03	169.59	167.25	164.85	162.60	160.27
C/γ(°)	130.5	131.0	131.5	132.0	132.5	133.0	133.5	134.0	134.5
0.0	157.96	155.54	153.36	151.03	148.82	146.59	144.19	141.77	139.28
30.0	122.96	121.24	119.51	117.67	115.90	114.15	112.46	110.64	108.88
60.0	48.34	47.86	47.38	46.90	46.33	45.67	44.97	44.29	43.52
90.0	4.28	4.33	4.37	4.42	4.46	4.51	4.53	4.57	4.61
120.0	48.34	47.86	47.38	46.90	46.33	45.67	44.97	44.29	43.52
150.0	122.96	121.24	119.51	117.67	115.90	114.15	112.46	110.64	108.88
180.0	157.96	155.54	153.36	151.03	148.82	146.59	144.19	141.77	139.28
210.0	122.96	121.24	119.51	117.67	115.90	114.15	112.46	110.64	108.88
240.0	48.34	47.86	47.38	46.90	46.33	45.67	44.97	44.29	43.52
270.0	4.28	4.33	4.37	4.42	4.46	4.51	4.53	4.57	4.61
300.0	48.34	47.86	47.38	46.90	46.33	45.67	44.97	44.29	43.52
330.0	122.96	121.24	119.51	117.67	115.90	114.15	112.46	110.64	108.88
360.0	157.96	155.54	153.36	151.03	148.82	146.59	144.19	141.77	139.28
C/γ(°)	135.0	135.5	136.0	136.5	137.0	137.5	138.0	138.5	139.0
0.0	136.66	134.02	131.55	129.09	126.92	124.62	122.46	120.49	118.42
30.0	107.01	105.27	103.61	101.90	100.17	98.09	95.71	93.30	91.13
60.0	42.84	42.08	41.44	40.74	40.05	39.44	38.84	38.26	37.67
90.0	4.65	4.69	4.73	4.76	4.80	4.84	4.88	4.91	4.94
120.0	42.84	42.08	41.44	40.74	40.05	39.44	38.84	38.26	37.67
150.0	107.01	105.27	103.61	101.90	100.17	98.09	95.71	93.30	91.13
180.0	136.66	134.02	131.55	129.09	126.92	124.62	122.46	120.49	118.42
210.0	107.01	105.27	103.61	101.90	100.17	98.09	95.71	93.30	91.13
240.0	42.84	42.08	41.44	40.74	40.05	39.44	38.84	38.26	37.67
270.0	4.65	4.69	4.73	4.76	4.80	4.84	4.88	4.91	4.94
300.0	42.84	42.08	41.44	40.74	40.05	39.44	38.84	38.26	37.67
330.0	107.01	105.27	103.61	101.90	100.17	98.09	95.71	93.30	91.13
360.0	136.66	134.02	131.55	129.09	126.92	124.62	122.46	120.49	118.42
C/γ(°)	139.5	140.0	140.5	141.0	141.5	142.0	142.5	143.0	143.5
0.0	116.39	114.35	112.31	110.43	108.29	106.10	104.02	102.22	100.33
30.0	89.58	88.08	86.41	84.29	82.29	80.71	79.00	77.15	74.97
60.0	37.06	36.44	35.83	35.27	34.66	34.01	33.39	32.75	32.15
90.0	4.98	5.02	5.04	5.08	5.11	5.18	5.26	5.34	5.39
120.0	37.06	36.44	35.83	35.27	34.66	34.01	33.39	32.75	32.15
150.0	89.58	88.08	86.41	84.29	82.29	80.71	79.00	77.15	74.97
180.0	116.39	114.35	112.31	110.43	108.29	106.10	104.02	102.22	100.33
210.0	89.58	88.08	86.41	84.29	82.29	80.71	79.00	77.15	74.97
240.0	37.06	36.44	35.83	35.27	34.66	34.01	33.39	32.75	32.15
270.0	4.98	5.02	5.04	5.08	5.11	5.18	5.26	5.34	5.39
300.0	37.06	36.44	35.83	35.27	34.66	34.01	33.39	32.75	32.15
330.0	89.58	88.08	86.41	84.29	82.29	80.71	79.00	77.15	74.97
360.0	116.39	114.35	112.31	110.43	108.29	106.10	104.02	102.22	100.33

Intensity data(cd)

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C/ γ (°)	144.0	144.5	145.0	145.5	146.0	146.5	147.0	147.5	148.0
0.0	98.51	96.67	94.75	92.94	91.15	89.41	87.46	85.31	83.15
30.0	73.07	71.31	69.42	67.50	65.75	64.05	62.35	60.75	59.35
60.0	31.56	30.99	30.41	29.85	29.32	28.81	28.29	27.87	27.48
90.0	5.45	5.48	5.52	5.57	5.61	5.65	5.71	5.75	5.80
120.0	31.56	30.99	30.41	29.85	29.32	28.81	28.29	27.87	27.48
150.0	73.07	71.31	69.42	67.50	65.75	64.05	62.35	60.75	59.35
180.0	98.51	96.67	94.75	92.94	91.15	89.41	87.46	85.31	83.15
210.0	73.07	71.31	69.42	67.50	65.75	64.05	62.35	60.75	59.35
240.0	31.56	30.99	30.41	29.85	29.32	28.81	28.29	27.87	27.48
270.0	5.45	5.48	5.52	5.57	5.61	5.65	5.71	5.75	5.80
300.0	31.56	30.99	30.41	29.85	29.32	28.81	28.29	27.87	27.48
330.0	73.07	71.31	69.42	67.50	65.75	64.05	62.35	60.75	59.35
360.0	98.51	96.67	94.75	92.94	91.15	89.41	87.46	85.31	83.15
C/ γ (°)	148.5	149.0	149.5	150.0	150.5	151.0	151.5	152.0	152.5
0.0	80.88	78.89	77.14	75.65	74.16	72.38	70.87	69.46	67.93
30.0	57.99	56.53	55.17	53.98	52.75	51.47	50.21	48.87	47.70
60.0	27.09	26.65	26.20	25.79	25.40	25.03	24.65	24.31	24.00
90.0	5.85	5.88	5.94	5.98	6.02	6.07	6.11	6.14	6.19
120.0	27.09	26.65	26.20	25.79	25.40	25.03	24.65	24.31	24.00
150.0	57.99	56.53	55.17	53.98	52.75	51.47	50.21	48.87	47.70
180.0	80.88	78.89	77.14	75.65	74.16	72.38	70.87	69.46	67.93
210.0	57.99	56.53	55.17	53.98	52.75	51.47	50.21	48.87	47.70
240.0	27.09	26.65	26.20	25.79	25.40	25.03	24.65	24.31	24.00
270.0	5.85	5.88	5.94	5.98	6.02	6.07	6.11	6.14	6.19
300.0	27.09	26.65	26.20	25.79	25.40	25.03	24.65	24.31	24.00
330.0	57.99	56.53	55.17	53.98	52.75	51.47	50.21	48.87	47.70
360.0	80.88	78.89	77.14	75.65	74.16	72.38	70.87	69.46	67.93
C/ γ (°)	153.0	153.5	154.0	154.5	155.0	155.5	156.0	156.5	157.0
0.0	66.50	64.93	63.30	61.49	60.07	58.75	57.56	56.40	54.99
30.0	46.63	45.59	44.58	43.59	42.69	41.86	41.00	40.11	39.09
60.0	23.68	23.39	23.07	22.73	22.40	22.08	21.72	21.33	20.96
90.0	6.24	6.27	6.32	6.37	6.41	6.45	6.50	6.53	6.58
120.0	23.68	23.39	23.07	22.73	22.40	22.08	21.72	21.33	20.96
150.0	46.63	45.59	44.58	43.59	42.69	41.86	41.00	40.11	39.09
180.0	66.50	64.93	63.30	61.49	60.07	58.75	57.56	56.40	54.99
210.0	46.63	45.59	44.58	43.59	42.69	41.86	41.00	40.11	39.09
240.0	23.68	23.39	23.07	22.73	22.40	22.08	21.72	21.33	20.96
270.0	6.24	6.27	6.32	6.37	6.41	6.45	6.50	6.53	6.58
300.0	23.68	23.39	23.07	22.73	22.40	22.08	21.72	21.33	20.96
330.0	46.63	45.59	44.58	43.59	42.69	41.86	41.00	40.11	39.09
360.0	66.50	64.93	63.30	61.49	60.07	58.75	57.56	56.40	54.99
C/ γ (°)	157.5	158.0	158.5	159.0	159.5	160.0	160.5	161.0	161.5
0.0	53.59	52.16	50.70	49.30	47.89	46.40	44.86	43.32	41.70
30.0	38.11	37.14	36.14	35.14	34.06	33.02	31.80	30.52	29.41
60.0	20.59	20.20	19.79	19.39	18.99	18.60	18.20	17.83	17.46
90.0	6.63	6.67	6.71	6.73	6.78	6.81	6.85	6.91	6.94
120.0	20.59	20.20	19.79	19.39	18.99	18.60	18.20	17.83	17.46
150.0	38.11	37.14	36.14	35.14	34.06	33.02	31.80	30.52	29.41
180.0	53.59	52.16	50.70	49.30	47.89	46.40	44.86	43.32	41.70
210.0	38.11	37.14	36.14	35.14	34.06	33.02	31.80	30.52	29.41
240.0	20.59	20.20	19.79	19.39	18.99	18.60	18.20	17.83	17.46
270.0	6.63	6.67	6.71	6.73	6.78	6.81	6.85	6.91	6.94
300.0	20.59	20.20	19.79	19.39	18.99	18.60	18.20	17.83	17.46
330.0	38.11	37.14	36.14	35.14	34.06	33.02	31.80	30.52	29.41
360.0	53.59	52.16	50.70	49.30	47.89	46.40	44.86	43.32	41.70

Intensity data(cd)

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C/γ(°)	162.0	162.5	163.0	163.5	164.0	164.5	165.0	165.5	166.0
0.0	40.33	38.93	37.45	35.90	34.35	32.72	31.13	29.67	28.27
30.0	28.47	27.60	26.66	25.75	25.00	24.30	23.63	23.02	22.42
60.0	17.10	16.72	16.36	16.00	15.65	15.31	14.97	14.63	14.28
90.0	6.96	7.01	7.05	7.09	7.14	7.17	7.20	7.25	7.29
120.0	17.10	16.72	16.36	16.00	15.65	15.31	14.97	14.63	14.28
150.0	28.47	27.60	26.66	25.75	25.00	24.30	23.63	23.02	22.42
180.0	40.33	38.93	37.45	35.90	34.35	32.72	31.13	29.67	28.27
210.0	28.47	27.60	26.66	25.75	25.00	24.30	23.63	23.02	22.42
240.0	17.10	16.72	16.36	16.00	15.65	15.31	14.97	14.63	14.28
270.0	6.96	7.01	7.05	7.09	7.14	7.17	7.20	7.25	7.29
300.0	17.10	16.72	16.36	16.00	15.65	15.31	14.97	14.63	14.28
330.0	28.47	27.60	26.66	25.75	25.00	24.30	23.63	23.02	22.42
360.0	40.33	38.93	37.45	35.90	34.35	32.72	31.13	29.67	28.27
C/γ(°)	166.5	167.0	167.5	168.0	168.5	169.0	169.5	170.0	170.5
0.0	27.00	25.87	24.95	24.06	23.07	21.93	21.05	20.27	19.47
30.0	21.82	21.13	20.51	19.77	19.06	18.36	17.66	16.97	16.30
60.0	13.97	13.66	13.34	13.01	12.67	12.37	12.05	11.74	11.41
90.0	7.31	7.35	7.38	7.42	7.43	7.46	7.47	7.50	7.52
120.0	13.97	13.66	13.34	13.01	12.67	12.37	12.05	11.74	11.41
150.0	21.82	21.13	20.51	19.77	19.06	18.36	17.66	16.97	16.30
180.0	27.00	25.87	24.95	24.06	23.07	21.93	21.05	20.27	19.47
210.0	21.82	21.13	20.51	19.77	19.06	18.36	17.66	16.97	16.30
240.0	13.97	13.66	13.34	13.01	12.67	12.37	12.05	11.74	11.41
270.0	7.31	7.35	7.38	7.42	7.43	7.46	7.47	7.50	7.52
300.0	13.97	13.66	13.34	13.01	12.67	12.37	12.05	11.74	11.41
330.0	21.82	21.13	20.51	19.77	19.06	18.36	17.66	16.97	16.30
360.0	27.00	25.87	24.95	24.06	23.07	21.93	21.05	20.27	19.47
C/γ(°)	171.0	171.5	172.0	172.5	173.0	173.5	174.0	174.5	175.0
0.0	18.79	17.96	16.86	16.32	15.46	14.71	13.96	13.25	12.53
30.0	15.63	14.94	14.28	13.63	13.03	12.45	11.87	11.30	10.77
60.0	11.10	10.80	10.50	10.24	10.01	9.77	9.53	9.31	9.10
90.0	7.55	7.56	7.58	7.59	7.61	7.64	7.65	7.65	7.65
120.0	11.10	10.80	10.50	10.24	10.01	9.77	9.53	9.31	9.10
150.0	15.63	14.94	14.28	13.63	13.03	12.45	11.87	11.30	10.77
180.0	18.79	17.96	16.86	16.32	15.46	14.71	13.96	13.25	12.53
210.0	15.63	14.94	14.28	13.63	13.03	12.45	11.87	11.30	10.77
240.0	11.10	10.80	10.50	10.24	10.01	9.77	9.53	9.31	9.10
270.0	7.55	7.56	7.58	7.59	7.61	7.64	7.65	7.65	7.65
300.0	11.10	10.80	10.50	10.24	10.01	9.77	9.53	9.31	9.10
330.0	15.63	14.94	14.28	13.63	13.03	12.45	11.87	11.30	10.77
360.0	18.79	17.96	16.86	16.32	15.46	14.71	13.96	13.25	12.53
C/γ(°)	175.5	176.0	176.5	177.0	177.5	178.0	178.5	179.0	179.5
0.0	11.66	8.91	8.30	7.85	7.26	7.04	6.86	6.71	6.61
30.0	10.25	9.80	9.39	8.99	8.62	8.31	8.07	7.86	7.72
60.0	8.88	8.70	8.52	8.36	8.22	8.08	7.96	7.87	7.80
90.0	7.66	7.67	7.68	7.69	7.71	7.72	7.72	7.72	7.72
120.0	8.88	8.70	8.52	8.36	8.22	8.08	7.96	7.87	7.80
150.0	10.25	9.80	9.39	8.99	8.62	8.31	8.07	7.86	7.72
180.0	11.66	8.91	8.30	7.85	7.26	7.04	6.86	6.71	6.61
210.0	10.25	9.80	9.39	8.99	8.62	8.31	8.07	7.86	7.72
240.0	8.88	8.70	8.52	8.36	8.22	8.08	7.96	7.87	7.80
270.0	7.66	7.67	7.68	7.69	7.71	7.72	7.72	7.72	7.72
300.0	8.88	8.70	8.52	8.36	8.22	8.08	7.96	7.87	7.80
330.0	10.25	9.80	9.39	8.99	8.62	8.31	8.07	7.86	7.72
360.0	11.66	8.91	8.30	7.85	7.26	7.04	6.86	6.71	6.61

Intensity data(cd)

Appendix Page: 31 Total:31

C/γ(°)	180.0
0.0	7.73
30.0	7.73
60.0	7.73
90.0	7.73
120.0	7.73
150.0	7.73
180.0	7.73
210.0	7.73
240.0	7.73
270.0	7.73
300.0	7.73
330.0	7.73
360.0	7.73