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Report No	:		Voltage	:	V
Test No	:	A2508873B001	Current	:	A
LumCAT	:		Power	:	15.500 W
Luminaire	:	0028920280 15.5W 4000K 1800lm	PF	:	
LampCAT	:		Ballast type	:	
Lamp flux	:	1800.0 lm	Width	:	-300 mm
Number of Lamps	:	1	Length	:	-300 mm
Phm Type	:	C	Height	:	29 mm

### Photometric Results

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Lumens(lm)	:	1800.00	Central intensity(cd)	:	532.525
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	532.985
Luminous Efficacy(lm/W)	:	116.13	Angle of maximum intensity	:	C=0.0 $\gamma$ =1.5
Beam Angle(50%Imax)	:	[C0/180]Total=119.8 [C90/270]Total=120.0			
Field angle(10%Imax)	:	[C0/180]Total=172.2 [C90/270]Total=172.2			
Maximum s/h(1/2)	:	C0_180=1.30 C90_270=1.30			
Maximum s/h(1/4)	:	C0_180=1.42 C90_270=1.42			
Up flux rate of lamp(%)	:	6.11%			
Down flux rate of lamp(%)	:	93.89%			
Up flux rate of LUM(%)	:	6.11%			
Down flux rate of LUM(%)	:	93.89%			
CIE Type	:	Direct lighting			
Output flux ratio in $\pi$ solid angle	:	70.353%			

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Equipment: GMS-1800  
Temperature(°C): 25.0

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 2 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	532.525	0.000	0	0.00%	0.00%
0.5	532.613	0.127	0.127	0.01%	0.01%
1.0	532.770	0.382	0.51	0.02%	0.03%
1.5	532.763	0.637	1.147	0.04%	0.06%
2.0	532.593	0.892	2.039	0.05%	0.11%
2.5	532.494	1.146	3.185	0.06%	0.18%
3.0	532.299	1.401	4.586	0.08%	0.25%
3.5	532.133	1.654	6.24	0.09%	0.35%
4.0	531.797	1.908	8.148	0.11%	0.45%
4.5	531.528	2.160	10.308	0.12%	0.57%
5.0	531.188	2.413	12.721	0.13%	0.71%
5.5	530.858	2.664	15.385	0.15%	0.85%
6.0	530.526	2.915	18.3	0.16%	1.02%
6.5	530.086	3.166	21.466	0.18%	1.19%
7.0	529.684	3.415	24.881	0.19%	1.38%
7.5	529.112	3.663	28.544	0.20%	1.59%
8.0	528.826	3.911	32.455	0.22%	1.80%
8.5	528.145	4.158	36.613	0.23%	2.03%
9.0	527.553	4.403	41.016	0.24%	2.28%
9.5	526.857	4.647	45.663	0.26%	2.54%
10.0	526.201	4.889	50.552	0.27%	2.81%
10.5	525.467	5.130	55.682	0.29%	3.09%
11.0	524.719	5.370	61.053	0.30%	3.39%
11.5	524.014	5.609	66.662	0.31%	3.70%
12.0	522.984	5.845	72.507	0.32%	4.03%
12.5	522.387	6.081	78.588	0.34%	4.37%
13.0	521.225	6.314	84.902	0.35%	4.72%
13.5	520.573	6.546	91.449	0.36%	5.08%
14.0	519.415	6.777	98.226	0.38%	5.46%
14.5	518.601	7.005	105.231	0.39%	5.85%
15.0	517.417	7.231	112.462	0.40%	6.25%
15.5	516.229	7.454	119.916	0.41%	6.66%
16.0	515.043	7.674	127.59	0.43%	7.09%
16.5	513.935	7.894	135.484	0.44%	7.53%
17.0	512.802	8.112	143.596	0.45%	7.98%
17.5	511.161	8.325	151.921	0.46%	8.44%
18.0	510.300	8.537	160.458	0.47%	8.91%
18.5	508.633	8.748	169.206	0.49%	9.40%

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

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 3 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
19.0	507.505	8.955	178.161	0.50%	9.90%
19.5	505.884	9.160	187.321	0.51%	10.41%
20.0	504.532	9.361	196.681	0.52%	10.93%
20.5	502.955	9.560	206.241	0.53%	11.46%
21.0	501.451	9.756	215.997	0.54%	12.00%
21.5	499.879	9.950	225.947	0.55%	12.55%
22.0	498.222	10.140	236.087	0.56%	13.12%
22.5	496.598	10.327	246.414	0.57%	13.69%
23.0	494.420	10.507	256.92	0.58%	14.27%
23.5	493.378	10.690	267.61	0.59%	14.87%
24.0	491.240	10.872	278.482	0.60%	15.47%
24.5	489.561	11.044	289.526	0.61%	16.08%
25.0	487.535	11.215	300.741	0.62%	16.71%
25.5	485.545	11.380	312.12	0.63%	17.34%
26.0	483.530	11.542	323.663	0.64%	17.98%
26.5	481.577	11.702	335.365	0.65%	18.63%
27.0	479.805	11.863	347.228	0.66%	19.29%
27.5	477.297	12.014	359.243	0.67%	19.96%
28.0	475.857	12.167	371.41	0.68%	20.63%
28.5	473.374	12.317	383.727	0.68%	21.32%
29.0	471.425	12.459	396.186	0.69%	22.01%
29.5	468.687	12.594	408.779	0.70%	22.71%
30.0	466.718	12.725	421.505	0.71%	23.42%
30.5	464.387	12.860	434.364	0.71%	24.13%
31.0	462.012	12.986	447.35	0.72%	24.85%
31.5	459.585	13.107	460.457	0.73%	25.58%
32.0	457.207	13.226	473.683	0.73%	26.32%
32.5	454.959	13.344	487.028	0.74%	27.06%
33.0	451.738	13.447	500.475	0.75%	27.80%
33.5	450.060	13.556	514.031	0.75%	28.56%
34.0	446.865	13.661	527.692	0.76%	29.32%
34.5	444.700	13.756	541.448	0.76%	30.08%
35.0	441.740	13.852	555.3	0.77%	30.85%
35.5	439.312	13.941	569.241	0.77%	31.62%
36.0	436.453	14.028	583.269	0.78%	32.40%
36.5	433.555	14.104	597.372	0.78%	33.19%
37.0	430.976	14.181	611.554	0.79%	33.98%
37.5	427.909	14.253	625.806	0.79%	34.77%

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

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 4 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	425.471	14.323	640.13	0.80%	35.56%
38.5	421.831	14.381	654.511	0.80%	36.36%
39.0	419.883	14.444	668.954	0.80%	37.16%
39.5	416.115	14.501	683.456	0.81%	37.97%
40.0	413.675	14.547	698.002	0.81%	38.78%
40.5	410.384	14.597	712.599	0.81%	39.59%
41.0	407.209	14.631	727.231	0.81%	40.40%
41.5	404.052	14.665	741.895	0.81%	41.22%
42.0	400.973	14.696	756.591	0.82%	42.03%
42.5	398.159	14.731	771.322	0.82%	42.85%
43.0	394.113	14.744	786.066	0.82%	43.67%
43.5	391.854	14.764	800.83	0.82%	44.49%
44.0	387.597	14.777	815.607	0.82%	45.31%
44.5	385.276	14.785	830.392	0.82%	46.13%
45.0	381.021	14.790	845.183	0.82%	46.95%
45.5	378.049	14.779	859.962	0.82%	47.78%
46.0	374.630	14.781	874.743	0.82%	48.60%
46.5	371.112	14.769	889.511	0.82%	49.42%
47.0	367.349	14.746	904.257	0.82%	50.24%
47.5	363.571	14.715	918.972	0.82%	51.05%
48.0	360.498	14.694	933.666	0.82%	51.87%
48.5	356.248	14.660	948.326	0.81%	52.68%
49.0	353.843	14.636	962.962	0.81%	53.50%
49.5	349.208	14.602	977.564	0.81%	54.31%
50.0	345.999	14.547	992.111	0.81%	55.12%
50.5	341.962	14.501	1006.612	0.81%	55.92%
51.0	338.417	14.445	1021.056	0.80%	56.73%
51.5	334.512	14.388	1035.444	0.80%	57.52%
52.0	330.384	14.315	1049.759	0.80%	58.32%
52.5	326.949	14.249	1064.008	0.79%	59.11%
53.0	322.889	14.181	1078.19	0.79%	59.90%
53.5	319.870	14.119	1092.309	0.78%	60.68%
54.0	314.790	14.032	1106.341	0.78%	61.46%
54.5	311.814	13.942	1120.282	0.77%	62.24%
55.0	306.565	13.845	1134.127	0.77%	63.01%
55.5	302.735	13.725	1147.852	0.76%	63.77%
56.0	298.769	13.631	1161.483	0.76%	64.53%
56.5	294.510	13.524	1175.007	0.75%	65.28%

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

Date:  
Humidity(%): 59.0%

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## Zonal flux distribution table

Appendix Page: 5 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
57.0	290.475	13.412	1188.419	0.75%	66.02%
57.5	286.262	13.298	1201.717	0.74%	66.76%
58.0	282.528	13.188	1214.905	0.73%	67.49%
58.5	277.229	13.049	1227.954	0.72%	68.22%
59.0	274.347	12.928	1240.882	0.72%	68.94%
59.5	268.959	12.801	1253.683	0.71%	69.65%
60.0	265.868	12.666	1266.349	0.70%	70.35%
60.5	260.601	12.531	1278.88	0.70%	71.05%
61.0	256.578	12.371	1291.251	0.69%	71.74%
61.5	252.174	12.228	1303.479	0.68%	72.42%
62.0	247.968	12.078	1315.558	0.67%	73.09%
62.5	243.880	11.933	1327.491	0.66%	73.75%
63.0	239.258	11.775	1339.267	0.65%	74.40%
63.5	234.886	11.608	1350.874	0.64%	75.05%
64.0	229.131	11.409	1362.284	0.63%	75.68%
64.5	226.242	11.245	1373.528	0.62%	76.31%
65.0	220.961	11.089	1384.617	0.62%	76.92%
65.5	217.196	10.909	1395.526	0.61%	77.53%
66.0	212.055	10.730	1406.256	0.60%	78.13%
66.5	207.218	10.521	1416.777	0.58%	78.71%
67.0	202.212	10.313	1427.09	0.57%	79.28%
67.5	198.039	10.119	1437.209	0.56%	79.84%
68.0	194.013	9.948	1447.157	0.55%	80.40%
68.5	189.038	9.754	1456.911	0.54%	80.94%
69.0	185.183	9.562	1466.473	0.53%	81.47%
69.5	179.408	9.347	1475.82	0.52%	81.99%
70.0	176.257	9.148	1484.968	0.51%	82.50%
70.5	170.490	8.947	1493.915	0.50%	83.00%
71.0	166.209	8.715	1502.63	0.48%	83.48%
71.5	161.810	8.516	1511.145	0.47%	83.95%
72.0	157.102	8.303	1519.449	0.46%	84.41%
72.5	152.610	8.087	1527.535	0.45%	84.86%
73.0	147.635	7.861	1535.396	0.44%	85.30%
73.5	144.087	7.658	1543.055	0.43%	85.73%
74.0	138.608	7.441	1550.495	0.41%	86.14%
74.5	135.624	7.236	1557.731	0.40%	86.54%
75.0	130.146	7.030	1564.761	0.39%	86.93%
75.5	127.038	6.818	1571.579	0.38%	87.31%

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

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 6 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	121.833	6.613	1578.192	0.37%	87.68%
76.5	118.138	6.390	1584.583	0.36%	88.03%
77.0	114.490	6.208	1590.791	0.34%	88.38%
77.5	109.908	6.000	1596.791	0.33%	88.71%
78.0	105.916	5.782	1602.573	0.32%	89.03%
78.5	101.843	5.576	1608.15	0.31%	89.34%
79.0	98.302	5.382	1613.531	0.30%	89.64%
79.5	93.414	5.164	1618.695	0.29%	89.93%
80.0	91.048	4.976	1623.671	0.28%	90.20%
80.5	86.622	4.801	1628.472	0.27%	90.47%
81.0	83.219	4.596	1633.068	0.26%	90.73%
81.5	79.686	4.414	1637.482	0.25%	90.97%
82.0	76.285	4.232	1641.714	0.24%	91.21%
82.5	73.499	4.069	1645.782	0.23%	91.43%
83.0	70.396	3.913	1649.696	0.22%	91.65%
83.5	67.533	3.755	1653.451	0.21%	91.86%
84.0	64.244	3.591	1657.042	0.20%	92.06%
84.5	62.325	3.452	1660.495	0.19%	92.25%
85.0	58.903	3.310	1663.804	0.18%	92.43%
85.5	56.838	3.162	1666.967	0.18%	92.61%
86.0	54.057	3.032	1669.998	0.17%	92.78%
86.5	51.542	2.889	1672.887	0.16%	92.94%
87.0	49.714	2.772	1675.659	0.15%	93.09%
87.5	47.212	2.654	1678.313	0.15%	93.24%
88.0	45.474	2.539	1680.852	0.14%	93.38%
88.5	43.213	2.430	1683.282	0.14%	93.52%
89.0	41.728	2.328	1685.611	0.13%	93.65%
89.5	39.380	2.223	1687.834	0.12%	93.77%
90.0	38.151	2.126	1689.959	0.12%	93.89%
90.5	36.594	2.049	1692.009	0.11%	94.00%
91.0	35.548	1.978	1693.986	0.11%	94.11%
91.5	34.123	1.910	1695.896	0.11%	94.22%
92.0	32.874	1.836	1697.732	0.10%	94.32%
92.5	31.729	1.770	1699.501	0.10%	94.42%
93.0	30.558	1.706	1701.207	0.09%	94.51%
93.5	29.770	1.651	1702.858	0.09%	94.60%
94.0	28.790	1.602	1704.46	0.09%	94.69%
94.5	28.058	1.554	1706.015	0.09%	94.78%

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

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## Zonal flux distribution table

Appendix Page: 7 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
95.0	27.248	1.511	1707.526	0.08%	94.86%
95.5	26.702	1.473	1708.998	0.08%	94.94%
96.0	26.008	1.438	1710.436	0.08%	95.02%
96.5	25.445	1.402	1711.838	0.08%	95.10%
97.0	25.077	1.375	1713.214	0.08%	95.18%
97.5	24.645	1.352	1714.566	0.08%	95.25%
98.0	24.326	1.330	1715.896	0.07%	95.33%
98.5	23.989	1.311	1717.207	0.07%	95.40%
99.0	23.767	1.294	1718.501	0.07%	95.47%
99.5	23.474	1.278	1719.78	0.07%	95.54%
100.0	23.346	1.265	1721.045	0.07%	95.61%
100.5	23.138	1.254	1722.299	0.07%	95.68%
101.0	22.987	1.242	1723.541	0.07%	95.75%
101.5	22.819	1.232	1724.773	0.07%	95.82%
102.0	22.667	1.221	1725.994	0.07%	95.89%
102.5	22.583	1.212	1727.206	0.07%	95.96%
103.0	22.459	1.204	1728.41	0.07%	96.02%
103.5	22.371	1.196	1729.607	0.07%	96.09%
104.0	22.258	1.188	1730.795	0.07%	96.16%
104.5	22.166	1.180	1731.976	0.07%	96.22%
105.0	22.019	1.171	1733.147	0.07%	96.29%
105.5	21.961	1.163	1734.31	0.06%	96.35%
106.0	21.846	1.156	1735.466	0.06%	96.41%
106.5	21.708	1.146	1736.613	0.06%	96.48%
107.0	21.636	1.138	1737.75	0.06%	96.54%
107.5	21.529	1.130	1738.881	0.06%	96.60%
108.0	21.412	1.121	1740.002	0.06%	96.67%
108.5	21.296	1.112	1741.114	0.06%	96.73%
109.0	21.221	1.104	1742.217	0.06%	96.79%
109.5	21.094	1.095	1743.313	0.06%	96.85%
110.0	20.975	1.085	1744.398	0.06%	96.91%
110.5	20.860	1.076	1745.474	0.06%	96.97%
111.0	20.760	1.067	1746.541	0.06%	97.03%
111.5	20.633	1.058	1747.599	0.06%	97.09%
112.0	20.468	1.047	1748.645	0.06%	97.15%
112.5	20.354	1.036	1749.681	0.06%	97.20%
113.0	20.197	1.025	1750.706	0.06%	97.26%
113.5	20.108	1.015	1751.722	0.06%	97.32%

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

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 8 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	19.986	1.006	1752.728	0.06%	97.37%
114.5	19.872	0.996	1753.724	0.06%	97.43%
115.0	19.712	0.986	1754.71	0.05%	97.48%
115.5	19.623	0.975	1755.685	0.05%	97.54%
116.0	19.488	0.966	1756.651	0.05%	97.59%
116.5	19.378	0.956	1757.606	0.05%	97.64%
117.0	19.261	0.946	1758.552	0.05%	97.70%
117.5	19.104	0.935	1759.487	0.05%	97.75%
118.0	19.000	0.924	1760.412	0.05%	97.80%
118.5	18.860	0.914	1761.326	0.05%	97.85%
119.0	18.728	0.903	1762.23	0.05%	97.90%
119.5	18.561	0.892	1763.122	0.05%	97.95%
120.0	18.437	0.881	1764.002	0.05%	98.00%
120.5	18.231	0.868	1764.871	0.05%	98.05%
121.0	18.109	0.856	1765.727	0.05%	98.10%
121.5	18.001	0.846	1766.573	0.05%	98.14%
122.0	17.843	0.836	1767.409	0.05%	98.19%
122.5	17.709	0.824	1768.233	0.05%	98.24%
123.0	17.534	0.813	1769.046	0.05%	98.28%
123.5	17.404	0.801	1769.847	0.04%	98.32%
124.0	17.228	0.789	1770.636	0.04%	98.37%
124.5	17.099	0.778	1771.414	0.04%	98.41%
125.0	16.935	0.767	1772.181	0.04%	98.45%
125.5	16.805	0.755	1772.936	0.04%	98.50%
126.0	16.634	0.744	1773.68	0.04%	98.54%
126.5	16.472	0.732	1774.412	0.04%	98.58%
127.0	16.282	0.719	1775.132	0.04%	98.62%
127.5	16.095	0.707	1775.838	0.04%	98.66%
128.0	15.976	0.695	1776.533	0.04%	98.70%
128.5	15.801	0.684	1777.217	0.04%	98.73%
129.0	15.669	0.673	1777.89	0.04%	98.77%
129.5	15.468	0.661	1778.551	0.04%	98.81%
130.0	15.333	0.649	1779.201	0.04%	98.84%
130.5	15.135	0.638	1779.838	0.04%	98.88%
131.0	14.998	0.626	1780.464	0.03%	98.91%
131.5	14.808	0.614	1781.078	0.03%	98.95%
132.0	14.663	0.603	1781.681	0.03%	98.98%
132.5	14.477	0.591	1782.272	0.03%	99.02%

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

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 9 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
133.0	14.275	0.579	1782.851	0.03%	99.05%
133.5	14.139	0.567	1783.419	0.03%	99.08%
134.0	13.952	0.556	1783.975	0.03%	99.11%
134.5	13.793	0.545	1784.52	0.03%	99.14%
135.0	13.587	0.533	1785.053	0.03%	99.17%
135.5	13.431	0.521	1785.574	0.03%	99.20%
136.0	13.211	0.510	1786.084	0.03%	99.23%
136.5	13.036	0.498	1786.582	0.03%	99.25%
137.0	12.904	0.487	1787.069	0.03%	99.28%
137.5	12.708	0.477	1787.546	0.03%	99.31%
138.0	12.544	0.465	1788.011	0.03%	99.33%
138.5	12.344	0.454	1788.465	0.03%	99.36%
139.0	12.187	0.443	1788.909	0.02%	99.38%
139.5	11.977	0.432	1789.341	0.02%	99.41%
140.0	11.844	0.422	1789.763	0.02%	99.43%
140.5	11.639	0.412	1790.175	0.02%	99.45%
141.0	11.493	0.401	1790.576	0.02%	99.48%
141.5	11.241	0.390	1790.966	0.02%	99.50%
142.0	11.098	0.379	1791.345	0.02%	99.52%
142.5	10.883	0.369	1791.714	0.02%	99.54%
143.0	10.708	0.358	1792.073	0.02%	99.56%
143.5	10.561	0.349	1792.421	0.02%	99.58%
144.0	10.362	0.339	1792.761	0.02%	99.60%
144.5	10.147	0.329	1793.089	0.02%	99.62%
145.0	9.961	0.318	1793.407	0.02%	99.63%
145.5	9.759	0.308	1793.715	0.02%	99.65%
146.0	9.571	0.298	1794.014	0.02%	99.67%
146.5	9.448	0.290	1794.303	0.02%	99.68%
147.0	9.238	0.281	1794.584	0.02%	99.70%
147.5	9.083	0.272	1794.856	0.02%	99.71%
148.0	8.864	0.263	1795.119	0.01%	99.73%
148.5	8.680	0.253	1795.372	0.01%	99.74%
149.0	8.489	0.244	1795.616	0.01%	99.76%
149.5	8.316	0.236	1795.851	0.01%	99.77%
150.0	8.144	0.227	1796.079	0.01%	99.78%
150.5	7.941	0.219	1796.298	0.01%	99.79%
151.0	7.768	0.210	1796.508	0.01%	99.81%
151.5	7.550	0.202	1796.71	0.01%	99.82%

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

Date:  
Humidity(%): 59.0%

Operator: LSC

## Zonal flux distribution table

Appendix Page: 10 Total:29

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	7.414	0.194	1796.904	0.01%	99.83%
152.5	7.206	0.187	1797.091	0.01%	99.84%
153.0	7.007	0.178	1797.269	0.01%	99.85%
153.5	6.831	0.171	1797.44	0.01%	99.86%
154.0	6.649	0.163	1797.603	0.01%	99.87%
154.5	6.409	0.156	1797.759	0.01%	99.88%
155.0	6.176	0.147	1797.906	0.01%	99.88%
155.5	6.000	0.140	1798.046	0.01%	99.89%
156.0	5.789	0.133	1798.179	0.01%	99.90%
156.5	5.600	0.126	1798.304	0.01%	99.91%
157.0	5.386	0.119	1798.423	0.01%	99.91%
157.5	5.262	0.113	1798.536	0.01%	99.92%
158.0	5.069	0.107	1798.643	0.01%	99.92%
158.5	4.934	0.102	1798.745	0.01%	99.93%
159.0	4.792	0.097	1798.842	0.01%	99.94%
159.5	4.618	0.091	1798.933	0.01%	99.94%
160.0	4.419	0.086	1799.019	0.00%	99.95%
160.5	4.183	0.080	1799.098	0.00%	99.95%
161.0	4.006	0.074	1799.172	0.00%	99.95%
161.5	3.834	0.069	1799.242	0.00%	99.96%
162.0	3.696	0.065	1799.306	0.00%	99.96%
162.5	3.552	0.061	1799.367	0.00%	99.96%
163.0	3.447	0.057	1799.424	0.00%	99.97%
163.5	3.257	0.053	1799.477	0.00%	99.97%
164.0	3.125	0.049	1799.526	0.00%	99.97%
164.5	2.991	0.046	1799.571	0.00%	99.98%
165.0	2.862	0.042	1799.613	0.00%	99.98%
165.5	2.749	0.039	1799.652	0.00%	99.98%
166.0	2.601	0.036	1799.689	0.00%	99.98%
166.5	2.478	0.033	1799.722	0.00%	99.98%
167.0	2.304	0.030	1799.752	0.00%	99.99%
167.5	2.194	0.027	1799.779	0.00%	99.99%
168.0	2.050	0.025	1799.804	0.00%	99.99%
168.5	1.945	0.022	1799.826	0.00%	99.99%
169.0	1.857	0.020	1799.846	0.00%	99.99%
169.5	1.750	0.018	1799.865	0.00%	99.99%
170.0	1.653	0.017	1799.881	0.00%	99.99%
170.5	1.543	0.015	1799.896	0.00%	99.99%

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

Date:  
Humidity(%): 59.0%

Operator: LSC

Zonal flux distribution table

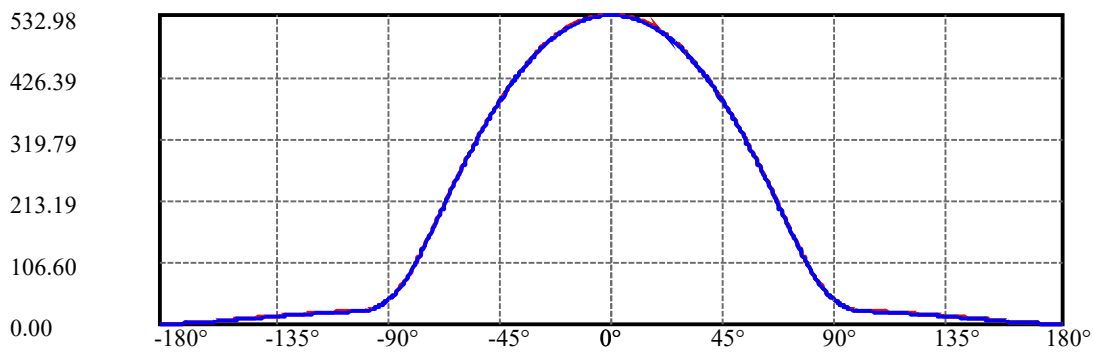
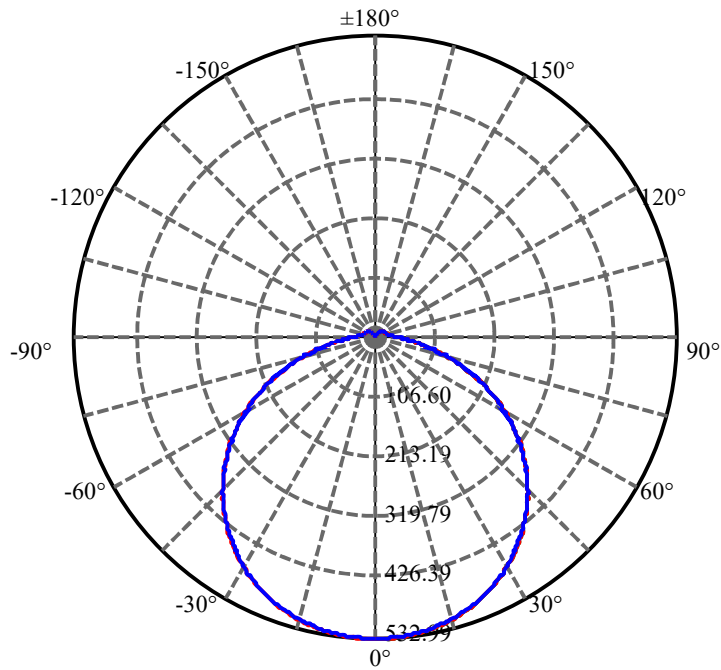
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
171.0	1.490	0.013	1799.909	0.00%	99.99%
171.5	1.394	0.012	1799.921	0.00%	100.00%
172.0	1.341	0.011	1799.932	0.00%	100.00%
172.5	1.258	0.010	1799.942	0.00%	100.00%
173.0	1.194	0.008	1799.95	0.00%	100.00%
173.5	1.089	0.007	1799.958	0.00%	100.00%
174.0	1.075	0.006	1799.964	0.00%	100.00%
174.5	1.064	0.006	1799.97	0.00%	100.00%
175.0	1.026	0.005	1799.975	0.00%	100.00%
175.5	1.036	0.005	1799.98	0.00%	100.00%
176.0	1.048	0.004	1799.984	0.00%	100.00%
176.5	1.032	0.004	1799.988	0.00%	100.00%
177.0	1.008	0.003	1799.991	0.00%	100.00%
177.5	1.003	0.003	1799.994	0.00%	100.00%
178.0	0.994	0.002	1799.996	0.00%	100.00%
178.5	0.995	0.002	1799.998	0.00%	100.00%
179.0	0.995	0.001	1799.999	0.00%	100.00%
179.5	0.992	0.001	1799.999	0.00%	100.00%
180.0	0.950	0.000	1800	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	421.50	23.42%	23.42%
0-40	698.00	38.78%	38.78%
0-60	1266.35	70.35%	70.35%
0-90	1689.96	93.89%	93.89%
0-120	1764.00	98.00%	98.00%
0-180	1800.00	100.00%	100.00%
60-90	423.61	23.53%	23.53%
90-120	74.04	4.11%	4.11%
90-130	89.24	4.96%	4.96%
90-150	106.12	5.90%	5.90%
90-180	110.04	6.11%	6.11%
0-67.64	1440.00	80.00%	80.00%

ZONAL LUMEN SUMMARY

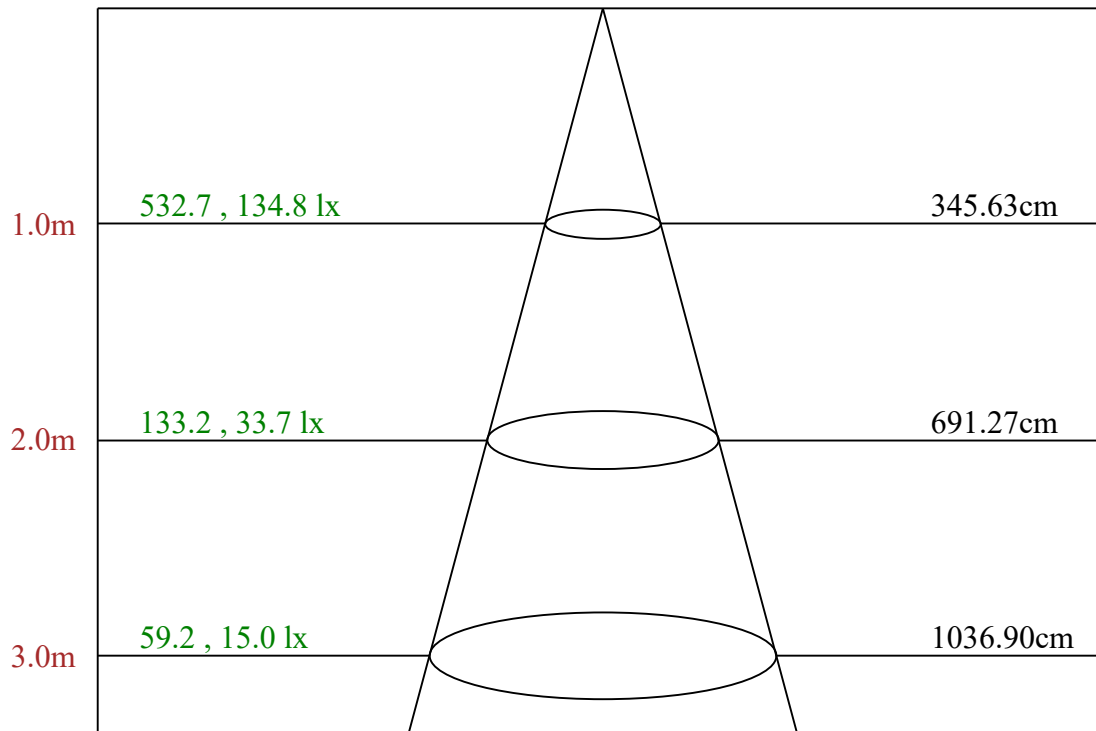
0-10	50.55
10-20	146.13
20-30	224.82
30-40	276.50
40-50	294.11
50-60	274.24
60-70	218.62
70-80	138.70
80-90	66.29
90-100	31.09
100-110	23.35
110-120	19.60
120-130	15.20
130-140	10.56
140-150	6.32
150-160	2.94
160-170	0.86
170-180	0.12



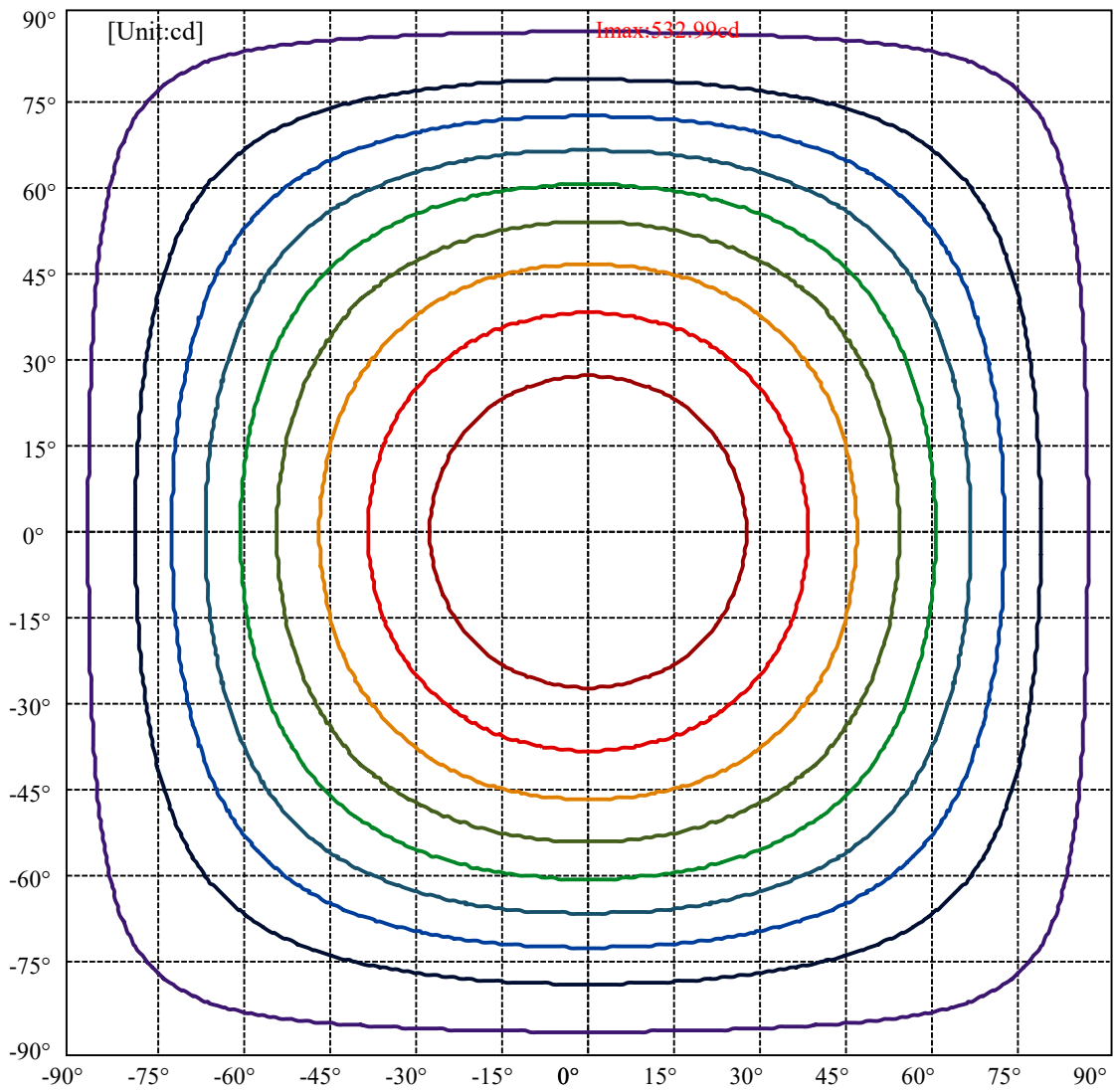
C0(Max): ———  
 C0/C180: ———  
 C90/C270: ———

Field angle(10%Imax):C0/180Left:86.1 Right:86.1  
 :C90/270Left:86.1 Right:86.1

Beam Angle(50%Imax):C0/180Left:59.9 Right:59.9  
 :C90/270Left:60.0 Right:60.0



Max , Ave      Beam angle of C0 plane 119.89

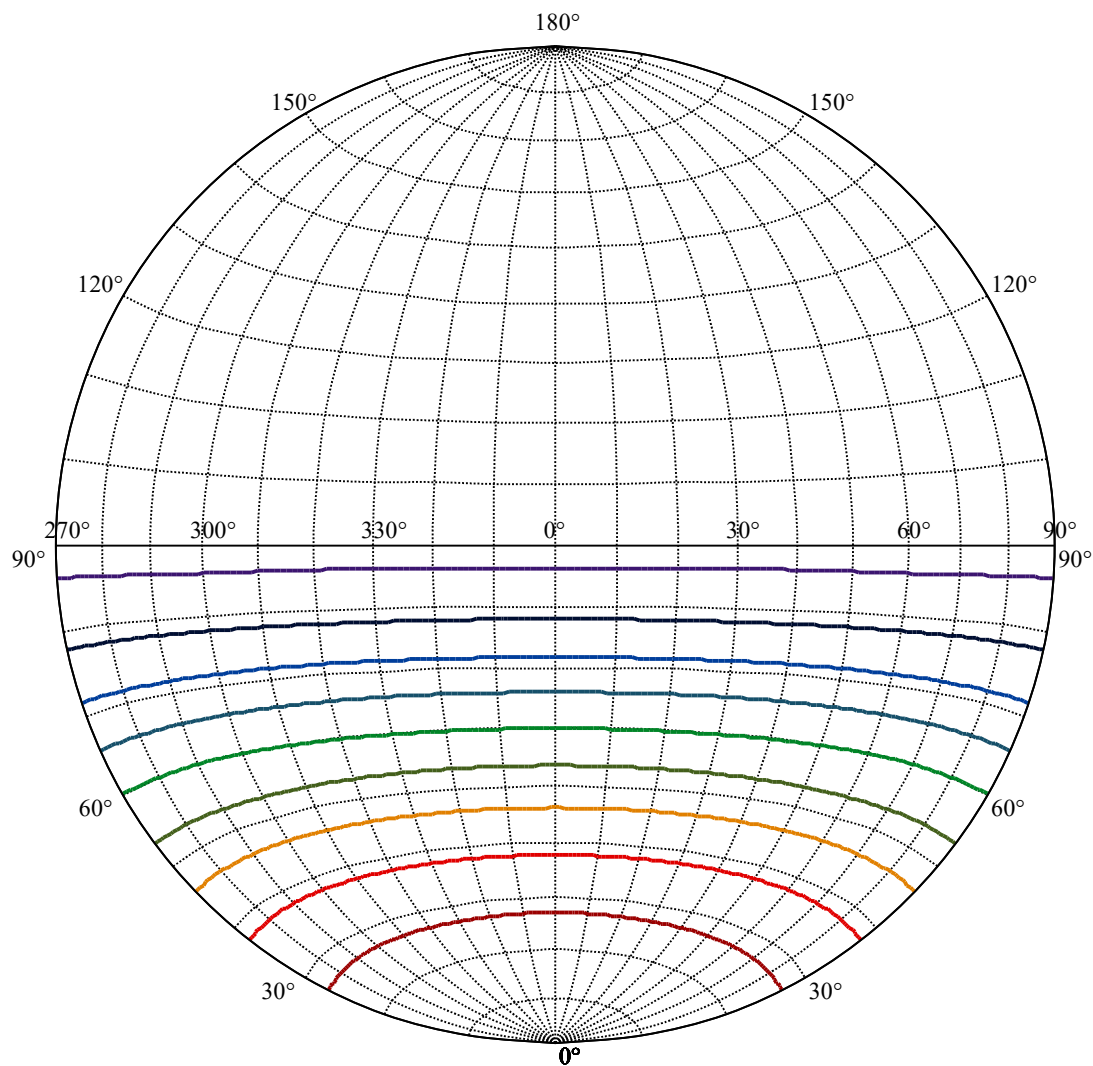


(10%I <sub>max</sub> ) 53.2903	—
(20%I <sub>max</sub> ) 106.581	—
(30%I <sub>max</sub> ) 159.871	—
(40%I <sub>max</sub> ) 213.161	—
(50%I <sub>max</sub> ) 266.452	—
(60%I <sub>max</sub> ) 319.742	—
(70%I <sub>max</sub> ) 373.032	—
(80%I <sub>max</sub> ) 426.322	—
(90%I <sub>max</sub> ) 479.613	—

Equipment: GMS-1800  
Temperature(°C): 25.0

Date:  
Humidity(%): 59.0%

Operator: LSC



House

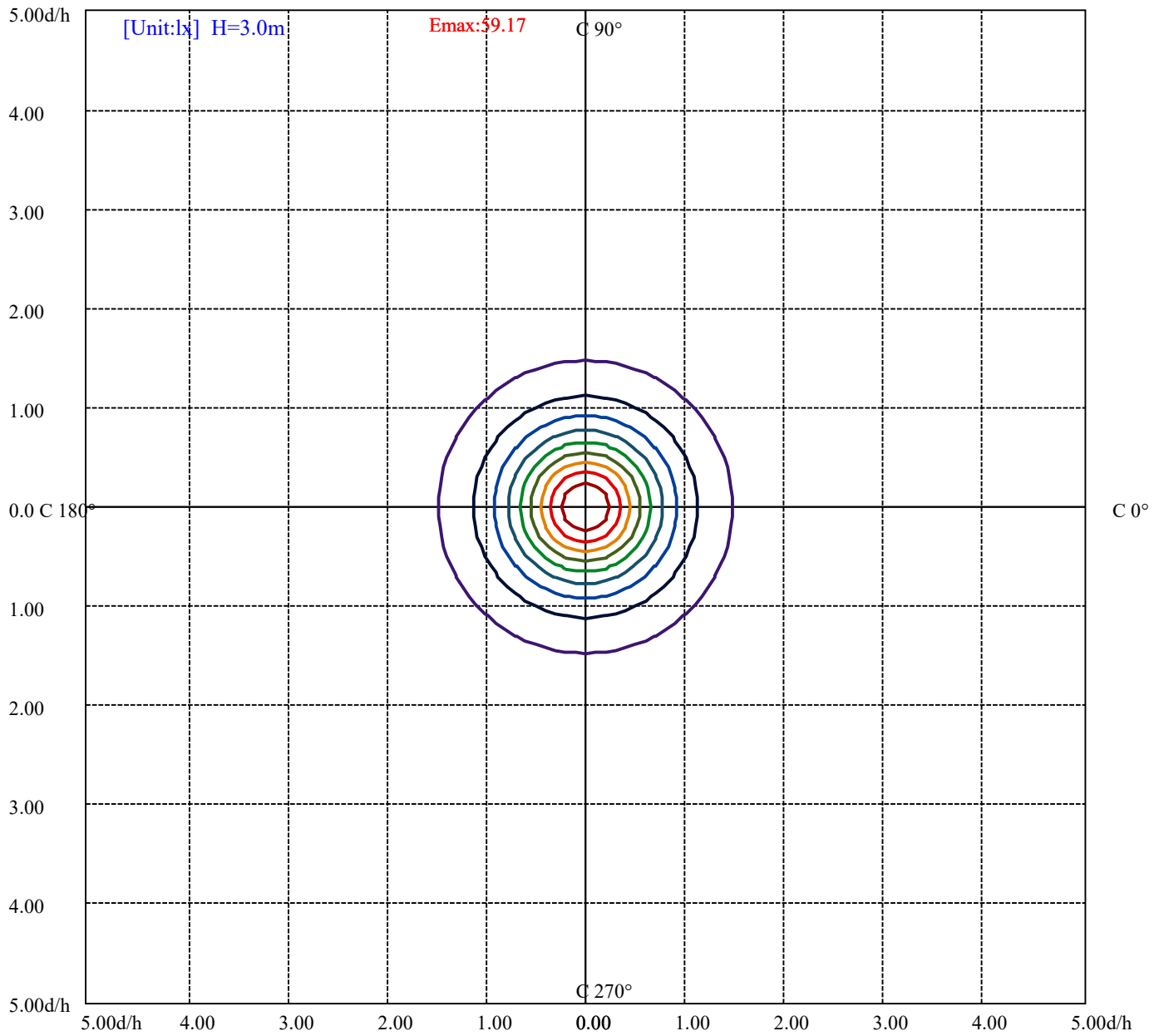
[Unit:cd]

Road

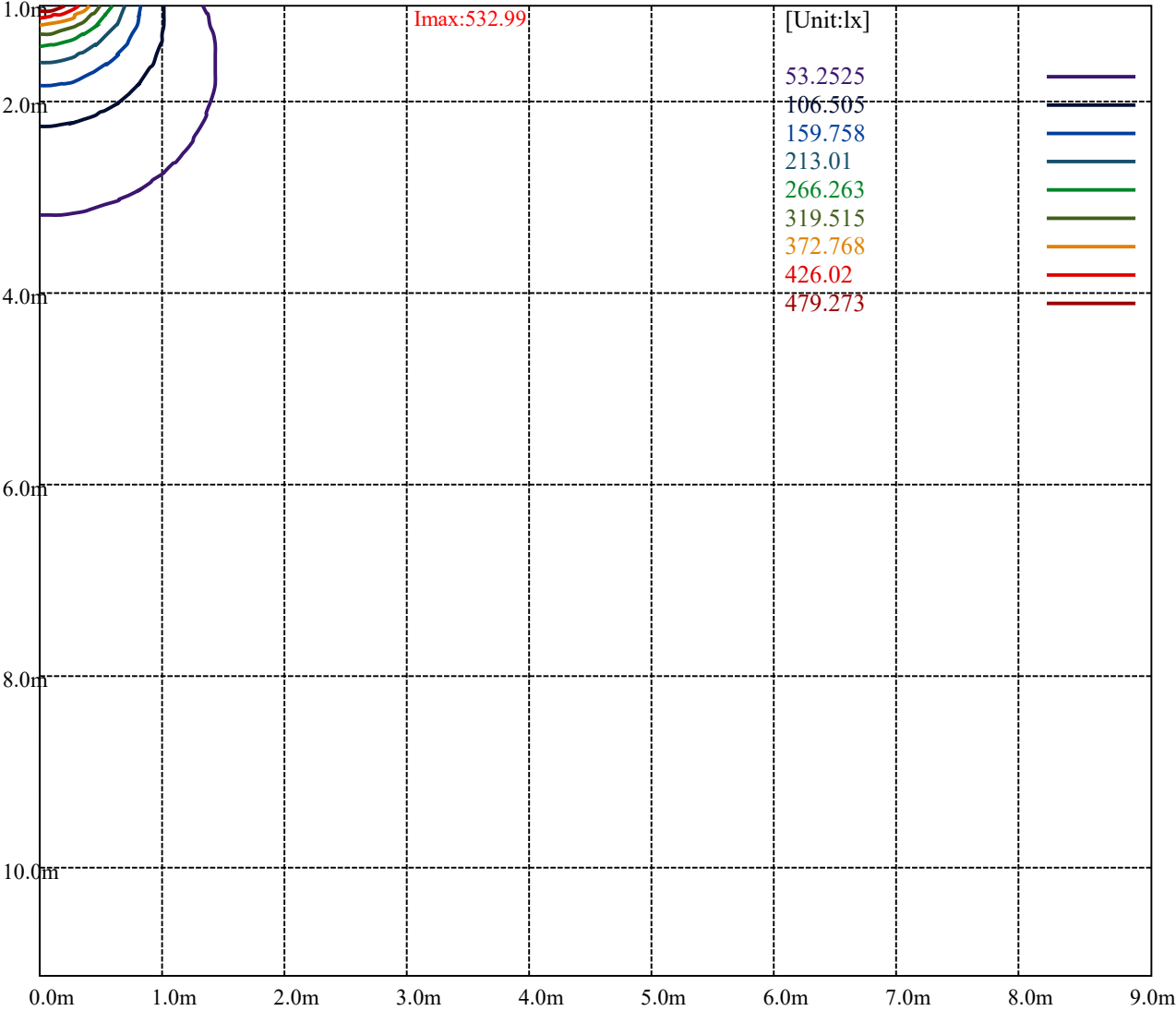
**Imax:532.99**

- (10%Imax) 53.2903
- (20%Imax) 106.581
- (30%Imax) 159.871
- (40%Imax) 213.161
- (50%Imax) 266.452
- (60%Imax) 319.742
- (70%Imax) 373.032
- (80%Imax) 426.322
- (90%Imax) 479.613





(10%Emax) 5.916945	—
(20%Emax) 11.83389	—
(30%Emax) 17.75089	—
(40%Emax) 23.66778	—
(50%Emax) 29.58478	—
(60%Emax) 35.50167	—
(70%Emax) 41.41867	—
(80%Emax) 47.33556	—
(90%Emax) 53.25256	—



## Intensity data(cd)

C/ $\gamma$ (°)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
0.0	532.53	532.69	532.90	532.99	532.84	532.71	532.54	532.29	531.94
30.0	532.53	532.62	532.75	532.77	532.67	532.53	532.32	532.07	531.82
60.0	532.53	532.58	532.75	532.77	532.57	532.50	532.38	532.27	531.91
90.0	532.53	532.60	532.72	532.52	532.25	532.21	531.86	531.82	531.39
120.0	532.53	532.58	532.75	532.77	532.57	532.50	532.38	532.27	531.91
150.0	532.53	532.62	532.75	532.77	532.67	532.53	532.32	532.07	531.82
180.0	532.53	532.69	532.90	532.99	532.84	532.71	532.54	532.29	531.94
210.0	532.53	532.62	532.75	532.77	532.67	532.53	532.32	532.07	531.82
240.0	532.53	532.58	532.75	532.77	532.57	532.50	532.38	532.27	531.91
270.0	532.53	532.60	532.72	532.52	532.25	532.21	531.86	531.82	531.39
300.0	532.53	532.58	532.75	532.77	532.57	532.50	532.38	532.27	531.91
330.0	532.53	532.62	532.75	532.77	532.67	532.53	532.32	532.07	531.82
360.0	532.53	532.69	532.90	532.99	532.84	532.71	532.54	532.29	531.94
C/ $\gamma$ (°)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
0.0	531.62	531.31	531.07	530.82	530.33	529.83	529.30	528.97	528.40
30.0	531.54	531.20	530.82	530.48	530.14	529.70	529.28	528.86	528.23
60.0	531.67	531.35	530.95	530.61	530.05	529.78	529.21	528.94	528.23
90.0	531.12	530.72	530.53	530.15	529.81	529.32	528.39	528.38	527.55
120.0	531.67	531.35	530.95	530.61	530.05	529.78	529.21	528.94	528.23
150.0	531.54	531.20	530.82	530.48	530.14	529.70	529.28	528.86	528.23
180.0	531.62	531.31	531.07	530.82	530.33	529.83	529.30	528.97	528.40
210.0	531.54	531.20	530.82	530.48	530.14	529.70	529.28	528.86	528.23
240.0	531.67	531.35	530.95	530.61	530.05	529.78	529.21	528.94	528.23
270.0	531.12	530.72	530.53	530.15	529.81	529.32	528.39	528.38	527.55
300.0	531.67	531.35	530.95	530.61	530.05	529.78	529.21	528.94	528.23
330.0	531.54	531.20	530.82	530.48	530.14	529.70	529.28	528.86	528.23
360.0	531.62	531.31	531.07	530.82	530.33	529.83	529.30	528.97	528.40
C/ $\gamma$ (°)	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
0.0	527.80	527.06	526.46	525.79	525.10	524.34	523.37	522.52	521.58
30.0	527.56	526.98	526.21	525.38	524.67	523.98	523.19	522.32	521.31
60.0	527.70	526.90	526.22	525.64	524.74	524.10	523.01	522.52	521.40
90.0	527.01	526.32	525.88	524.98	524.40	523.60	522.12	522.10	520.36
120.0	527.70	526.90	526.22	525.64	524.74	524.10	523.01	522.52	521.40
150.0	527.56	526.98	526.21	525.38	524.67	523.98	523.19	522.32	521.31
180.0	527.80	527.06	526.46	525.79	525.10	524.34	523.37	522.52	521.58
210.0	527.56	526.98	526.21	525.38	524.67	523.98	523.19	522.32	521.31
240.0	527.70	526.90	526.22	525.64	524.74	524.10	523.01	522.52	521.40
270.0	527.01	526.32	525.88	524.98	524.40	523.60	522.12	522.10	520.36
300.0	527.70	526.90	526.22	525.64	524.74	524.10	523.01	522.52	521.40
330.0	527.56	526.98	526.21	525.38	524.67	523.98	523.19	522.32	521.31
360.0	527.80	527.06	526.46	525.79	525.10	524.34	523.37	522.52	521.58
C/ $\gamma$ (°)	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5
0.0	520.68	519.60	518.73	517.43	516.26	515.24	514.51	513.43	511.93
30.0	520.34	519.57	518.80	517.70	516.29	514.98	513.85	512.60	511.30
60.0	520.86	519.58	518.75	517.49	516.35	515.21	513.87	512.86	511.14
90.0	520.34	518.59	517.78	516.69	515.85	514.64	513.66	512.46	510.16
120.0	520.86	519.58	518.75	517.49	516.35	515.21	513.87	512.86	511.14
150.0	520.34	519.57	518.80	517.70	516.29	514.98	513.85	512.60	511.30
180.0	520.68	519.60	518.73	517.43	516.26	515.24	514.51	513.43	511.93
210.0	520.34	519.57	518.80	517.70	516.29	514.98	513.85	512.60	511.30
240.0	520.86	519.58	518.75	517.49	516.35	515.21	513.87	512.86	511.14
270.0	520.34	518.59	517.78	516.69	515.85	514.64	513.66	512.46	510.16
300.0	520.86	519.58	518.75	517.49	516.35	515.21	513.87	512.86	511.14
330.0	520.34	519.57	518.80	517.70	516.29	514.98	513.85	512.60	511.30
360.0	520.68	519.60	518.73	517.43	516.26	515.24	514.51	513.43	511.93

## Intensity data(cd)

Appendix Page: 20 Total:29

C/γ(°)	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0
0.0	510.58	509.12	507.76	506.10	504.73	503.30	501.89	500.45	498.52
30.0	510.14	508.78	507.38	506.02	504.54	503.02	501.40	499.73	498.20
60.0	510.40	508.70	507.92	506.07	504.80	503.06	501.55	500.03	498.19
90.0	510.15	507.71	506.68	505.00	503.78	502.28	500.92	499.31	498.05
120.0	510.40	508.70	507.92	506.07	504.80	503.06	501.55	500.03	498.19
150.0	510.14	508.78	507.38	506.02	504.54	503.02	501.40	499.73	498.20
180.0	510.58	509.12	507.76	506.10	504.73	503.30	501.89	500.45	498.52
210.0	510.14	508.78	507.38	506.02	504.54	503.02	501.40	499.73	498.20
240.0	510.40	508.70	507.92	506.07	504.80	503.06	501.55	500.03	498.19
270.0	510.15	507.71	506.68	505.00	503.78	502.28	500.92	499.31	498.05
300.0	510.40	508.70	507.92	506.07	504.80	503.06	501.55	500.03	498.19
330.0	510.14	508.78	507.38	506.02	504.54	503.02	501.40	499.73	498.20
360.0	510.58	509.12	507.76	506.10	504.73	503.30	501.89	500.45	498.52
C/γ(°)	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5
0.0	496.38	494.37	493.25	492.24	490.55	488.20	485.96	484.20	482.43
30.0	496.55	494.85	493.30	491.48	489.59	487.81	485.60	483.34	481.49
60.0	496.83	494.56	493.56	491.09	489.59	487.44	485.54	483.65	481.35
90.0	496.44	493.33	493.31	490.06	488.44	486.53	485.02	483.01	481.35
120.0	496.83	494.56	493.56	491.09	489.59	487.44	485.54	483.65	481.35
150.0	496.55	494.85	493.30	491.48	489.59	487.81	485.60	483.34	481.49
180.0	496.38	494.37	493.25	492.24	490.55	488.20	485.96	484.20	482.43
210.0	496.55	494.85	493.30	491.48	489.59	487.81	485.60	483.34	481.49
240.0	496.83	494.56	493.56	491.09	489.59	487.44	485.54	483.65	481.35
270.0	496.44	493.33	493.31	490.06	488.44	486.53	485.02	483.01	481.35
300.0	496.83	494.56	493.56	491.09	489.59	487.44	485.54	483.65	481.35
330.0	496.55	494.85	493.30	491.48	489.59	487.81	485.60	483.34	481.49
360.0	496.38	494.37	493.25	492.24	490.55	488.20	485.96	484.20	482.43
C/γ(°)	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0
0.0	480.58	478.71	476.81	474.25	471.43	468.82	466.82	464.70	462.52
30.0	479.75	477.86	475.69	473.18	470.94	468.89	466.86	464.71	462.09
60.0	479.71	476.90	475.71	473.05	471.82	468.93	467.07	464.38	461.99
90.0	479.34	475.55	475.54	473.54	471.60	467.67	465.64	463.45	461.41
120.0	479.71	476.90	475.71	473.05	471.82	468.93	467.07	464.38	461.99
150.0	479.75	477.86	475.69	473.18	470.94	468.89	466.86	464.71	462.09
180.0	480.58	478.71	476.81	474.25	471.43	468.82	466.82	464.70	462.52
210.0	479.75	477.86	475.69	473.18	470.94	468.89	466.86	464.71	462.09
240.0	479.71	476.90	475.71	473.05	471.82	468.93	467.07	464.38	461.99
270.0	479.34	475.55	475.54	473.54	471.60	467.67	465.64	463.45	461.41
300.0	479.71	476.90	475.71	473.05	471.82	468.93	467.07	464.38	461.99
330.0	479.75	477.86	475.69	473.18	470.94	468.89	466.86	464.71	462.09
360.0	480.58	478.71	476.81	474.25	471.43	468.82	466.82	464.70	462.52
C/γ(°)	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5
0.0	460.31	458.13	455.90	452.96	450.41	447.65	445.05	441.94	439.48
30.0	459.43	457.18	454.71	452.17	449.83	447.14	444.47	442.02	439.35
60.0	459.61	456.86	454.91	451.56	450.14	446.93	445.44	441.90	439.74
90.0	459.11	457.04	454.63	450.02	450.01	445.40	443.33	440.65	438.22
120.0	459.61	456.86	454.91	451.56	450.14	446.93	445.44	441.90	439.74
150.0	459.43	457.18	454.71	452.17	449.83	447.14	444.47	442.02	439.35
180.0	460.31	458.13	455.90	452.96	450.41	447.65	445.05	441.94	439.48
210.0	459.43	457.18	454.71	452.17	449.83	447.14	444.47	442.02	439.35
240.0	459.61	456.86	454.91	451.56	450.14	446.93	445.44	441.90	439.74
270.0	459.11	457.04	454.63	450.02	450.01	445.40	443.33	440.65	438.22
300.0	459.61	456.86	454.91	451.56	450.14	446.93	445.44	441.90	439.74
330.0	459.43	457.18	454.71	452.17	449.83	447.14	444.47	442.02	439.35
360.0	460.31	458.13	455.90	452.96	450.41	447.65	445.05	441.94	439.48

## Intensity data(cd)

C/γ(°)	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
0.0	437.01	434.55	431.99	428.61	425.66	422.50	419.59	416.13	413.42
30.0	436.57	433.71	430.92	428.30	425.40	422.43	419.70	416.61	413.58
60.0	436.47	433.03	430.78	427.11	425.46	421.74	420.08	416.32	414.61
90.0	435.63	433.29	430.47	428.04	425.44	420.16	420.15	414.72	412.25
120.0	436.47	433.03	430.78	427.11	425.46	421.74	420.08	416.32	414.61
150.0	436.57	433.71	430.92	428.30	425.40	422.43	419.70	416.61	413.58
180.0	437.01	434.55	431.99	428.61	425.66	422.50	419.59	416.13	413.42
210.0	436.57	433.71	430.92	428.30	425.40	422.43	419.70	416.61	413.58
240.0	436.47	433.03	430.78	427.11	425.46	421.74	420.08	416.32	414.61
270.0	435.63	433.29	430.47	428.04	425.44	420.16	420.15	414.72	412.25
300.0	436.47	433.03	430.78	427.11	425.46	421.74	420.08	416.32	414.61
330.0	436.57	433.71	430.92	428.30	425.40	422.43	419.70	416.61	413.58
360.0	437.01	434.55	431.99	428.61	425.66	422.50	419.59	416.13	413.42
C/γ(°)	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5
0.0	410.63	407.85	404.97	402.11	399.18	395.41	392.16	388.51	385.10
30.0	410.74	407.25	403.79	400.89	398.06	395.07	391.77	388.00	384.63
60.0	410.45	407.17	404.15	400.55	397.96	393.61	391.77	387.63	385.75
90.0	409.29	406.57	403.46	400.85	397.75	391.92	391.91	385.82	385.81
120.0	410.45	407.17	404.15	400.55	397.96	393.61	391.77	387.63	385.75
150.0	410.74	407.25	403.79	400.89	398.06	395.07	391.77	388.00	384.63
180.0	410.63	407.85	404.97	402.11	399.18	395.41	392.16	388.51	385.10
210.0	410.74	407.25	403.79	400.89	398.06	395.07	391.77	388.00	384.63
240.0	410.45	407.17	404.15	400.55	397.96	393.61	391.77	387.63	385.75
270.0	409.29	406.57	403.46	400.85	397.75	391.92	391.91	385.82	385.81
300.0	410.45	407.17	404.15	400.55	397.96	393.61	391.77	387.63	385.75
330.0	410.74	407.25	403.79	400.89	398.06	395.07	391.77	388.00	384.63
360.0	410.63	407.85	404.97	402.11	399.18	395.41	392.16	388.51	385.10
C/γ(°)	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0
0.0	381.09	377.99	374.88	371.75	367.99	364.09	361.29	358.41	354.74
30.0	381.49	378.41	375.16	371.22	366.86	363.20	359.95	356.69	353.36
60.0	381.19	378.39	374.56	371.07	367.65	363.50	360.62	355.83	353.78
90.0	379.70	376.72	373.46	370.33	367.08	363.93	360.56	354.05	354.04
120.0	381.19	378.39	374.56	371.07	367.65	363.50	360.62	355.83	353.78
150.0	381.49	378.41	375.16	371.22	366.86	363.20	359.95	356.69	353.36
180.0	381.09	377.99	374.88	371.75	367.99	364.09	361.29	358.41	354.74
210.0	381.49	378.41	375.16	371.22	366.86	363.20	359.95	356.69	353.36
240.0	381.19	378.39	374.56	371.07	367.65	363.50	360.62	355.83	353.78
270.0	379.70	376.72	373.46	370.33	367.08	363.93	360.56	354.05	354.04
300.0	381.19	378.39	374.56	371.07	367.65	363.50	360.62	355.83	353.78
330.0	381.49	378.41	375.16	371.22	366.86	363.20	359.95	356.69	353.36
360.0	381.09	377.99	374.88	371.75	367.99	364.09	361.29	358.41	354.74
C/γ(°)	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5
0.0	350.45	346.06	342.37	338.24	335.44	331.28	328.43	324.18	321.24
30.0	349.59	345.83	342.33	338.52	334.62	330.65	326.75	323.61	320.05
60.0	349.12	347.00	342.08	339.01	334.42	329.73	326.58	321.43	319.22
90.0	347.39	344.26	340.60	337.22	333.55	330.27	326.62	323.08	319.43
120.0	349.12	347.00	342.08	339.01	334.42	329.73	326.58	321.43	319.22
150.0	349.59	345.83	342.33	338.52	334.62	330.65	326.75	323.61	320.05
180.0	350.45	346.06	342.37	338.24	335.44	331.28	328.43	324.18	321.24
210.0	349.59	345.83	342.33	338.52	334.62	330.65	326.75	323.61	320.05
240.0	349.12	347.00	342.08	339.01	334.42	329.73	326.58	321.43	319.22
270.0	347.39	344.26	340.60	337.22	333.55	330.27	326.62	323.08	319.43
300.0	349.12	347.00	342.08	339.01	334.42	329.73	326.58	321.43	319.22
330.0	349.59	345.83	342.33	338.52	334.62	330.65	326.75	323.61	320.05
360.0	350.45	346.06	342.37	338.24	335.44	331.28	328.43	324.18	321.24

## Intensity data(cd)

C/ $\gamma$ (°)	54.0	54.5	55.0	55.5	56.0	56.5	57.0	57.5	58.0
0.0	316.94	311.88	306.83	302.33	299.27	294.78	291.76	287.27	283.06
30.0	315.60	311.45	307.30	303.21	299.39	294.74	290.10	286.23	282.49
60.0	314.19	311.94	306.53	303.21	298.56	294.45	290.46	285.72	282.31
90.0	312.24	312.23	304.91	301.25	297.44	293.90	289.97	286.42	282.50
120.0	314.19	311.94	306.53	303.21	298.56	294.45	290.46	285.72	282.31
150.0	315.60	311.45	307.30	303.21	299.39	294.74	290.10	286.23	282.49
180.0	316.94	311.88	306.83	302.33	299.27	294.78	291.76	287.27	283.06
210.0	315.60	311.45	307.30	303.21	299.39	294.74	290.10	286.23	282.49
240.0	314.19	311.94	306.53	303.21	298.56	294.45	290.46	285.72	282.31
270.0	312.24	312.23	304.91	301.25	297.44	293.90	289.97	286.42	282.50
300.0	314.19	311.94	306.53	303.21	298.56	294.45	290.46	285.72	282.31
330.0	315.60	311.45	307.30	303.21	299.39	294.74	290.10	286.23	282.49
360.0	316.94	311.88	306.83	302.33	299.27	294.78	291.76	287.27	283.06
C/ $\gamma$ (°)	58.5	59.0	59.5	60.0	60.5	61.0	61.5	62.0	62.5
0.0	278.11	274.19	270.28	265.22	260.94	256.24	253.06	249.46	246.57
30.0	278.58	274.29	269.42	265.08	261.06	256.68	252.22	247.71	243.23
60.0	276.67	274.28	268.87	266.47	260.77	257.26	252.20	247.86	243.55
90.0	274.77	274.76	266.90	266.89	259.03	255.36	251.15	247.21	243.14
120.0	276.67	274.28	268.87	266.47	260.77	257.26	252.20	247.86	243.55
150.0	278.58	274.29	269.42	265.08	261.06	256.68	252.22	247.71	243.23
180.0	278.11	274.19	270.28	265.22	260.94	256.24	253.06	249.46	246.57
210.0	278.58	274.29	269.42	265.08	261.06	256.68	252.22	247.71	243.23
240.0	276.67	274.28	268.87	266.47	260.77	257.26	252.20	247.86	243.55
270.0	274.77	274.76	266.90	266.89	259.03	255.36	251.15	247.21	243.14
300.0	276.67	274.28	268.87	266.47	260.77	257.26	252.20	247.86	243.55
330.0	278.58	274.29	269.42	265.08	261.06	256.68	252.22	247.71	243.23
360.0	278.11	274.19	270.28	265.22	260.94	256.24	253.06	249.46	246.57
C/ $\gamma$ (°)	63.0	63.5	64.0	64.5	65.0	65.5	66.0	66.5	67.0
0.0	241.32	235.63	230.37	226.23	222.13	216.81	212.33	207.34	203.95
30.0	239.07	234.54	229.95	225.88	221.81	217.69	213.01	207.86	203.13
60.0	238.45	234.81	228.77	226.25	220.59	218.03	211.71	206.89	202.42
90.0	239.19	234.99	226.98	226.98	218.83	214.92	210.55	206.47	198.22
120.0	238.45	234.81	228.77	226.25	220.59	218.03	211.71	206.89	202.42
150.0	239.07	234.54	229.95	225.88	221.81	217.69	213.01	207.86	203.13
180.0	241.32	235.63	230.37	226.23	222.13	216.81	212.33	207.34	203.95
210.0	239.07	234.54	229.95	225.88	221.81	217.69	213.01	207.86	203.13
240.0	238.45	234.81	228.77	226.25	220.59	218.03	211.71	206.89	202.42
270.0	239.19	234.99	226.98	226.98	218.83	214.92	210.55	206.47	198.22
300.0	238.45	234.81	228.77	226.25	220.59	218.03	211.71	206.89	202.42
330.0	239.07	234.54	229.95	225.88	221.81	217.69	213.01	207.86	203.13
360.0	241.32	235.63	230.37	226.23	222.13	216.81	212.33	207.34	203.95
C/ $\gamma$ (°)	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5
0.0	198.97	195.63	190.65	185.99	180.55	175.14	170.56	165.54	162.15
30.0	198.41	193.82	189.60	185.00	180.33	176.15	171.44	166.81	162.58
60.0	197.20	193.48	187.38	184.77	178.97	176.41	170.31	166.64	161.41
90.0	198.06	193.86	189.62	185.57	177.29	177.29	168.87	164.81	160.72
120.0	197.20	193.48	187.38	184.77	178.97	176.41	170.31	166.64	161.41
150.0	198.41	193.82	189.60	185.00	180.33	176.15	171.44	166.81	162.58
180.0	198.97	195.63	190.65	185.99	180.55	175.14	170.56	165.54	162.15
210.0	198.41	193.82	189.60	185.00	180.33	176.15	171.44	166.81	162.58
240.0	197.20	193.48	187.38	184.77	178.97	176.41	170.31	166.64	161.41
270.0	198.06	193.86	189.62	185.57	177.29	177.29	168.87	164.81	160.72
300.0	197.20	193.48	187.38	184.77	178.97	176.41	170.31	166.64	161.41
330.0	198.41	193.82	189.60	185.00	180.33	176.15	171.44	166.81	162.58
360.0	198.97	195.63	190.65	185.99	180.55	175.14	170.56	165.54	162.15

## Intensity data(cd)

C/ $\gamma$ (°)	72.0	72.5	73.0	73.5	74.0	74.5	75.0	75.5	76.0
0.0	157.21	153.93	149.06	144.64	139.44	135.37	131.29	126.17	121.91
30.0	157.52	152.49	148.32	144.33	140.21	135.77	130.81	126.47	122.53
60.0	156.92	152.15	145.94	143.40	137.75	135.28	129.78	127.36	121.68
90.0	156.52	152.44	148.23	144.43	136.29	136.28	128.41	128.41	120.67
120.0	156.92	152.15	145.94	143.40	137.75	135.28	129.78	127.36	121.68
150.0	157.52	152.49	148.32	144.33	140.21	135.77	130.81	126.47	122.53
180.0	157.21	153.93	149.06	144.64	139.44	135.37	131.29	126.17	121.91
210.0	157.52	152.49	148.32	144.33	140.21	135.77	130.81	126.47	122.53
240.0	156.92	152.15	145.94	143.40	137.75	135.28	129.78	127.36	121.68
270.0	156.52	152.44	148.23	144.43	136.29	136.28	128.41	128.41	120.67
300.0	156.92	152.15	145.94	143.40	137.75	135.28	129.78	127.36	121.68
330.0	157.52	152.49	148.32	144.33	140.21	135.77	130.81	126.47	122.53
360.0	157.21	153.93	149.06	144.64	139.44	135.37	131.29	126.17	121.91
C/ $\gamma$ (°)	76.5	77.0	77.5	78.0	78.5	79.0	79.5	80.0	80.5
0.0	117.33	114.27	109.81	106.86	102.52	98.65	94.15	90.80	87.47
30.0	118.81	114.98	110.39	105.88	102.23	98.31	94.39	91.03	87.40
60.0	118.57	114.75	109.79	105.50	101.00	97.81	92.77	90.71	85.92
90.0	116.75	113.20	109.27	105.87	102.08	98.93	92.02	92.01	85.63
120.0	118.57	114.75	109.79	105.50	101.00	97.81	92.77	90.71	85.92
150.0	118.81	114.98	110.39	105.88	102.23	98.31	94.39	91.03	87.40
180.0	117.33	114.27	109.81	106.86	102.52	98.65	94.15	90.80	87.47
210.0	118.81	114.98	110.39	105.88	102.23	98.31	94.39	91.03	87.40
240.0	118.57	114.75	109.79	105.50	101.00	97.81	92.77	90.71	85.92
270.0	116.75	113.20	109.27	105.87	102.08	98.93	92.02	92.01	85.63
300.0	118.57	114.75	109.79	105.50	101.00	97.81	92.77	90.71	85.92
330.0	118.81	114.98	110.39	105.88	102.23	98.31	94.39	91.03	87.40
360.0	117.33	114.27	109.81	106.86	102.52	98.65	94.15	90.80	87.47
C/ $\gamma$ (°)	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5	85.0
0.0	83.30	79.77	76.19	73.93	70.61	68.36	65.13	62.40	59.22
30.0	83.89	80.32	76.60	73.92	71.46	68.23	65.24	62.39	59.59
60.0	83.12	79.23	76.16	72.90	69.28	66.79	63.06	61.52	58.09
90.0	81.99	79.25	76.01	73.42	70.30	66.79	63.73	63.73	58.85
120.0	83.12	79.23	76.16	72.90	69.28	66.79	63.06	61.52	58.09
150.0	83.89	80.32	76.60	73.92	71.46	68.23	65.24	62.39	59.59
180.0	83.30	79.77	76.19	73.93	70.61	68.36	65.13	62.40	59.22
210.0	83.89	80.32	76.60	73.92	71.46	68.23	65.24	62.39	59.59
240.0	83.12	79.23	76.16	72.90	69.28	66.79	63.06	61.52	58.09
270.0	81.99	79.25	76.01	73.42	70.30	66.79	63.73	63.73	58.85
300.0	83.12	79.23	76.16	72.90	69.28	66.79	63.06	61.52	58.09
330.0	83.89	80.32	76.60	73.92	71.46	68.23	65.24	62.39	59.59
360.0	83.30	79.77	76.19	73.93	70.61	68.36	65.13	62.40	59.22
C/ $\gamma$ (°)	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5
0.0	56.24	53.73	51.20	49.56	47.21	45.68	43.57	41.83	39.81
30.0	57.27	54.80	52.44	50.35	47.96	45.65	43.85	41.81	39.65
60.0	56.62	53.38	51.53	48.99	46.99	44.88	42.68	41.17	38.86
90.0	57.01	54.24	50.11	50.04	46.17	46.10	42.64	42.57	39.45
120.0	56.62	53.38	51.53	48.99	46.99	44.88	42.68	41.17	38.86
150.0	57.27	54.80	52.44	50.35	47.96	45.65	43.85	41.81	39.65
180.0	56.24	53.73	51.20	49.56	47.21	45.68	43.57	41.83	39.81
210.0	57.27	54.80	52.44	50.35	47.96	45.65	43.85	41.81	39.65
240.0	56.62	53.38	51.53	48.99	46.99	44.88	42.68	41.17	38.86
270.0	57.01	54.24	50.11	50.04	46.17	46.10	42.64	42.57	39.45
300.0	56.62	53.38	51.53	48.99	46.99	44.88	42.68	41.17	38.86
330.0	57.27	54.80	52.44	50.35	47.96	45.65	43.85	41.81	39.65
360.0	56.24	53.73	51.20	49.56	47.21	45.68	43.57	41.83	39.81

## Intensity data(cd)

C/γ(°)	90.0	90.5	91.0	91.5	92.0	92.5	93.0	93.5	94.0
0.0	38.41	37.02	35.37	33.98	32.71	31.94	30.84	30.14	29.16
30.0	38.10	36.95	35.89	34.78	33.57	32.43	31.25	30.17	29.32
60.0	37.95	36.02	35.23	33.58	32.79	30.92	30.07	29.16	28.29
90.0	38.40	36.61	35.69	34.04	31.81	31.73	29.87	29.84	28.37
120.0	37.95	36.02	35.23	33.58	32.79	30.92	30.07	29.16	28.29
150.0	38.10	36.95	35.89	34.78	33.57	32.43	31.25	30.17	29.32
180.0	38.41	37.02	35.37	33.98	32.71	31.94	30.84	30.14	29.16
210.0	38.10	36.95	35.89	34.78	33.57	32.43	31.25	30.17	29.32
240.0	37.95	36.02	35.23	33.58	32.79	30.92	30.07	29.16	28.29
270.0	38.40	36.61	35.69	34.04	31.81	31.73	29.87	29.84	28.37
300.0	37.95	36.02	35.23	33.58	32.79	30.92	30.07	29.16	28.29
330.0	38.10	36.95	35.89	34.78	33.57	32.43	31.25	30.17	29.32
360.0	38.41	37.02	35.37	33.98	32.71	31.94	30.84	30.14	29.16
C/γ(°)	94.5	95.0	95.5	96.0	96.5	97.0	97.5	98.0	98.5
0.0	28.43	27.57	27.04	26.48	25.88	25.36	24.96	24.74	24.41
30.0	28.50	27.71	27.07	26.47	26.00	25.57	25.11	24.72	24.40
60.0	27.55	26.82	26.22	25.49	25.04	24.63	24.33	23.89	23.62
90.0	27.81	26.87	26.59	25.64	24.71	24.70	24.03	24.02	23.49
120.0	27.55	26.82	26.22	25.49	25.04	24.63	24.33	23.89	23.62
150.0	28.50	27.71	27.07	26.47	26.00	25.57	25.11	24.72	24.40
180.0	28.43	27.57	27.04	26.48	25.88	25.36	24.96	24.74	24.41
210.0	28.50	27.71	27.07	26.47	26.00	25.57	25.11	24.72	24.40
240.0	27.55	26.82	26.22	25.49	25.04	24.63	24.33	23.89	23.62
270.0	27.81	26.87	26.59	25.64	24.71	24.70	24.03	24.02	23.49
300.0	27.55	26.82	26.22	25.49	25.04	24.63	24.33	23.89	23.62
330.0	28.50	27.71	27.07	26.47	26.00	25.57	25.11	24.72	24.40
360.0	28.43	27.57	27.04	26.48	25.88	25.36	24.96	24.74	24.41
C/γ(°)	99.0	99.5	100.0	100.5	101.0	101.5	102.0	102.5	103.0
0.0	24.19	23.94	23.79	23.62	23.44	23.29	23.17	23.11	23.03
30.0	24.11	23.86	23.68	23.49	23.31	23.14	23.00	22.87	22.73
60.0	23.36	23.12	22.99	22.78	22.67	22.54	22.41	22.32	22.20
90.0	23.48	22.94	22.94	22.67	22.53	22.27	22.00	22.00	21.87
120.0	23.36	23.12	22.99	22.78	22.67	22.54	22.41	22.32	22.20
150.0	24.11	23.86	23.68	23.49	23.31	23.14	23.00	22.87	22.73
180.0	24.19	23.94	23.79	23.62	23.44	23.29	23.17	23.11	23.03
210.0	24.11	23.86	23.68	23.49	23.31	23.14	23.00	22.87	22.73
240.0	23.36	23.12	22.99	22.78	22.67	22.54	22.41	22.32	22.20
270.0	23.48	22.94	22.94	22.67	22.53	22.27	22.00	22.00	21.87
300.0	23.36	23.12	22.99	22.78	22.67	22.54	22.41	22.32	22.20
330.0	24.11	23.86	23.68	23.49	23.31	23.14	23.00	22.87	22.73
360.0	24.19	23.94	23.79	23.62	23.44	23.29	23.17	23.11	23.03
C/γ(°)	103.5	104.0	104.5	105.0	105.5	106.0	106.5	107.0	107.5
0.0	22.97	22.85	22.70	22.57	22.49	22.39	22.25	22.16	22.04
30.0	22.63	22.55	22.44	22.36	22.27	22.15	22.02	21.92	21.81
60.0	22.06	21.94	21.84	21.69	21.64	21.53	21.45	21.38	21.30
90.0	21.86	21.72	21.72	21.45	21.45	21.32	21.06	21.05	20.92
120.0	22.06	21.94	21.84	21.69	21.64	21.53	21.45	21.38	21.30
150.0	22.63	22.55	22.44	22.36	22.27	22.15	22.02	21.92	21.81
180.0	22.97	22.85	22.70	22.57	22.49	22.39	22.25	22.16	22.04
210.0	22.63	22.55	22.44	22.36	22.27	22.15	22.02	21.92	21.81
240.0	22.06	21.94	21.84	21.69	21.64	21.53	21.45	21.38	21.30
270.0	21.86	21.72	21.72	21.45	21.45	21.32	21.06	21.05	20.92
300.0	22.06	21.94	21.84	21.69	21.64	21.53	21.45	21.38	21.30
330.0	22.63	22.55	22.44	22.36	22.27	22.15	22.02	21.92	21.81
360.0	22.97	22.85	22.70	22.57	22.49	22.39	22.25	22.16	22.04

## Intensity data(cd)

C/γ(°)	108.0	108.5	109.0	109.5	110.0	110.5	111.0	111.5	112.0
0.0	21.93	21.81	21.75	21.63	21.52	21.40	21.30	21.16	20.99
30.0	21.68	21.56	21.48	21.37	21.23	21.11	21.02	20.90	20.76
60.0	21.13	21.04	20.92	20.84	20.75	20.59	20.49	20.37	20.23
90.0	20.91	20.78	20.77	20.51	20.38	20.37	20.24	20.10	19.83
120.0	21.13	21.04	20.92	20.84	20.75	20.59	20.49	20.37	20.23
150.0	21.68	21.56	21.48	21.37	21.23	21.11	21.02	20.90	20.76
180.0	21.93	21.81	21.75	21.63	21.52	21.40	21.30	21.16	20.99
210.0	21.68	21.56	21.48	21.37	21.23	21.11	21.02	20.90	20.76
240.0	21.13	21.04	20.92	20.84	20.75	20.59	20.49	20.37	20.23
270.0	20.91	20.78	20.77	20.51	20.38	20.37	20.24	20.10	19.83
300.0	21.13	21.04	20.92	20.84	20.75	20.59	20.49	20.37	20.23
330.0	21.68	21.56	21.48	21.37	21.23	21.11	21.02	20.90	20.76
360.0	21.93	21.81	21.75	21.63	21.52	21.40	21.30	21.16	20.99
C/γ(°)	112.5	113.0	113.5	114.0	114.5	115.0	115.5	116.0	116.5
0.0	20.84	20.72	20.66	20.54	20.39	20.22	20.08	19.99	19.86
30.0	20.63	20.49	20.39	20.29	20.16	20.01	19.87	19.73	19.63
60.0	20.10	19.96	19.82	19.69	19.56	19.44	19.39	19.24	19.14
90.0	19.83	19.56	19.56	19.42	19.42	19.15	19.15	19.01	18.88
120.0	20.10	19.96	19.82	19.69	19.56	19.44	19.39	19.24	19.14
150.0	20.63	20.49	20.39	20.29	20.16	20.01	19.87	19.73	19.63
180.0	20.84	20.72	20.66	20.54	20.39	20.22	20.08	19.99	19.86
210.0	20.63	20.49	20.39	20.29	20.16	20.01	19.87	19.73	19.63
240.0	20.10	19.96	19.82	19.69	19.56	19.44	19.39	19.24	19.14
270.0	19.83	19.56	19.56	19.42	19.42	19.15	19.15	19.01	18.88
300.0	20.10	19.96	19.82	19.69	19.56	19.44	19.39	19.24	19.14
330.0	20.63	20.49	20.39	20.29	20.16	20.01	19.87	19.73	19.63
360.0	20.84	20.72	20.66	20.54	20.39	20.22	20.08	19.99	19.86
C/γ(°)	117.0	117.5	118.0	118.5	119.0	119.5	120.0	120.5	121.0
0.0	19.75	19.59	19.49	19.32	19.21	19.05	18.90	18.72	18.59
30.0	19.53	19.41	19.27	19.10	18.94	18.79	18.65	18.49	18.36
60.0	19.01	18.87	18.75	18.65	18.48	18.33	18.19	18.01	17.91
90.0	18.74	18.48	18.47	18.34	18.33	18.07	18.06	17.66	17.53
120.0	19.01	18.87	18.75	18.65	18.48	18.33	18.19	18.01	17.91
150.0	19.53	19.41	19.27	19.10	18.94	18.79	18.65	18.49	18.36
180.0	19.75	19.59	19.49	19.32	19.21	19.05	18.90	18.72	18.59
210.0	19.53	19.41	19.27	19.10	18.94	18.79	18.65	18.49	18.36
240.0	19.01	18.87	18.75	18.65	18.48	18.33	18.19	18.01	17.91
270.0	18.74	18.48	18.47	18.34	18.33	18.07	18.06	17.66	17.53
300.0	19.01	18.87	18.75	18.65	18.48	18.33	18.19	18.01	17.91
330.0	19.53	19.41	19.27	19.10	18.94	18.79	18.65	18.49	18.36
360.0	19.75	19.59	19.49	19.32	19.21	19.05	18.90	18.72	18.59
C/γ(°)	121.5	122.0	122.5	123.0	123.5	124.0	124.5	125.0	125.5
0.0	18.45	18.28	18.13	17.96	17.85	17.69	17.58	17.42	17.27
30.0	18.22	18.07	17.91	17.76	17.61	17.46	17.31	17.17	17.02
60.0	17.80	17.69	17.53	17.37	17.19	17.03	16.85	16.71	16.61
90.0	17.52	17.26	17.25	16.99	16.98	16.71	16.70	16.44	16.31
120.0	17.80	17.69	17.53	17.37	17.19	17.03	16.85	16.71	16.61
150.0	18.22	18.07	17.91	17.76	17.61	17.46	17.31	17.17	17.02
180.0	18.45	18.28	18.13	17.96	17.85	17.69	17.58	17.42	17.27
210.0	18.22	18.07	17.91	17.76	17.61	17.46	17.31	17.17	17.02
240.0	17.80	17.69	17.53	17.37	17.19	17.03	16.85	16.71	16.61
270.0	17.52	17.26	17.25	16.99	16.98	16.71	16.70	16.44	16.31
300.0	17.80	17.69	17.53	17.37	17.19	17.03	16.85	16.71	16.61
330.0	18.22	18.07	17.91	17.76	17.61	17.46	17.31	17.17	17.02
360.0	18.45	18.28	18.13	17.96	17.85	17.69	17.58	17.42	17.27

## Intensity data(cd)

C/γ(°)	126.0	126.5	127.0	127.5	128.0	128.5	129.0	129.5	130.0
0.0	17.06	16.83	16.64	16.47	16.36	16.20	16.09	15.93	15.74
30.0	16.84	16.66	16.47	16.29	16.12	15.95	15.77	15.61	15.48
60.0	16.45	16.33	16.11	15.95	15.82	15.68	15.52	15.29	15.12
90.0	16.17	16.03	15.89	15.62	15.62	15.35	15.35	15.08	15.07
120.0	16.45	16.33	16.11	15.95	15.82	15.68	15.52	15.29	15.12
150.0	16.84	16.66	16.47	16.29	16.12	15.95	15.77	15.61	15.48
180.0	17.06	16.83	16.64	16.47	16.36	16.20	16.09	15.93	15.74
210.0	16.84	16.66	16.47	16.29	16.12	15.95	15.77	15.61	15.48
240.0	16.45	16.33	16.11	15.95	15.82	15.68	15.52	15.29	15.12
270.0	16.17	16.03	15.89	15.62	15.62	15.35	15.35	15.08	15.07
300.0	16.45	16.33	16.11	15.95	15.82	15.68	15.52	15.29	15.12
330.0	16.84	16.66	16.47	16.29	16.12	15.95	15.77	15.61	15.48
360.0	17.06	16.83	16.64	16.47	16.36	16.20	16.09	15.93	15.74
C/γ(°)	130.5	131.0	131.5	132.0	132.5	133.0	133.5	134.0	134.5
0.0	15.55	15.43	15.29	15.06	14.87	14.67	14.50	14.30	14.19
30.0	15.33	15.17	14.97	14.77	14.59	14.46	14.30	14.10	13.92
60.0	14.90	14.78	14.62	14.50	14.28	14.11	13.94	13.82	13.58
90.0	14.80	14.67	14.40	14.40	14.25	13.85	13.85	13.58	13.57
120.0	14.90	14.78	14.62	14.50	14.28	14.11	13.94	13.82	13.58
150.0	15.33	15.17	14.97	14.77	14.59	14.46	14.30	14.10	13.92
180.0	15.55	15.43	15.29	15.06	14.87	14.67	14.50	14.30	14.19
210.0	15.33	15.17	14.97	14.77	14.59	14.46	14.30	14.10	13.92
240.0	14.90	14.78	14.62	14.50	14.28	14.11	13.94	13.82	13.58
270.0	14.80	14.67	14.40	14.40	14.25	13.85	13.85	13.58	13.57
300.0	14.90	14.78	14.62	14.50	14.28	14.11	13.94	13.82	13.58
330.0	15.33	15.17	14.97	14.77	14.59	14.46	14.30	14.10	13.92
360.0	15.55	15.43	15.29	15.06	14.87	14.67	14.50	14.30	14.19
C/γ(°)	135.0	135.5	136.0	136.5	137.0	137.5	138.0	138.5	139.0
0.0	13.99	13.78	13.57	13.39	13.24	13.04	12.87	12.67	12.56
30.0	13.77	13.60	13.40	13.22	13.06	12.89	12.71	12.52	12.34
60.0	13.34	13.21	13.00	12.88	12.72	12.60	12.38	12.20	11.97
90.0	13.30	13.17	12.90	12.64	12.63	12.24	12.22	11.95	11.95
120.0	13.34	13.21	13.00	12.88	12.72	12.60	12.38	12.20	11.97
150.0	13.77	13.60	13.40	13.22	13.06	12.89	12.71	12.52	12.34
180.0	13.99	13.78	13.57	13.39	13.24	13.04	12.87	12.67	12.56
210.0	13.77	13.60	13.40	13.22	13.06	12.89	12.71	12.52	12.34
240.0	13.34	13.21	13.00	12.88	12.72	12.60	12.38	12.20	11.97
270.0	13.30	13.17	12.90	12.64	12.63	12.24	12.22	11.95	11.95
300.0	13.34	13.21	13.00	12.88	12.72	12.60	12.38	12.20	11.97
330.0	13.77	13.60	13.40	13.22	13.06	12.89	12.71	12.52	12.34
360.0	13.99	13.78	13.57	13.39	13.24	13.04	12.87	12.67	12.56
C/γ(°)	139.5	140.0	140.5	141.0	141.5	142.0	142.5	143.0	143.5
0.0	12.36	12.20	11.99	11.80	11.57	11.36	11.21	11.00	10.84
30.0	12.16	12.01	11.84	11.62	11.41	11.22	11.01	10.86	10.70
60.0	11.81	11.65	11.39	11.26	11.09	10.97	10.74	10.54	10.40
90.0	11.55	11.55	11.40	11.40	10.87	10.87	10.59	10.45	10.32
120.0	11.81	11.65	11.39	11.26	11.09	10.97	10.74	10.54	10.40
150.0	12.16	12.01	11.84	11.62	11.41	11.22	11.01	10.86	10.70
180.0	12.36	12.20	11.99	11.80	11.57	11.36	11.21	11.00	10.84
210.0	12.16	12.01	11.84	11.62	11.41	11.22	11.01	10.86	10.70
240.0	11.81	11.65	11.39	11.26	11.09	10.97	10.74	10.54	10.40
270.0	11.55	11.55	11.40	11.40	10.87	10.87	10.59	10.45	10.32
300.0	11.81	11.65	11.39	11.26	11.09	10.97	10.74	10.54	10.40
330.0	12.16	12.01	11.84	11.62	11.41	11.22	11.01	10.86	10.70
360.0	12.36	12.20	11.99	11.80	11.57	11.36	11.21	11.00	10.84

## Intensity data(cd)

C/ $\gamma$ (°)	144.0	144.5	145.0	145.5	146.0	146.5	147.0	147.5	148.0
0.0	10.60	10.44	10.23	10.08	9.86	9.68	9.46	9.23	9.04
30.0	10.48	10.27	10.09	9.93	9.75	9.57	9.36	9.15	8.96
60.0	10.28	10.00	9.79	9.62	9.41	9.32	9.08	8.95	8.77
90.0	10.06	9.91	9.77	9.38	9.23	9.23	9.09	9.09	8.69
120.0	10.28	10.00	9.79	9.62	9.41	9.32	9.08	8.95	8.77
150.0	10.48	10.27	10.09	9.93	9.75	9.57	9.36	9.15	8.96
180.0	10.60	10.44	10.23	10.08	9.86	9.68	9.46	9.23	9.04
210.0	10.48	10.27	10.09	9.93	9.75	9.57	9.36	9.15	8.96
240.0	10.28	10.00	9.79	9.62	9.41	9.32	9.08	8.95	8.77
270.0	10.06	9.91	9.77	9.38	9.23	9.23	9.09	9.09	8.69
300.0	10.28	10.00	9.79	9.62	9.41	9.32	9.08	8.95	8.77
330.0	10.48	10.27	10.09	9.93	9.75	9.57	9.36	9.15	8.96
360.0	10.60	10.44	10.23	10.08	9.86	9.68	9.46	9.23	9.04
C/ $\gamma$ (°)	148.5	149.0	149.5	150.0	150.5	151.0	151.5	152.0	152.5
0.0	8.87	8.76	8.56	8.40	8.15	7.95	7.73	7.56	7.36
30.0	8.80	8.62	8.40	8.22	8.05	7.87	7.68	7.48	7.26
60.0	8.59	8.33	8.20	8.01	7.82	7.65	7.44	7.32	7.14
90.0	8.42	8.28	8.15	8.01	7.74	7.61	7.33	7.33	7.06
120.0	8.59	8.33	8.20	8.01	7.82	7.65	7.44	7.32	7.14
150.0	8.80	8.62	8.40	8.22	8.05	7.87	7.68	7.48	7.26
180.0	8.87	8.76	8.56	8.40	8.15	7.95	7.73	7.56	7.36
210.0	8.80	8.62	8.40	8.22	8.05	7.87	7.68	7.48	7.26
240.0	8.59	8.33	8.20	8.01	7.82	7.65	7.44	7.32	7.14
270.0	8.42	8.28	8.15	8.01	7.74	7.61	7.33	7.33	7.06
300.0	8.59	8.33	8.20	8.01	7.82	7.65	7.44	7.32	7.14
330.0	8.80	8.62	8.40	8.22	8.05	7.87	7.68	7.48	7.26
360.0	8.87	8.76	8.56	8.40	8.15	7.95	7.73	7.56	7.36
C/ $\gamma$ (°)	153.0	153.5	154.0	154.5	155.0	155.5	156.0	156.5	157.0
0.0	7.15	7.00	6.80	6.64	6.39	6.23	5.98	5.78	5.52
30.0	7.08	6.92	6.73	6.51	6.29	6.08	5.87	5.64	5.43
60.0	6.97	6.75	6.56	6.27	6.06	5.89	5.66	5.49	5.32
90.0	6.80	6.65	6.52	6.25	5.98	5.84	5.70	5.56	5.30
120.0	6.97	6.75	6.56	6.27	6.06	5.89	5.66	5.49	5.32
150.0	7.08	6.92	6.73	6.51	6.29	6.08	5.87	5.64	5.43
180.0	7.15	7.00	6.80	6.64	6.39	6.23	5.98	5.78	5.52
210.0	7.08	6.92	6.73	6.51	6.29	6.08	5.87	5.64	5.43
240.0	6.97	6.75	6.56	6.27	6.06	5.89	5.66	5.49	5.32
270.0	6.80	6.65	6.52	6.25	5.98	5.84	5.70	5.56	5.30
300.0	6.97	6.75	6.56	6.27	6.06	5.89	5.66	5.49	5.32
330.0	7.08	6.92	6.73	6.51	6.29	6.08	5.87	5.64	5.43
360.0	7.15	7.00	6.80	6.64	6.39	6.23	5.98	5.78	5.52
C/ $\gamma$ (°)	157.5	158.0	158.5	159.0	159.5	160.0	160.5	161.0	161.5
0.0	5.29	5.11	4.94	4.83	4.67	4.56	4.35	4.15	3.89
30.0	5.29	5.15	5.02	4.88	4.68	4.45	4.26	4.09	3.91
60.0	5.20	4.99	4.87	4.70	4.54	4.30	4.08	3.89	3.74
90.0	5.29	5.02	4.88	4.75	4.61	4.47	4.08	3.93	3.80
120.0	5.20	4.99	4.87	4.70	4.54	4.30	4.08	3.89	3.74
150.0	5.29	5.15	5.02	4.88	4.68	4.45	4.26	4.09	3.91
180.0	5.29	5.11	4.94	4.83	4.67	4.56	4.35	4.15	3.89
210.0	5.29	5.15	5.02	4.88	4.68	4.45	4.26	4.09	3.91
240.0	5.20	4.99	4.87	4.70	4.54	4.30	4.08	3.89	3.74
270.0	5.29	5.02	4.88	4.75	4.61	4.47	4.08	3.93	3.80
300.0	5.20	4.99	4.87	4.70	4.54	4.30	4.08	3.89	3.74
330.0	5.29	5.15	5.02	4.88	4.68	4.45	4.26	4.09	3.91
360.0	5.29	5.11	4.94	4.83	4.67	4.56	4.35	4.15	3.89

## Intensity data(cd)

C/γ(°)	162.0	162.5	163.0	163.5	164.0	164.5	165.0	165.5	166.0
0.0	3.71	3.57	3.45	3.33	3.17	3.06	2.90	2.79	2.63
30.0	3.73	3.56	3.41	3.26	3.12	3.00	2.87	2.72	2.59
60.0	3.61	3.48	3.38	3.22	3.11	2.95	2.84	2.71	2.54
90.0	3.79	3.66	3.65	3.26	3.12	2.98	2.85	2.84	2.70
120.0	3.61	3.48	3.38	3.22	3.11	2.95	2.84	2.71	2.54
150.0	3.73	3.56	3.41	3.26	3.12	3.00	2.87	2.72	2.59
180.0	3.71	3.57	3.45	3.33	3.17	3.06	2.90	2.79	2.63
210.0	3.73	3.56	3.41	3.26	3.12	3.00	2.87	2.72	2.59
240.0	3.61	3.48	3.38	3.22	3.11	2.95	2.84	2.71	2.54
270.0	3.79	3.66	3.65	3.26	3.12	2.98	2.85	2.84	2.70
300.0	3.61	3.48	3.38	3.22	3.11	2.95	2.84	2.71	2.54
330.0	3.73	3.56	3.41	3.26	3.12	3.00	2.87	2.72	2.59
360.0	3.71	3.57	3.45	3.33	3.17	3.06	2.90	2.79	2.63
C/γ(°)	166.5	167.0	167.5	168.0	168.5	169.0	169.5	170.0	170.5
0.0	2.48	2.31	2.17	2.03	1.90	1.81	1.72	1.67	1.54
30.0	2.48	2.34	2.19	2.05	1.97	1.88	1.75	1.62	1.53
60.0	2.43	2.27	2.16	2.00	1.91	1.84	1.76	1.63	1.52
90.0	2.57	2.30	2.30	2.16	2.02	1.89	1.77	1.75	1.62
120.0	2.43	2.27	2.16	2.00	1.91	1.84	1.76	1.63	1.52
150.0	2.48	2.34	2.19	2.05	1.97	1.88	1.75	1.62	1.53
180.0	2.48	2.31	2.17	2.03	1.90	1.81	1.72	1.67	1.54
210.0	2.48	2.34	2.19	2.05	1.97	1.88	1.75	1.62	1.53
240.0	2.43	2.27	2.16	2.00	1.91	1.84	1.76	1.63	1.52
270.0	2.57	2.30	2.30	2.16	2.02	1.89	1.77	1.75	1.62
300.0	2.43	2.27	2.16	2.00	1.91	1.84	1.76	1.63	1.52
330.0	2.48	2.34	2.19	2.05	1.97	1.88	1.75	1.62	1.53
360.0	2.48	2.31	2.17	2.03	1.90	1.81	1.72	1.67	1.54
C/γ(°)	171.0	171.5	172.0	172.5	173.0	173.5	174.0	174.5	175.0
0.0	1.44	1.32	1.26	1.18	1.09	0.99	0.95	0.95	0.95
30.0	1.46	1.40	1.35	1.27	1.17	1.10	1.06	1.03	1.03
60.0	1.48	1.38	1.30	1.24	1.20	1.07	1.09	1.08	1.03
90.0	1.62	1.48	1.47	1.35	1.34	1.20	1.20	1.20	1.08
120.0	1.48	1.38	1.30	1.24	1.20	1.07	1.09	1.08	1.03
150.0	1.46	1.40	1.35	1.27	1.17	1.10	1.06	1.03	1.03
180.0	1.44	1.32	1.26	1.18	1.09	0.99	0.95	0.95	0.95
210.0	1.46	1.40	1.35	1.27	1.17	1.10	1.06	1.03	1.03
240.0	1.48	1.38	1.30	1.24	1.20	1.07	1.09	1.08	1.03
270.0	1.62	1.48	1.47	1.35	1.34	1.20	1.20	1.20	1.08
300.0	1.48	1.38	1.30	1.24	1.20	1.07	1.09	1.08	1.03
330.0	1.46	1.40	1.35	1.27	1.17	1.10	1.06	1.03	1.03
360.0	1.44	1.32	1.26	1.18	1.09	0.99	0.95	0.95	0.95
C/γ(°)	175.5	176.0	176.5	177.0	177.5	178.0	178.5	179.0	179.5
0.0	0.95	0.95	0.99	1.00	0.99	0.95	0.95	0.95	0.95
30.0	1.06	1.05	0.99	0.96	0.96	0.96	0.96	0.96	0.97
60.0	1.03	1.08	1.07	1.03	1.02	1.02	1.02	1.02	1.02
90.0	1.07	1.09	1.09	1.07	1.07	1.07	1.06	1.05	1.02
120.0	1.03	1.08	1.07	1.03	1.02	1.02	1.02	1.02	1.02
150.0	1.06	1.05	0.99	0.96	0.96	0.96	0.96	0.96	0.97
180.0	0.95	0.95	0.99	1.00	0.99	0.95	0.95	0.95	0.95
210.0	1.06	1.05	0.99	0.96	0.96	0.96	0.96	0.96	0.97
240.0	1.03	1.08	1.07	1.03	1.02	1.02	1.02	1.02	1.02
270.0	1.07	1.09	1.09	1.07	1.07	1.07	1.06	1.05	1.02
300.0	1.03	1.08	1.07	1.03	1.02	1.02	1.02	1.02	1.02
330.0	1.06	1.05	0.99	0.96	0.96	0.96	0.96	0.96	0.97
360.0	0.95	0.95	0.99	1.00	0.99	0.95	0.95	0.95	0.95

Intensity data(cd)

C/γ(°)	180.0
0.0	0.95
30.0	0.95
60.0	0.95
90.0	0.95
120.0	0.95
150.0	0.95
180.0	0.95
210.0	0.95
240.0	0.95
270.0	0.95
300.0	0.95
330.0	0.95
360.0	0.95