

Report No	:		Voltage	:	V
Test No	:	A2401357A001	Current	:	A
LumCAT	:	LIT by CARDI	Power	:	33.000 W
Luminaire	:	0028920182 33W 4000K 3960lm PF		:	
LampCAT	:		Ballast type	:	
Lamp flux	:	3960.0 lm	Width	:	555 mm
Number of Lamps	:	1	Length	:	555 mm
Phm Type	:	C	Height	:	0 mm

Photometric Results

Lumens(lm)	:	3960.00	Central intensity(cd)	:	1885.187
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	1885.824
Luminous Efficacy(lm/W)	:	120.00	Angle of maximum intensity	:	C=0.0 γ =0.5
Beam Angle(50%Imax)	:	[C0/180]Total=87.8 [C90/270]Total=87.4			
Field angle(10%Imax)	:	[C0/180]Total=148.0 [C90/270]Total=147.8			
Maximum s/h(1/2)	:	C0_180=1.26 C90_270=1.26			
Maximum s/h(1/4)	:	C0_180=1.24 C90_270=1.24			
Up flux rate of lamp(%)	:	0.00%			
Down flux rate of lamp(%)	:	100.00%			
Up flux rate of LUM(%)	:	--			
Down flux rate of LUM(%)	:	100.00%			
CIE Type	:	Direct lighting			
Output flux ratio in π solid angle :	:	87.405%			

Zonal flux distribution table

Appendix Page: 2 Total:21

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1885.187	0.000	0	0.00%	0.00%
0.5	1884.908	0.451	0.451	0.01%	0.01%
1.0	1884.719	1.353	1.804	0.03%	0.05%
1.5	1884.312	2.254	4.058	0.06%	0.10%
2.0	1883.763	3.155	7.213	0.08%	0.18%
2.5	1883.149	4.054	11.267	0.10%	0.28%
3.0	1882.249	4.953	16.22	0.13%	0.41%
3.5	1881.240	5.849	22.069	0.15%	0.56%
4.0	1880.145	6.744	28.814	0.17%	0.73%
4.5	1878.844	7.637	36.451	0.19%	0.92%
5.0	1877.409	8.528	44.978	0.22%	1.14%
5.5	1875.800	9.415	54.394	0.24%	1.37%
6.0	1873.999	10.300	64.693	0.26%	1.63%
6.5	1872.204	11.181	75.874	0.28%	1.92%
7.0	1870.259	12.060	87.934	0.30%	2.22%
7.5	1868.013	12.934	100.867	0.33%	2.55%
8.0	1865.843	13.804	114.672	0.35%	2.90%
8.5	1863.425	14.671	129.342	0.37%	3.27%
9.0	1860.743	15.532	144.874	0.39%	3.66%
9.5	1858.066	16.388	161.262	0.41%	4.07%
10.0	1855.175	17.240	178.502	0.44%	4.51%
10.5	1852.133	18.086	196.588	0.46%	4.96%
11.0	1848.931	18.926	215.514	0.48%	5.44%
11.5	1845.590	19.760	235.274	0.50%	5.94%
12.0	1842.204	20.589	255.862	0.52%	6.46%
12.5	1838.794	21.412	277.275	0.54%	7.00%
13.0	1835.248	22.230	299.505	0.56%	7.56%
13.5	1831.362	23.040	322.544	0.58%	8.15%
14.0	1827.422	23.842	346.386	0.60%	8.75%
14.5	1823.208	24.636	371.022	0.62%	9.37%
15.0	1818.720	25.421	396.443	0.64%	10.01%
15.5	1814.278	26.198	422.641	0.66%	10.67%
16.0	1809.631	26.968	449.609	0.68%	11.35%
16.5	1804.760	27.728	477.337	0.70%	12.05%
17.0	1799.766	28.480	505.816	0.72%	12.77%
17.5	1794.714	29.223	535.039	0.74%	13.51%
18.0	1789.439	29.956	564.995	0.76%	14.27%
18.5	1784.137	30.681	595.676	0.77%	15.04%

Equipment: GMS1800
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 55%

Operator: CWR

Zonal flux distribution table

Appendix Page: 3 Total:21

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
19.0	1778.656	31.397	627.073	0.79%	15.84%
19.5	1772.822	32.100	659.174	0.81%	16.65%
20.0	1766.944	32.793	691.967	0.83%	17.47%
20.5	1760.796	33.475	725.441	0.85%	18.32%
21.0	1754.578	34.145	759.586	0.86%	19.18%
21.5	1748.110	34.804	794.39	0.88%	20.06%
22.0	1741.376	35.450	829.84	0.90%	20.96%
22.5	1734.590	36.083	865.923	0.91%	21.87%
23.0	1727.851	36.708	902.632	0.93%	22.79%
23.5	1720.753	37.321	939.953	0.94%	23.74%
24.0	1713.259	37.917	977.87	0.96%	24.69%
24.5	1705.633	38.497	1016.366	0.97%	25.67%
25.0	1697.885	39.065	1055.431	0.99%	26.65%
25.5	1689.532	39.614	1095.046	1.00%	27.65%
26.0	1681.370	40.149	1135.195	1.01%	28.67%
26.5	1672.906	40.672	1175.867	1.03%	29.69%
27.0	1663.975	41.176	1217.043	1.04%	30.73%
27.5	1654.913	41.661	1258.705	1.05%	31.79%
28.0	1645.491	42.130	1300.835	1.06%	32.85%
28.5	1635.725	42.578	1343.413	1.08%	33.92%
29.0	1625.929	43.010	1386.422	1.09%	35.01%
29.5	1615.702	43.424	1429.847	1.10%	36.11%
30.0	1604.953	43.814	1473.66	1.11%	37.21%
30.5	1593.886	44.180	1517.84	1.12%	38.33%
31.0	1582.606	44.526	1562.366	1.12%	39.45%
31.5	1570.571	44.846	1607.212	1.13%	40.59%
32.0	1557.982	45.134	1652.346	1.14%	41.73%
32.5	1545.015	45.395	1697.741	1.15%	42.87%
33.0	1531.281	45.625	1743.365	1.15%	44.02%
33.5	1517.065	45.822	1789.187	1.16%	45.18%
34.0	1501.887	45.982	1835.17	1.16%	46.34%
34.5	1485.448	46.093	1881.263	1.16%	47.51%
35.0	1468.091	46.154	1927.417	1.17%	48.67%
35.5	1449.455	46.163	1973.58	1.17%	49.84%
36.0	1429.737	46.117	2019.698	1.16%	51.00%
36.5	1408.352	46.008	2065.706	1.16%	52.16%
37.0	1385.484	45.828	2111.535	1.16%	53.32%
37.5	1361.081	45.578	2157.112	1.15%	54.47%

Equipment: GMS1800
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 55%

Operator: CWR

Zonal flux distribution table

Appendix Page: 4 Total:21

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	1335.091	45.253	2202.365	1.14%	55.62%
38.5	1307.358	44.850	2247.215	1.13%	56.75%
39.0	1278.306	44.370	2291.585	1.12%	57.87%
39.5	1248.007	43.821	2335.406	1.11%	58.97%
40.0	1216.855	43.210	2378.617	1.09%	60.07%
40.5	1184.527	42.538	2421.154	1.07%	61.14%
41.0	1152.033	41.814	2462.969	1.06%	62.20%
41.5	1118.829	41.049	2504.017	1.04%	63.23%
42.0	1085.374	40.239	2544.256	1.02%	64.25%
42.5	1051.758	39.394	2583.65	0.99%	65.24%
43.0	1018.441	38.526	2622.176	0.97%	66.22%
43.5	985.441	37.642	2659.818	0.95%	67.17%
44.0	952.636	36.742	2696.561	0.93%	68.09%
44.5	920.997	35.843	2732.404	0.91%	69.00%
45.0	890.010	34.954	2767.358	0.88%	69.88%
45.5	859.602	34.065	2801.423	0.86%	70.74%
46.0	830.445	33.189	2834.612	0.84%	71.58%
46.5	801.974	32.328	2866.94	0.82%	72.40%
47.0	774.493	31.480	2898.42	0.79%	73.19%
47.5	747.536	30.641	2929.061	0.77%	73.97%
48.0	721.347	29.809	2958.87	0.75%	74.72%
48.5	696.031	28.990	2987.86	0.73%	75.45%
49.0	671.287	28.183	3016.043	0.71%	76.16%
49.5	647.189	27.383	3043.427	0.69%	76.85%
50.0	623.552	26.589	3070.016	0.67%	77.53%
50.5	600.207	25.795	3095.811	0.65%	78.18%
51.0	577.607	25.005	3120.816	0.63%	78.81%
51.5	555.683	24.231	3145.047	0.61%	79.42%
52.0	534.466	23.471	3168.518	0.59%	80.01%
52.5	513.929	22.726	3191.244	0.57%	80.59%
53.0	494.432	22.005	3213.249	0.56%	81.14%
53.5	475.818	21.313	3234.562	0.54%	81.68%
54.0	458.171	20.650	3255.212	0.52%	82.20%
54.5	441.428	20.016	3275.228	0.51%	82.71%
55.0	425.634	19.412	3294.64	0.49%	83.20%
55.5	410.470	18.834	3313.474	0.48%	83.67%
56.0	396.187	18.280	3331.754	0.46%	84.14%
56.5	382.766	17.756	3349.51	0.45%	84.58%

Equipment: GMS1800
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 55%

Operator: CWR

Zonal flux distribution table

Appendix Page: 5 Total:21

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
57.0	369.791	17.254	3366.764	0.44%	85.02%
57.5	357.626	16.772	3383.537	0.42%	85.44%
58.0	346.196	16.319	3399.856	0.41%	85.85%
58.5	335.738	15.898	3415.753	0.40%	86.26%
59.0	326.005	15.510	3431.263	0.39%	86.65%
59.5	317.050	15.151	3446.414	0.38%	87.03%
60.0	308.734	14.820	3461.234	0.37%	87.40%
60.5	300.960	14.512	3475.746	0.37%	87.77%
61.0	293.697	14.224	3489.97	0.36%	88.13%
61.5	287.030	13.958	3503.929	0.35%	88.48%
62.0	280.839	13.714	3517.643	0.35%	88.83%
62.5	275.088	13.488	3531.131	0.34%	89.17%
63.0	269.789	13.280	3544.411	0.34%	89.51%
63.5	264.816	13.088	3557.499	0.33%	89.84%
64.0	260.213	12.910	3570.408	0.33%	90.16%
64.5	256.128	12.750	3583.159	0.32%	90.48%
65.0	252.508	12.612	3595.771	0.32%	90.80%
65.5	249.207	12.491	3608.262	0.32%	91.12%
66.0	246.175	12.383	3620.645	0.31%	91.43%
66.5	243.231	12.281	3632.926	0.31%	91.74%
67.0	240.293	12.180	3645.105	0.31%	92.05%
67.5	237.244	12.073	3657.179	0.30%	92.35%
68.0	234.014	11.958	3669.136	0.30%	92.65%
68.5	230.523	11.829	3680.965	0.30%	92.95%
69.0	226.725	11.683	3692.649	0.30%	93.25%
69.5	222.531	11.518	3704.166	0.29%	93.54%
70.0	217.928	11.329	3715.495	0.29%	93.83%
70.5	213.008	11.119	3726.614	0.28%	94.11%
71.0	207.752	10.890	3737.505	0.28%	94.38%
71.5	202.224	10.643	3748.148	0.27%	94.65%
72.0	196.623	10.385	3758.533	0.26%	94.91%
72.5	190.990	10.121	3768.653	0.26%	95.17%
73.0	185.366	9.854	3778.507	0.25%	95.42%
73.5	179.927	9.590	3788.097	0.24%	95.66%
74.0	174.668	9.333	3797.43	0.24%	95.89%
74.5	169.591	9.084	3806.514	0.23%	96.12%
75.0	164.706	8.842	3815.356	0.22%	96.35%
75.5	160.114	8.612	3823.967	0.22%	96.56%

Equipment: GMS1800
Temperature($^{\circ}\text{C}$): 25

Date:
Humidity(%): 55%

Operator: CWR

Zonal flux distribution table

Appendix Page: 6 Total:21

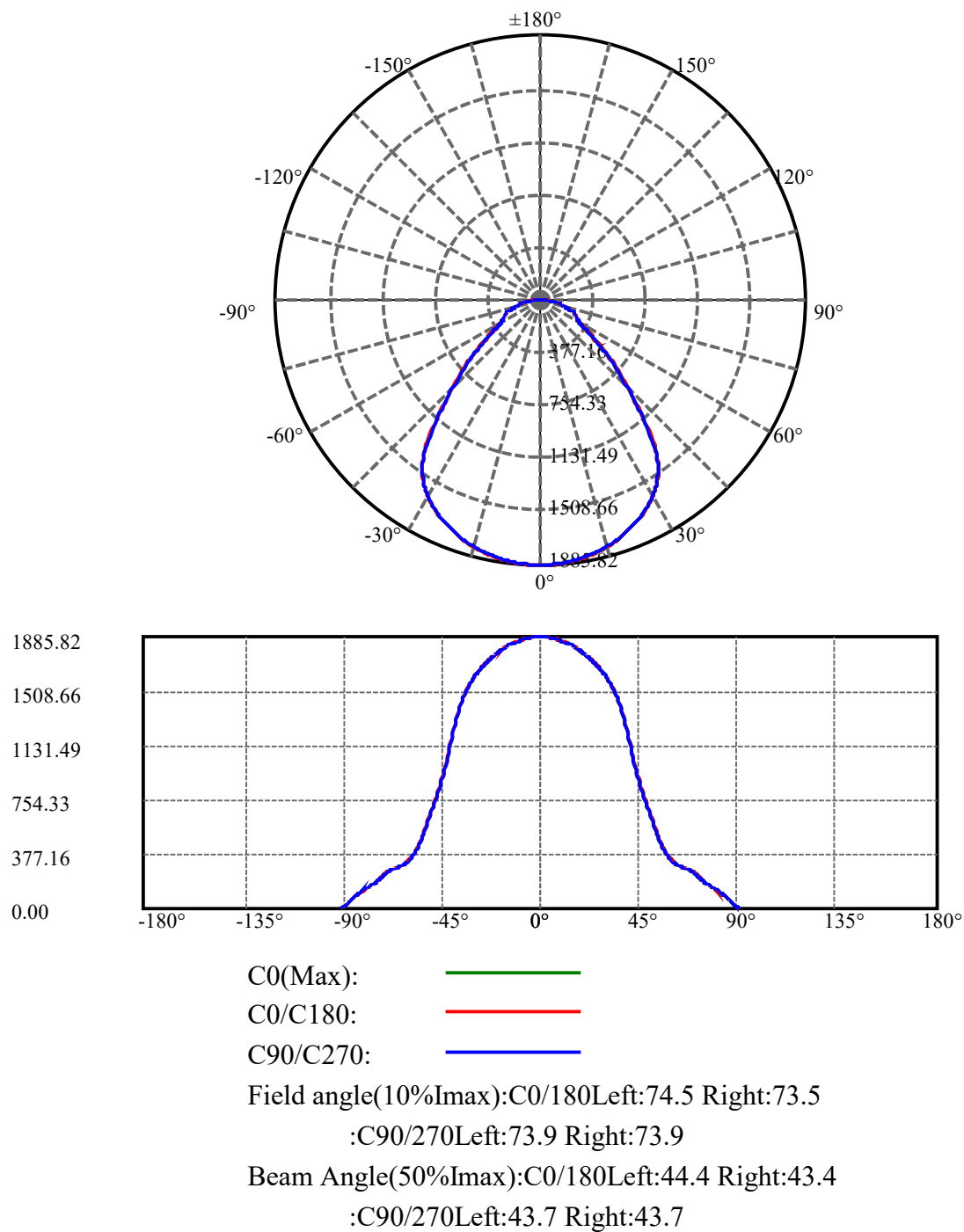
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	155.677	8.391	3832.359	0.21%	96.78%
76.5	151.331	8.176	3840.534	0.21%	96.98%
77.0	147.064	7.963	3848.497	0.20%	97.18%
77.5	142.804	7.751	3856.248	0.20%	97.38%
78.0	138.544	7.538	3863.786	0.19%	97.57%
78.5	134.205	7.321	3871.107	0.18%	97.76%
79.0	129.795	7.099	3878.205	0.18%	97.93%
79.5	125.261	6.870	3885.075	0.17%	98.11%
80.0	120.610	6.633	3891.708	0.17%	98.28%
80.5	115.925	6.391	3898.099	0.16%	98.44%
81.0	111.205	6.146	3904.245	0.16%	98.59%
81.5	106.443	5.897	3910.142	0.15%	98.74%
82.0	101.591	5.644	3915.787	0.14%	98.88%
82.5	96.542	5.382	3921.169	0.14%	99.02%
83.0	91.120	5.104	3926.273	0.13%	99.15%
83.5	85.218	4.801	3931.074	0.12%	99.27%
84.0	78.889	4.472	3935.546	0.11%	99.38%
84.5	72.129	4.119	3939.665	0.10%	99.49%
85.0	65.034	3.745	3943.41	0.09%	99.58%
85.5	57.726	3.354	3946.764	0.08%	99.67%
86.0	50.378	2.956	3949.72	0.07%	99.74%
86.5	42.958	2.553	3952.273	0.06%	99.80%
87.0	35.703	2.153	3954.426	0.05%	99.86%
87.5	28.660	1.763	3956.188	0.04%	99.90%
88.0	21.984	1.387	3957.576	0.04%	99.94%
88.5	15.883	1.038	3958.613	0.03%	99.96%
89.0	10.468	0.722	3959.336	0.02%	99.98%
89.5	6.086	0.454	3959.79	0.01%	99.99%
90.0	1.593	0.211	3960	0.01%	100.00%

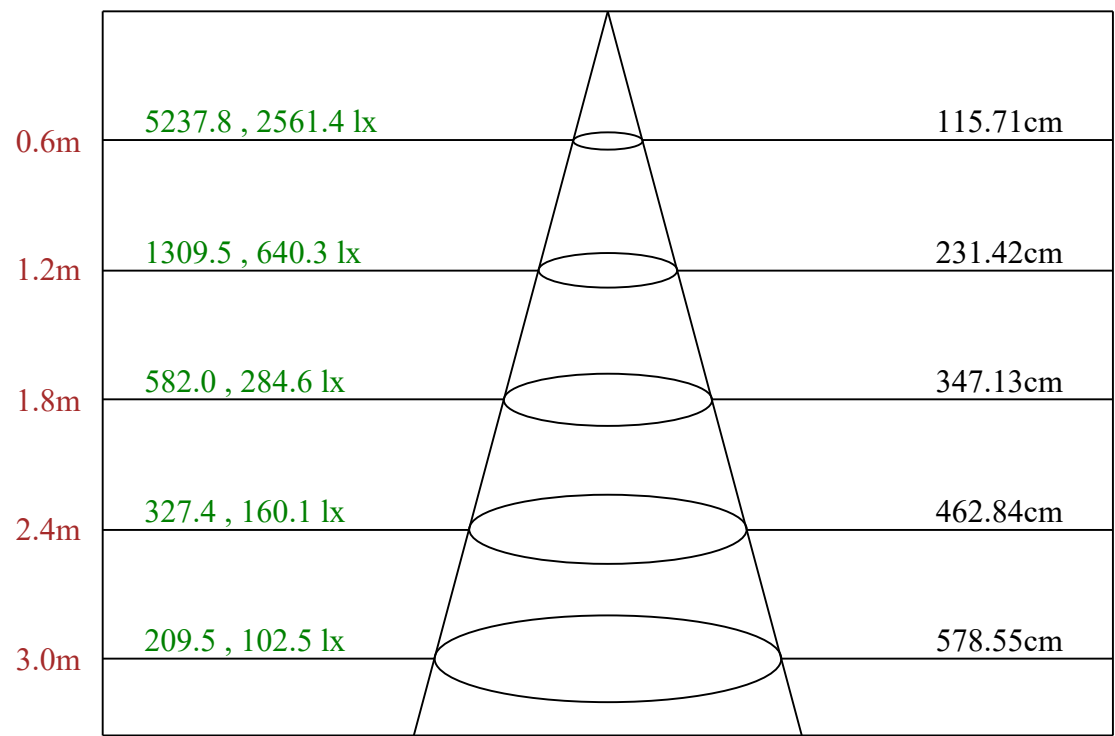
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1473.66	37.21%	37.21%
0-40	2378.62	60.07%	60.07%
0-60	3461.23	87.40%	87.40%
0-90	3959.79	99.99%	99.99%
0-120	3959.79	99.99%	99.99%
0-180	3960.00	100.00%	100.00%
60-90	498.56	12.59%	12.59%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-51.99	3168.00	80.00%	80.00%

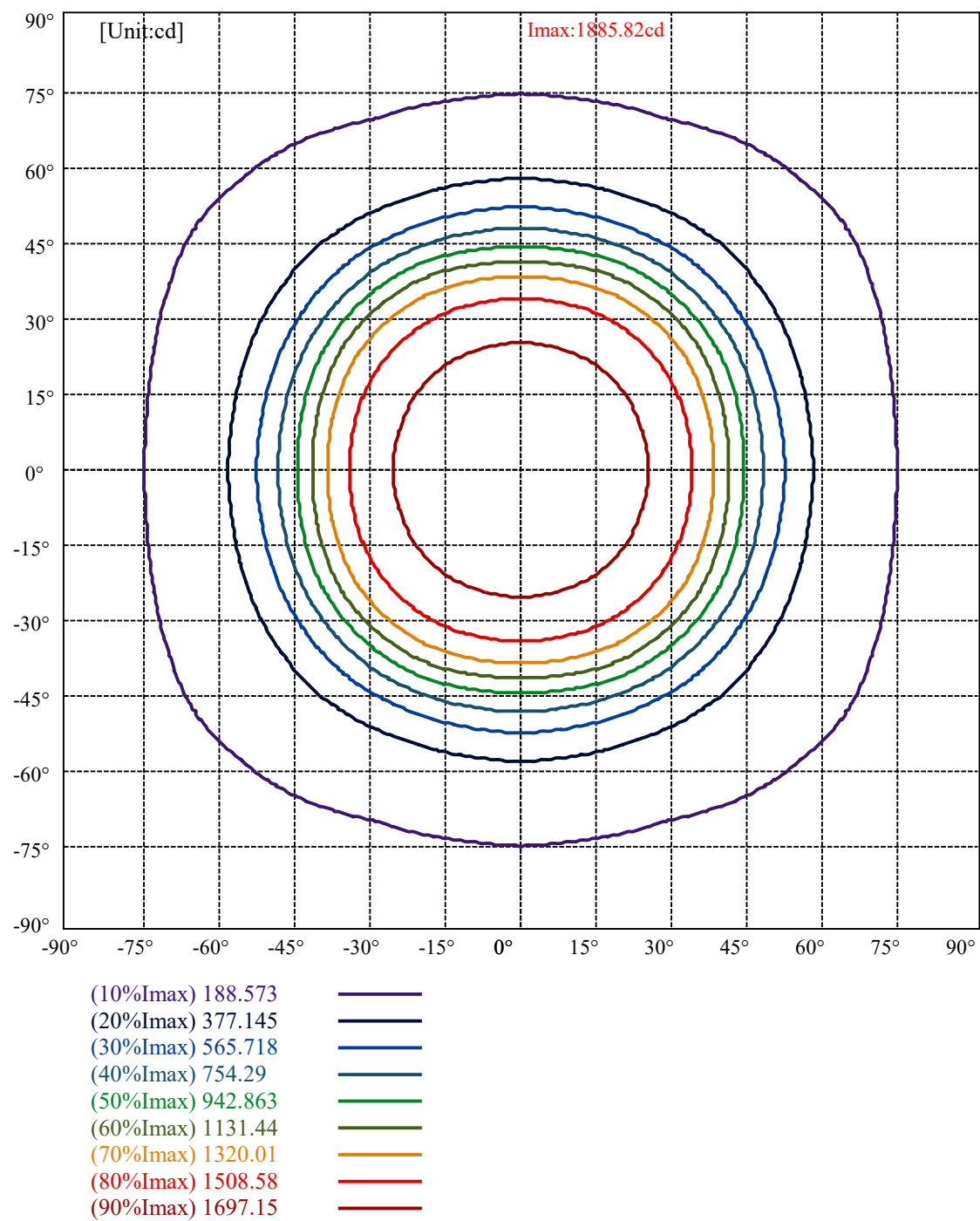
ZONAL LUMEN SUMMARY

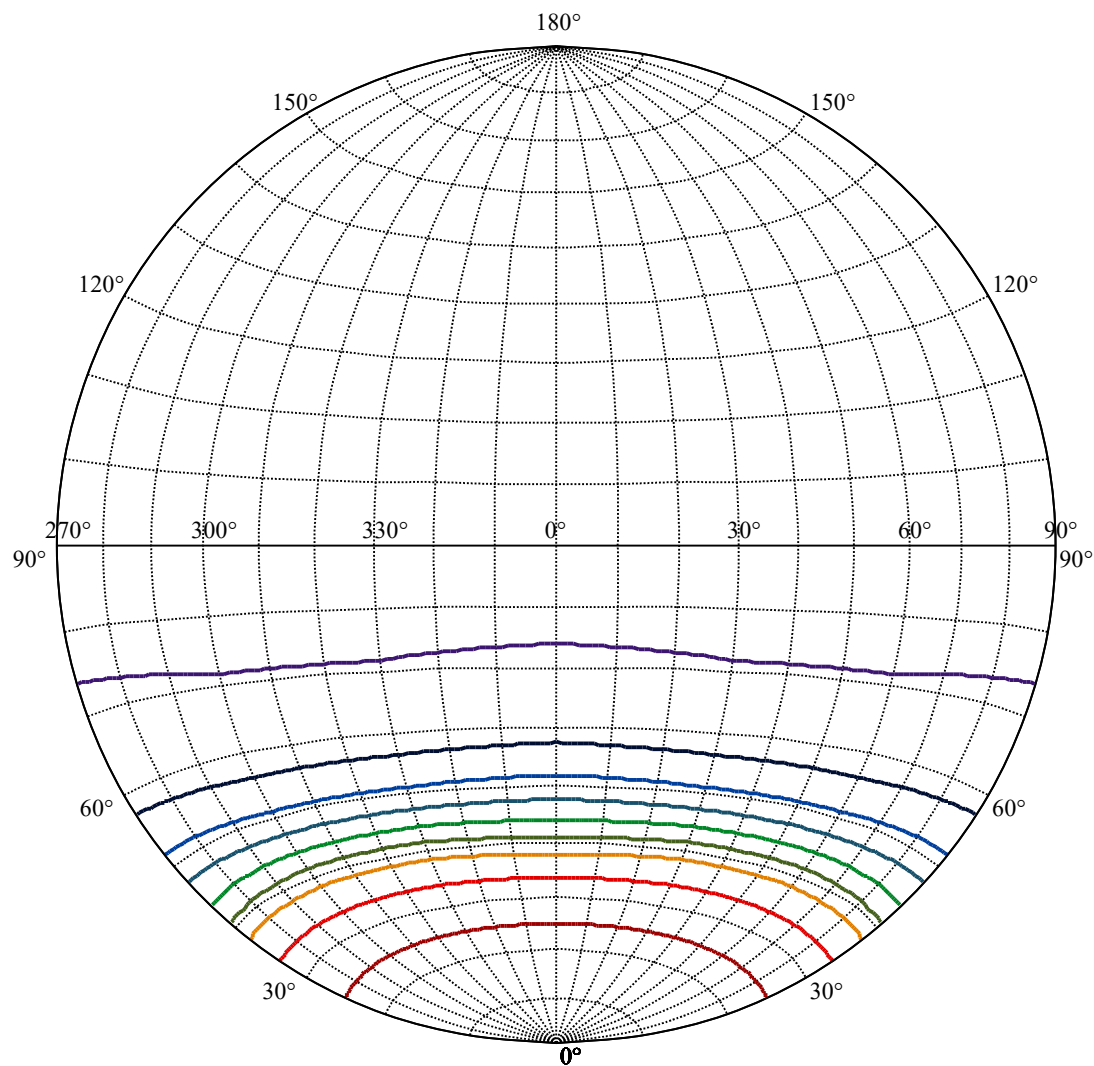
0-10	178.50
10-20	513.46
20-30	781.69
30-40	904.96
40-50	691.40
50-60	391.22
60-70	254.26
70-80	176.21
80-90	68.08
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C0 plane 87.91



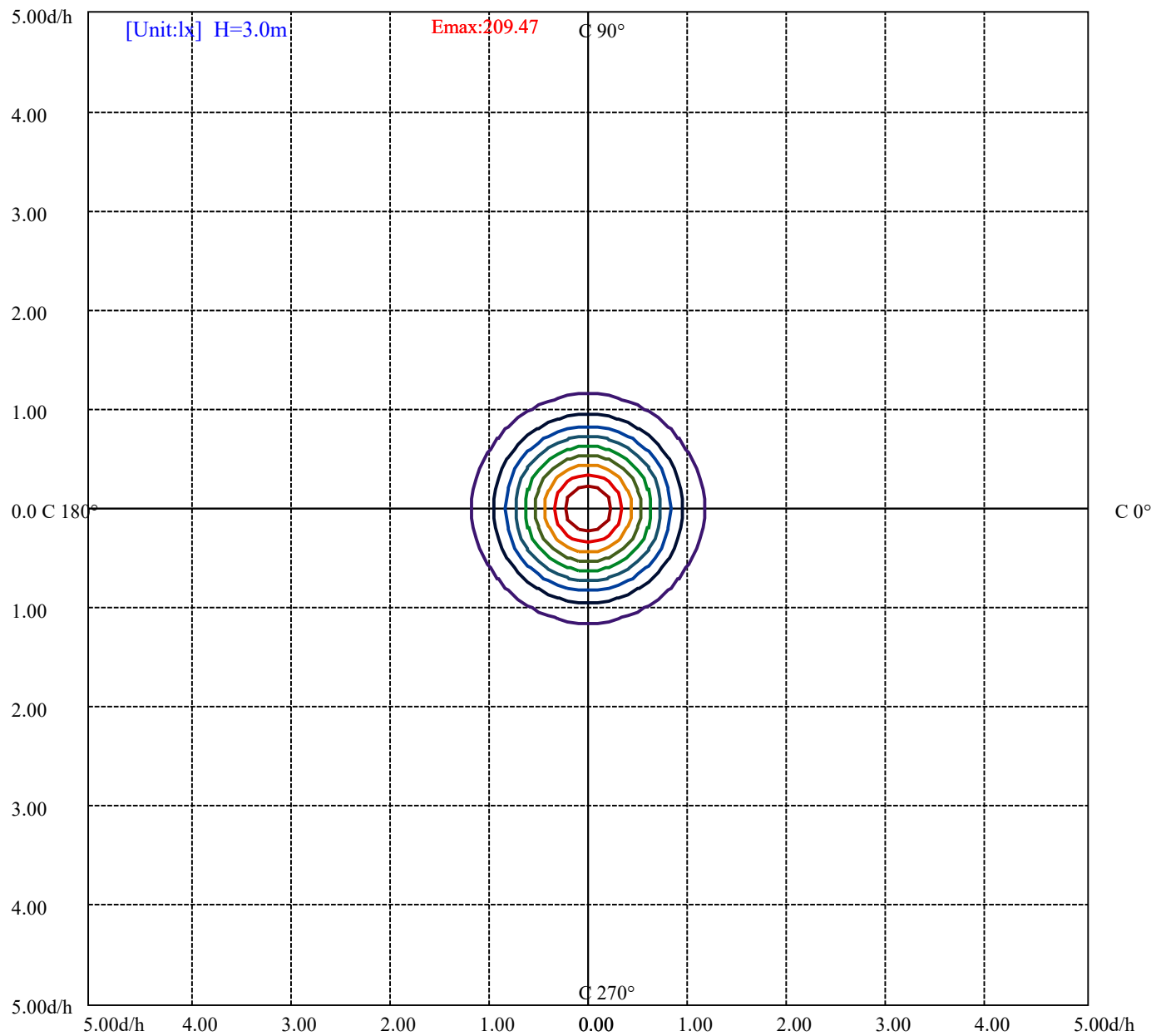


House

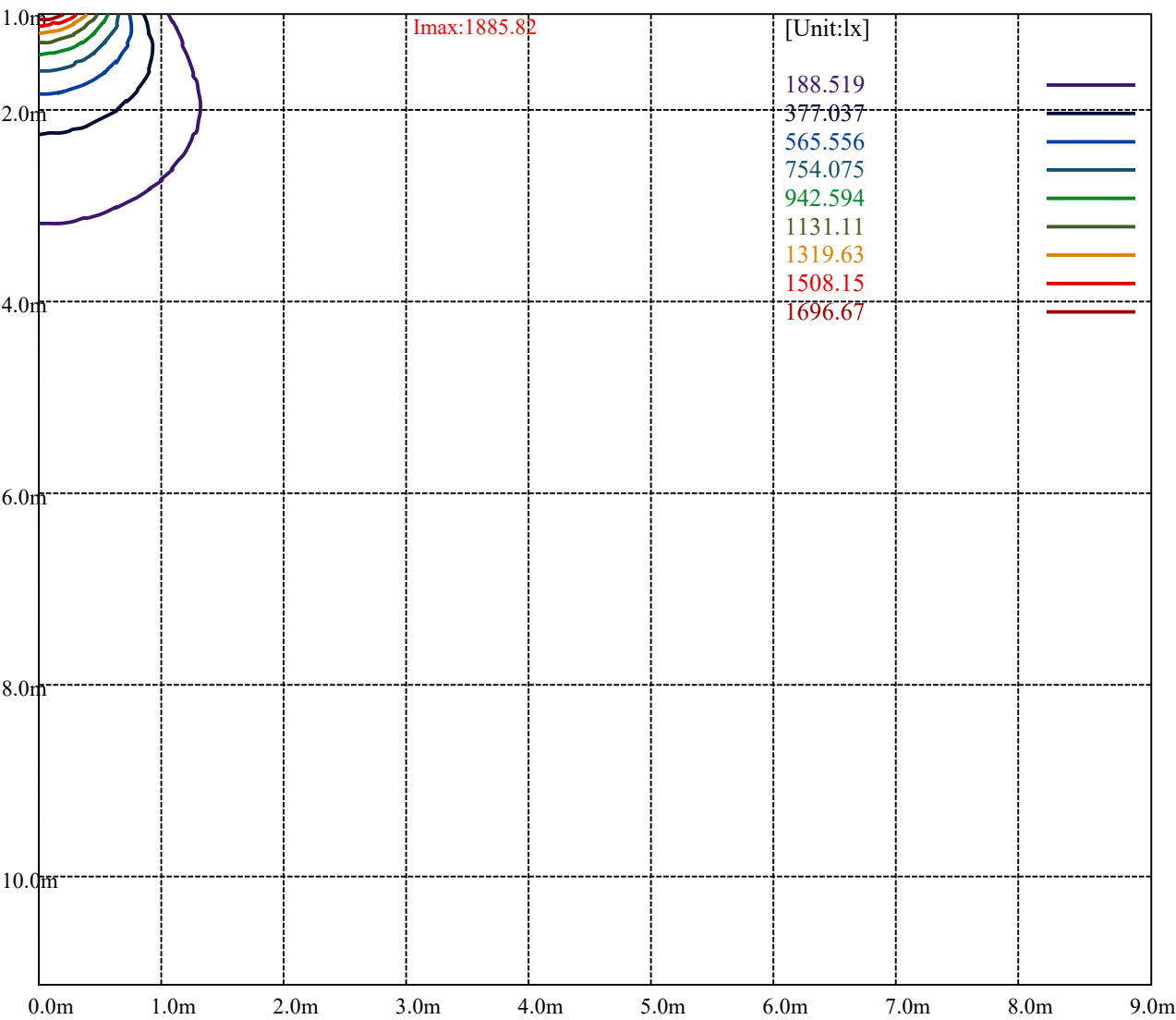
[Unit:cd]

Road

Imax:1885.82	
(10%Imax)	188.573
(20%Imax)	377.145
(30%Imax)	565.718
(40%Imax)	754.29
(50%Imax)	942.863
(60%Imax)	1131.44
(70%Imax)	1320.01
(80%Imax)	1508.58
(90%Imax)	1697.15



(10%Emax)	20.94656	
(20%Emax)	41.893	
(30%Emax)	62.83956	
(40%Emax)	83.78611	
(50%Emax)	104.7326	
(60%Emax)	125.6789	
(70%Emax)	146.6255	
(80%Emax)	167.5722	
(90%Emax)	188.5189	



Luminance Limiting Curve(no luminous side)

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Luminance Table

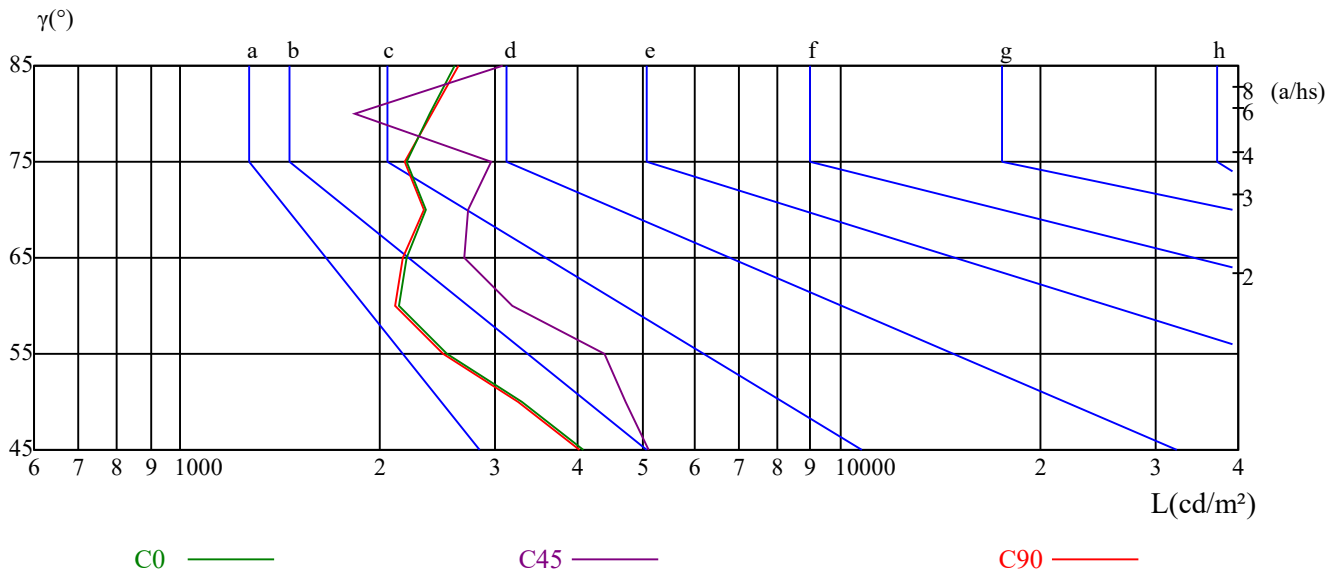
γ	45	50	55	60	65	70	75	80	85
C0	4065	3284	2536	2148	2201	2359	2200	2384	2603
C45	5103	4723	4389	3181	2699	2729	2952	1832	3083
C90	4016	3236	2498	2113	2166	2331	2187	2400	2642

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2201	2166	2688	2200	2187	2845	2603	2642	2980

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	15.15	16.59	15.51	16.90	17.22	15.09	16.53	15.45	16.85	17.16
	3H	16.36	17.66	16.74	17.99	18.34	16.30	17.59	16.68	17.93	18.27
	4H	16.95	18.16	17.34	18.51	18.88	16.89	18.10	17.28	18.45	18.82
	6H	17.54	18.67	17.95	19.03	19.43	17.49	18.62	17.90	18.99	19.38
	8H	17.80	18.88	18.21	19.26	19.66	17.76	18.85	18.18	19.22	19.62
	12H	18.01	19.05	18.43	19.43	19.84	17.98	19.02	18.40	19.41	19.82
4H	2H	15.43	16.64	15.82	16.99	17.35	15.38	16.59	15.77	16.94	17.30
	3H	16.85	17.88	17.27	18.27	18.68	16.80	17.82	17.21	18.21	18.62
	4H	17.66	18.56	18.09	18.98	19.42	17.60	18.51	18.04	18.92	19.36
	6H	18.39	19.20	18.86	19.64	20.09	18.36	19.16	18.82	19.60	20.05
	8H	18.77	19.52	19.24	19.97	20.43	18.74	19.50	19.22	19.94	20.41
	12H	19.09	19.79	19.57	20.23	20.73	19.07	19.77	19.55	20.21	20.72
8H	4H	17.89	18.65	18.37	19.09	19.56	17.85	18.60	18.32	19.05	19.51
	6H	18.80	19.43	19.29	19.90	20.40	18.77	19.40	19.26	19.87	20.37
	8H	19.33	19.88	19.85	20.40	20.88	19.32	19.87	19.83	20.38	20.87
	12H	19.76	20.23	20.29	20.74	21.25	19.76	20.22	20.28	20.73	21.24
12H	4H	17.93	18.63	18.41	19.07	19.58	17.89	18.59	18.37	19.03	19.53
	6H	18.93	19.48	19.45	20.00	20.48	18.91	19.46	19.42	19.97	20.46
	8H	19.48	19.94	20.00	20.45	20.96	19.46	19.93	19.99	20.44	20.95
Variation with the observer position at spacings:											
S = 1.0H		0.5/-0.8					0.5/-0.8				
S = 1.5H		0.9/-1.1					0.9/-1.1				
S = 2.0H		1.4/-1.0					1.4/-1.0				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		3.8					3.8				

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

Intensity data(cd)

Appendix Page: 16 Total:21

C/γ(°)	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
0.0	1885.19	1885.82	1885.73	1885.31	1884.69	1884.14	1883.35	1882.24	1881.06
30.0	1885.19	1885.40	1885.37	1885.00	1884.40	1883.86	1882.94	1881.93	1880.78
60.0	1885.19	1884.45	1884.20	1883.81	1883.29	1882.65	1881.69	1880.74	1879.69
90.0	1885.19	1883.91	1883.45	1882.96	1882.51	1881.74	1880.88	1879.87	1878.88
120.0	1885.19	1884.45	1884.20	1883.81	1883.29	1882.65	1881.69	1880.74	1879.69
150.0	1885.19	1885.40	1885.37	1885.00	1884.40	1883.86	1882.94	1881.93	1880.78
180.0	1885.19	1885.82	1885.73	1885.31	1884.69	1884.14	1883.35	1882.24	1881.06
210.0	1885.19	1885.40	1885.37	1885.00	1884.40	1883.86	1882.94	1881.93	1880.78
240.0	1885.19	1884.45	1884.20	1883.81	1883.29	1882.65	1881.69	1880.74	1879.69
270.0	1885.19	1883.91	1883.45	1882.96	1882.51	1881.74	1880.88	1879.87	1878.88
300.0	1885.19	1884.45	1884.20	1883.81	1883.29	1882.65	1881.69	1880.74	1879.69
330.0	1885.19	1885.40	1885.37	1885.00	1884.40	1883.86	1882.94	1881.93	1880.78
360.0	1885.19	1885.82	1885.73	1885.31	1884.69	1884.14	1883.35	1882.24	1881.06

C/γ(°)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
0.0	1879.89	1878.52	1876.78	1875.08	1873.28	1871.25	1868.97	1866.92	1864.52
30.0	1879.51	1878.13	1876.48	1874.73	1872.91	1870.92	1868.73	1866.58	1864.23
60.0	1878.31	1876.85	1875.31	1873.46	1871.66	1869.76	1867.53	1865.30	1862.88
90.0	1877.54	1875.98	1874.45	1872.54	1870.80	1868.96	1866.59	1864.39	1861.81
120.0	1878.31	1876.85	1875.31	1873.46	1871.66	1869.76	1867.53	1865.30	1862.88
150.0	1879.51	1878.13	1876.48	1874.73	1872.91	1870.92	1868.73	1866.58	1864.23
180.0	1879.89	1878.52	1876.78	1875.08	1873.28	1871.25	1868.97	1866.92	1864.52
210.0	1879.51	1878.13	1876.48	1874.73	1872.91	1870.92	1868.73	1866.58	1864.23
240.0	1878.31	1876.85	1875.31	1873.46	1871.66	1869.76	1867.53	1865.30	1862.88
270.0	1877.54	1875.98	1874.45	1872.54	1870.80	1868.96	1866.59	1864.39	1861.81
300.0	1878.31	1876.85	1875.31	1873.46	1871.66	1869.76	1867.53	1865.30	1862.88
330.0	1879.51	1878.13	1876.48	1874.73	1872.91	1870.92	1868.73	1866.58	1864.23
360.0	1879.89	1878.52	1876.78	1875.08	1873.28	1871.25	1868.97	1866.92	1864.52

C/γ(°)	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
0.0	1861.76	1859.09	1856.20	1853.12	1849.93	1846.57	1843.27	1839.70	1836.26
30.0	1861.48	1858.89	1855.91	1852.89	1849.71	1846.35	1842.97	1839.52	1835.97
60.0	1860.22	1857.56	1854.65	1851.64	1848.43	1845.10	1841.66	1838.34	1834.74
90.0	1859.29	1856.40	1853.73	1850.63	1847.38	1844.07	1840.68	1837.35	1833.80
120.0	1860.22	1857.56	1854.65	1851.64	1848.43	1845.10	1841.66	1838.34	1834.74
150.0	1861.48	1858.89	1855.91	1852.89	1849.71	1846.35	1842.97	1839.52	1835.97
180.0	1861.76	1859.09	1856.20	1853.12	1849.93	1846.57	1843.27	1839.70	1836.26
210.0	1861.48	1858.89	1855.91	1852.89	1849.71	1846.35	1842.97	1839.52	1835.97
240.0	1860.22	1857.56	1854.65	1851.64	1848.43	1845.10	1841.66	1838.34	1834.74
270.0	1859.29	1856.40	1853.73	1850.63	1847.38	1844.07	1840.68	1837.35	1833.80
300.0	1860.22	1857.56	1854.65	1851.64	1848.43	1845.10	1841.66	1838.34	1834.74
330.0	1861.48	1858.89	1855.91	1852.89	1849.71	1846.35	1842.97	1839.52	1835.97
360.0	1861.76	1859.09	1856.20	1853.12	1849.93	1846.57	1843.27	1839.70	1836.26

C/γ(°)	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5
0.0	1832.39	1828.41	1824.18	1819.80	1815.11	1810.59	1805.79	1800.91	1795.84
30.0	1832.06	1828.18	1823.95	1819.53	1815.00	1810.39	1805.59	1800.60	1795.51
60.0	1830.84	1826.93	1822.72	1818.18	1813.86	1809.14	1804.24	1799.19	1794.14
90.0	1829.98	1825.92	1821.74	1817.11	1812.84	1808.14	1803.10	1798.11	1793.15
120.0	1830.84	1826.93	1822.72	1818.18	1813.86	1809.14	1804.24	1799.19	1794.14
150.0	1832.06	1828.18	1823.95	1819.53	1815.00	1810.39	1805.59	1800.60	1795.51
180.0	1832.39	1828.41	1824.18	1819.80	1815.11	1810.59	1805.79	1800.91	1795.84
210.0	1832.06	1828.18	1823.95	1819.53	1815.00	1810.39	1805.59	1800.60	1795.51
240.0	1830.84	1826.93	1822.72	1818.18	1813.86	1809.14	1804.24	1799.19	1794.14
270.0	1829.98	1825.92	1821.74	1817.11	1812.84	1808.14	1803.10	1798.11	1793.15
300.0	1830.84	1826.93	1822.72	1818.18	1813.86	1809.14	1804.24	1799.19	1794.14
330.0	1832.06	1828.18	1823.95	1819.53	1815.00	1810.39	1805.59	1800.60	1795.51
360.0	1832.39	1828.41	1824.18	1819.80	1815.11	1810.59	1805.79	1800.91	1795.84

Intensity data(cd)

Appendix Page: 17 Total:21

C/γ(°)	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0
0.0	1790.51	1785.19	1779.61	1773.80	1767.91	1761.71	1755.45	1749.11	1742.30
30.0	1790.24	1784.85	1779.40	1773.61	1767.65	1761.51	1755.34	1748.88	1742.25
60.0	1788.91	1783.60	1778.18	1772.34	1766.46	1760.33	1754.15	1747.60	1740.91
90.0	1787.83	1782.73	1777.18	1771.25	1765.54	1759.39	1753.06	1746.60	1739.62
120.0	1788.91	1783.60	1778.18	1772.34	1766.46	1760.33	1754.15	1747.60	1740.91
150.0	1790.24	1784.85	1779.40	1773.61	1767.65	1761.51	1755.34	1748.88	1742.25
180.0	1790.51	1785.19	1779.61	1773.80	1767.91	1761.71	1755.45	1749.11	1742.30
210.0	1790.24	1784.85	1779.40	1773.61	1767.65	1761.51	1755.34	1748.88	1742.25
240.0	1788.91	1783.60	1778.18	1772.34	1766.46	1760.33	1754.15	1747.60	1740.91
270.0	1787.83	1782.73	1777.18	1771.25	1765.54	1759.39	1753.06	1746.60	1739.62
300.0	1788.91	1783.60	1778.18	1772.34	1766.46	1760.33	1754.15	1747.60	1740.91
330.0	1790.24	1784.85	1779.40	1773.61	1767.65	1761.51	1755.34	1748.88	1742.25
360.0	1790.51	1785.19	1779.61	1773.80	1767.91	1761.71	1755.45	1749.11	1742.30

C/γ(°)	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5
0.0	1735.40	1728.44	1721.20	1713.69	1706.04	1698.12	1689.69	1681.54	1672.90
30.0	1735.50	1728.68	1721.57	1714.17	1706.61	1698.83	1690.52	1682.41	1673.99
60.0	1734.19	1727.55	1720.52	1713.04	1705.43	1697.75	1689.45	1681.28	1672.90
90.0	1732.77	1726.21	1719.15	1711.45	1703.68	1696.03	1687.55	1679.30	1670.75
120.0	1734.19	1727.55	1720.52	1713.04	1705.43	1697.75	1689.45	1681.28	1672.90
150.0	1735.50	1728.68	1721.57	1714.17	1706.61	1698.83	1690.52	1682.41	1673.99
180.0	1735.40	1728.44	1721.20	1713.69	1706.04	1698.12	1689.69	1681.54	1672.90
210.0	1735.50	1728.68	1721.57	1714.17	1706.61	1698.83	1690.52	1682.41	1673.99
240.0	1734.19	1727.55	1720.52	1713.04	1705.43	1697.75	1689.45	1681.28	1672.90
270.0	1732.77	1726.21	1719.15	1711.45	1703.68	1696.03	1687.55	1679.30	1670.75
300.0	1734.19	1727.55	1720.52	1713.04	1705.43	1697.75	1689.45	1681.28	1672.90
330.0	1735.50	1728.68	1721.57	1714.17	1706.61	1698.83	1690.52	1682.41	1673.99
360.0	1735.40	1728.44	1721.20	1713.69	1706.04	1698.12	1689.69	1681.54	1672.90

C/γ(°)	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0
0.0	1663.83	1654.52	1645.11	1635.33	1625.33	1615.02	1604.35	1593.13	1581.67
30.0	1665.17	1656.02	1646.74	1637.08	1627.18	1617.04	1606.48	1595.50	1584.28
60.0	1664.05	1655.09	1645.67	1635.93	1626.22	1616.03	1605.25	1594.26	1583.06
90.0	1661.60	1652.74	1643.02	1633.00	1623.46	1613.04	1601.91	1590.69	1579.29
120.0	1664.05	1655.09	1645.67	1635.93	1626.22	1616.03	1605.25	1594.26	1583.06
150.0	1665.17	1656.02	1646.74	1637.08	1627.18	1617.04	1606.48	1595.50	1584.28
180.0	1663.83	1654.52	1645.11	1635.33	1625.33	1615.02	1604.35	1593.13	1581.67
210.0	1665.17	1656.02	1646.74	1637.08	1627.18	1617.04	1606.48	1595.50	1584.28
240.0	1664.05	1655.09	1645.67	1635.93	1626.22	1616.03	1605.25	1594.26	1583.06
270.0	1661.60	1652.74	1643.02	1633.00	1623.46	1613.04	1601.91	1590.69	1579.29
300.0	1664.05	1655.09	1645.67	1635.93	1626.22	1616.03	1605.25	1594.26	1583.06
330.0	1665.17	1656.02	1646.74	1637.08	1627.18	1617.04	1606.48	1595.50	1584.28
360.0	1663.83	1654.52	1645.11	1635.33	1625.33	1615.02	1604.35	1593.13	1581.67

C/γ(°)	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5
0.0	1569.44	1556.65	1543.42	1529.42	1514.58	1498.81	1481.61	1463.03	1443.13
30.0	1572.32	1559.92	1547.21	1533.77	1519.88	1505.21	1489.43	1472.71	1455.00
60.0	1571.12	1558.63	1545.80	1532.19	1518.28	1503.40	1487.34	1470.58	1452.58
90.0	1567.12	1554.13	1540.66	1526.35	1511.49	1495.29	1477.55	1458.94	1438.44
120.0	1571.12	1558.63	1545.80	1532.19	1518.28	1503.40	1487.34	1470.58	1452.58
150.0	1572.32	1559.92	1547.21	1533.77	1519.88	1505.21	1489.43	1472.71	1455.00
180.0	1569.44	1556.65	1543.42	1529.42	1514.58	1498.81	1481.61	1463.03	1443.13
210.0	1572.32	1559.92	1547.21	1533.77	1519.88	1505.21	1489.43	1472.71	1455.00
240.0	1571.12	1558.63	1545.80	1532.19	1518.28	1503.40	1487.34	1470.58	1452.58
270.0	1567.12	1554.13	1540.66	1526.35	1511.49	1495.29	1477.55	1458.94	1438.44
300.0	1571.12	1558.63	1545.80	1532.19	1518.28	1503.40	1487.34	1470.58	1452.58
330.0	1572.32	1559.92	1547.21	1533.77	1519.88	1505.21	1489.43	1472.71	1455.00
360.0	1569.44	1556.65	1543.42	1529.42	1514.58	1498.81	1481.61	1463.03	1443.13

Intensity data(cd)

Appendix Page: 18 Total:21

C/γ(°)	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
0.0	1421.80	1398.65	1373.31	1346.38	1317.36	1286.88	1254.85	1221.87	1188.41
30.0	1436.26	1416.12	1394.67	1371.74	1347.11	1321.09	1293.58	1264.86	1234.96
60.0	1433.65	1413.14	1391.52	1368.38	1343.88	1317.53	1289.97	1261.01	1231.01
90.0	1416.79	1392.95	1367.20	1339.87	1311.20	1280.02	1247.89	1214.44	1180.78
120.0	1433.65	1413.14	1391.52	1368.38	1343.88	1317.53	1289.97	1261.01	1231.01
150.0	1436.26	1416.12	1394.67	1371.74	1347.11	1321.09	1293.58	1264.86	1234.96
180.0	1421.80	1398.65	1373.31	1346.38	1317.36	1286.88	1254.85	1221.87	1188.41
210.0	1436.26	1416.12	1394.67	1371.74	1347.11	1321.09	1293.58	1264.86	1234.96
240.0	1433.65	1413.14	1391.52	1368.38	1343.88	1317.53	1289.97	1261.01	1231.01
270.0	1416.79	1392.95	1367.20	1339.87	1311.20	1280.02	1247.89	1214.44	1180.78
300.0	1433.65	1413.14	1391.52	1368.38	1343.88	1317.53	1289.97	1261.01	1231.01
330.0	1436.26	1416.12	1394.67	1371.74	1347.11	1321.09	1293.58	1264.86	1234.96
360.0	1421.80	1398.65	1373.31	1346.38	1317.36	1286.88	1254.85	1221.87	1188.41

C/γ(°)	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5
0.0	1154.55	1121.50	1088.48	1056.17	1024.91	994.69	965.97	938.17	911.19
30.0	1203.52	1171.63	1138.43	1104.40	1069.79	1034.86	1000.09	965.15	931.10
60.0	1199.46	1167.25	1133.95	1099.92	1065.15	1030.28	995.17	959.86	925.90
90.0	1146.67	1112.95	1079.74	1047.42	1015.76	985.67	956.17	927.62	900.79
120.0	1199.46	1167.25	1133.95	1099.92	1065.15	1030.28	995.17	959.86	925.90
150.0	1203.52	1171.63	1138.43	1104.40	1069.79	1034.86	1000.09	965.15	931.10
180.0	1154.55	1121.50	1088.48	1056.17	1024.91	994.69	965.97	938.17	911.19
210.0	1203.52	1171.63	1138.43	1104.40	1069.79	1034.86	1000.09	965.15	931.10
240.0	1199.46	1167.25	1133.95	1099.92	1065.15	1030.28	995.17	959.86	925.90
270.0	1146.67	1112.95	1079.74	1047.42	1015.76	985.67	956.17	927.62	900.79
300.0	1199.46	1167.25	1133.95	1099.92	1065.15	1030.28	995.17	959.86	925.90
330.0	1203.52	1171.63	1138.43	1104.40	1069.79	1034.86	1000.09	965.15	931.10
360.0	1154.55	1121.50	1088.48	1056.17	1024.91	994.69	965.97	938.17	911.19

C/γ(°)	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0
0.0	885.46	860.40	835.87	811.91	788.07	764.72	741.62	718.34	695.41
30.0	897.68	864.93	833.43	802.78	773.08	744.33	716.65	690.07	664.22
60.0	892.29	859.23	827.76	797.05	767.75	739.00	711.26	684.94	659.26
90.0	874.66	848.90	824.41	800.28	777.24	753.84	730.65	707.82	685.34
120.0	892.29	859.23	827.76	797.05	767.75	739.00	711.26	684.94	659.26
150.0	897.68	864.93	833.43	802.78	773.08	744.33	716.65	690.07	664.22
180.0	885.46	860.40	835.87	811.91	788.07	764.72	741.62	718.34	695.41
210.0	897.68	864.93	833.43	802.78	773.08	744.33	716.65	690.07	664.22
240.0	892.29	859.23	827.76	797.05	767.75	739.00	711.26	684.94	659.26
270.0	874.66	848.90	824.41	800.28	777.24	753.84	730.65	707.82	685.34
300.0	892.29	859.23	827.76	797.05	767.75	739.00	711.26	684.94	659.26
330.0	897.68	864.93	833.43	802.78	773.08	744.33	716.65	690.07	664.22
360.0	885.46	860.40	835.87	811.91	788.07	764.72	741.62	718.34	695.41

C/γ(°)	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5
0.0	672.54	650.15	627.76	605.48	583.62	561.99	540.67	520.17	500.63
30.0	639.29	614.91	590.95	567.93	545.87	524.76	504.53	485.29	466.91
60.0	634.57	610.30	586.49	563.75	541.78	520.77	500.63	481.62	463.46
90.0	662.88	640.75	618.61	596.80	575.18	553.74	532.57	512.60	493.55
120.0	634.57	610.30	586.49	563.75	541.78	520.77	500.63	481.62	463.46
150.0	639.29	614.91	590.95	567.93	545.87	524.76	504.53	485.29	466.91
180.0	672.54	650.15	627.76	605.48	583.62	561.99	540.67	520.17	500.63
210.0	639.29	614.91	590.95	567.93	545.87	524.76	504.53	485.29	466.91
240.0	634.57	610.30	586.49	563.75	541.78	520.77	500.63	481.62	463.46
270.0	662.88	640.75	618.61	596.80	575.18	553.74	532.57	512.60	493.55
300.0	634.57	610.30	586.49	563.75	541.78	520.77	500.63	481.62	463.46
330.0	639.29	614.91	590.95	567.93	545.87	524.76	504.53	485.29	466.91
360.0	672.54	650.15	627.76	605.48	583.62	561.99	540.67	520.17	500.63

Intensity data(cd)

Appendix Page: 19 Total:21

C/ γ (°)	54.0	54.5	55.0	55.5	56.0	56.5	57.0	57.5	58.0
0.0	482.10	464.64	448.02	432.12	417.14	403.00	389.44	376.99	365.55
30.0	449.65	433.30	417.79	403.00	389.05	375.78	362.89	350.75	339.26
60.0	446.25	429.86	414.47	399.68	385.74	372.67	360.00	347.98	336.56
90.0	475.12	457.60	441.27	425.35	410.40	396.70	383.52	371.32	359.99
120.0	446.25	429.86	414.47	399.68	385.74	372.67	360.00	347.98	336.56
150.0	449.65	433.30	417.79	403.00	389.05	375.78	362.89	350.75	339.26
180.0	482.10	464.64	448.02	432.12	417.14	403.00	389.44	376.99	365.55
210.0	449.65	433.30	417.79	403.00	389.05	375.78	362.89	350.75	339.26
240.0	446.25	429.86	414.47	399.68	385.74	372.67	360.00	347.98	336.56
270.0	475.12	457.60	441.27	425.35	410.40	396.70	383.52	371.32	359.99
300.0	446.25	429.86	414.47	399.68	385.74	372.67	360.00	347.98	336.56
330.0	449.65	433.30	417.79	403.00	389.05	375.78	362.89	350.75	339.26
360.0	482.10	464.64	448.02	432.12	417.14	403.00	389.44	376.99	365.55

C/ γ (°)	58.5	59.0	59.5	60.0	60.5	61.0	61.5	62.0	62.5
0.0	355.43	346.28	338.08	330.82	324.18	318.18	312.83	307.97	303.58
30.0	328.61	318.59	309.22	300.39	291.98	284.06	276.73	269.85	263.36
60.0	325.92	315.90	306.57	297.73	289.38	281.49	274.17	267.32	260.88
90.0	349.93	340.78	332.63	325.36	318.85	312.91	307.56	302.74	298.46
120.0	325.92	315.90	306.57	297.73	289.38	281.49	274.17	267.32	260.88
150.0	328.61	318.59	309.22	300.39	291.98	284.06	276.73	269.85	263.36
180.0	355.43	346.28	338.08	330.82	324.18	318.18	312.83	307.97	303.58
210.0	328.61	318.59	309.22	300.39	291.98	284.06	276.73	269.85	263.36
240.0	325.92	315.90	306.57	297.73	289.38	281.49	274.17	267.32	260.88
270.0	349.93	340.78	332.63	325.36	318.85	312.91	307.56	302.74	298.46
300.0	325.92	315.90	306.57	297.73	289.38	281.49	274.17	267.32	260.88
330.0	328.61	318.59	309.22	300.39	291.98	284.06	276.73	269.85	263.36
360.0	355.43	346.28	338.08	330.82	324.18	318.18	312.83	307.97	303.58

C/ γ (°)	63.0	63.5	64.0	64.5	65.0	65.5	66.0	66.5	67.0
0.0	299.71	296.05	292.65	289.39	286.50	283.74	281.14	278.46	275.61
30.0	257.36	251.76	246.61	241.89	237.76	234.03	230.67	227.49	224.43
60.0	254.87	249.24	244.04	239.54	235.56	231.98	228.73	225.66	222.67
90.0	294.57	290.87	287.32	284.52	281.92	279.48	277.10	274.63	271.94
120.0	254.87	249.24	244.04	239.54	235.56	231.98	228.73	225.66	222.67
150.0	257.36	251.76	246.61	241.89	237.76	234.03	230.67	227.49	224.43
180.0	299.71	296.05	292.65	289.39	286.50	283.74	281.14	278.46	275.61
210.0	257.36	251.76	246.61	241.89	237.76	234.03	230.67	227.49	224.43
240.0	254.87	249.24	244.04	239.54	235.56	231.98	228.73	225.66	222.67
270.0	294.57	290.87	287.32	284.52	281.92	279.48	277.10	274.63	271.94
300.0	254.87	249.24	244.04	239.54	235.56	231.98	228.73	225.66	222.67
330.0	257.36	251.76	246.61	241.89	237.76	234.03	230.67	227.49	224.43
360.0	299.71	296.05	292.65	289.39	286.50	283.74	281.14	278.46	275.61

C/ γ (°)	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5
0.0	272.42	268.80	264.71	260.03	254.63	248.49	241.75	234.42	226.69
30.0	221.36	218.23	215.00	211.61	207.97	204.08	199.99	195.66	191.18
60.0	219.69	216.65	213.46	210.10	206.51	202.68	198.67	194.45	190.02
90.0	268.95	265.52	261.51	256.90	251.60	245.57	239.00	231.88	224.26
120.0	219.69	216.65	213.46	210.10	206.51	202.68	198.67	194.45	190.02
150.0	221.36	218.23	215.00	211.61	207.97	204.08	199.99	195.66	191.18
180.0	272.42	268.80	264.71	260.03	254.63	248.49	241.75	234.42	226.69
210.0	221.36	218.23	215.00	211.61	207.97	204.08	199.99	195.66	191.18
240.0	219.69	216.65	213.46	210.10	206.51	202.68	198.67	194.45	190.02
270.0	268.95	265.52	261.51	256.90	251.60	245.57	239.00	231.88	224.26
300.0	219.69	216.65	213.46	210.10	206.51	202.68	198.67	194.45	190.02
330.0	221.36	218.23	215.00	211.61	207.97	204.08	199.99	195.66	191.18
360.0	272.42	268.80	264.71	260.03	254.63	248.49	241.75	234.42	226.69

Intensity data(cd)

Appendix Page: 20 Total:21

C/γ(°)	72.0	72.5	73.0	73.5	74.0	74.5	75.0	75.5	76.0
0.0	218.80	210.89	203.03	195.55	188.44	181.69	175.42	169.72	164.42
30.0	186.62	182.05	177.44	172.94	168.54	164.16	159.86	155.71	151.58
60.0	185.56	181.07	176.56	172.14	167.80	163.55	159.36	155.32	151.31
90.0	216.58	208.83	201.17	193.86	186.88	180.42	174.38	168.90	163.86
120.0	185.56	181.07	176.56	172.14	167.80	163.55	159.36	155.32	151.31
150.0	186.62	182.05	177.44	172.94	168.54	164.16	159.86	155.71	151.58
180.0	218.80	210.89	203.03	195.55	188.44	181.69	175.42	169.72	164.42
210.0	186.62	182.05	177.44	172.94	168.54	164.16	159.86	155.71	151.58
240.0	185.56	181.07	176.56	172.14	167.80	163.55	159.36	155.32	151.31
270.0	216.58	208.83	201.17	193.86	186.88	180.42	174.38	168.90	163.86
300.0	185.56	181.07	176.56	172.14	167.80	163.55	159.36	155.32	151.31
330.0	186.62	182.05	177.44	172.94	168.54	164.16	159.86	155.71	151.58
360.0	218.80	210.89	203.03	195.55	188.44	181.69	175.42	169.72	164.42

C/γ(°)	76.5	77.0	77.5	78.0	78.5	79.0	79.5	80.0	80.5
0.0	159.42	154.68	150.10	145.62	141.16	136.69	132.15	127.51	122.85
30.0	147.47	143.32	139.11	134.85	130.48	126.03	121.46	116.74	111.99
60.0	147.29	143.26	139.16	135.01	130.73	126.35	121.82	117.16	112.46
90.0	159.05	154.55	150.19	145.94	141.65	137.33	132.86	128.35	123.79
120.0	147.29	143.26	139.16	135.01	130.73	126.35	121.82	117.16	112.46
150.0	147.47	143.32	139.11	134.85	130.48	126.03	121.46	116.74	111.99
180.0	159.42	154.68	150.10	145.62	141.16	136.69	132.15	127.51	122.85
210.0	147.47	143.32	139.11	134.85	130.48	126.03	121.46	116.74	111.99
240.0	147.29	143.26	139.16	135.01	130.73	126.35	121.82	117.16	112.46
270.0	159.05	154.55	150.19	145.94	141.65	137.33	132.86	128.35	123.79
300.0	147.29	143.26	139.16	135.01	130.73	126.35	121.82	117.16	112.46
330.0	147.47	143.32	139.11	134.85	130.48	126.03	121.46	116.74	111.99
360.0	159.42	154.68	150.10	145.62	141.16	136.69	132.15	127.51	122.85

C/γ(°)	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5	85.0
0.0	118.19	113.55	108.82	103.85	98.33	92.14	85.26	77.83	69.88
30.0	107.17	102.32	97.41	92.35	86.98	81.24	75.15	68.76	62.09
60.0	107.72	102.89	97.97	92.88	87.51	81.75	75.70	69.27	62.61
90.0	119.27	114.70	109.97	104.93	99.42	93.18	86.38	78.88	70.93
120.0	107.72	102.89	97.97	92.88	87.51	81.75	75.70	69.27	62.61
150.0	107.17	102.32	97.41	92.35	86.98	81.24	75.15	68.76	62.09
180.0	118.19	113.55	108.82	103.85	98.33	92.14	85.26	77.83	69.88
210.0	107.17	102.32	97.41	92.35	86.98	81.24	75.15	68.76	62.09
240.0	107.72	102.89	97.97	92.88	87.51	81.75	75.70	69.27	62.61
270.0	119.27	114.70	109.97	104.93	99.42	93.18	86.38	78.88	70.93
300.0	107.72	102.89	97.97	92.88	87.51	81.75	75.70	69.27	62.61
330.0	107.17	102.32	97.41	92.35	86.98	81.24	75.15	68.76	62.09
360.0	118.19	113.55	108.82	103.85	98.33	92.14	85.26	77.83	69.88

C/γ(°)	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5
0.0	61.66	53.40	45.18	37.26	29.63	22.60	16.27	10.71	6.17
30.0	55.23	48.31	41.33	34.46	27.70	21.24	15.28	10.00	5.72
60.0	55.76	48.87	41.85	34.93	28.19	21.69	15.70	10.36	6.06
90.0	62.73	54.51	46.21	38.19	30.57	23.46	17.06	11.39	6.78
120.0	55.76	48.87	41.85	34.93	28.19	21.69	15.70	10.36	6.06
150.0	55.23	48.31	41.33	34.46	27.70	21.24	15.28	10.00	5.72
180.0	61.66	53.40	45.18	37.26	29.63	22.60	16.27	10.71	6.17
210.0	55.23	48.31	41.33	34.46	27.70	21.24	15.28	10.00	5.72
240.0	55.76	48.87	41.85	34.93	28.19	21.69	15.70	10.36	6.06
270.0	62.73	54.51	46.21	38.19	30.57	23.46	17.06	11.39	6.78
300.0	55.76	48.87	41.85	34.93	28.19	21.69	15.70	10.36	6.06
330.0	55.23	48.31	41.33	34.46	27.70	21.24	15.28	10.00	5.72
360.0	61.66	53.40	45.18	37.26	29.63	22.60	16.27	10.71	6.17

Intensity data(cd)

Appendix Page: 21 Total:21

C/γ(°)	90.0
0.0	1.13
30.0	1.01
60.0	1.37
90.0	3.68
120.0	1.37
150.0	1.01
180.0	1.13
210.0	1.01
240.0	1.37
270.0	3.68
300.0	1.37
330.0	1.01
360.0	1.13