

Report No	:		Voltage	:	V
Test No	:	A2401357A001	Current	:	A
LumCAT	:	LIT by CARDI	Power	:	27.000 W
Luminaire	:	0028920182 27W 4000K 3240lm PF		:	
LampCAT	:		Ballast type	:	
Lamp flux	:	3240.0 lm	Width	:	555 mm
Number of Lamps	:	1	Length	:	555 mm
Phm Type	:	C	Height	:	0 mm

Photometric Results

Lumens(lm)	:	3240.00	Central intensity(cd)	:	1542.426
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	1542.947
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	1542.426	0.000	0	0.00%	0.00%
0.5	1542.197	0.369	0.369	0.01%	0.01%
1.0	1542.043	1.107	1.476	0.03%	0.05%
1.5	1541.710	1.844	3.32	0.06%	0.10%
2.0	1541.261	2.581	5.901	0.08%	0.18%
2.5	1540.759	3.317	9.218	0.10%	0.28%
3.0	1540.022	4.052	13.271	0.13%	0.41%
3.5	1539.197	4.786	18.057	0.15%	0.56%
4.0	1538.301	5.518	23.575	0.17%	0.73%
4.5	1537.236	6.249	29.823	0.19%	0.92%
5.0	1536.062	6.977	36.801	0.22%	1.14%
5.5	1534.746	7.703	44.504	0.24%	1.37%
6.0	1533.272	8.427	52.931	0.26%	1.63%
6.5	1531.803	9.148	62.079	0.28%	1.92%
7.0	1530.212	9.867	71.946	0.30%	2.22%
7.5	1528.374	10.582	82.528	0.33%	2.55%
8.0	1526.599	11.294	93.822	0.35%	2.90%
8.5	1524.620	12.003	105.825	0.37%	3.27%
9.0	1522.427	12.708	118.533	0.39%	3.66%
9.5	1520.236	13.409	131.942	0.41%	4.07%
10.0	1517.871	14.105	146.047	0.44%	4.51%
10.5	1515.382	14.797	160.844	0.46%	4.96%
11.0	1512.762	15.485	176.329	0.48%	5.44%
11.5	1510.028	16.167	192.497	0.50%	5.94%
12.0	1507.257	16.845	209.342	0.52%	6.46%
12.5	1504.468	17.519	226.861	0.54%	7.00%
13.0	1501.567	18.188	245.049	0.56%	7.56%
13.5	1498.387	18.851	263.9	0.58%	8.15%
14.0	1495.164	19.507	283.407	0.60%	8.75%
14.5	1491.716	20.157	303.563	0.62%	9.37%
15.0	1488.044	20.799	324.362	0.64%	10.01%
15.5	1484.410	21.435	345.797	0.66%	10.67%
16.0	1480.608	22.065	367.862	0.68%	11.35%
16.5	1476.622	22.687	390.548	0.70%	12.05%
17.0	1472.536	23.301	413.85	0.72%	12.77%
17.5	1468.402	23.909	437.759	0.74%	13.51%
18.0	1464.086	24.510	462.269	0.76%	14.27%
18.5	1459.748	25.103	487.372	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	1455.264	25.688	513.06	0.79%	15.84%
19.5	1450.491	26.264	539.324	0.81%	16.65%
20.0	1445.682	26.831	566.154	0.83%	17.47%
20.5	1440.652	27.388	593.543	0.85%	18.32%
21.0	1435.564	27.937	621.48	0.86%	19.18%
21.5	1430.272	28.476	649.956	0.88%	20.06%
22.0	1424.762	29.004	678.96	0.90%	20.96%
22.5	1419.210	29.523	708.483	0.91%	21.87%
23.0	1413.697	30.034	738.517	0.93%	22.79%
23.5	1407.889	30.535	769.052	0.94%	23.74%
24.0	1401.758	31.023	800.075	0.96%	24.69%
24.5	1395.518	31.497	831.573	0.97%	25.67%
25.0	1389.179	31.962	863.535	0.99%	26.65%
25.5	1382.344	32.412	895.946	1.00%	27.65%
26.0	1375.667	32.849	928.796	1.01%	28.67%
26.5	1368.741	33.277	962.073	1.03%	29.69%
27.0	1361.434	33.689	995.763	1.04%	30.73%
27.5	1354.019	34.087	1029.849	1.05%	31.79%
28.0	1346.311	34.470	1064.319	1.06%	32.85%
28.5	1338.320	34.837	1099.156	1.08%	33.92%
29.0	1330.306	35.190	1134.346	1.09%	35.01%
29.5	1321.938	35.529	1169.875	1.10%	36.11%
30.0	1313.144	35.848	1205.722	1.11%	37.21%
30.5	1304.089	36.147	1241.869	1.12%	38.33%
31.0	1294.860	36.430	1278.3	1.12%	39.45%
31.5	1285.012	36.692	1314.992	1.13%	40.59%
32.0	1274.713	36.928	1351.919	1.14%	41.73%
32.5	1264.103	37.141	1389.06	1.15%	42.87%
33.0	1252.866	37.329	1426.39	1.15%	44.02%
33.5	1241.234	37.491	1463.88	1.16%	45.18%
34.0	1228.817	37.622	1501.502	1.16%	46.34%
34.5	1215.367	37.713	1539.215	1.16%	47.51%
35.0	1201.166	37.763	1576.978	1.17%	48.67%
35.5	1185.918	37.770	1614.748	1.17%	49.84%
36.0	1169.784	37.732	1652.48	1.16%	51.00%
36.5	1152.288	37.643	1690.123	1.16%	52.16%
37.0	1133.578	37.496	1727.619	1.16%	53.32%
37.5	1113.612	37.291	1764.91	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	1092.347	37.025	1801.935	1.14%	55.62%
38.5	1069.656	36.695	1838.631	1.13%	56.75%
39.0	1045.887	36.303	1874.933	1.12%	57.87%
39.5	1021.097	35.854	1910.787	1.11%	58.97%
40.0	995.609	35.354	1946.141	1.09%	60.07%
40.5	969.159	34.803	1980.944	1.07%	61.14%
41.0	942.573	34.212	2015.156	1.06%	62.20%
41.5	915.406	33.585	2048.741	1.04%	63.23%
42.0	888.033	32.923	2081.664	1.02%	64.25%
42.5	860.529	32.232	2113.896	0.99%	65.24%
43.0	833.270	31.521	2145.417	0.97%	66.22%
43.5	806.270	30.798	2176.215	0.95%	67.17%
44.0	779.430	30.062	2206.277	0.93%	68.09%
44.5	753.543	29.326	2235.603	0.91%	69.00%
45.0	728.190	28.599	2264.202	0.88%	69.88%
45.5	703.310	27.871	2292.073	0.86%	70.74%
46.0	679.455	27.154	2319.228	0.84%	71.58%
46.5	656.161	26.450	2345.678	0.82%	72.40%
47.0	633.676	25.756	2371.434	0.79%	73.19%
47.5	611.620	25.070	2396.504	0.77%	73.97%
48.0	590.194	24.389	2420.893	0.75%	74.72%
48.5	569.480	23.719	2444.613	0.73%	75.45%
49.0	549.235	23.059	2467.672	0.71%	76.16%
49.5	529.518	22.405	2490.076	0.69%	76.85%
50.0	510.179	21.755	2511.831	0.67%	77.53%
50.5	491.079	21.105	2532.936	0.65%	78.18%
51.0	472.588	20.459	2553.395	0.63%	78.81%
51.5	454.650	19.825	2573.22	0.61%	79.42%
52.0	437.291	19.203	2592.424	0.59%	80.01%
52.5	420.487	18.594	2611.018	0.57%	80.59%
53.0	404.536	18.004	2629.022	0.56%	81.14%
53.5	389.306	17.438	2646.46	0.54%	81.68%
54.0	374.867	16.895	2663.355	0.52%	82.20%
54.5	361.169	16.377	2679.732	0.51%	82.71%
55.0	348.246	15.883	2695.615	0.49%	83.20%
55.5	335.839	15.410	2711.024	0.48%	83.67%
56.0	324.154	14.956	2725.981	0.46%	84.14%
56.5	313.172	14.528	2740.508	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	302.556	14.117	2754.625	0.44%	85.02%
57.5	292.603	13.723	2768.348	0.42%	85.44%
58.0	283.251	13.352	2781.7	0.41%	85.85%
58.5	274.695	13.007	2794.707	0.40%	86.26%
59.0	266.731	12.690	2807.397	0.39%	86.65%
59.5	259.405	12.396	2819.793	0.38%	87.03%
60.0	252.601	12.126	2831.919	0.37%	87.40%
60.5	246.240	11.873	2843.792	0.37%	87.77%
61.0	240.298	11.638	2855.43	0.36%	88.13%
61.5	234.842	11.420	2866.851	0.35%	88.48%
62.0	229.778	11.221	2878.071	0.35%	88.83%
62.5	225.072	11.036	2889.107	0.34%	89.17%
63.0	220.737	10.866	2899.973	0.34%	89.51%
63.5	216.668	10.708	2910.681	0.33%	89.84%
64.0	212.902	10.562	2921.243	0.33%	90.16%
64.5	209.559	10.432	2931.675	0.32%	90.48%
65.0	206.598	10.319	2941.994	0.32%	90.80%
65.5	203.897	10.220	2952.214	0.32%	91.12%
66.0	201.416	10.131	2962.346	0.31%	91.43%
66.5	199.007	10.048	2972.394	0.31%	91.74%
67.0	196.603	9.965	2982.359	0.31%	92.05%
67.5	194.109	9.878	2992.237	0.30%	92.35%
68.0	191.466	9.784	3002.021	0.30%	92.65%
68.5	188.609	9.678	3011.699	0.30%	92.95%
69.0	185.502	9.559	3021.258	0.30%	93.25%
69.5	182.071	9.424	3030.681	0.29%	93.54%
70.0	178.305	9.269	3039.951	0.29%	93.83%
70.5	174.280	9.098	3049.048	0.28%	94.11%
71.0	169.979	8.910	3057.959	0.28%	94.38%
71.5	165.456	8.708	3066.667	0.27%	94.65%
72.0	160.874	8.496	3075.163	0.26%	94.91%
72.5	156.265	8.281	3083.444	0.26%	95.17%
73.0	151.663	8.062	3091.506	0.25%	95.42%
73.5	147.213	7.846	3099.352	0.24%	95.66%
74.0	142.910	7.636	3106.988	0.24%	95.89%
74.5	138.756	7.432	3114.42	0.23%	96.12%
75.0	134.760	7.235	3121.655	0.22%	96.35%
75.5	131.002	7.046	3128.701	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

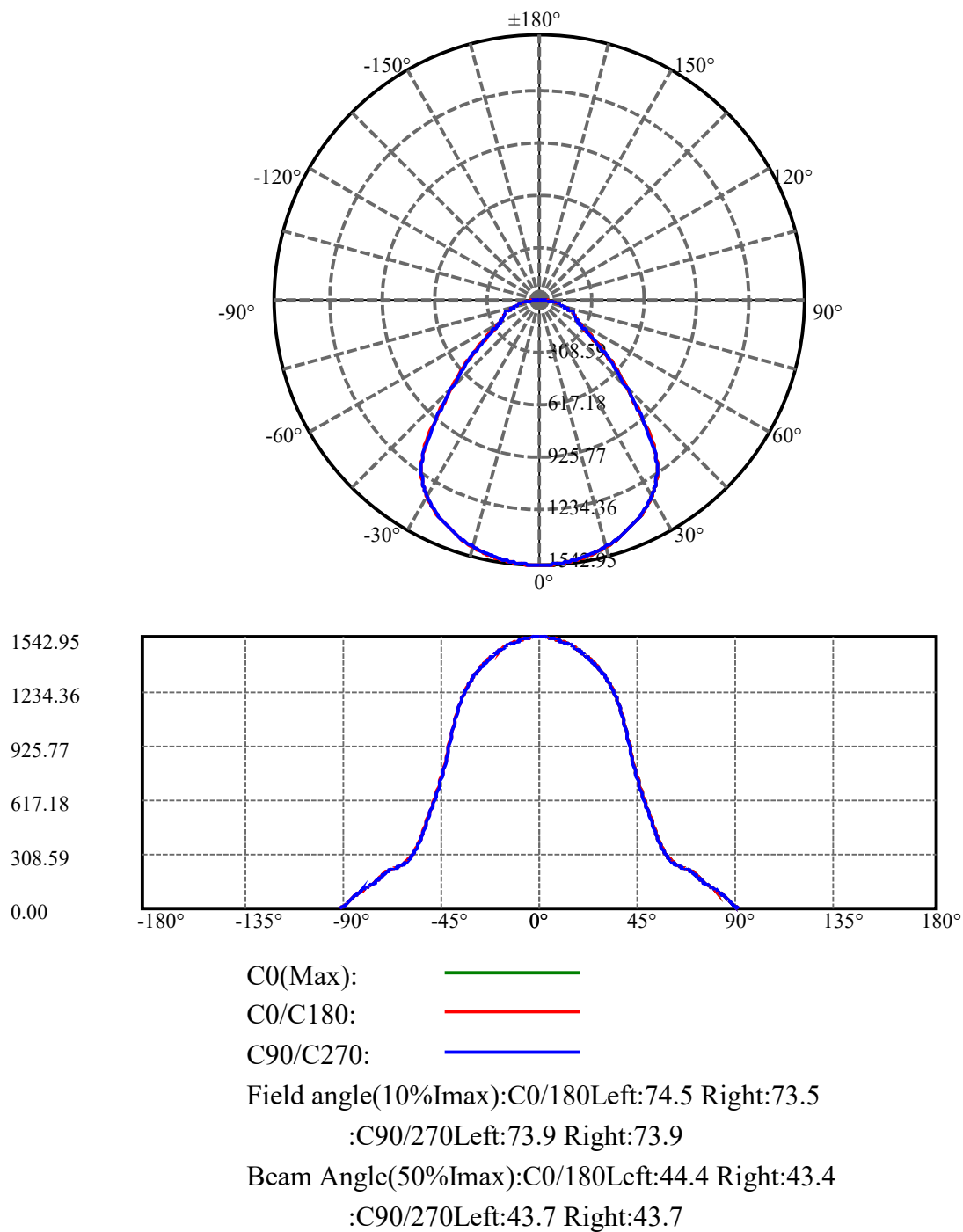
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	127.372	6.865	3135.566	0.21%	96.78%
76.5	123.816	6.689	3142.255	0.21%	96.98%
77.0	120.325	6.515	3148.77	0.20%	97.18%
77.5	116.840	6.342	3155.112	0.20%	97.38%
78.0	113.354	6.167	3161.279	0.19%	97.57%
78.5	109.804	5.990	3167.269	0.18%	97.76%
79.0	106.196	5.808	3173.077	0.18%	97.93%
79.5	102.487	5.621	3178.698	0.17%	98.11%
80.0	98.681	5.427	3184.125	0.17%	98.28%
80.5	94.848	5.229	3189.354	0.16%	98.44%
81.0	90.987	5.028	3194.382	0.16%	98.59%
81.5	87.089	4.825	3199.208	0.15%	98.74%
82.0	83.120	4.618	3203.826	0.14%	98.88%
82.5	78.989	4.404	3208.229	0.14%	99.02%
83.0	74.553	4.176	3212.405	0.13%	99.15%
83.5	69.723	3.928	3216.333	0.12%	99.27%
84.0	64.546	3.659	3219.992	0.11%	99.38%
84.5	59.014	3.370	3223.363	0.10%	99.49%
85.0	53.210	3.064	3226.426	0.09%	99.58%
85.5	47.230	2.744	3229.171	0.08%	99.67%
86.0	41.218	2.418	3231.589	0.07%	99.74%
86.5	35.147	2.089	3233.678	0.06%	99.80%
87.0	29.212	1.762	3235.439	0.05%	99.86%
87.5	23.449	1.442	3236.882	0.04%	99.90%
88.0	17.987	1.135	3238.017	0.04%	99.94%
88.5	12.996	0.849	3238.866	0.03%	99.96%
89.0	8.564	0.591	3239.457	0.02%	99.98%
89.5	4.979	0.371	3239.828	0.01%	99.99%
90.0	1.303	0.172	3240	0.01%	100.00%

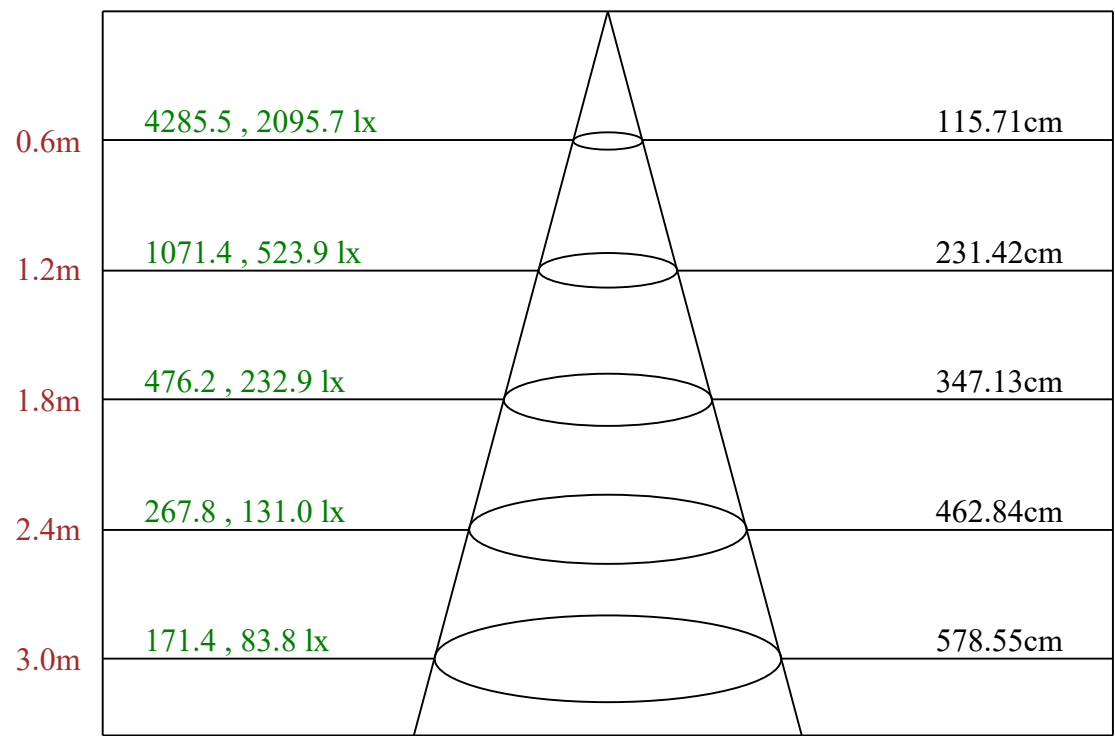
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1205.72	37.21%	37.21%
0-40	1946.14	60.07%	60.07%
0-60	2831.92	87.40%	87.40%
0-90	3239.83	99.99%	99.99%
0-120	3239.83	99.99%	99.99%
0-180	3240.00	100.00%	100.00%
60-90	407.91	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	2592.00	80.00%	80.00%

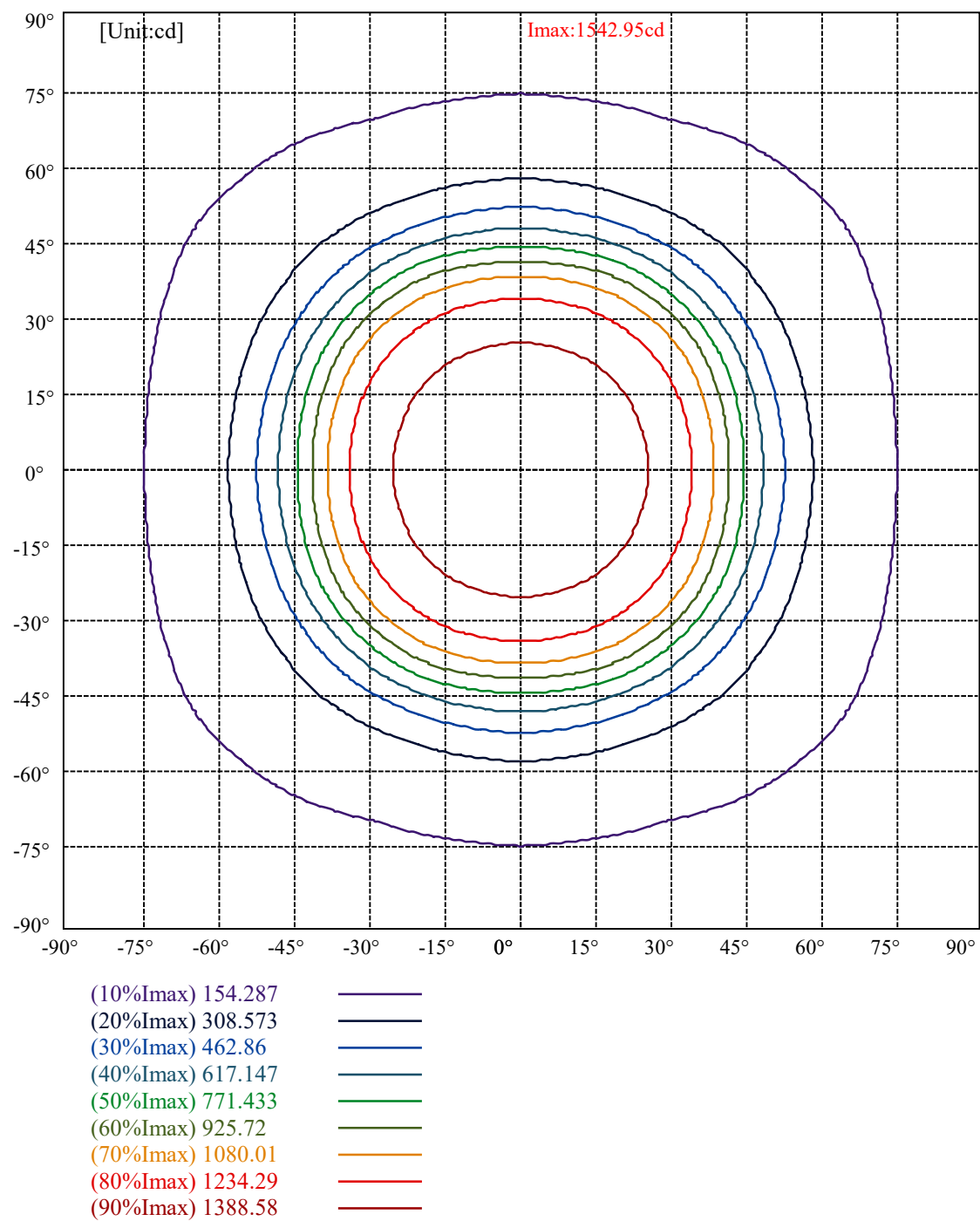
ZONAL LUMEN SUMMARY

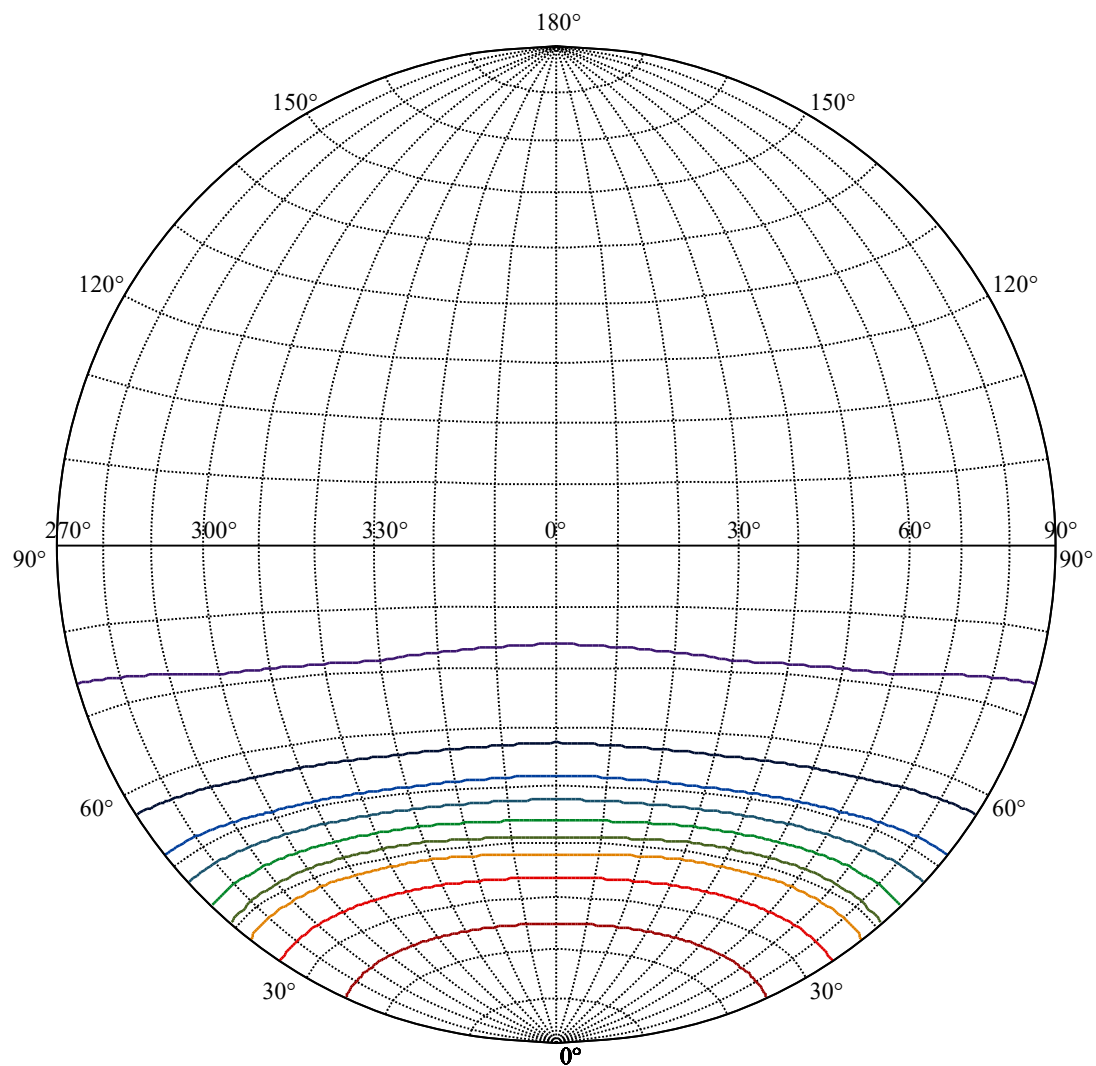
0-10	146.05
10-20	420.11
20-30	639.57
30-40	740.42
40-50	565.69
50-60	320.09
60-70	208.03
70-80	144.17
80-90	55.70
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C0 plane 87.91



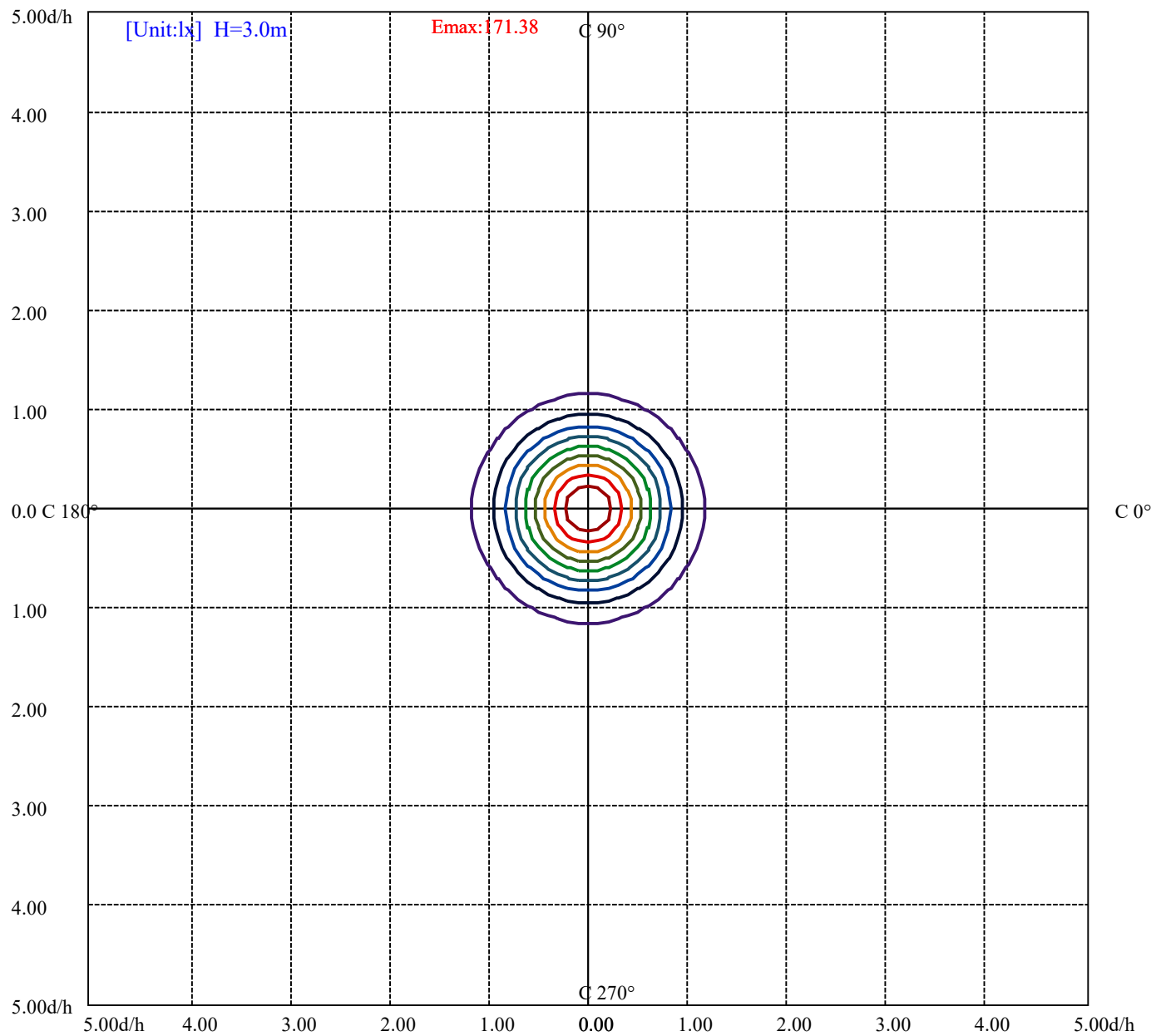


House

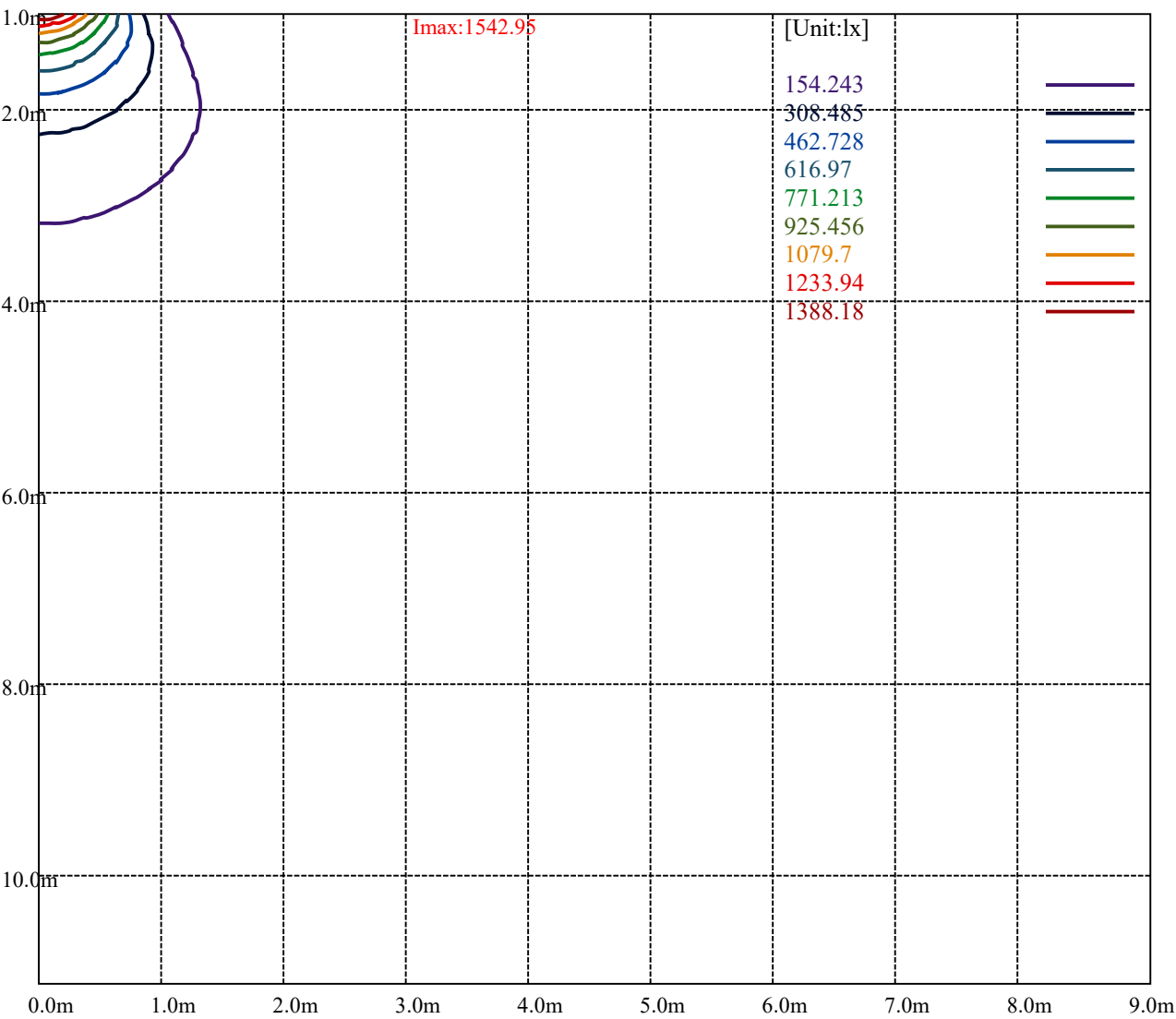
[Unit:cd]

Road

Imax:1542.95	
(10%Imax) 154.287	
(20%Imax) 308.573	
(30%Imax) 462.86	
(40%Imax) 617.147	
(50%Imax) 771.433	
(60%Imax) 925.72	
(70%Imax) 1080.01	
(80%Imax) 1234.29	
(90%Imax) 1388.58	



(10%Emax)	17.13811	
(20%Emax)	34.27611	
(30%Emax)	51.41422	
(40%Emax)	68.55222	
(50%Emax)	85.69034	
(60%Emax)	102.8284	
(70%Emax)	119.9667	
(80%Emax)	137.1044	
(90%Emax)	154.2422	



Luminance Limiting Curve(no luminous side)

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Luminance Table

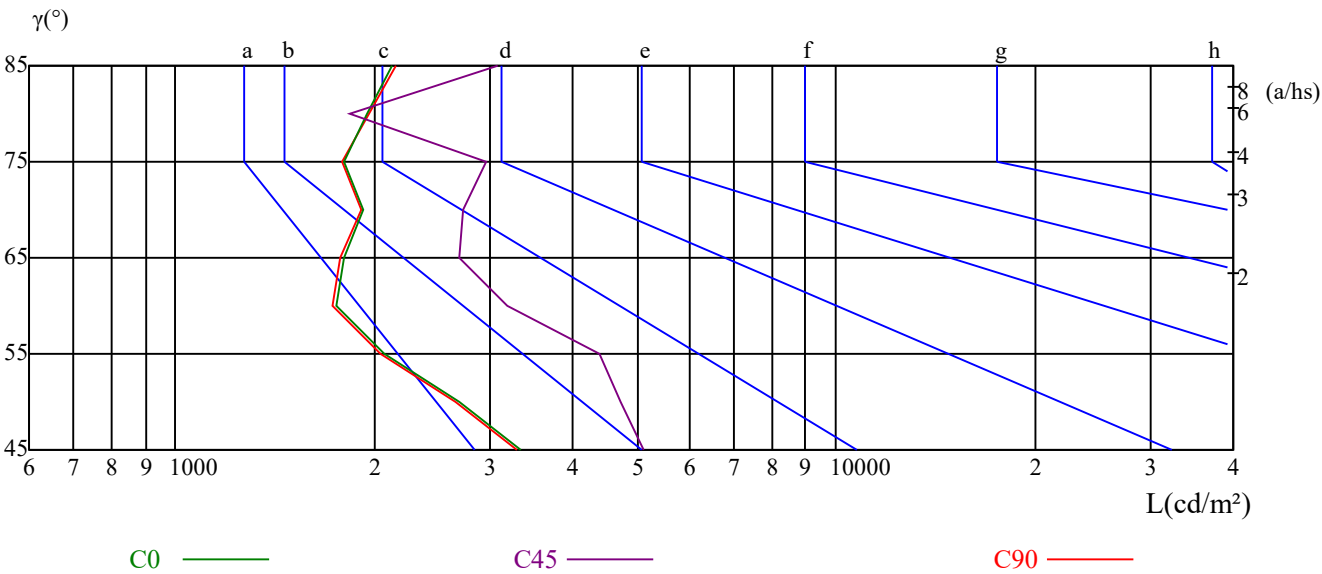
γ	45	50	55	60	65	70	75	80	85
C0	3326	2687	2075	1757	1801	1930	1800	1950	2130
C45	5103	4723	4389	3181	2699	2729	2952	1832	3083
C90	3286	2648	2043	1728	1772	1907	1790	1963	2162

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1801	1772	2688	1800	1790	2845	2130	2162	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	14.45	15.89	14.81	16.21	16.52	14.40	15.84	14.76	16.15	16.46
	3H	15.66	16.96	16.04	17.30	17.64	15.60	16.90	15.98	17.23	17.57
	4H	16.25	17.47	16.65	17.82	18.18	16.19	17.41	16.59	17.76	18.12
	6H	16.84	17.97	17.25	18.34	18.73	16.80	17.92	17.21	18.29	18.68
	8H	17.10	18.19	17.52	18.56	18.96	17.07	18.15	17.48	18.53	18.93
	12H	17.31	18.35	17.73	18.74	19.15	17.29	18.32	17.70	18.71	19.12
4H	2H	14.73	15.94	15.12	16.29	16.66	14.68	15.89	15.07	16.24	16.61
	3H	16.16	17.18	16.57	17.57	17.98	16.10	17.13	16.52	17.51	17.92
	4H	16.96	17.86	17.39	18.28	18.72	16.91	17.81	17.34	18.23	18.67
	6H	17.70	18.50	18.16	18.94	19.39	17.66	18.46	18.12	18.91	19.35
	8H	18.07	18.82	18.55	19.27	19.74	18.05	18.80	18.52	19.25	19.71
	12H	18.39	19.09	18.87	19.53	20.04	18.37	19.07	18.85	19.52	20.02
8H	4H	17.20	17.95	17.67	18.40	18.86	17.15	17.90	17.62	18.35	18.81
	6H	18.10	18.73	18.59	19.20	19.70	18.07	18.70	18.57	19.17	19.67
	8H	18.64	19.19	19.15	19.70	20.19	18.62	19.17	19.14	19.68	20.17
	12H	19.06	19.53	19.59	20.04	20.55	19.06	19.52	19.59	20.03	20.54
12H	4H	17.23	17.93	17.71	18.38	18.88	17.19	17.89	17.67	18.33	18.84
	6H	18.24	18.79	18.75	19.30	19.79	18.21	18.76	18.72	19.27	19.76
	8H	18.78	19.24	19.31	19.75	20.27	18.77	19.23	19.29	19.74	20.25
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		3.1					3.1				

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	1542.43	1542.95	1542.87	1542.53	1542.02	1541.57	1540.93	1540.02	1539.05
30.0	1542.43	1542.60	1542.57	1542.27	1541.78	1541.34	1540.59	1539.76	1538.82
60.0	1542.43	1541.82	1541.62	1541.30	1540.88	1540.35	1539.56	1538.79	1537.92
90.0	1542.43	1541.38	1541.00	1540.60	1540.24	1539.61	1538.90	1538.07	1537.26
120.0	1542.43	1541.82	1541.62	1541.30	1540.88	1540.35	1539.56	1538.79	1537.92
150.0	1542.43	1542.60	1542.57	1542.27	1541.78	1541.34	1540.59	1539.76	1538.82
180.0	1542.43	1542.95	1542.87	1542.53	1542.02	1541.57	1540.93	1540.02	1539.05
210.0	1542.43	1542.60	1542.57	1542.27	1541.78	1541.34	1540.59	1539.76	1538.82
240.0	1542.43	1541.82	1541.62	1541.30	1540.88	1540.35	1539.56	1538.79	1537.92
270.0	1542.43	1541.38	1541.00	1540.60	1540.24	1539.61	1538.90	1538.07	1537.26
300.0	1542.43	1541.82	1541.62	1541.30	1540.88	1540.35	1539.56	1538.79	1537.92
330.0	1542.43	1542.60	1542.57	1542.27	1541.78	1541.34	1540.59	1539.76	1538.82
360.0	1542.43	1542.95	1542.87	1542.53	1542.02	1541.57	1540.93	1540.02	1539.05

C/γ(°)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
0.0	1538.09	1536.97	1535.55	1534.16	1532.68	1531.02	1529.16	1527.48	1525.52
30.0	1537.78	1536.65	1535.30	1533.87	1532.38	1530.75	1528.96	1527.20	1525.28
60.0	1536.80	1535.61	1534.34	1532.83	1531.36	1529.80	1527.98	1526.15	1524.18
90.0	1536.17	1534.90	1533.64	1532.08	1530.65	1529.15	1527.21	1525.41	1523.30
120.0	1536.80	1535.61	1534.34	1532.83	1531.36	1529.80	1527.98	1526.15	1524.18
150.0	1537.78	1536.65	1535.30	1533.87	1532.38	1530.75	1528.96	1527.20	1525.28
180.0	1538.09	1536.97	1535.55	1534.16	1532.68	1531.02	1529.16	1527.48	1525.52
210.0	1537.78	1536.65	1535.30	1533.87	1532.38	1530.75	1528.96	1527.20	1525.28
240.0	1536.80	1535.61	1534.34	1532.83	1531.36	1529.80	1527.98	1526.15	1524.18
270.0	1536.17	1534.90	1533.64	1532.08	1530.65	1529.15	1527.21	1525.41	1523.30
300.0	1536.80	1535.61	1534.34	1532.83	1531.36	1529.80	1527.98	1526.15	1524.18
330.0	1537.78	1536.65	1535.30	1533.87	1532.38	1530.75	1528.96	1527.20	1525.28
360.0	1538.09	1536.97	1535.55	1534.16	1532.68	1531.02	1529.16	1527.48	1525.52

C/γ(°)	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
0.0	1523.26	1521.07	1518.71	1516.19	1513.58	1510.83	1508.13	1505.21	1502.39
30.0	1523.03	1520.91	1518.47	1516.00	1513.40	1510.65	1507.89	1505.06	1502.16
60.0	1522.00	1519.82	1517.44	1514.98	1512.35	1509.63	1506.81	1504.10	1501.15
90.0	1521.24	1518.88	1516.69	1514.15	1511.49	1508.78	1506.01	1503.28	1500.38
120.0	1522.00	1519.82	1517.44	1514.98	1512.35	1509.63	1506.81	1504.10	1501.15
150.0	1523.03	1520.91	1518.47	1516.00	1513.40	1510.65	1507.89	1505.06	1502.16
180.0	1523.26	1521.07	1518.71	1516.19	1513.58	1510.83	1508.13	1505.21	1502.39
210.0	1523.03	1520.91	1518.47	1516.00	1513.40	1510.65	1507.89	1505.06	1502.16
240.0	1522.00	1519.82	1517.44	1514.98	1512.35	1509.63	1506.81	1504.10	1501.15
270.0	1521.24	1518.88	1516.69	1514.15	1511.49	1508.78	1506.01	1503.28	1500.38
300.0	1522.00	1519.82	1517.44	1514.98	1512.35	1509.63	1506.81	1504.10	1501.15
330.0	1523.03	1520.91	1518.47	1516.00	1513.40	1510.65	1507.89	1505.06	1502.16
360.0	1523.26	1521.07	1518.71	1516.19	1513.58	1510.83	1508.13	1505.21	1502.39

C/γ(°)	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5
0.0	1499.23	1495.97	1492.51	1488.93	1485.09	1481.39	1477.47	1473.47	1469.33
30.0	1498.96	1495.78	1492.32	1488.70	1485.00	1481.23	1477.30	1473.22	1469.05
60.0	1497.96	1494.76	1491.31	1487.60	1484.07	1480.21	1476.20	1472.06	1467.93
90.0	1497.25	1493.94	1490.51	1486.73	1483.24	1479.39	1475.26	1471.18	1467.12
120.0	1497.96	1494.76	1491.31	1487.60	1484.07	1480.21	1476.20	1472.06	1467.93
150.0	1498.96	1495.78	1492.32	1488.70	1485.00	1481.23	1477.30	1473.22	1469.05
180.0	1499.23	1495.97	1492.51	1488.93	1485.09	1481.39	1477.47	1473.47	1469.33
210.0	1498.96	1495.78	1492.32	1488.70	1485.00	1481.23	1477.30	1473.22	1469.05
240.0	1497.96	1494.76	1491.31	1487.60	1484.07	1480.21	1476.20	1472.06	1467.93
270.0	1497.25	1493.94	1490.51	1486.73	1483.24	1479.39	1475.26	1471.18	1467.12
300.0	1497.96	1494.76	1491.31	1487.60	1484.07	1480.21	1476.20	1472.06	1467.93
330.0	1498.96	1495.78	1492.32	1488.70	1485.00	1481.23	1477.30	1473.22	1469.05
360.0	1499.23	1495.97	1492.51	1488.93	1485.09	1481.39	1477.47	1473.47	1469.33

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	1464.96	1460.61	1456.04	1451.29	1446.47	1441.40	1436.27	1431.09	1425.52
30.0	1464.74	1460.33	1455.88	1451.13	1446.26	1441.23	1436.18	1430.90	1425.48
60.0	1463.66	1459.31	1454.87	1450.09	1445.28	1440.27	1435.21	1429.85	1424.38
90.0	1462.77	1458.60	1454.05	1449.21	1444.54	1439.50	1434.32	1429.04	1423.33
120.0	1463.66	1459.31	1454.87	1450.09	1445.28	1440.27	1435.21	1429.85	1424.38
150.0	1464.74	1460.33	1455.88	1451.13	1446.26	1441.23	1436.18	1430.90	1425.48
180.0	1464.96	1460.61	1456.04	1451.29	1446.47	1441.40	1436.27	1431.09	1425.52
210.0	1464.74	1460.33	1455.88	1451.13	1446.26	1441.23	1436.18	1430.90	1425.48
240.0	1463.66	1459.31	1454.87	1450.09	1445.28	1440.27	1435.21	1429.85	1424.38
270.0	1462.77	1458.60	1454.05	1449.21	1444.54	1439.50	1434.32	1429.04	1423.33
300.0	1463.66	1459.31	1454.87	1450.09	1445.28	1440.27	1435.21	1429.85	1424.38
330.0	1464.74	1460.33	1455.88	1451.13	1446.26	1441.23	1436.18	1430.90	1425.48
360.0	1464.96	1460.61	1456.04	1451.29	1446.47	1441.40	1436.27	1431.09	1425.52
C/γ(°)	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5
0.0	1419.87	1414.18	1408.25	1402.11	1395.85	1389.37	1382.47	1375.80	1368.74
30.0	1419.95	1414.37	1408.56	1402.50	1396.32	1389.95	1383.16	1376.52	1369.63
60.0	1418.88	1413.45	1407.70	1401.58	1395.35	1389.07	1382.28	1375.59	1368.74
90.0	1417.72	1412.35	1406.58	1400.28	1393.92	1387.66	1380.72	1373.98	1366.98
120.0	1418.88	1413.45	1407.70	1401.58	1395.35	1389.07	1382.28	1375.59	1368.74
150.0	1419.95	1414.37	1408.56	1402.50	1396.32	1389.95	1383.16	1376.52	1369.63
180.0	1419.87	1414.18	1408.25	1402.11	1395.85	1389.37	1382.47	1375.80	1368.74
210.0	1419.95	1414.37	1408.56	1402.50	1396.32	1389.95	1383.16	1376.52	1369.63
240.0	1418.88	1413.45	1407.70	1401.58	1395.35	1389.07	1382.28	1375.59	1368.74
270.0	1417.72	1412.35	1406.58	1400.28	1393.92	1387.66	1380.72	1373.98	1366.98
300.0	1418.88	1413.45	1407.70	1401.58	1395.35	1389.07	1382.28	1375.59	1368.74
330.0	1419.95	1414.37	1408.56	1402.50	1396.32	1389.95	1383.16	1376.52	1369.63
360.0	1419.87	1414.18	1408.25	1402.11	1395.85	1389.37	1382.47	1375.80	1368.74
C/γ(°)	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0
0.0	1361.32	1353.69	1346.00	1338.00	1329.81	1321.38	1312.65	1303.47	1294.10
30.0	1362.41	1354.93	1347.33	1339.43	1331.33	1323.04	1314.40	1305.41	1296.23
60.0	1361.49	1354.17	1346.46	1338.49	1330.54	1322.20	1313.39	1304.39	1295.23
90.0	1359.49	1352.24	1344.29	1336.09	1328.28	1319.76	1310.65	1301.47	1292.15
120.0	1361.49	1354.17	1346.46	1338.49	1330.54	1322.20	1313.39	1304.39	1295.23
150.0	1362.41	1354.93	1347.33	1339.43	1331.33	1323.04	1314.40	1305.41	1296.23
180.0	1361.32	1353.69	1346.00	1338.00	1329.81	1321.38	1312.65	1303.47	1294.10
210.0	1362.41	1354.93	1347.33	1339.43	1331.33	1323.04	1314.40	1305.41	1296.23
240.0	1361.49	1354.17	1346.46	1338.49	1330.54	1322.20	1313.39	1304.39	1295.23
270.0	1359.49	1352.24	1344.29	1336.09	1328.28	1319.76	1310.65	1301.47	1292.15
300.0	1361.49	1354.17	1346.46	1338.49	1330.54	1322.20	1313.39	1304.39	1295.23
330.0	1362.41	1354.93	1347.33	1339.43	1331.33	1323.04	1314.40	1305.41	1296.23
360.0	1361.32	1353.69	1346.00	1338.00	1329.81	1321.38	1312.65	1303.47	1294.10
C/γ(°)	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5
0.0	1284.09	1273.63	1262.79	1251.34	1239.20	1226.30	1212.22	1197.02	1180.74
30.0	1286.44	1276.30	1265.90	1254.91	1243.54	1231.54	1218.63	1204.94	1190.46
60.0	1285.46	1275.25	1264.75	1253.61	1242.23	1230.05	1216.91	1203.20	1188.47
90.0	1282.19	1271.56	1260.54	1248.83	1236.67	1223.42	1208.90	1193.68	1176.90
120.0	1285.46	1275.25	1264.75	1253.61	1242.23	1230.05	1216.91	1203.20	1188.47
150.0	1286.44	1276.30	1265.90	1254.91	1243.54	1231.54	1218.63	1204.94	1190.46
180.0	1284.09	1273.63	1262.79	1251.34	1239.20	1226.30	1212.22	1197.02	1180.74
210.0	1286.44	1276.30	1265.90	1254.91	1243.54	1231.54	1218.63	1204.94	1190.46
240.0	1285.46	1275.25	1264.75	1253.61	1242.23	1230.05	1216.91	1203.20	1188.47
270.0	1282.19	1271.56	1260.54	1248.83	1236.67	1223.42	1208.90	1193.68	1176.90
300.0	1285.46	1275.25	1264.75	1253.61	1242.23	1230.05	1216.91	1203.20	1188.47
330.0	1286.44	1276.30	1265.90	1254.91	1243.54	1231.54	1218.63	1204.94	1190.46
360.0	1284.09	1273.63	1262.79	1251.34	1239.20	1226.30	1212.22	1197.02	1180.74

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	1163.29	1144.35	1123.62	1101.58	1077.84	1052.90	1026.70	999.71	972.33
30.0	1175.12	1158.64	1141.10	1122.33	1102.18	1080.89	1058.38	1034.89	1010.42
60.0	1172.99	1156.21	1138.52	1119.58	1099.54	1077.98	1055.43	1031.74	1007.19
90.0	1159.19	1139.69	1118.62	1096.26	1072.80	1047.29	1021.00	993.63	966.09
120.0	1172.99	1156.21	1138.52	1119.58	1099.54	1077.98	1055.43	1031.74	1007.19
150.0	1175.12	1158.64	1141.10	1122.33	1102.18	1080.89	1058.38	1034.89	1010.42
180.0	1163.29	1144.35	1123.62	1101.58	1077.84	1052.90	1026.70	999.71	972.33
210.0	1175.12	1158.64	1141.10	1122.33	1102.18	1080.89	1058.38	1034.89	1010.42
240.0	1172.99	1156.21	1138.52	1119.58	1099.54	1077.98	1055.43	1031.74	1007.19
270.0	1159.19	1139.69	1118.62	1096.26	1072.80	1047.29	1021.00	993.63	966.09
300.0	1172.99	1156.21	1138.52	1119.58	1099.54	1077.98	1055.43	1031.74	1007.19
330.0	1175.12	1158.64	1141.10	1122.33	1102.18	1080.89	1058.38	1034.89	1010.42
360.0	1163.29	1144.35	1123.62	1101.58	1077.84	1052.90	1026.70	999.71	972.33

C/γ(°)	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5
0.0	944.63	917.59	890.58	864.14	838.57	813.84	790.34	767.60	745.52
30.0	984.70	958.61	931.44	903.60	875.28	846.70	818.25	789.67	761.81
60.0	981.37	955.02	927.78	899.94	871.49	842.96	814.23	785.34	757.56
90.0	938.18	910.59	883.42	856.98	831.07	806.46	782.32	758.96	737.01
120.0	981.37	955.02	927.78	899.94	871.49	842.96	814.23	785.34	757.56
150.0	984.70	958.61	931.44	903.60	875.28	846.70	818.25	789.67	761.81
180.0	944.63	917.59	890.58	864.14	838.57	813.84	790.34	767.60	745.52
210.0	984.70	958.61	931.44	903.60	875.28	846.70	818.25	789.67	761.81
240.0	981.37	955.02	927.78	899.94	871.49	842.96	814.23	785.34	757.56
270.0	938.18	910.59	883.42	856.98	831.07	806.46	782.32	758.96	737.01
300.0	981.37	955.02	927.78	899.94	871.49	842.96	814.23	785.34	757.56
330.0	984.70	958.61	931.44	903.60	875.28	846.70	818.25	789.67	761.81
360.0	944.63	917.59	890.58	864.14	838.57	813.84	790.34	767.60	745.52

C/γ(°)	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0
0.0	724.47	703.96	683.89	664.29	644.78	625.68	606.78	587.73	568.97
30.0	734.47	707.67	681.90	656.82	632.52	609.00	586.35	564.60	543.46
60.0	730.05	703.01	677.26	652.13	628.16	604.63	581.94	560.41	539.40
90.0	715.63	694.55	674.52	654.77	635.93	616.78	597.80	579.13	560.74
120.0	730.05	703.01	677.26	652.13	628.16	604.63	581.94	560.41	539.40
150.0	734.47	707.67	681.90	656.82	632.52	609.00	586.35	564.60	543.46
180.0	724.47	703.96	683.89	664.29	644.78	625.68	606.78	587.73	568.97
210.0	734.47	707.67	681.90	656.82	632.52	609.00	586.35	564.60	543.46
240.0	730.05	703.01	677.26	652.13	628.16	604.63	581.94	560.41	539.40
270.0	715.63	694.55	674.52	654.77	635.93	616.78	597.80	579.13	560.74
300.0	730.05	703.01	677.26	652.13	628.16	604.63	581.94	560.41	539.40
330.0	734.47	707.67	681.90	656.82	632.52	609.00	586.35	564.60	543.46
360.0	724.47	703.96	683.89	664.29	644.78	625.68	606.78	587.73	568.97

C/γ(°)	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5
0.0	550.26	531.94	513.62	495.40	477.50	459.81	442.37	425.60	409.60
30.0	523.06	503.11	483.50	464.67	446.62	429.35	412.80	397.06	382.02
60.0	519.19	499.33	479.85	461.25	443.27	426.09	409.61	394.05	379.19
90.0	542.35	524.25	506.14	488.29	470.60	453.06	435.74	419.40	403.82
120.0	519.19	499.33	479.85	461.25	443.27	426.09	409.61	394.05	379.19
150.0	523.06	503.11	483.50	464.67	446.62	429.35	412.80	397.06	382.02
180.0	550.26	531.94	513.62	495.40	477.50	459.81	442.37	425.60	409.60
210.0	523.06	503.11	483.50	464.67	446.62	429.35	412.80	397.06	382.02
240.0	519.19	499.33	479.85	461.25	443.27	426.09	409.61	394.05	379.19
270.0	542.35	524.25	506.14	488.29	470.60	453.06	435.74	419.40	403.82
300.0	519.19	499.33	479.85	461.25	443.27	426.09	409.61	394.05	379.19
330.0	523.06	503.11	483.50	464.67	446.62	429.35	412.80	397.06	382.02
360.0	550.26	531.94	513.62	495.40	477.50	459.81	442.37	425.60	409.60

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	394.44	380.16	366.56	353.56	341.30	329.73	318.63	308.45	299.09
30.0	367.90	354.52	341.83	329.73	318.31	307.46	296.91	286.98	277.58
60.0	365.12	351.71	339.11	327.01	315.61	304.91	294.55	284.71	275.36
90.0	388.73	374.40	361.04	348.01	335.79	324.57	313.79	303.81	294.53
120.0	365.12	351.71	339.11	327.01	315.61	304.91	294.55	284.71	275.36
150.0	367.90	354.52	341.83	329.73	318.31	307.46	296.91	286.98	277.58
180.0	394.44	380.16	366.56	353.56	341.30	329.73	318.63	308.45	299.09
210.0	367.90	354.52	341.83	329.73	318.31	307.46	296.91	286.98	277.58
240.0	365.12	351.71	339.11	327.01	315.61	304.91	294.55	284.71	275.36
270.0	388.73	374.40	361.04	348.01	335.79	324.57	313.79	303.81	294.53
300.0	365.12	351.71	339.11	327.01	315.61	304.91	294.55	284.71	275.36
330.0	367.90	354.52	341.83	329.73	318.31	307.46	296.91	286.98	277.58
360.0	394.44	380.16	366.56	353.56	341.30	329.73	318.63	308.45	299.09

C/γ(°)	58.5	59.0	59.5	60.0	60.5	61.0	61.5	62.0	62.5
0.0	290.81	283.32	276.61	270.67	265.24	260.33	255.95	251.98	248.38
30.0	268.87	260.66	253.00	245.77	238.90	232.41	226.41	220.79	215.48
60.0	266.66	258.46	250.83	243.60	236.77	230.31	224.32	218.71	213.45
90.0	286.31	278.82	272.15	266.20	260.88	256.01	251.64	247.69	244.19
120.0	266.66	258.46	250.83	243.60	236.77	230.31	224.32	218.71	213.45
150.0	268.87	260.66	253.00	245.77	238.90	232.41	226.41	220.79	215.48
180.0	290.81	283.32	276.61	270.67	265.24	260.33	255.95	251.98	248.38
210.0	268.87	260.66	253.00	245.77	238.90	232.41	226.41	220.79	215.48
240.0	266.66	258.46	250.83	243.60	236.77	230.31	224.32	218.71	213.45
270.0	286.31	278.82	272.15	266.20	260.88	256.01	251.64	247.69	244.19
300.0	266.66	258.46	250.83	243.60	236.77	230.31	224.32	218.71	213.45
330.0	268.87	260.66	253.00	245.77	238.90	232.41	226.41	220.79	215.48
360.0	290.81	283.32	276.61	270.67	265.24	260.33	255.95	251.98	248.38

C/γ(°)	63.0	63.5	64.0	64.5	65.0	65.5	66.0	66.5	67.0
0.0	245.22	242.22	239.44	236.77	234.41	232.15	230.03	227.83	225.50
30.0	210.57	205.98	201.78	197.91	194.53	191.48	188.73	186.13	183.62
60.0	208.53	203.92	199.67	195.99	192.73	189.81	187.15	184.63	182.19
90.0	241.01	237.98	235.08	232.79	230.66	228.66	226.72	224.70	222.50
120.0	208.53	203.92	199.67	195.99	192.73	189.81	187.15	184.63	182.19
150.0	210.57	205.98	201.78	197.91	194.53	191.48	188.73	186.13	183.62
180.0	245.22	242.22	239.44	236.77	234.41	232.15	230.03	227.83	225.50
210.0	210.57	205.98	201.78	197.91	194.53	191.48	188.73	186.13	183.62
240.0	208.53	203.92	199.67	195.99	192.73	189.81	187.15	184.63	182.19
270.0	241.01	237.98	235.08	232.79	230.66	228.66	226.72	224.70	222.50
300.0	208.53	203.92	199.67	195.99	192.73	189.81	187.15	184.63	182.19
330.0	210.57	205.98	201.78	197.91	194.53	191.48	188.73	186.13	183.62
360.0	245.22	242.22	239.44	236.77	234.41	232.15	230.03	227.83	225.50

C/γ(°)	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5
0.0	222.89	219.93	216.58	212.75	208.33	203.31	197.80	191.80	185.48
30.0	181.11	178.55	175.91	173.13	170.16	166.97	163.63	160.09	156.42
60.0	179.75	177.26	174.65	171.90	168.96	165.83	162.54	159.09	155.47
90.0	220.05	217.24	213.96	210.19	205.85	200.92	195.54	189.72	183.49
120.0	179.75	177.26	174.65	171.90	168.96	165.83	162.54	159.09	155.47
150.0	181.11	178.55	175.91	173.13	170.16	166.97	163.63	160.09	156.42
180.0	222.89	219.93	216.58	212.75	208.33	203.31	197.80	191.80	185.48
210.0	181.11	178.55	175.91	173.13	170.16	166.97	163.63	160.09	156.42
240.0	179.75	177.26	174.65	171.90	168.96	165.83	162.54	159.09	155.47
270.0	220.05	217.24	213.96	210.19	205.85	200.92	195.54	189.72	183.49
300.0	179.75	177.26	174.65	171.90	168.96	165.83	162.54	159.09	155.47
330.0	181.11	178.55	175.91	173.13	170.16	166.97	163.63	160.09	156.42
360.0	222.89	219.93	216.58	212.75	208.33	203.31	197.80	191.80	185.48

C/γ(°)	72.0	72.5	73.0	73.5	74.0	74.5	75.0	75.5	76.0
0.0	179.02	172.54	166.11	159.99	154.18	148.66	143.53	138.86	134.52
30.0	152.69	148.95	145.18	141.50	137.90	134.32	130.79	127.40	124.02
60.0	151.82	148.15	144.46	140.84	137.29	133.82	130.39	127.08	123.80
90.0	177.20	170.86	164.60	158.61	152.91	147.61	142.68	138.19	134.06
120.0	151.82	148.15	144.46	140.84	137.29	133.82	130.39	127.08	123.80
150.0	152.69	148.95	145.18	141.50	137.90	134.32	130.79	127.40	124.02
180.0	179.02	172.54	166.11	159.99	154.18	148.66	143.53	138.86	134.52
210.0	152.69	148.95	145.18	141.50	137.90	134.32	130.79	127.40	124.02
240.0	151.82	148.15	144.46	140.84	137.29	133.82	130.39	127.08	123.80
270.0	177.20	170.86	164.60	158.61	152.91	147.61	142.68	138.19	134.06
300.0	151.82	148.15	144.46	140.84	137.29	133.82	130.39	127.08	123.80
330.0	152.69	148.95	145.18	141.50	137.90	134.32	130.79	127.40	124.02
360.0	179.02	172.54	166.11	159.99	154.18	148.66	143.53	138.86	134.52
C/γ(°)	76.5	77.0	77.5	78.0	78.5	79.0	79.5	80.0	80.5
0.0	130.43	126.56	122.81	119.15	115.50	111.84	108.12	104.32	100.51
30.0	120.65	117.26	113.82	110.33	106.76	103.12	99.38	95.52	91.63
60.0	120.51	117.21	113.86	110.46	106.96	103.37	99.67	95.86	92.02
90.0	130.13	126.45	122.89	119.40	115.90	112.36	108.70	105.01	101.29
120.0	120.51	117.21	113.86	110.46	106.96	103.37	99.67	95.86	92.02
150.0	120.65	117.26	113.82	110.33	106.76	103.12	99.38	95.52	91.63
180.0	130.43	126.56	122.81	119.15	115.50	111.84	108.12	104.32	100.51
210.0	120.65	117.26	113.82	110.33	106.76	103.12	99.38	95.52	91.63
240.0	120.51	117.21	113.86	110.46	106.96	103.37	99.67	95.86	92.02
270.0	130.13	126.45	122.89	119.40	115.90	112.36	108.70	105.01	101.29
300.0	120.51	117.21	113.86	110.46	106.96	103.37	99.67	95.86	92.02
330.0	120.65	117.26	113.82	110.33	106.76	103.12	99.38	95.52	91.63
360.0	130.43	126.56	122.81	119.15	115.50	111.84	108.12	104.32	100.51
C/γ(°)	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5	85.0
0.0	96.70	92.90	89.04	84.96	80.45	75.38	69.76	63.68	57.18
30.0	87.69	83.72	79.70	75.56	71.17	66.47	61.49	56.26	50.80
60.0	88.13	84.18	80.16	76.00	71.60	66.89	61.93	56.68	51.23
90.0	97.59	93.84	89.98	85.85	81.34	76.24	70.68	64.54	58.04
120.0	88.13	84.18	80.16	76.00	71.60	66.89	61.93	56.68	51.23
150.0	87.69	83.72	79.70	75.56	71.17	66.47	61.49	56.26	50.80
180.0	96.70	92.90	89.04	84.96	80.45	75.38	69.76	63.68	57.18
210.0	87.69	83.72	79.70	75.56	71.17	66.47	61.49	56.26	50.80
240.0	88.13	84.18	80.16	76.00	71.60	66.89	61.93	56.68	51.23
270.0	97.59	93.84	89.98	85.85	81.34	76.24	70.68	64.54	58.04
300.0	88.13	84.18	80.16	76.00	71.60	66.89	61.93	56.68	51.23
330.0	87.69	83.72	79.70	75.56	71.17	66.47	61.49	56.26	50.80
360.0	96.70	92.90	89.04	84.96	80.45	75.38	69.76	63.68	57.18
C/γ(°)	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5
0.0	50.45	43.69	36.96	30.49	24.24	18.49	13.31	8.76	5.05
30.0	45.19	39.53	33.82	28.19	22.66	17.38	12.50	8.18	4.68
60.0	45.62	39.98	34.24	28.58	23.06	17.75	12.85	8.48	4.96
90.0	51.32	44.60	37.81	31.24	25.01	19.19	13.96	9.32	5.55
120.0	45.62	39.98	34.24	28.58	23.06	17.75	12.85	8.48	4.96
150.0	45.19	39.53	33.82	28.19	22.66	17.38	12.50	8.18	4.68
180.0	50.45	43.69	36.96	30.49	24.24	18.49	13.31	8.76	5.05
210.0	45.19	39.53	33.82	28.19	22.66	17.38	12.50	8.18	4.68
240.0	45.62	39.98	34.24	28.58	23.06	17.75	12.85	8.48	4.96
270.0	51.32	44.60	37.81	31.24	25.01	19.19	13.96	9.32	5.55
300.0	45.62	39.98	34.24	28.58	23.06	17.75	12.85	8.48	4.96
330.0	45.19	39.53	33.82	28.19	22.66	17.38	12.50	8.18	4.68
360.0	50.45	43.69	36.96	30.49	24.24	18.49	13.31	8.76	5.05

Intensity data(cd)**Appendix Page: 21 Total:21**

C/$\gamma(^{\circ})$	90.0
0.0	0.92
30.0	0.83
60.0	1.12
90.0	3.01
120.0	1.12
150.0	0.83
180.0	0.92
210.0	0.83
240.0	1.12
270.0	3.01
300.0	1.12
330.0	0.83
360.0	0.92