

Report No	:		Voltage	:	V
Test No	:	A2401352A001	Current	:	A
LumCAT	:	LIT by CARDI	Power	:	29.000 W
Luminaire	:	0028920198 29W 3500K 4060lm PF		:	
LampCAT	:		Ballast type	:	
Lamp flux	:	4060.0 lm	Width	:	555 mm
Number of Lamps	:	1	Length	:	555 mm
Phm Type	:	C	Height	:	0 mm

Photometric Results

Lumens(lm)	:	4060.00	Central intensity(cd)	:	2461.187
Efficiency(%)	:	100.00%	Maximum intensity(cd)	:	2525.921
Luminous Efficacy(lm/W)	:	140.00	Angle of maximum intensity	:	C=60.0 γ =18.0
Beam Angle(50%Imax)	:	[C0/180]Total=79.0 [C90/270]Total=79.4			
Field angle(10%Imax)	:	[C0/180]Total=99.6 [C90/270]Total=100.0			
Maximum s/h(1/2)	:	C0_180=1.26 C90_270=1.27			
Maximum s/h(1/4)	:	C0_180=1.15 C90_270=1.15			
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 :	:	98.331%			

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	2461.187	0.000	0	0.00%	0.00%
0.5	2461.027	0.589	0.589	0.01%	0.01%
1.0	2461.669	1.767	2.355	0.04%	0.06%
1.5	2463.369	2.945	5.301	0.07%	0.13%
2.0	2465.420	4.127	9.427	0.10%	0.23%
2.5	2467.344	5.309	14.737	0.13%	0.36%
3.0	2469.219	6.493	21.23	0.16%	0.52%
3.5	2470.999	7.678	28.908	0.19%	0.71%
4.0	2473.516	8.866	37.774	0.22%	0.93%
4.5	2475.728	10.055	47.83	0.25%	1.18%
5.0	2477.940	11.246	59.076	0.28%	1.46%
5.5	2480.730	12.439	71.515	0.31%	1.76%
6.0	2483.086	13.634	85.149	0.34%	2.10%
6.5	2486.036	14.831	99.98	0.37%	2.46%
7.0	2488.248	16.029	116.009	0.39%	2.86%
7.5	2490.460	17.225	133.234	0.42%	3.28%
8.0	2492.881	18.423	151.657	0.45%	3.74%
8.5	2494.708	19.621	171.278	0.48%	4.22%
9.0	2496.472	20.816	192.094	0.51%	4.73%
9.5	2497.835	22.009	214.103	0.54%	5.27%
10.0	2499.823	23.203	237.306	0.57%	5.84%
10.5	2501.233	24.397	261.704	0.60%	6.45%
11.0	2503.013	25.590	287.293	0.63%	7.08%
11.5	2505.273	26.787	314.08	0.66%	7.74%
12.0	2507.165	27.984	342.064	0.69%	8.43%
12.5	2508.527	29.176	371.24	0.72%	9.14%
13.0	2510.306	30.367	401.607	0.75%	9.89%
13.5	2512.070	31.559	433.166	0.78%	10.67%
14.0	2513.577	32.748	465.914	0.81%	11.48%
14.5	2514.972	33.935	499.849	0.84%	12.31%
15.0	2515.773	35.115	534.964	0.86%	13.18%
15.5	2516.815	36.291	571.254	0.89%	14.07%
16.0	2517.553	37.464	608.719	0.92%	14.99%
16.5	2518.322	38.633	647.352	0.95%	15.94%
17.0	2518.707	39.798	687.15	0.98%	16.92%
17.5	2519.572	40.960	728.11	1.01%	17.93%
18.0	2519.637	42.118	770.228	1.04%	18.97%
18.5	2519.444	43.263	813.491	1.07%	20.04%

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	2518.931	44.400	857.891	1.09%	21.13%
19.5	2517.777	45.525	903.416	1.12%	22.25%
20.0	2515.758	46.631	950.048	1.15%	23.40%
20.5	2513.384	47.721	997.769	1.18%	24.58%
21.0	2510.162	48.794	1046.563	1.20%	25.78%
21.5	2506.010	49.843	1096.406	1.23%	27.01%
22.0	2500.880	50.865	1147.271	1.25%	28.26%
22.5	2494.612	51.857	1199.128	1.28%	29.54%
23.0	2487.350	52.818	1251.946	1.30%	30.84%
23.5	2479.608	53.753	1305.699	1.32%	32.16%
24.0	2471.063	54.663	1360.362	1.35%	33.51%
24.5	2461.604	55.542	1415.904	1.37%	34.87%
25.0	2451.537	56.392	1472.296	1.39%	36.26%
25.5	2440.957	57.216	1529.512	1.41%	37.67%
26.0	2429.271	58.007	1587.519	1.43%	39.10%
26.5	2416.302	58.755	1646.274	1.45%	40.55%
27.0	2403.077	59.470	1705.743	1.46%	42.01%
27.5	2388.585	60.149	1765.892	1.48%	43.49%
28.0	2372.842	60.780	1826.672	1.50%	44.99%
28.5	2354.759	61.347	1888.019	1.51%	46.50%
29.0	2335.554	61.849	1949.868	1.52%	48.03%
29.5	2313.992	62.284	2012.152	1.53%	49.56%
30.0	2290.427	62.639	2074.791	1.54%	51.10%
30.5	2264.922	62.915	2137.705	1.55%	52.65%
31.0	2236.948	63.104	2200.81	1.55%	54.21%
31.5	2206.201	63.192	2264.002	1.56%	55.76%
32.0	2172.247	63.165	2327.167	1.56%	57.32%
32.5	2135.248	63.016	2390.183	1.55%	58.87%
33.0	2095.941	62.753	2452.936	1.55%	60.42%
33.5	2053.603	62.375	2515.311	1.54%	61.95%
34.0	2009.069	61.879	2577.19	1.52%	63.48%
34.5	1961.554	61.265	2638.455	1.51%	64.99%
35.0	1910.720	60.511	2698.966	1.49%	66.48%
35.5	1858.716	59.643	2758.609	1.47%	67.95%
36.0	1805.365	58.689	2817.298	1.45%	69.39%
36.5	1750.988	57.652	2874.951	1.42%	70.81%
37.0	1694.303	56.514	2931.465	1.39%	72.20%
37.5	1635.999	55.264	2986.729	1.36%	73.56%

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	1576.733	53.923	3040.652	1.33%	74.89%
38.5	1517.515	52.518	3093.17	1.29%	76.19%
39.0	1457.880	51.058	3144.228	1.26%	77.44%
39.5	1397.571	49.530	3193.759	1.22%	78.66%
40.0	1338.546	47.966	3241.724	1.18%	79.85%
40.5	1279.681	46.379	3288.103	1.14%	80.99%
41.0	1221.440	44.759	3332.862	1.10%	82.09%
41.5	1163.746	43.115	3375.978	1.06%	83.15%
42.0	1106.724	41.448	3417.426	1.02%	84.17%
42.5	1049.727	39.750	3457.176	0.98%	85.15%
43.0	993.227	38.019	3495.195	0.94%	86.09%
43.5	936.718	36.253	3531.448	0.89%	86.98%
44.0	881.236	34.465	3565.913	0.85%	87.83%
44.5	826.924	32.678	3598.591	0.80%	88.64%
45.0	773.666	30.893	3629.484	0.76%	89.40%
45.5	720.931	29.100	3658.584	0.72%	90.11%
46.0	670.934	27.333	3685.917	0.67%	90.79%
46.5	623.200	25.629	3711.546	0.63%	91.42%
47.0	578.997	24.006	3735.552	0.59%	92.01%
47.5	536.881	22.465	3758.017	0.55%	92.56%
48.0	495.501	20.951	3778.967	0.52%	93.08%
48.5	455.094	19.443	3798.41	0.48%	93.56%
49.0	416.564	17.967	3816.377	0.44%	94.00%
49.5	379.723	16.538	3832.915	0.41%	94.41%
50.0	345.470	15.174	3848.089	0.37%	94.78%
50.5	314.388	13.909	3861.998	0.34%	95.12%
51.0	287.004	12.768	3874.765	0.31%	95.44%
51.5	262.922	11.758	3886.523	0.29%	95.73%
52.0	241.681	10.864	3897.387	0.27%	95.99%
52.5	222.361	10.059	3907.446	0.25%	96.24%
53.0	204.453	9.314	3916.761	0.23%	96.47%
53.5	187.802	8.617	3925.377	0.21%	96.68%
54.0	172.478	7.965	3933.343	0.20%	96.88%
54.5	158.526	7.365	3940.707	0.18%	97.06%
55.0	145.238	6.801	3947.508	0.17%	97.23%
55.5	132.782	6.263	3953.771	0.15%	97.38%
56.0	121.228	5.756	3959.527	0.14%	97.53%
56.5	110.715	5.287	3964.814	0.13%	97.66%

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	101.357	4.862	3969.677	0.12%	97.78%
57.5	92.867	4.478	3974.155	0.11%	97.89%
58.0	85.480	4.135	3978.29	0.10%	97.99%
58.5	79.069	3.836	3982.126	0.09%	98.08%
59.0	73.614	3.579	3985.705	0.09%	98.17%
59.5	69.042	3.361	3989.066	0.08%	98.25%
60.0	64.971	3.174	3992.24	0.08%	98.33%
60.5	61.492	3.010	3995.25	0.07%	98.41%
61.0	58.418	2.868	3998.118	0.07%	98.48%
61.5	55.666	2.742	4000.86	0.07%	98.54%
62.0	53.145	2.628	4003.488	0.06%	98.61%
62.5	50.831	2.523	4006.011	0.06%	98.67%
63.0	48.689	2.426	4008.436	0.06%	98.73%
63.5	46.680	2.335	4010.771	0.06%	98.79%
64.0	44.786	2.249	4013.02	0.06%	98.84%
64.5	43.009	2.168	4015.188	0.05%	98.90%
65.0	41.448	2.094	4017.282	0.05%	98.95%
65.5	40.070	2.030	4019.311	0.05%	99.00%
66.0	38.839	1.972	4021.284	0.05%	99.05%
66.5	37.708	1.921	4023.205	0.05%	99.09%
67.0	36.623	1.872	4025.077	0.05%	99.14%
67.5	35.561	1.825	4026.902	0.04%	99.18%
68.0	34.502	1.778	4028.68	0.04%	99.23%
68.5	33.440	1.730	4030.41	0.04%	99.27%
69.0	32.362	1.681	4032.091	0.04%	99.31%
69.5	31.274	1.631	4033.723	0.04%	99.35%
70.0	30.192	1.581	4035.304	0.04%	99.39%
70.5	29.121	1.530	4036.834	0.04%	99.43%
71.0	28.024	1.479	4038.313	0.04%	99.47%
71.5	26.880	1.425	4039.739	0.04%	99.50%
72.0	25.733	1.370	4041.108	0.03%	99.53%
72.5	24.597	1.314	4042.423	0.03%	99.57%
73.0	23.461	1.258	4043.681	0.03%	99.60%
73.5	22.347	1.203	4044.883	0.03%	99.63%
74.0	21.248	1.147	4046.031	0.03%	99.66%
74.5	20.168	1.093	4047.124	0.03%	99.68%
75.0	19.105	1.039	4048.162	0.03%	99.71%
75.5	18.069	0.986	4049.148	0.02%	99.73%

Zonal flux distribution table

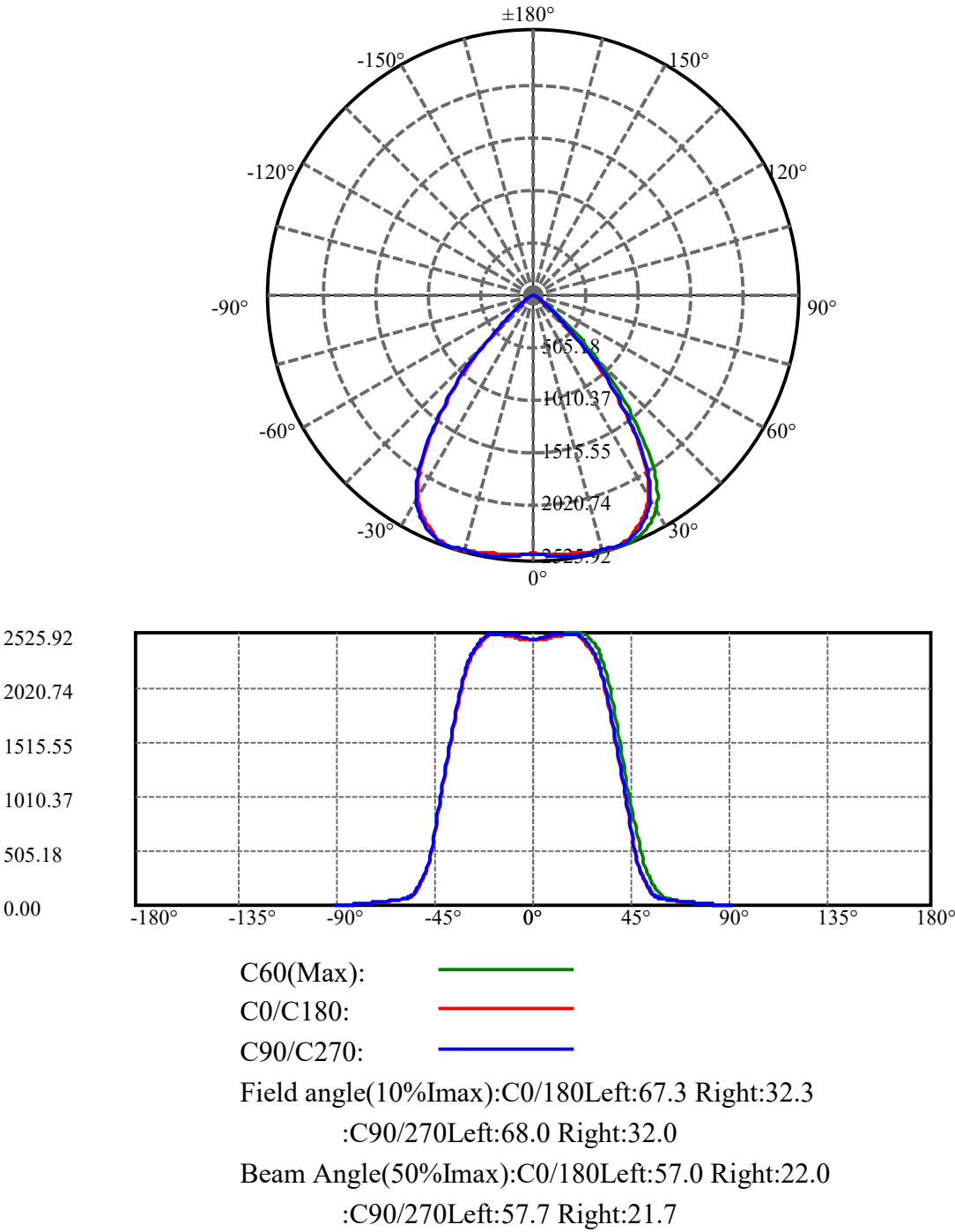
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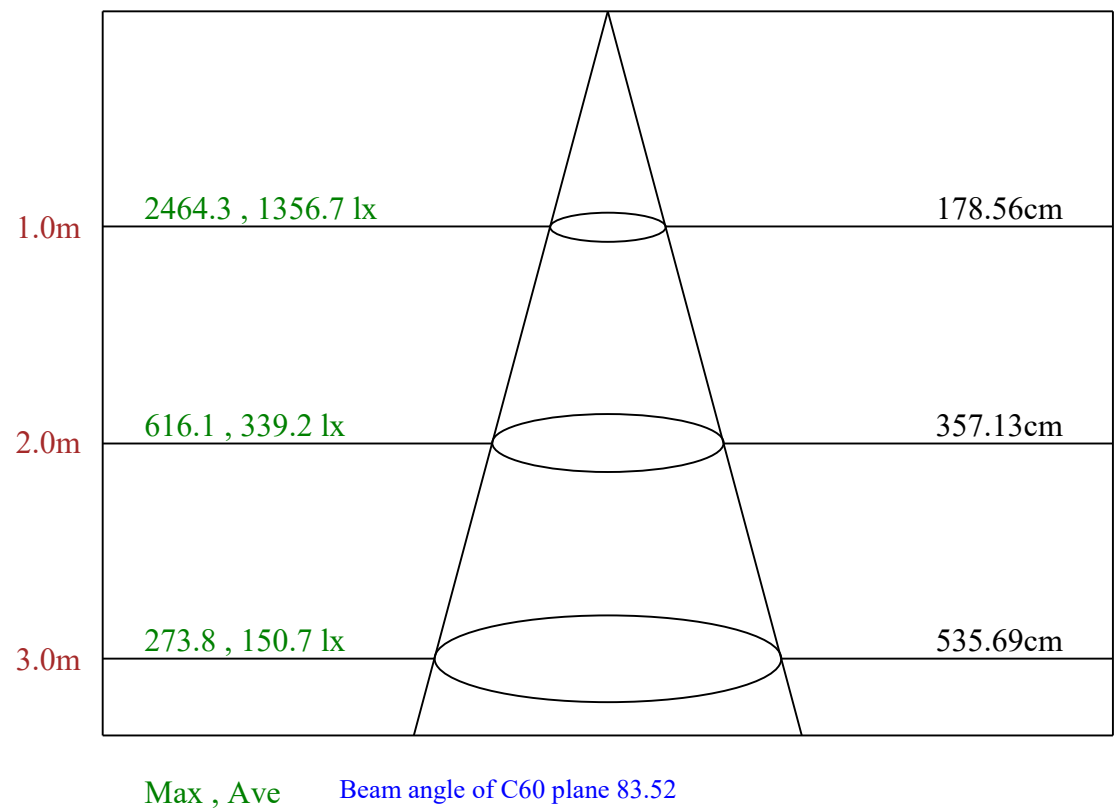
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.057	0.933	4050.081	0.02%	99.76%
76.5	16.067	0.882	4050.963	0.02%	99.78%
77.0	15.104	0.832	4051.795	0.02%	99.80%
77.5	14.171	0.783	4052.578	0.02%	99.82%
78.0	13.255	0.735	4053.313	0.02%	99.84%
78.5	12.379	0.688	4054.001	0.02%	99.85%
79.0	11.547	0.643	4054.644	0.02%	99.87%
79.5	10.716	0.600	4055.244	0.01%	99.88%
80.0	9.916	0.557	4055.8	0.01%	99.90%
80.5	9.131	0.515	4056.315	0.01%	99.91%
81.0	8.377	0.474	4056.789	0.01%	99.92%
81.5	7.640	0.434	4057.223	0.01%	99.93%
82.0	6.926	0.395	4057.618	0.01%	99.94%
82.5	6.242	0.358	4057.976	0.01%	99.95%
83.0	5.582	0.322	4058.297	0.01%	99.96%
83.5	4.961	0.287	4058.584	0.01%	99.97%
84.0	4.377	0.254	4058.839	0.01%	99.97%
84.5	3.830	0.224	4059.063	0.01%	99.98%
85.0	3.328	0.195	4059.258	0.00%	99.98%
85.5	2.846	0.169	4059.427	0.00%	99.99%
86.0	2.385	0.143	4059.57	0.00%	99.99%
86.5	1.981	0.119	4059.689	0.00%	99.99%
87.0	1.589	0.098	4059.787	0.00%	99.99%
87.5	1.219	0.077	4059.864	0.00%	100.00%
88.0	0.883	0.058	4059.921	0.00%	100.00%
88.5	0.569	0.040	4059.961	0.00%	100.00%
89.0	0.288	0.023	4059.984	0.00%	100.00%
89.5	0.113	0.011	4059.995	0.00%	100.00%
90.0	0.050	0.004	4060	0.00%	100.00%

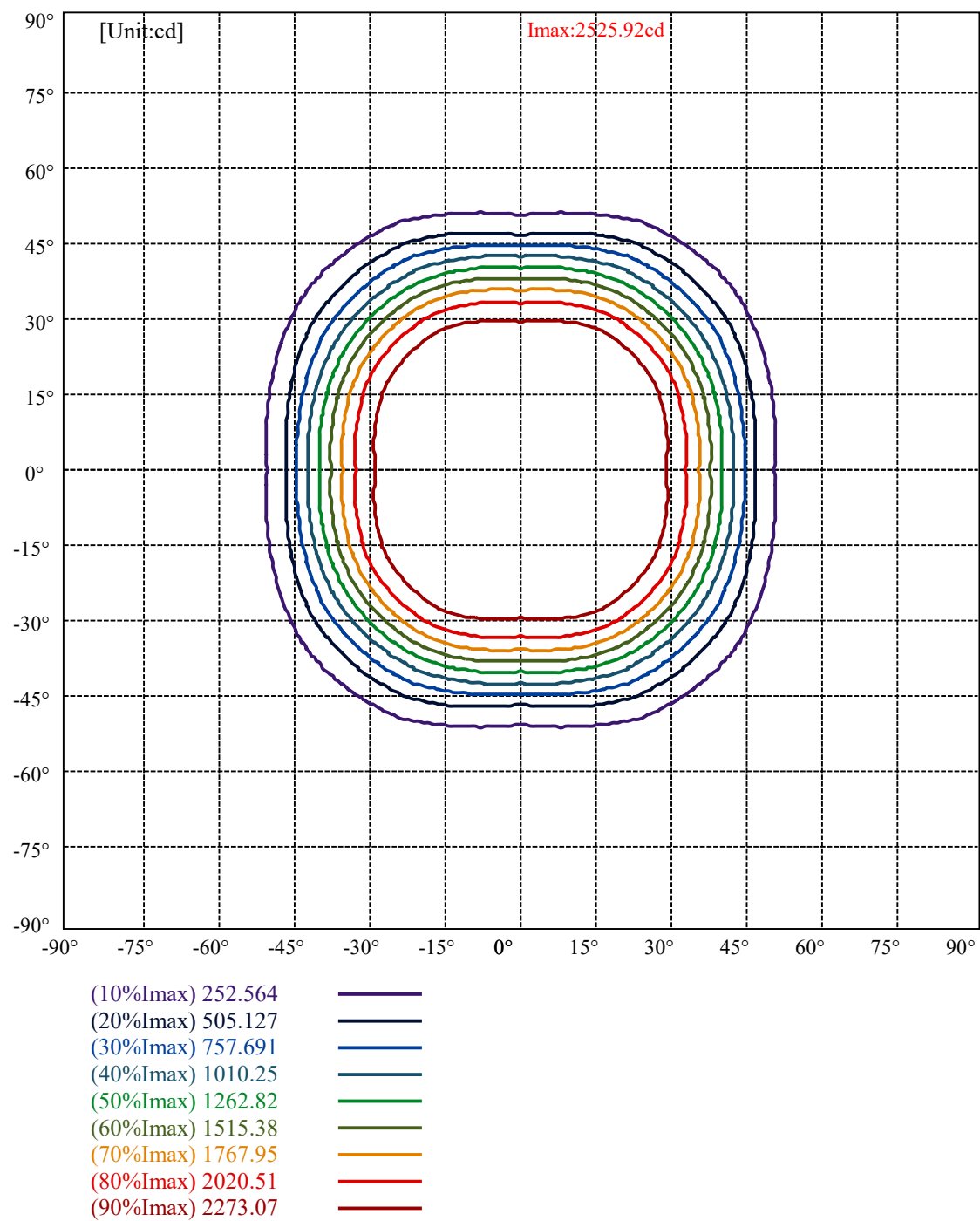
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	2074.79	51.10%	51.10%
0-40	3241.72	79.85%	79.85%
0-60	3992.24	98.33%	98.33%
0-90	4060.00	100.00%	100.00%
0-120	4060.00	100.00%	100.00%
0-180	4060.00	100.00%	100.00%
60-90	67.76	1.67%	1.67%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-40.07	3248.00	80.00%	80.00%

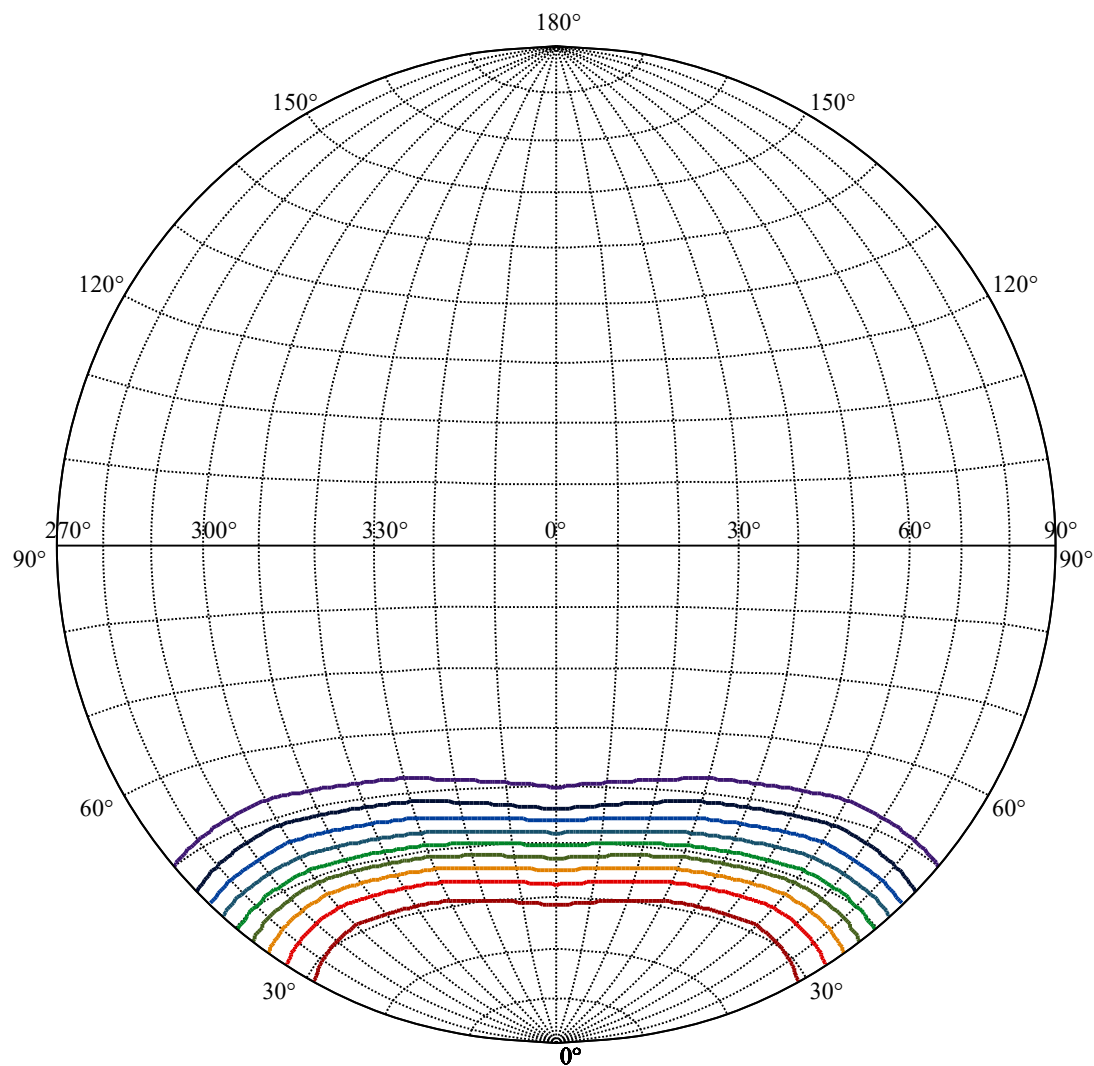
ZONAL LUMEN SUMMARY

0-10	237.31
10-20	712.74
20-30	1124.74
30-40	1166.93
40-50	606.36
50-60	144.15
60-70	43.06
70-80	20.50
80-90	4.20
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







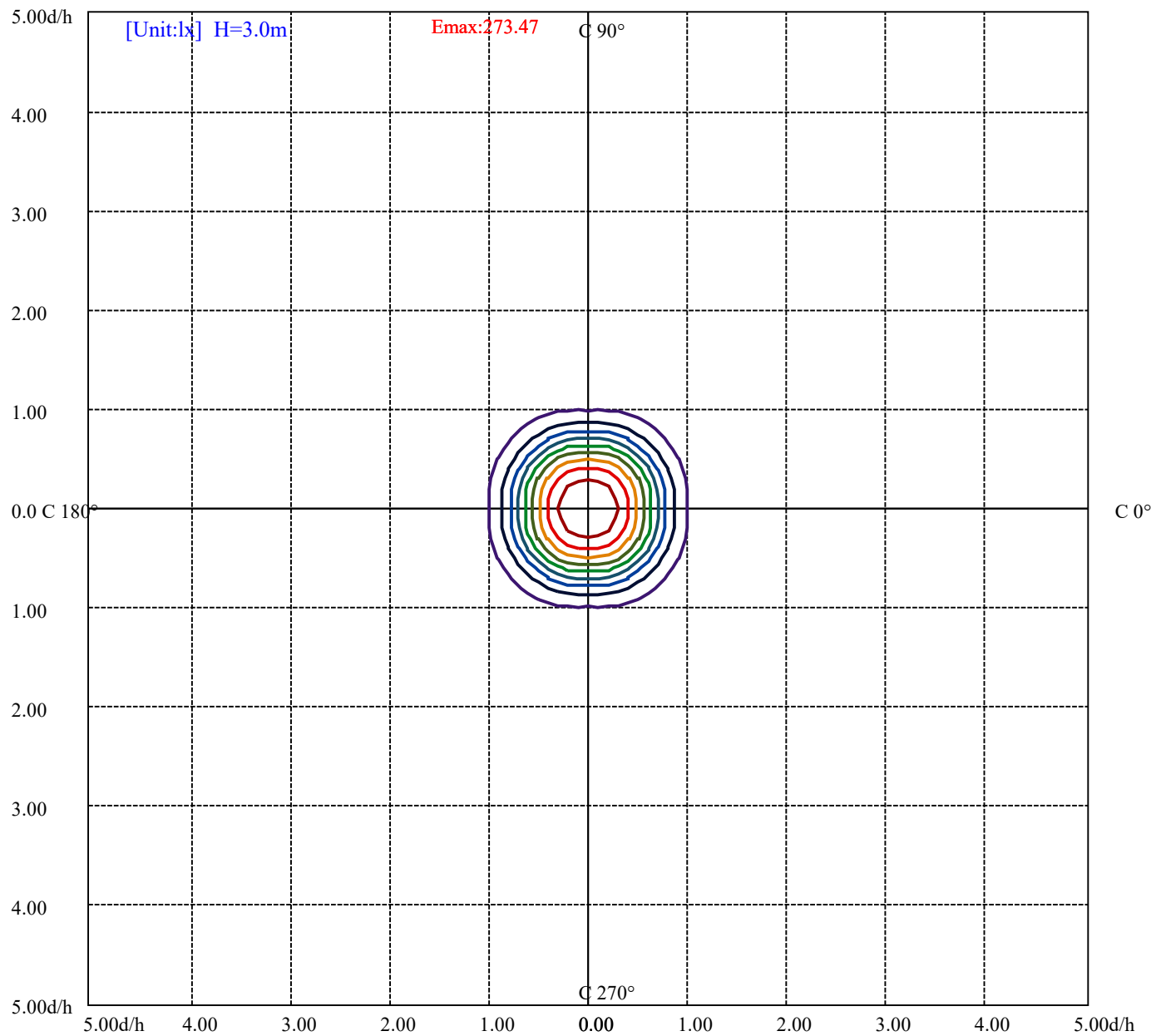


House

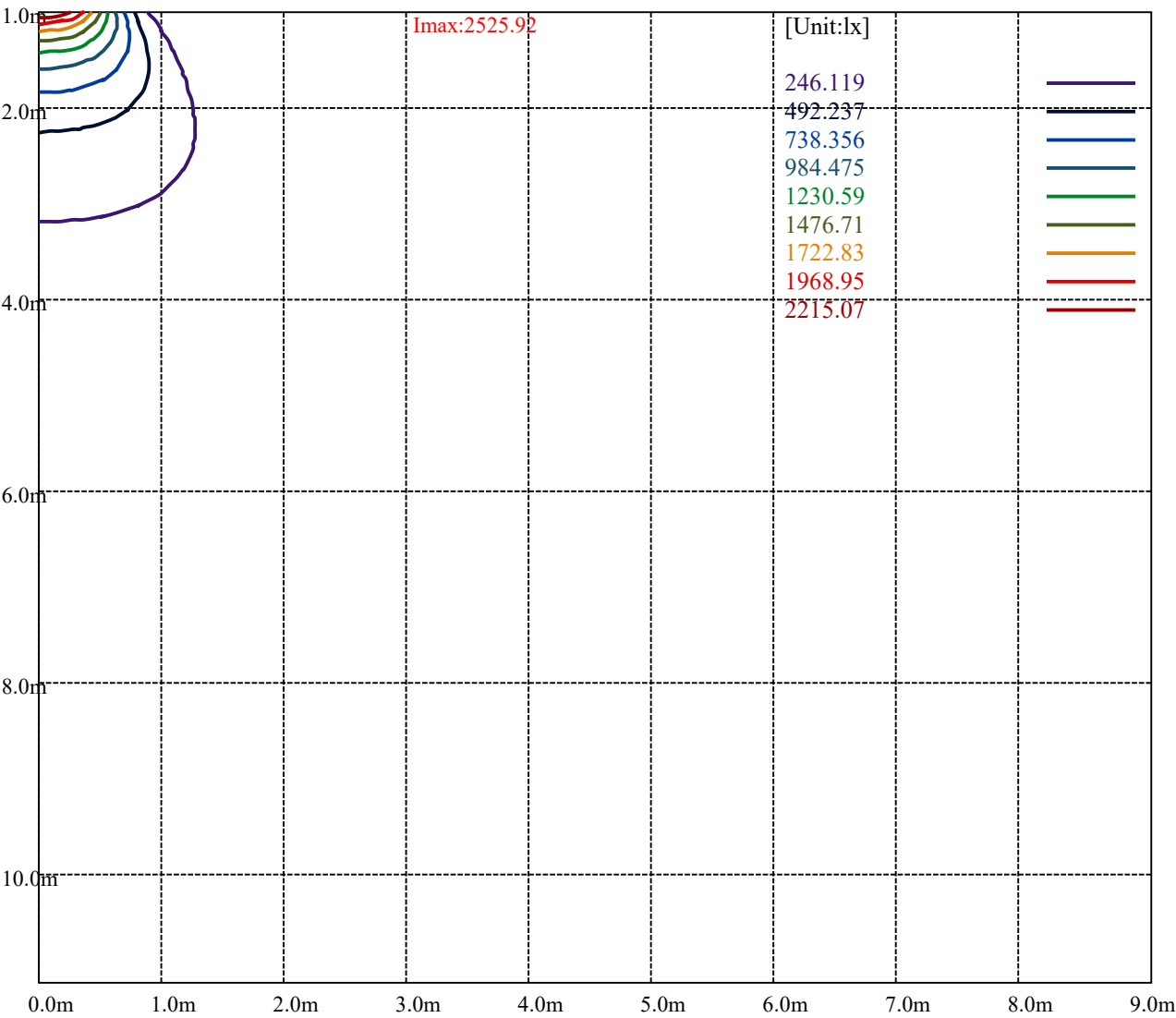
[Unit:cd]

Road

	I _{max} :2525.92	
(10%I _{max})	252.592	—
(20%I _{max})	505.184	—
(30%I _{max})	757.776	—
(40%I _{max})	1010.37	—
(50%I _{max})	1262.96	—
(60%I _{max})	1515.55	—
(70%I _{max})	1768.14	—
(80%I _{max})	2020.74	—
(90%I _{max})	2273.33	—



(10%Emax)	27.34656	—
(20%Emax)	54.693	—
(30%Emax)	82.03956	—
(40%Emax)	109.3861	—
(50%Emax)	136.7322	—
(60%Emax)	164.0789	—
(70%Emax)	191.4256	—
(80%Emax)	218.7722	—
(90%Emax)	246.1189	—



Luminance Limiting Curve(no luminous side)

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Luminance Table

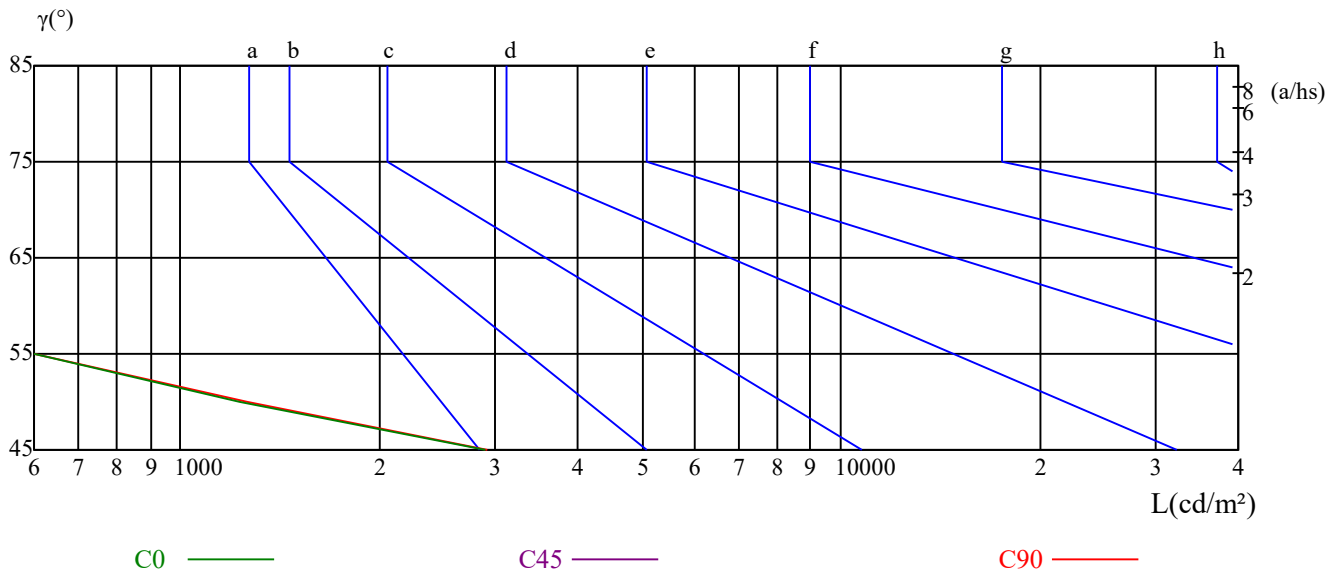
γ	45	50	55	60	65	70	75	80	85
C0	2893	1229	503	340	301	276	231	181	119
C45	0	0	0	0	0	0	0	0	0
C90	2909	1262	514	342	302	278	231	181	129

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
301	302	0	231	231	0	119	129	0

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve



Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	13.42	14.57	13.78	14.89	15.20	13.52	14.67	13.88	14.98	15.30
	3H	13.30	14.32	13.68	14.66	15.00	13.40	14.42	13.78	14.75	15.10
	4H	13.23	14.18	13.63	14.53	14.90	13.33	14.27	13.73	14.63	14.99
	6H	13.17	14.04	13.59	14.41	14.81	13.27	14.13	13.68	14.51	14.90
	8H	13.11	13.93	13.53	14.32	14.72	13.20	14.03	13.62	14.41	14.82
	12H	13.04	13.83	13.47	14.22	14.64	13.14	13.92	13.56	14.32	14.73
4H	2H	13.21	14.15	13.61	14.51	14.87	13.31	14.25	13.71	14.60	14.97
	3H	13.08	13.86	13.50	14.25	14.67	13.17	13.95	13.60	14.35	14.76
	4H	13.06	13.73	13.49	14.15	14.60	13.15	13.82	13.59	14.24	14.69
	6H	12.95	13.55	13.42	14.00	14.45	13.05	13.64	13.52	14.09	14.54
	8H	12.91	13.46	13.39	13.91	14.39	13.00	13.55	13.48	14.01	14.48
	12H	12.86	13.37	13.35	13.82	14.34	12.96	13.47	13.44	13.92	14.43
8H	4H	12.89	13.44	13.37	13.90	14.37	12.98	13.54	13.47	13.99	14.46
	6H	12.78	13.24	13.28	13.71	14.22	12.87	13.33	13.37	13.81	14.31
	8H	12.78	13.17	13.31	13.69	14.19	12.87	13.26	13.40	13.78	14.28
	12H	12.73	13.05	13.27	13.56	14.08	12.82	13.14	13.36	13.66	14.18
12H	4H	12.84	13.35	13.33	13.80	14.32	12.94	13.45	13.42	13.90	14.41
	6H	12.77	13.16	13.30	13.68	14.18	12.86	13.25	13.39	13.77	14.27
	8H	12.73	13.05	13.27	13.56	14.08	12.82	13.14	13.36	13.65	14.17
Variation with the observer position at spacings:											
S = 1.0H		2.7/-7.8					2.7/-7.8				
S = 1.5H		4.7/-9.5					4.7/-9.4				
S = 2.0H		6.7/-9.5					6.7/-9.5				
Standard tables:		BK0					BK0				
Uncorrected UGR		-5.3					-5.4				

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	2461.19	2453.20	2454.26	2456.57	2459.36	2460.61	2461.77	2462.92	2463.98
30.0	2461.19	2461.96	2462.25	2463.02	2464.36	2465.61	2466.57	2467.15	2468.79
60.0	2461.19	2463.30	2464.07	2466.19	2468.21	2470.81	2473.31	2475.33	2478.89
90.0	2461.19	2462.44	2463.11	2465.23	2468.02	2470.61	2473.79	2478.12	2481.77
120.0	2461.19	2463.30	2464.07	2466.19	2468.21	2470.81	2473.31	2475.33	2478.89
150.0	2461.19	2461.96	2462.25	2463.02	2464.36	2465.61	2466.57	2467.15	2468.79
180.0	2461.19	2453.20	2454.26	2456.57	2459.36	2460.61	2461.77	2462.92	2463.98
210.0	2461.19	2461.96	2462.25	2463.02	2464.36	2465.61	2466.57	2467.15	2468.79
240.0	2461.19	2463.30	2464.07	2466.19	2468.21	2470.81	2473.31	2475.33	2478.89
270.0	2461.19	2462.44	2463.11	2465.23	2468.02	2470.61	2473.79	2478.12	2481.77
300.0	2461.19	2463.30	2464.07	2466.19	2468.21	2470.81	2473.31	2475.33	2478.89
330.0	2461.19	2461.96	2462.25	2463.02	2464.36	2465.61	2466.57	2467.15	2468.79
360.0	2461.19	2453.20	2454.26	2456.57	2459.36	2460.61	2461.77	2462.92	2463.98

C/ γ (°)	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
0.0	2464.56	2465.32	2466.77	2469.56	2472.06	2473.50	2475.04	2477.64	2480.23
30.0	2469.94	2472.06	2474.56	2477.15	2480.71	2484.27	2487.35	2490.72	2493.60
60.0	2482.44	2485.52	2488.70	2490.33	2492.93	2494.37	2495.91	2496.97	2497.45
90.0	2485.04	2487.16	2491.10	2493.99	2496.87	2498.70	2501.20	2504.28	2505.91
120.0	2482.44	2485.52	2488.70	2490.33	2492.93	2494.37	2495.91	2496.97	2497.45
150.0	2469.94	2472.06	2474.56	2477.15	2480.71	2484.27	2487.35	2490.72	2493.60
180.0	2464.56	2465.32	2466.77	2469.56	2472.06	2473.50	2475.04	2477.64	2480.23
210.0	2469.94	2472.06	2474.56	2477.15	2480.71	2484.27	2487.35	2490.72	2493.60
240.0	2482.44	2485.52	2488.70	2490.33	2492.93	2494.37	2495.91	2496.97	2497.45
270.0	2485.04	2487.16	2491.10	2493.99	2496.87	2498.70	2501.20	2504.28	2505.91
300.0	2482.44	2485.52	2488.70	2490.33	2492.93	2494.37	2495.91	2496.97	2497.45
330.0	2469.94	2472.06	2474.56	2477.15	2480.71	2484.27	2487.35	2490.72	2493.60
360.0	2464.56	2465.32	2466.77	2469.56	2472.06	2473.50	2475.04	2477.64	2480.23

C/ γ (°)	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
0.0	2482.73	2485.14	2487.93	2490.14	2491.87	2495.24	2497.07	2498.89	2500.62
30.0	2496.30	2497.55	2500.24	2502.64	2504.76	2507.65	2510.15	2511.88	2514.19
60.0	2498.32	2499.37	2500.72	2501.10	2502.84	2505.34	2508.22	2510.15	2512.17
90.0	2506.88	2508.03	2509.09	2509.76	2511.01	2510.44	2509.19	2508.22	2508.51
120.0	2498.32	2499.37	2500.72	2501.10	2502.84	2505.34	2508.22	2510.15	2512.17
150.0	2496.30	2497.55	2500.24	2502.64	2504.76	2507.65	2510.15	2511.88	2514.19
180.0	2482.73	2485.14	2487.93	2490.14	2491.87	2495.24	2497.07	2498.89	2500.62
210.0	2496.30	2497.55	2500.24	2502.64	2504.76	2507.65	2510.15	2511.88	2514.19
240.0	2498.32	2499.37	2500.72	2501.10	2502.84	2505.34	2508.22	2510.15	2512.17
270.0	2506.88	2508.03	2509.09	2509.76	2511.01	2510.44	2509.19	2508.22	2508.51
300.0	2498.32	2499.37	2500.72	2501.10	2502.84	2505.34	2508.22	2510.15	2512.17
330.0	2496.30	2497.55	2500.24	2502.64	2504.76	2507.65	2510.15	2511.88	2514.19
360.0	2482.73	2485.14	2487.93	2490.14	2491.87	2495.24	2497.07	2498.89	2500.62

C/ γ (°)	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5
0.0	2503.03	2505.72	2507.36	2508.41	2510.82	2512.65	2514.57	2515.34	2516.30
30.0	2516.30	2517.36	2518.51	2518.23	2519.28	2519.28	2519.28	2519.00	2519.48
60.0	2514.57	2517.26	2519.57	2521.59	2522.46	2523.81	2524.29	2524.86	2525.73
90.0	2507.65	2506.49	2506.30	2506.59	2506.59	2506.49	2508.22	2509.19	2510.72
120.0	2514.57	2517.26	2519.57	2521.59	2522.46	2523.81	2524.29	2524.86	2525.73
150.0	2516.30	2517.36	2518.51	2518.23	2519.28	2519.28	2519.28	2519.00	2519.48
180.0	2503.03	2505.72	2507.36	2508.41	2510.82	2512.65	2514.57	2515.34	2516.30
210.0	2516.30	2517.36	2518.51	2518.23	2519.28	2519.28	2519.28	2519.00	2519.48
240.0	2514.57	2517.26	2519.57	2521.59	2522.46	2523.81	2524.29	2524.86	2525.73
270.0	2507.65	2506.49	2506.30	2506.59	2506.59	2506.49	2508.22	2509.19	2510.72
300.0	2514.57	2517.26	2519.57	2521.59	2522.46	2523.81	2524.29	2524.86	2525.73
330.0	2516.30	2517.36	2518.51	2518.23	2519.28	2519.28	2519.28	2519.00	2519.48
360.0	2503.03	2505.72	2507.36	2508.41	2510.82	2512.65	2514.57	2515.34	2516.30

C/γ(°)	18.0	18.5	19.0	19.5	20.0	20.5	21.0	21.5	22.0
0.0	2515.53	2514.19	2512.26	2508.70	2503.41	2497.83	2491.49	2482.06	2472.25
30.0	2519.09	2519.67	2519.09	2518.13	2516.50	2515.53	2513.61	2510.82	2506.68
60.0	2525.92	2525.54	2525.63	2525.15	2524.77	2523.13	2521.40	2519.67	2517.07
90.0	2512.26	2512.07	2511.88	2511.40	2508.61	2505.14	2499.47	2493.03	2485.52
120.0	2525.92	2525.54	2525.63	2525.15	2524.77	2523.13	2521.40	2519.67	2517.07
150.0	2519.09	2519.67	2519.09	2518.13	2516.50	2515.53	2513.61	2510.82	2506.68
180.0	2515.53	2514.19	2512.26	2508.70	2503.41	2497.83	2491.49	2482.06	2472.25
210.0	2519.09	2519.67	2519.09	2518.13	2516.50	2515.53	2513.61	2510.82	2506.68
240.0	2525.92	2525.54	2525.63	2525.15	2524.77	2523.13	2521.40	2519.67	2517.07
270.0	2512.26	2512.07	2511.88	2511.40	2508.61	2505.14	2499.47	2493.03	2485.52
300.0	2525.92	2525.54	2525.63	2525.15	2524.77	2523.13	2521.40	2519.67	2517.07
330.0	2519.09	2519.67	2519.09	2518.13	2516.50	2515.53	2513.61	2510.82	2506.68
360.0	2515.53	2514.19	2512.26	2508.70	2503.41	2497.83	2491.49	2482.06	2472.25

C/γ(°)	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5
0.0	2460.90	2446.57	2433.01	2418.48	2404.82	2392.32	2378.47	2364.52	2348.84
30.0	2502.07	2497.35	2490.81	2484.37	2476.29	2467.73	2458.30	2447.82	2435.41
60.0	2512.55	2507.55	2502.26	2496.10	2489.08	2480.23	2471.48	2461.57	2451.09
90.0	2477.54	2467.73	2458.50	2446.95	2434.06	2420.98	2407.71	2392.32	2375.97
120.0	2512.55	2507.55	2502.26	2496.10	2489.08	2480.23	2471.48	2461.57	2451.09
150.0	2502.07	2497.35	2490.81	2484.37	2476.29	2467.73	2458.30	2447.82	2435.41
180.0	2460.90	2446.57	2433.01	2418.48	2404.82	2392.32	2378.47	2364.52	2348.84
210.0	2502.07	2497.35	2490.81	2484.37	2476.29	2467.73	2458.30	2447.82	2435.41
240.0	2512.55	2507.55	2502.26	2496.10	2489.08	2480.23	2471.48	2461.57	2451.09
270.0	2477.54	2467.73	2458.50	2446.95	2434.06	2420.98	2407.71	2392.32	2375.97
300.0	2512.55	2507.55	2502.26	2496.10	2489.08	2480.23	2471.48	2461.57	2451.09
330.0	2502.07	2497.35	2490.81	2484.37	2476.29	2467.73	2458.30	2447.82	2435.41
360.0	2460.90	2446.57	2433.01	2418.48	2404.82	2392.32	2378.47	2364.52	2348.84

C/γ(°)	27.0	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0
0.0	2331.92	2314.12	2295.46	2274.11	2250.35	2224.09	2196.49	2165.71	2133.49
30.0	2423.20	2410.50	2397.32	2381.16	2364.52	2344.90	2323.93	2300.85	2275.26
60.0	2439.64	2427.52	2413.58	2397.22	2380.30	2361.44	2339.90	2316.62	2291.13
90.0	2360.87	2341.34	2319.80	2297.67	2273.34	2247.18	2218.42	2188.89	2155.42
120.0	2439.64	2427.52	2413.58	2397.22	2380.30	2361.44	2339.90	2316.62	2291.13
150.0	2423.20	2410.50	2397.32	2381.16	2364.52	2344.90	2323.93	2300.85	2275.26
180.0	2331.92	2314.12	2295.46	2274.11	2250.35	2224.09	2196.49	2165.71	2133.49
210.0	2423.20	2410.50	2397.32	2381.16	2364.52	2344.90	2323.93	2300.85	2275.26
240.0	2439.64	2427.52	2413.58	2397.22	2380.30	2361.44	2339.90	2316.62	2291.13
270.0	2360.87	2341.34	2319.80	2297.67	2273.34	2247.18	2218.42	2188.89	2155.42
300.0	2439.64	2427.52	2413.58	2397.22	2380.30	2361.44	2339.90	2316.62	2291.13
330.0	2423.20	2410.50	2397.32	2381.16	2364.52	2344.90	2323.93	2300.85	2275.26
360.0	2331.92	2314.12	2295.46	2274.11	2250.35	2224.09	2196.49	2165.71	2133.49

C/γ(°)	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0	35.5
0.0	2097.22	2056.44	2013.64	1967.85	1921.78	1871.28	1818.96	1765.19	1711.42
30.0	2246.41	2213.61	2179.85	2143.30	2102.03	2060.19	2014.12	1964.20	1912.93
60.0	2263.34	2233.52	2199.28	2162.44	2122.81	2080.87	2035.76	1987.48	1936.98
90.0	2120.50	2082.80	2039.61	1996.32	1950.16	1901.01	1850.60	1795.78	1741.05
120.0	2263.34	2233.52	2199.28	2162.44	2122.81	2080.87	2035.76	1987.48	1936.98
150.0	2246.41	2213.61	2179.85	2143.30	2102.03	2060.19	2014.12	1964.20	1912.93
180.0	2097.22	2056.44	2013.64	1967.85	1921.78	1871.28	1818.96	1765.19	1711.42
210.0	2246.41	2213.61	2179.85	2143.30	2102.03	2060.19	2014.12	1964.20	1912.93
240.0	2263.34	2233.52	2199.28	2162.44	2122.81	2080.87	2035.76	1987.48	1936.98
270.0	2120.50	2082.80	2039.61	1996.32	1950.16	1901.01	1850.60	1795.78	1741.05
300.0	2263.34	2233.52	2199.28	2162.44	2122.81	2080.87	2035.76	1987.48	1936.98
330.0	2246.41	2213.61	2179.85	2143.30	2102.03	2060.19	2014.12	1964.20	1912.93
360.0	2097.22	2056.44	2013.64	1967.85	1921.78	1871.28	1818.96	1765.19	1711.42

C/γ(°)	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.0
0.0	1657.56	1602.74	1545.12	1487.99	1428.83	1373.24	1316.01	1259.64	1204.82
30.0	1859.65	1805.21	1748.65	1690.46	1630.44	1570.23	1510.01	1448.45	1387.66
60.0	1885.90	1832.14	1775.96	1716.71	1658.33	1597.54	1536.94	1474.81	1414.21
90.0	1683.53	1628.51	1571.47	1513.67	1454.03	1396.32	1337.36	1279.26	1222.71
120.0	1885.90	1832.14	1775.96	1716.71	1658.33	1597.54	1536.94	1474.81	1414.21
150.0	1859.65	1805.21	1748.65	1690.46	1630.44	1570.23	1510.01	1448.45	1387.66
180.0	1657.56	1602.74	1545.12	1487.99	1428.83	1373.24	1316.01	1259.64	1204.82
210.0	1859.65	1805.21	1748.65	1690.46	1630.44	1570.23	1510.01	1448.45	1387.66
240.0	1885.90	1832.14	1775.96	1716.71	1658.33	1597.54	1536.94	1474.81	1414.21
270.0	1683.53	1628.51	1571.47	1513.67	1454.03	1396.32	1337.36	1279.26	1222.71
300.0	1885.90	1832.14	1775.96	1716.71	1658.33	1597.54	1536.94	1474.81	1414.21
330.0	1859.65	1805.21	1748.65	1690.46	1630.44	1570.23	1510.01	1448.45	1387.66
360.0	1657.56	1602.74	1545.12	1487.99	1428.83	1373.24	1316.01	1259.64	1204.82
C/γ(°)	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5
0.0	1151.24	1095.65	1041.21	987.05	930.08	872.82	813.45	754.27	693.19
30.0	1328.32	1267.05	1208.66	1150.38	1093.53	1037.84	983.78	932.10	882.04
60.0	1352.56	1294.08	1233.77	1174.90	1117.00	1061.12	1006.39	954.25	904.25
90.0	1165.09	1110.75	1056.40	1002.73	947.22	888.63	826.52	760.43	695.79
120.0	1352.56	1294.08	1233.77	1174.90	1117.00	1061.12	1006.39	954.25	904.25
150.0	1328.32	1267.05	1208.66	1150.38	1093.53	1037.84	983.78	932.10	882.04
180.0	1151.24	1095.65	1041.21	987.05	930.08	872.82	813.45	754.27	693.19
210.0	1328.32	1267.05	1208.66	1150.38	1093.53	1037.84	983.78	932.10	882.04
240.0	1352.56	1294.08	1233.77	1174.90	1117.00	1061.12	1006.39	954.25	904.25
270.0	1165.09	1110.75	1056.40	1002.73	947.22	888.63	826.52	760.43	695.79
300.0	1352.56	1294.08	1233.77	1174.90	1117.00	1061.12	1006.39	954.25	904.25
330.0	1328.32	1267.05	1208.66	1150.38	1093.53	1037.84	983.78	932.10	882.04
360.0	1151.24	1095.65	1041.21	987.05	930.08	872.82	813.45	754.27	693.19
C/γ(°)	45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0
0.0	630.01	564.03	502.36	453.16	411.13	375.27	343.42	315.56	290.03
30.0	834.37	786.75	742.46	697.23	652.13	606.99	561.94	515.70	471.61
60.0	854.79	807.94	761.90	716.23	670.24	624.26	576.64	529.63	484.07
90.0	633.67	572.19	514.51	459.12	418.13	383.52	352.42	324.35	298.00
120.0	854.79	807.94	761.90	716.23	670.24	624.26	576.64	529.63	484.07
150.0	834.37	786.75	742.46	697.23	652.13	606.99	561.94	515.70	471.61
180.0	630.01	564.03	502.36	453.16	411.13	375.27	343.42	315.56	290.03
210.0	834.37	786.75	742.46	697.23	652.13	606.99	561.94	515.70	471.61
240.0	854.79	807.94	761.90	716.23	670.24	624.26	576.64	529.63	484.07
270.0	633.67	572.19	514.51	459.12	418.13	383.52	352.42	324.35	298.00
300.0	854.79	807.94	761.90	716.23	670.24	624.26	576.64	529.63	484.07
330.0	834.37	786.75	742.46	697.23	652.13	606.99	561.94	515.70	471.61
360.0	630.01	564.03	502.36	453.16	411.13	375.27	343.42	315.56	290.03
C/γ(°)	49.5	50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5
0.0	265.79	243.32	222.15	201.70	181.84	162.75	145.89	130.79	117.62
30.0	430.06	391.13	355.25	324.22	297.82	275.50	255.61	236.85	218.64
60.0	439.50	398.70	362.73	332.50	306.88	284.86	263.87	244.27	225.78
90.0	273.43	249.85	228.21	206.88	186.30	166.60	149.30	133.69	120.37
120.0	439.50	398.70	362.73	332.50	306.88	284.86	263.87	244.27	225.78
150.0	430.06	391.13	355.25	324.22	297.82	275.50	255.61	236.85	218.64
180.0	265.79	243.32	222.15	201.70	181.84	162.75	145.89	130.79	117.62
210.0	430.06	391.13	355.25	324.22	297.82	275.50	255.61	236.85	218.64
240.0	439.50	398.70	362.73	332.50	306.88	284.86	263.87	244.27	225.78
270.0	273.43	249.85	228.21	206.88	186.30	166.60	149.30	133.69	120.37
300.0	439.50	398.70	362.73	332.50	306.88	284.86	263.87	244.27	225.78
330.0	430.06	391.13	355.25	324.22	297.82	275.50	255.61	236.85	218.64
360.0	265.79	243.32	222.15	201.70	181.84	162.75	145.89	130.79	117.62

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	106.32	96.96	88.86	82.19	76.68	72.02	68.19	64.82	61.80
30.0	201.54	185.72	170.26	155.32	141.08	127.97	116.19	105.21	95.81
60.0	208.42	191.93	175.63	159.99	145.24	131.57	119.17	108.14	98.46
90.0	108.62	98.91	90.78	83.89	78.05	73.20	69.22	65.68	62.54
120.0	208.42	191.93	175.63	159.99	145.24	131.57	119.17	108.14	98.46
150.0	201.54	185.72	170.26	155.32	141.08	127.97	116.19	105.21	95.81
180.0	106.32	96.96	88.86	82.19	76.68	72.02	68.19	64.82	61.80
210.0	201.54	185.72	170.26	155.32	141.08	127.97	116.19	105.21	95.81
240.0	208.42	191.93	175.63	159.99	145.24	131.57	119.17	108.14	98.46
270.0	108.62	98.91	90.78	83.89	78.05	73.20	69.22	65.68	62.54
300.0	208.42	191.93	175.63	159.99	145.24	131.57	119.17	108.14	98.46
330.0	201.54	185.72	170.26	155.32	141.08	127.97	116.19	105.21	95.81
360.0	106.32	96.96	88.86	82.19	76.68	72.02	68.19	64.82	61.80
C/ γ (°)	58.5	59.0	59.5	60.0	60.5	61.0	61.5	62.0	62.5
0.0	59.11	56.70	54.42	52.38	50.53	48.81	47.27	45.91	44.67
30.0	87.75	80.91	75.11	70.22	66.05	62.37	59.07	56.13	53.37
60.0	90.05	83.01	77.36	72.13	67.73	63.91	60.49	57.24	54.31
90.0	59.71	57.15	54.87	52.75	50.88	49.14	47.61	46.22	44.95
120.0	90.05	83.01	77.36	72.13	67.73	63.91	60.49	57.24	54.31
150.0	87.75	80.91	75.11	70.22	66.05	62.37	59.07	56.13	53.37
180.0	59.11	56.70	54.42	52.38	50.53	48.81	47.27	45.91	44.67
210.0	87.75	80.91	75.11	70.22	66.05	62.37	59.07	56.13	53.37
240.0	90.05	83.01	77.36	72.13	67.73	63.91	60.49	57.24	54.31
270.0	59.71	57.15	54.87	52.75	50.88	49.14	47.61	46.22	44.95
300.0	90.05	83.01	77.36	72.13	67.73	63.91	60.49	57.24	54.31
330.0	87.75	80.91	75.11	70.22	66.05	62.37	59.07	56.13	53.37
360.0	59.11	56.70	54.42	52.38	50.53	48.81	47.27	45.91	44.67
C/ γ (°)	63.0	63.5	64.0	64.5	65.0	65.5	66.0	66.5	67.0
0.0	43.49	42.39	41.29	40.24	39.18	38.16	37.17	36.18	35.23
30.0	50.83	48.47	46.27	44.18	42.44	40.88	39.51	38.30	37.16
60.0	51.61	49.06	46.67	44.49	42.63	41.08	39.74	38.56	37.40
90.0	43.77	42.64	41.56	40.47	39.37	38.34	37.35	36.36	35.40
120.0	51.61	49.06	46.67	44.49	42.63	41.08	39.74	38.56	37.40
150.0	50.83	48.47	46.27	44.18	42.44	40.88	39.51	38.30	37.16
180.0	43.49	42.39	41.29	40.24	39.18	38.16	37.17	36.18	35.23
210.0	50.83	48.47	46.27	44.18	42.44	40.88	39.51	38.30	37.16
240.0	51.61	49.06	46.67	44.49	42.63	41.08	39.74	38.56	37.40
270.0	43.77	42.64	41.56	40.47	39.37	38.34	37.35	36.36	35.40
300.0	51.61	49.06	46.67	44.49	42.63	41.08	39.74	38.56	37.40
330.0	50.83	48.47	46.27	44.18	42.44	40.88	39.51	38.30	37.16
360.0	43.49	42.39	41.29	40.24	39.18	38.16	37.17	36.18	35.23
C/ γ (°)	67.5	68.0	68.5	69.0	69.5	70.0	70.5	71.0	71.5
0.0	34.31	33.36	32.40	31.35	30.25	29.12	28.02	26.90	25.77
30.0	36.05	34.94	33.85	32.77	31.69	30.63	29.58	28.49	27.36
60.0	36.24	35.12	34.00	32.90	31.82	30.76	29.71	28.64	27.47
90.0	34.48	33.53	32.54	31.49	30.39	29.25	28.12	26.99	25.85
120.0	36.24	35.12	34.00	32.90	31.82	30.76	29.71	28.64	27.47
150.0	36.05	34.94	33.85	32.77	31.69	30.63	29.58	28.49	27.36
180.0	34.31	33.36	32.40	31.35	30.25	29.12	28.02	26.90	25.77
210.0	36.05	34.94	33.85	32.77	31.69	30.63	29.58	28.49	27.36
240.0	36.24	35.12	34.00	32.90	31.82	30.76	29.71	28.64	27.47
270.0	34.48	33.53	32.54	31.49	30.39	29.25	28.12	26.99	25.85
300.0	36.24	35.12	34.00	32.90	31.82	30.76	29.71	28.64	27.47
330.0	36.05	34.94	33.85	32.77	31.69	30.63	29.58	28.49	27.36
360.0	34.31	33.36	32.40	31.35	30.25	29.12	28.02	26.90	25.77

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	24.66	23.59	22.52	21.48	20.45	19.42	18.43	17.44	16.47	
30.0	26.21	25.06	23.89	22.75	21.63	20.51	19.41	18.37	17.34	
60.0	26.30	25.11	23.94	22.79	21.66	20.57	19.48	18.39	17.34	
90.0	24.74	23.65	22.58	21.52	20.48	19.44	18.43	17.46	16.50	
120.0	26.30	25.11	23.94	22.79	21.66	20.57	19.48	18.39	17.34	
150.0	26.21	25.06	23.89	22.75	21.63	20.51	19.41	18.37	17.34	
180.0	24.66	23.59	22.52	21.48	20.45	19.42	18.43	17.44	16.47	
210.0	26.21	25.06	23.89	22.75	21.63	20.51	19.41	18.37	17.34	
240.0	26.30	25.11	23.94	22.79	21.66	20.57	19.48	18.39	17.34	
270.0	24.74	23.65	22.58	21.52	20.48	19.44	18.43	17.46	16.50	
300.0	26.30	25.11	23.94	22.79	21.66	20.57	19.48	18.39	17.34	
330.0	26.21	25.06	23.89	22.75	21.63	20.51	19.41	18.37	17.34	
360.0	24.66	23.59	22.52	21.48	20.45	19.42	18.43	17.44	16.47	
C/γ(°)	76.5	77.0	77.5	78.0	78.5	79.0	79.5	80.0	80.5	
0.0	15.54	14.63	13.76	12.91	12.04	11.25	10.45	9.67	8.88	
30.0	16.33	15.34	14.38	13.44	12.55	11.72	10.87	10.05	9.25	
60.0	16.33	15.35	14.38	13.44	12.55	11.69	10.84	10.04	9.24	
90.0	15.55	14.63	13.74	12.87	12.02	11.21	10.43	9.66	8.92	
120.0	16.33	15.35	14.38	13.44	12.55	11.69	10.84	10.04	9.24	
150.0	16.33	15.34	14.38	13.44	12.55	11.72	10.87	10.05	9.25	
180.0	15.54	14.63	13.76	12.91	12.04	11.25	10.45	9.67	8.88	
210.0	16.33	15.34	14.38	13.44	12.55	11.72	10.87	10.05	9.25	
240.0	16.33	15.35	14.38	13.44	12.55	11.69	10.84	10.04	9.24	
270.0	15.55	14.63	13.74	12.87	12.02	11.21	10.43	9.66	8.92	
300.0	16.33	15.35	14.38	13.44	12.55	11.69	10.84	10.04	9.24	
330.0	16.33	15.34	14.38	13.44	12.55	11.72	10.87	10.05	9.25	
360.0	15.54	14.63	13.76	12.91	12.04	11.25	10.45	9.67	8.88	
C/γ(°)	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5	85.0	
0.0	8.08	7.30	6.58	5.91	5.27	4.65	4.14	3.65	3.20	
30.0	8.50	7.74	6.99	6.24	5.52	4.85	4.22	3.64	3.13	
60.0	8.49	7.77	7.07	6.41	5.78	5.18	4.60	4.04	3.53	
90.0	8.21	7.52	6.86	6.24	5.62	5.05	4.48	3.96	3.46	
120.0	8.49	7.77	7.07	6.41	5.78	5.18	4.60	4.04	3.53	
150.0	8.50	7.74	6.99	6.24	5.52	4.85	4.22	3.64	3.13	
180.0	8.08	7.30	6.58	5.91	5.27	4.65	4.14	3.65	3.20	
210.0	8.50	7.74	6.99	6.24	5.52	4.85	4.22	3.64	3.13	
240.0	8.49	7.77	7.07	6.41	5.78	5.18	4.60	4.04	3.53	
270.0	8.21	7.52	6.86	6.24	5.62	5.05	4.48	3.96	3.46	
300.0	8.49	7.77	7.07	6.41	5.78	5.18	4.60	4.04	3.53	
330.0	8.50	7.74	6.99	6.24	5.52	4.85	4.22	3.64	3.13	
360.0	8.08	7.30	6.58	5.91	5.27	4.65	4.14	3.65	3.20	
C/γ(°)	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5	
0.0	2.77	2.36	1.98	1.63	1.28	0.94	0.57	0.30	0.16	
30.0	2.65	2.22	1.84	1.49	1.18	0.89	0.59	0.28	0.10	
60.0	3.01	2.48	2.04	1.59	1.15	0.79	0.50	0.26	0.10	
90.0	3.00	2.55	2.15	1.75	1.38	1.01	0.68	0.35	0.11	
120.0	3.01	2.48	2.04	1.59	1.15	0.79	0.50	0.26	0.10	
150.0	2.65	2.22	1.84	1.49	1.18	0.89	0.59	0.28	0.10	
180.0	2.77	2.36	1.98	1.63	1.28	0.94	0.57	0.30	0.16	
210.0	2.65	2.22	1.84	1.49	1.18	0.89	0.59	0.28	0.10	
240.0	3.01	2.48	2.04	1.59	1.15	0.79	0.50	0.26	0.10	
270.0	3.00	2.55	2.15	1.75	1.38	1.01	0.68	0.35	0.11	
300.0	3.01	2.48	2.04	1.59	1.15	0.79	0.50	0.26	0.10	
330.0	2.65	2.22	1.84	1.49	1.18	0.89	0.59	0.28	0.10	
360.0	2.77	2.36	1.98	1.63	1.28	0.94	0.57	0.30	0.16	

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

C/γ(°)	90.0
0.0	0.09
30.0	0.05
60.0	0.04
90.0	0.02
120.0	0.04
150.0	0.05
180.0	0.09
210.0	0.05
240.0	0.04
270.0	0.02
300.0	0.04
330.0	0.05
360.0	0.09