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BSR1808010101-9

Client:
MANUFAC: Hawko Lighting Group Australia Pty Ltd
LumCAT: STARFLEX-IP20-4000K

Luminaire: LED Strip Light	Voltage(V): 24.000
Test No: S01	Current(A): 0.504
LampCAT:	Power (W): 12.100
Lamp flux(lm)	PF: 1.0001
Number of Lamps: 1	Ballast type:
Length(mm): 1000	Width(mm): 10
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1156.20, Luminous Efficacy(lm/W): 95.55
Central intensity(cd): 383.723, Maximum intensity(cd): 385.390
Angle of maximum intensity: C=90.0 γ=1.0
Beam Angle(50%Imax): [C0/180]Total=116.2
[C90/270]Total=117.6
Field angle(10%Imax): [C0/180]Total=163.2
[C90/270]Total=165.4
Maximum s/h(1/2): C0_180=1.28 C90_270=1.29
Maximum s/h(1/4): C0_180=1.40 C90_270=1.41
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 77.344%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	383.723	0.000	0	0.00%	0.00%
1.0	383.524	0.367	0.367	0.03%	0.03%
2.0	383.524	1.101	1.468	0.10%	0.13%
3.0	383.088	1.833	3.302	0.16%	0.29%
4.0	382.671	2.563	5.865	0.22%	0.51%
5.0	382.006	3.290	9.154	0.28%	0.79%
6.0	381.451	4.012	13.167	0.35%	1.14%
7.0	381.203	4.734	17.9	0.41%	1.55%
8.0	380.478	5.451	23.352	0.47%	2.02%
9.0	379.288	6.158	29.509	0.53%	2.55%
10.0	378.017	6.854	36.363	0.59%	3.15%
11.0	376.986	7.544	43.907	0.65%	3.80%
12.0	375.448	8.225	52.132	0.71%	4.51%
13.0	374.336	8.898	61.03	0.77%	5.28%
14.0	372.411	9.558	70.588	0.83%	6.11%
15.0	370.695	10.202	80.79	0.88%	6.99%
16.0	369.008	10.839	91.629	0.94%	7.92%
17.0	367.321	11.467	103.095	0.99%	8.92%
18.0	365.079	12.076	115.171	1.04%	9.96%
19.0	362.747	12.663	127.834	1.10%	11.06%
20.0	360.504	13.238	141.071	1.14%	12.20%
21.0	358.232	13.801	154.872	1.19%	13.39%
22.0	355.841	14.350	169.222	1.24%	14.64%
23.0	353.439	14.883	184.105	1.29%	15.92%
24.0	350.929	15.400	199.505	1.33%	17.26%
25.0	347.893	15.890	215.394	1.37%	18.63%
26.0	344.797	16.351	231.745	1.41%	20.04%
27.0	341.979	16.802	248.548	1.45%	21.50%
28.0	338.903	17.238	265.786	1.49%	22.99%
29.0	335.609	17.647	283.433	1.53%	24.51%
30.0	332.334	18.034	301.467	1.56%	26.07%
31.0	328.613	18.393	319.861	1.59%	27.66%
32.0	325.329	18.735	338.595	1.62%	29.29%
33.0	321.130	19.045	357.64	1.65%	30.93%
34.0	317.399	19.324	376.964	1.67%	32.60%
35.0	313.268	19.586	396.55	1.69%	34.30%
36.0	309.168	19.818	416.369	1.71%	36.01%
37.0	305.104	20.034	436.403	1.73%	37.74%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	300.716	20.221	456.624	1.75%	39.49%
39.0	296.046	20.369	476.993	1.76%	41.26%
40.0	291.787	20.502	497.495	1.77%	43.03%
41.0	287.849	20.641	518.136	1.79%	44.81%
42.0	283.086	20.743	538.879	1.79%	46.61%
43.0	278.259	20.794	559.672	1.80%	48.41%
44.0	273.201	20.814	580.486	1.80%	50.21%
45.0	268.164	20.805	601.291	1.80%	52.01%
46.0	262.947	20.771	622.062	1.80%	53.80%
47.0	257.736	20.709	642.771	1.79%	55.59%
48.0	252.387	20.622	663.393	1.78%	57.38%
49.0	247.202	20.516	683.909	1.77%	59.15%
50.0	241.409	20.372	704.28	1.76%	60.91%
51.0	235.817	20.191	724.471	1.75%	62.66%
52.0	230.086	19.992	744.463	1.73%	64.39%
53.0	224.664	19.782	764.245	1.71%	66.10%
54.0	218.603	19.537	783.782	1.69%	67.79%
55.0	212.669	19.251	803.034	1.67%	69.45%
56.0	206.764	18.953	821.987	1.64%	71.09%
57.0	200.554	18.624	840.61	1.61%	72.70%
58.0	194.351	18.262	858.872	1.58%	74.28%
59.0	188.266	17.888	876.76	1.55%	75.83%
60.0	181.947	17.490	894.25	1.51%	77.34%
61.0	175.255	17.046	911.296	1.47%	78.82%
62.0	169.537	16.614	927.91	1.44%	80.25%
63.0	162.324	16.140	944.05	1.40%	81.65%
64.0	155.794	15.610	959.66	1.35%	83.00%
65.0	148.974	15.083	974.743	1.30%	84.31%
66.0	143.294	14.582	989.325	1.26%	85.57%
67.0	135.581	14.023	1003.348	1.21%	86.78%
68.0	128.835	13.394	1016.742	1.16%	87.94%
69.0	121.595	12.776	1029.518	1.10%	89.04%
70.0	114.988	12.150	1041.669	1.05%	90.09%
71.0	108.373	11.544	1053.213	1.00%	91.09%
72.0	101.665	10.921	1064.134	0.94%	92.04%
73.0	96.061	10.340	1074.474	0.89%	92.93%
74.0	88.136	9.684	1084.158	0.84%	93.77%
75.0	80.861	8.929	1093.087	0.77%	94.54%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	74.156	8.229	1101.316	0.71%	95.25%
77.0	67.606	7.558	1108.874	0.65%	95.91%
78.0	61.643	6.919	1115.793	0.60%	96.50%
79.0	55.468	6.292	1122.085	0.54%	97.05%
80.0	49.812	5.676	1127.761	0.49%	97.54%
81.0	43.987	5.073	1132.833	0.44%	97.98%
82.0	38.746	4.487	1137.32	0.39%	98.37%
83.0	33.719	3.939	1141.259	0.34%	98.71%
84.0	29.127	3.424	1144.683	0.30%	99.00%
85.0	24.911	2.949	1147.632	0.26%	99.26%
86.0	20.870	2.502	1150.135	0.22%	99.48%
87.0	17.899	2.122	1152.256	0.18%	99.66%
88.0	14.830	1.793	1154.049	0.16%	99.81%
89.0	12.236	1.484	1155.533	0.13%	99.94%
90.0	0.000	0.671	1156.204	0.06%	100.00%
91.0	0.000	0.000	1156.204	0.00%	100.00%
92.0	0.000	0.000	1156.204	0.00%	100.00%
93.0	0.000	0.000	1156.204	0.00%	100.00%
94.0	0.000	0.000	1156.204	0.00%	100.00%
95.0	0.000	0.000	1156.204	0.00%	100.00%
96.0	0.000	0.000	1156.204	0.00%	100.00%
97.0	0.000	0.000	1156.204	0.00%	100.00%
98.0	0.000	0.000	1156.204	0.00%	100.00%
99.0	0.000	0.000	1156.204	0.00%	100.00%
100.0	0.000	0.000	1156.204	0.00%	100.00%
101.0	0.000	0.000	1156.204	0.00%	100.00%
102.0	0.000	0.000	1156.204	0.00%	100.00%
103.0	0.000	0.000	1156.204	0.00%	100.00%
104.0	0.000	0.000	1156.204	0.00%	100.00%
105.0	0.000	0.000	1156.204	0.00%	100.00%
106.0	0.000	0.000	1156.204	0.00%	100.00%
107.0	0.000	0.000	1156.204	0.00%	100.00%
108.0	0.000	0.000	1156.204	0.00%	100.00%
109.0	0.000	0.000	1156.204	0.00%	100.00%
110.0	0.000	0.000	1156.204	0.00%	100.00%
111.0	0.000	0.000	1156.204	0.00%	100.00%
112.0	0.000	0.000	1156.204	0.00%	100.00%
113.0	0.000	0.000	1156.204	0.00%	100.00%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	0.000	0.000	1156.204	0.00%	100.00%
115.0	0.000	0.000	1156.204	0.00%	100.00%
116.0	0.000	0.000	1156.204	0.00%	100.00%
117.0	0.000	0.000	1156.204	0.00%	100.00%
118.0	0.000	0.000	1156.204	0.00%	100.00%
119.0	0.000	0.000	1156.204	0.00%	100.00%
120.0	0.000	0.000	1156.204	0.00%	100.00%
121.0	0.000	0.000	1156.204	0.00%	100.00%
122.0	0.000	0.000	1156.204	0.00%	100.00%
123.0	0.000	0.000	1156.204	0.00%	100.00%
124.0	0.000	0.000	1156.204	0.00%	100.00%
125.0	0.000	0.000	1156.204	0.00%	100.00%
126.0	0.000	0.000	1156.204	0.00%	100.00%
127.0	0.000	0.000	1156.204	0.00%	100.00%
128.0	0.000	0.000	1156.204	0.00%	100.00%
129.0	0.000	0.000	1156.204	0.00%	100.00%
130.0	0.000	0.000	1156.204	0.00%	100.00%
131.0	0.000	0.000	1156.204	0.00%	100.00%
132.0	0.000	0.000	1156.204	0.00%	100.00%
133.0	0.000	0.000	1156.204	0.00%	100.00%
134.0	0.000	0.000	1156.204	0.00%	100.00%
135.0	0.000	0.000	1156.204	0.00%	100.00%
136.0	0.000	0.000	1156.204	0.00%	100.00%
137.0	0.000	0.000	1156.204	0.00%	100.00%
138.0	0.000	0.000	1156.204	0.00%	100.00%
139.0	0.000	0.000	1156.204	0.00%	100.00%
140.0	0.000	0.000	1156.204	0.00%	100.00%
141.0	0.000	0.000	1156.204	0.00%	100.00%
142.0	0.000	0.000	1156.204	0.00%	100.00%
143.0	0.000	0.000	1156.204	0.00%	100.00%
144.0	0.000	0.000	1156.204	0.00%	100.00%
145.0	0.000	0.000	1156.204	0.00%	100.00%
146.0	0.000	0.000	1156.204	0.00%	100.00%
147.0	0.000	0.000	1156.204	0.00%	100.00%
148.0	0.000	0.000	1156.204	0.00%	100.00%
149.0	0.000	0.000	1156.204	0.00%	100.00%
150.0	0.000	0.000	1156.204	0.00%	100.00%
151.0	0.000	0.000	1156.204	0.00%	100.00%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	0.000	0.000	1156.204	0.00%	100.00%
153.0	0.000	0.000	1156.204	0.00%	100.00%
154.0	0.000	0.000	1156.204	0.00%	100.00%
155.0	0.000	0.000	1156.204	0.00%	100.00%
156.0	0.000	0.000	1156.204	0.00%	100.00%
157.0	0.000	0.000	1156.204	0.00%	100.00%
158.0	0.000	0.000	1156.204	0.00%	100.00%
159.0	0.000	0.000	1156.204	0.00%	100.00%
160.0	0.000	0.000	1156.204	0.00%	100.00%
161.0	0.000	0.000	1156.204	0.00%	100.00%
162.0	0.000	0.000	1156.204	0.00%	100.00%
163.0	0.000	0.000	1156.204	0.00%	100.00%
164.0	0.000	0.000	1156.204	0.00%	100.00%
165.0	0.000	0.000	1156.204	0.00%	100.00%
166.0	0.000	0.000	1156.204	0.00%	100.00%
167.0	0.000	0.000	1156.204	0.00%	100.00%
168.0	0.000	0.000	1156.204	0.00%	100.00%
169.0	0.000	0.000	1156.204	0.00%	100.00%
170.0	0.000	0.000	1156.204	0.00%	100.00%
171.0	0.000	0.000	1156.204	0.00%	100.00%
172.0	0.000	0.000	1156.204	0.00%	100.00%
173.0	0.000	0.000	1156.204	0.00%	100.00%
174.0	0.000	0.000	1156.204	0.00%	100.00%
175.0	0.000	0.000	1156.204	0.00%	100.00%
176.0	0.000	0.000	1156.204	0.00%	100.00%
177.0	0.000	0.000	1156.204	0.00%	100.00%
178.0	0.000	0.000	1156.204	0.00%	100.00%
179.0	0.000	0.000	1156.204	0.00%	100.00%
180.0	0.000	0.000	1156.204	0.00%	100.00%

Zonal flux distribution table

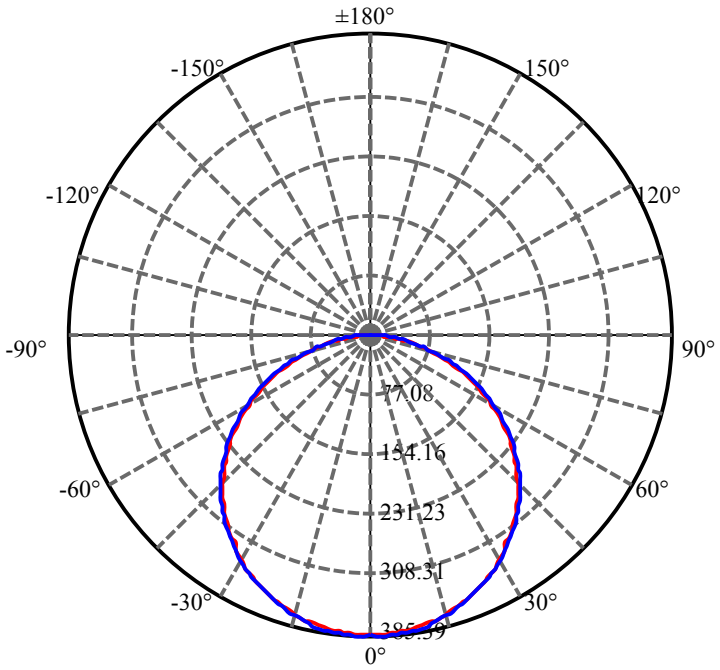
ZONAL LUMEN SUMMARY

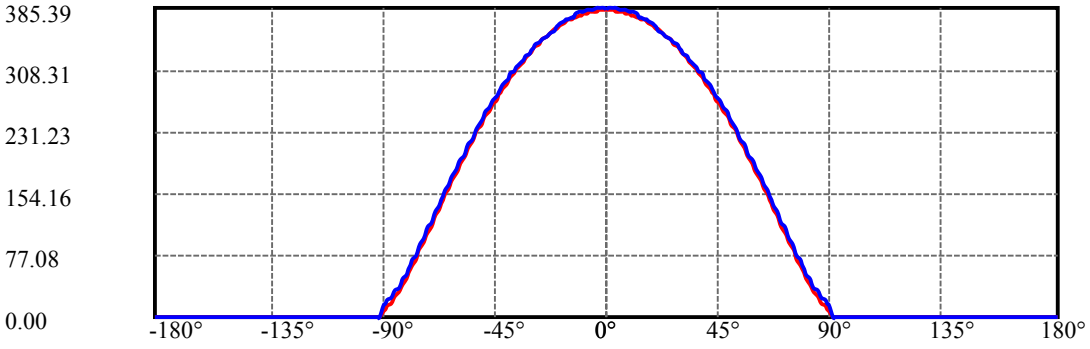
Zone	Lumens	%Fixt
0-30	301.47	26.07%
0-40	497.49	43.03%
0-60	894.25	77.34%
0-90	1156.20	100.00%
0-120	1156.20	100.00%
0-180	1156.20	100.00%
60-90	261.95	22.66%
90-120	0.00	0.00%
90-130	0.00	0.00%
90-150	0.00	0.00%
90-180	0.00	0.00%
0-61.82	924.96	80.00%

ZONAL LUMEN SUMMARY

0-10	36.36
10-20	104.71
20-30	160.40
30-40	196.03
40-50	206.79
50-60	189.97
60-70	147.42
70-80	86.09
80-90	28.44
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

Light Distribution Curve [Unit:cd]





C0/C180:

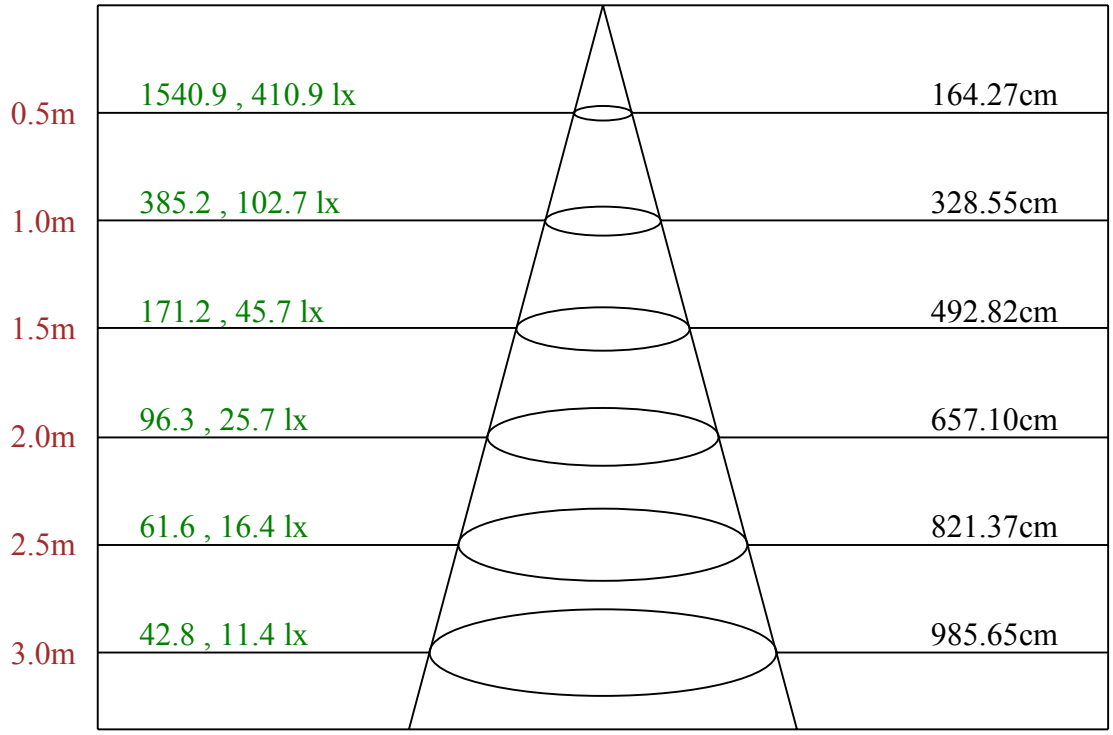
C90/C270:

Field angle(10%Imax):C0/180Left:81.6 Right:81.6
:C90/270Left:82.7 Right:82.7

Beam Angle(50%Imax):C0/180Left:58.1 Right:58.1
:C90/270Left:58.8 Right:58.8

Equipment: GMS2200	Date: 2018-8-1	Operator: Jack
Temperature(°C): 24.7	Humidity(%): 47.0%	Distance(m): 12.60

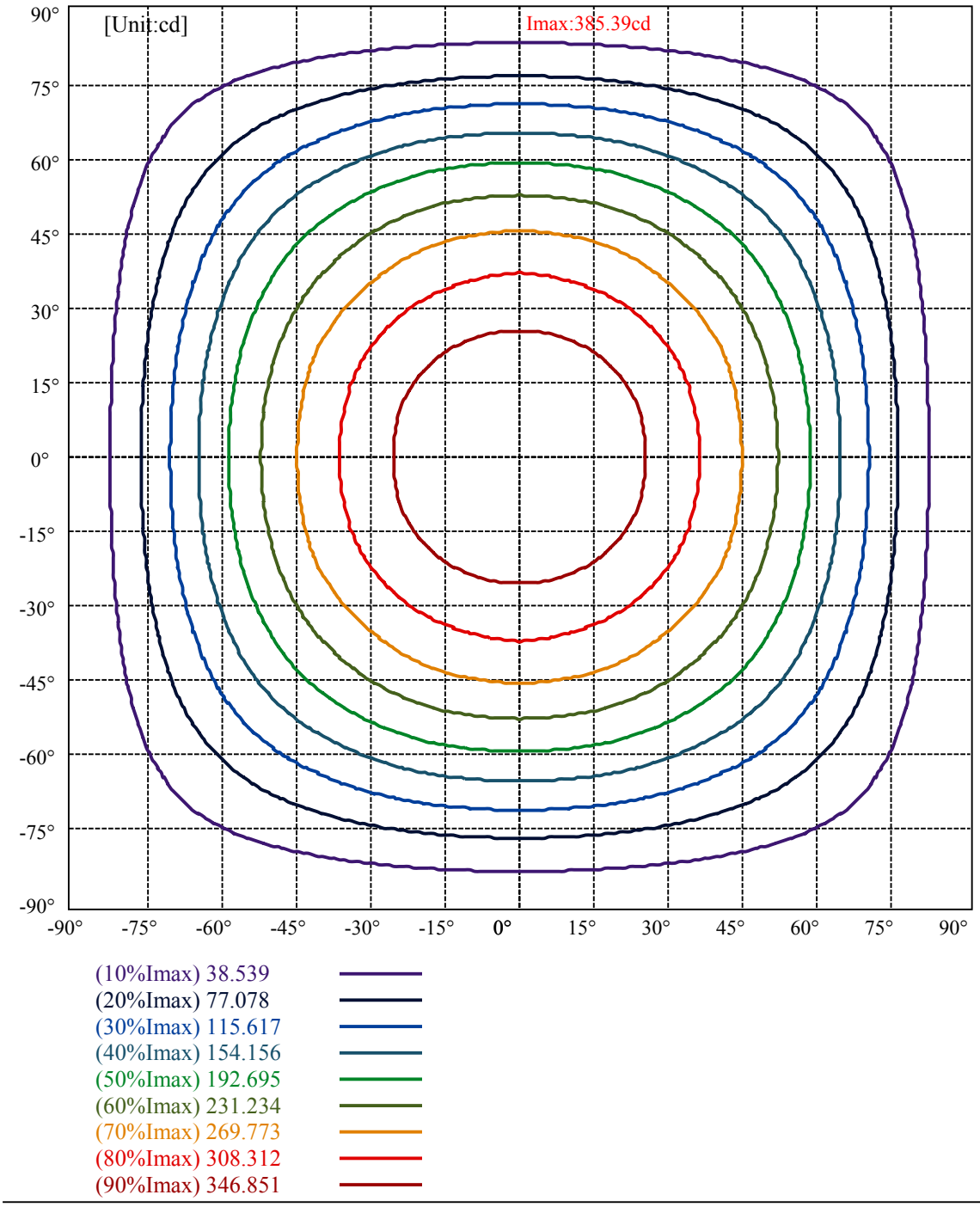
Lux distance Curve



Max , Ave

Beam angle of C90 plane 117.34

ISO-Intensity(V-H)

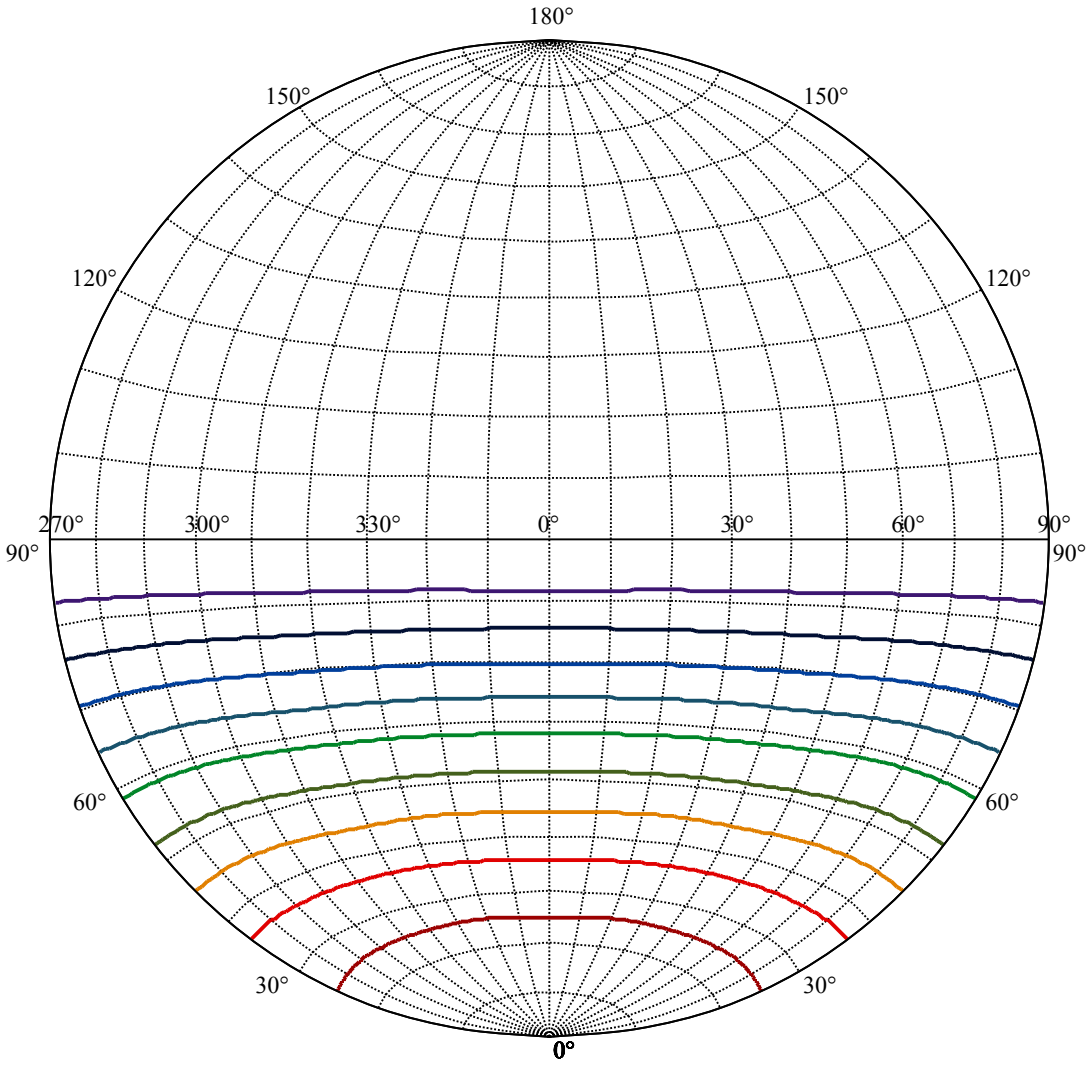


Equipment: GMS2200
Temperature(°C): 24.7

Date: 2018-8-1
Humidity(%): 47.0%

Operator: Jack
Distance(m): 12.60

ISO candela diagram on circular web



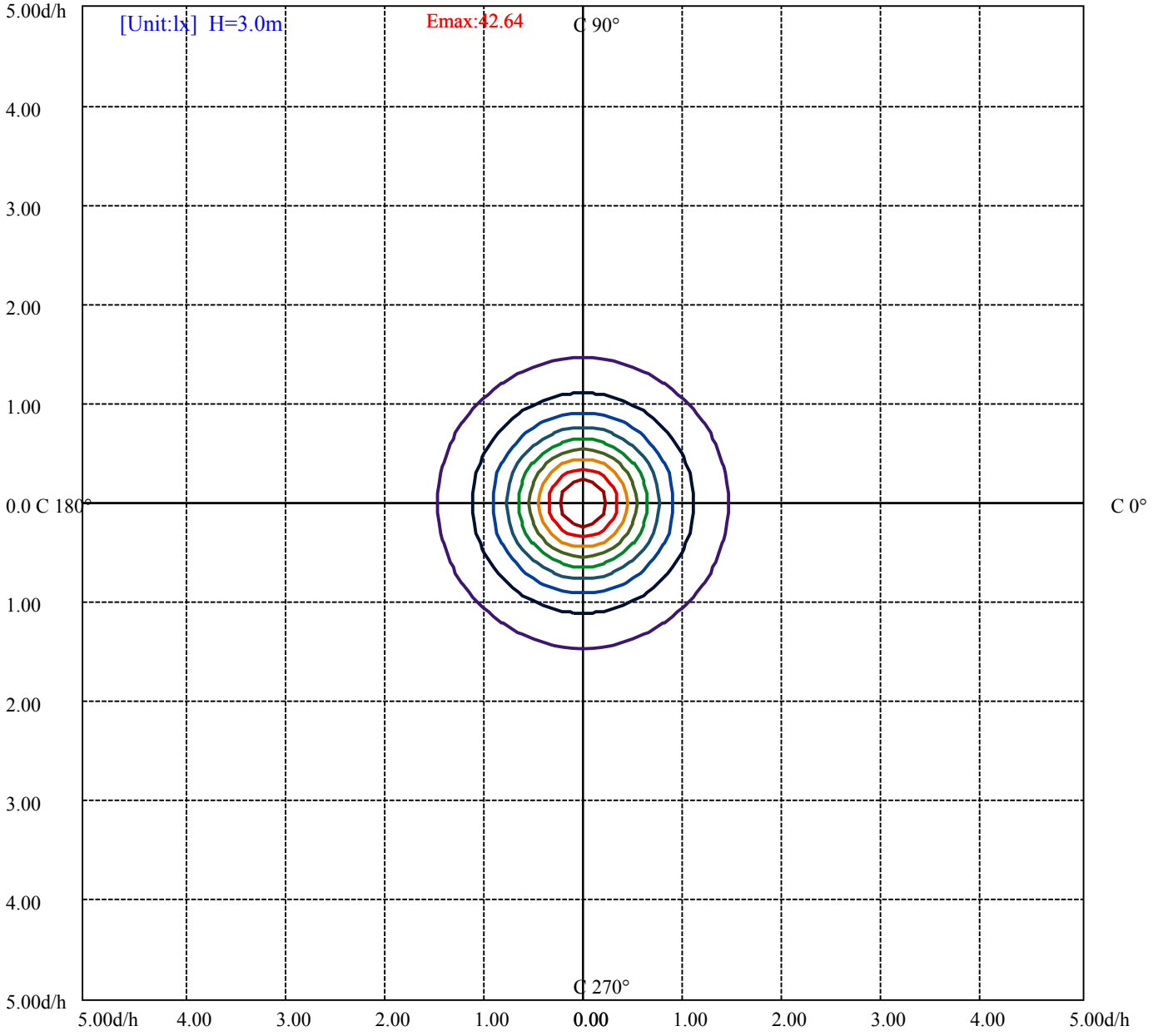
House [Unit:cd] Road

Imax:385.39

(10%Imax) 38.539
(20%Imax) 77.078
(30%Imax) 115.617
(40%Imax) 154.156
(50%Imax) 192.695
(60%Imax) 231.234
(70%Imax) 269.773
(80%Imax) 308.312
(90%Imax) 346.851

Equipment: GMS2200 Date: 2018-8-1 Operator: Jack
Temperature(°C): 24.7 Humidity(%): 47.0% Distance(m): 12.60

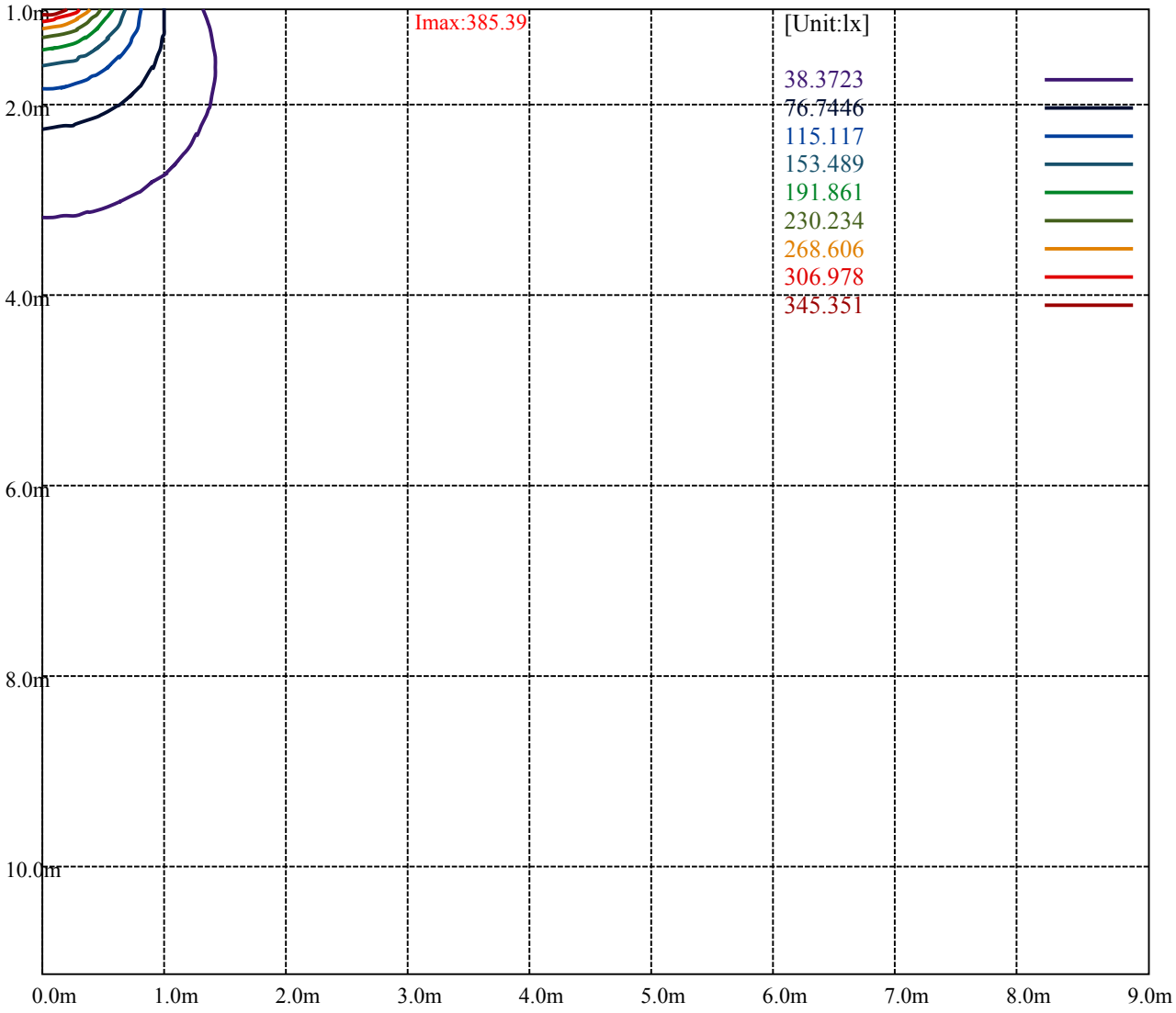
ISO illuminance diagram



(10%Emax) 4.263589
(20%Emax) 8.527166
(30%Emax) 12.79078
(40%Emax) 17.05433
(50%Emax) 21.31789
(60%Emax) 25.58155
(70%Emax) 29.84511
(80%Emax) 34.10867
(90%Emax) 38.37222

Equipment: GMS2200	Date: 2018-8-1	Operator: Jack
Temperature(°C): 24.7	Humidity(%): 47.0%	Distance(m): 12.60

Space ISO Lux diagram



Equipment: GMS2200
Temperature(°C): 24.7

Date: 2018-8-1
Humidity(%): 47.0%

Operator: Jack
Distance(m): 12.60

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Luminance Limitting Curve(no luminous side)

Luminance Table

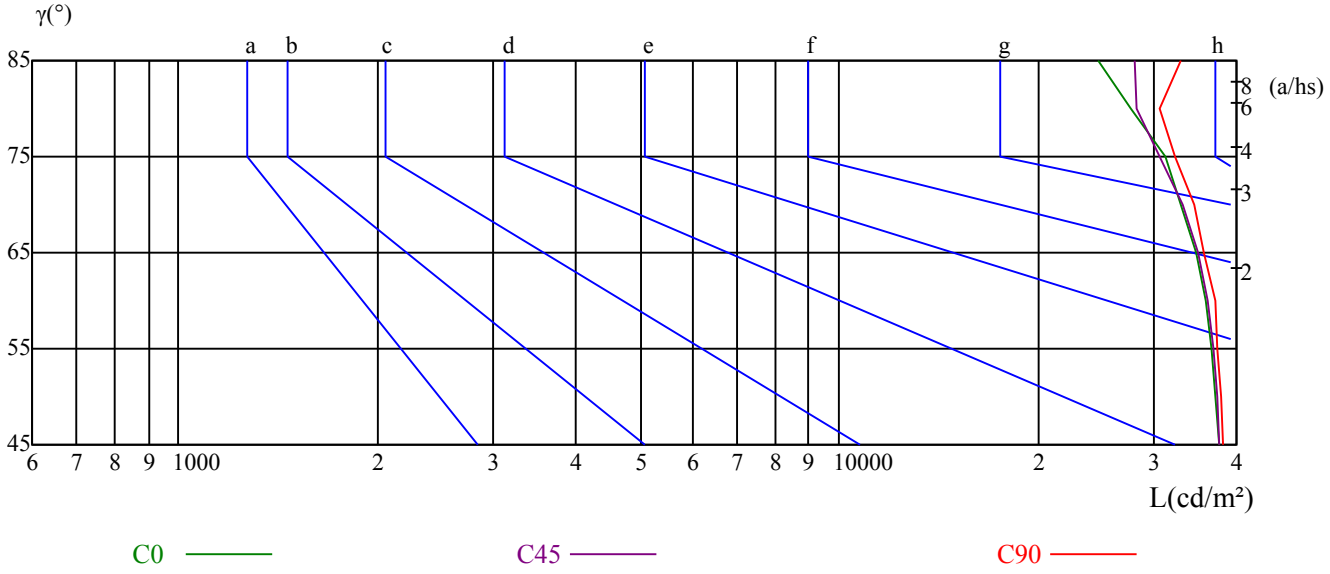
γ	45	50	55	60	65	70	75	80	85
C0	37614	37275	36651	35967	34803	33043	31256	27720	24710
C45	37733	37361	36892	36181	34909	33265	30604	28196	28075
C90	38201	37870	37457	37063	35772	34561	32372	30518	32888

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
34803	35772	34909	31256	32372	30604	24710	32888	28075

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 Limitting Curve



Equipment: GMS2200
Temperature(°C): 24.7

Date: 2018-8-1
Humidity(%): 47.0%

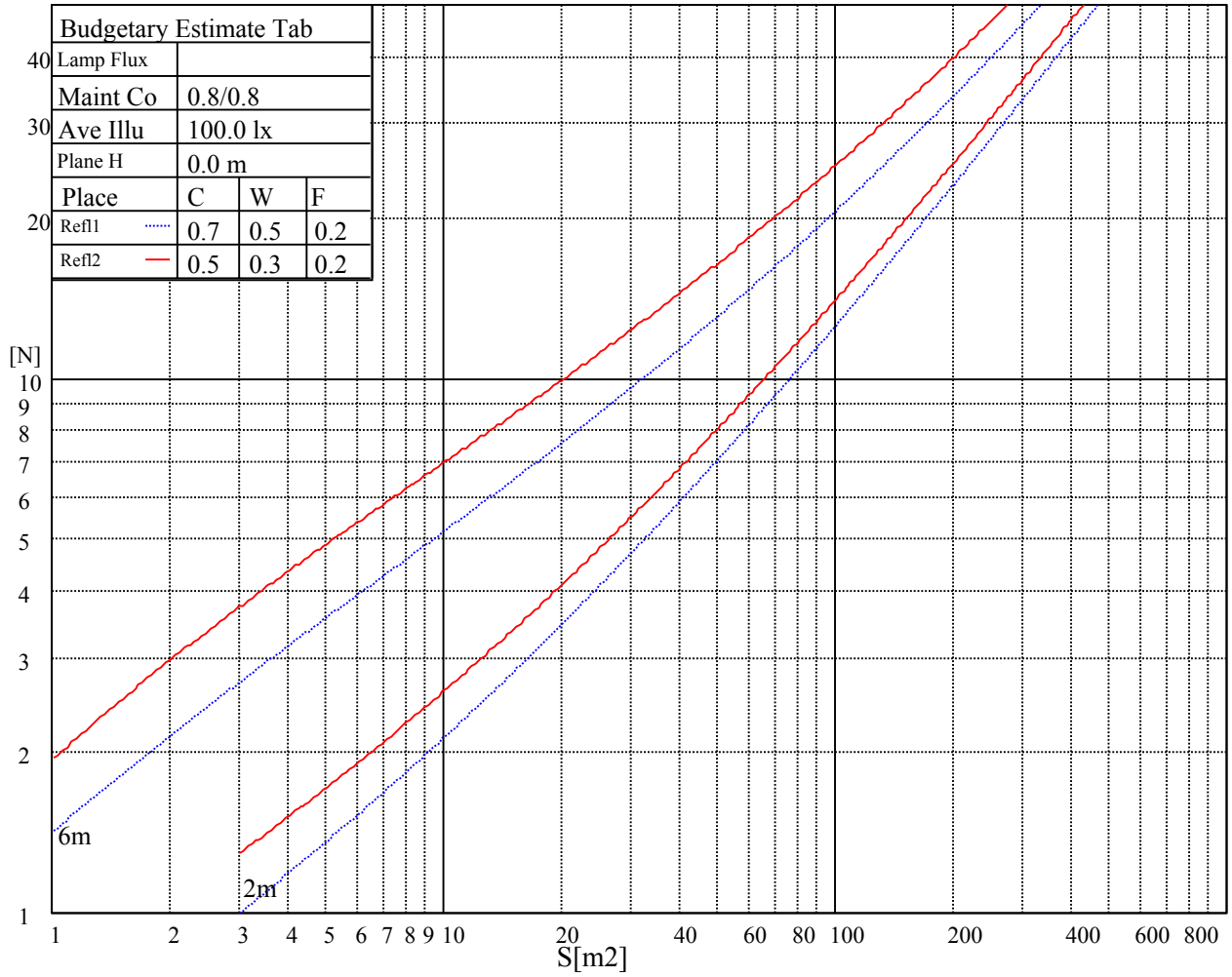
Operator: Jack
Distance(m): 12.60

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	24.69	26.36	25.05	26.67	26.98	24.23	25.89	24.59	26.21	26.52
	3H	26.47	27.98	26.85	28.32	28.66	25.77	27.28	26.15	27.62	27.96
	4H	27.14	28.57	27.53	28.91	29.27	26.30	27.73	26.70	28.08	28.44
	6H	27.69	29.02	28.09	29.38	29.77	26.67	27.99	27.07	28.36	28.75
	8H	27.85	29.14	28.26	29.51	29.91	26.74	28.03	27.15	28.40	28.80
	12H	27.98	29.21	28.39	29.59	30.00	26.79	28.02	27.20	28.40	28.81
4H	2H	25.32	26.75	25.71	27.10	27.46	24.96	26.39	25.35	26.73	27.09
	3H	27.20	28.42	27.61	28.80	29.21	26.63	27.85	27.04	28.23	28.64
	4H	28.00	29.09	28.43	29.50	29.93	27.31	28.39	27.74	28.81	29.24
	6H	28.60	29.57	29.06	30.01	30.45	27.72	28.69	28.18	29.13	29.57
	8H	28.84	29.75	29.31	30.19	30.65	27.86	28.77	28.33	29.21	29.67
	12H	29.04	29.88	29.51	30.32	30.82	27.96	28.81	28.44	29.25	29.74
8H	4H	28.18	29.09	28.65	29.53	29.99	27.55	28.46	28.02	28.90	29.36
	6H	28.86	29.63	29.35	30.09	30.58	28.06	28.83	28.55	29.29	29.79
	8H	29.20	29.87	29.71	30.38	30.86	28.31	28.98	28.82	29.48	29.97
	12H	29.46	30.03	29.98	30.53	31.04	28.46	29.03	28.98	29.53	30.04
12H	4H	28.19	29.04	28.66	29.47	29.97	27.57	28.42	28.05	28.86	29.35
	6H	28.93	29.61	29.44	30.11	30.59	28.16	28.83	28.66	29.33	29.82
	8H	29.26	29.83	29.77	30.33	30.84	28.38	28.95	28.90	29.46	29.96

Variation with the observer position at spacings:		
S = 1.0H	0.3/-0.6	0.3/-0.6
S = 1.5H	0.6/-0.6	0.6/-0.6
S = 2.0H	0.7/-0.7	0.7/-0.7
Standard tables:	BKBF	BK4
Uncorrected UGR	14.5	11.5

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

Budgetary Estimate Table



Utilization factor table for indoor luminaire

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.03	0.99	0.95	1.01	0.97	0.93	0.97	0.93	0.90	0.93	0.90	0.88	0.89	0.87	0.85	0.83
2	0.90	0.83	0.77	0.88	0.81	0.76	0.84	0.79	0.74	0.81	0.76	0.72	0.78	0.74	0.71	0.69
3	0.79	0.70	0.63	0.77	0.69	0.63	0.74	0.67	0.62	0.71	0.65	0.61	0.69	0.64	0.60	0.57
4	0.69	0.60	0.54	0.68	0.60	0.53	0.66	0.58	0.52	0.63	0.57	0.52	0.61	0.55	0.51	0.49
5	0.62	0.53	0.46	0.61	0.52	0.46	0.59	0.51	0.45	0.57	0.50	0.45	0.55	0.49	0.44	0.42
6	0.56	0.46	0.40	0.55	0.46	0.40	0.53	0.45	0.39	0.51	0.44	0.39	0.50	0.43	0.39	0.37
7	0.50	0.41	0.35	0.50	0.41	0.35	0.48	0.40	0.35	0.47	0.40	0.35	0.45	0.39	0.34	0.32
8	0.46	0.37	0.31	0.45	0.37	0.31	0.44	0.36	0.31	0.43	0.36	0.31	0.41	0.35	0.31	0.29
9	0.42	0.34	0.28	0.41	0.33	0.28	0.40	0.33	0.28	0.39	0.33	0.28	0.38	0.32	0.28	0.26
10	0.39	0.31	0.25	0.38	0.31	0.25	0.37	0.30	0.25	0.36	0.30	0.25	0.35	0.29	0.25	0.23

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	383.72	382.61	384.04	383.72	381.82	381.34	382.29	382.29	380.87
22.5	383.72	382.29	381.02	379.44	379.28	379.12	379.28	377.69	376.74
45.0	383.72	380.55	380.55	379.28	378.17	377.37	375.78	374.99	374.99
67.5	383.72	384.36	383.25	382.29	381.66	380.71	378.96	378.17	377.06
90.0	383.72	384.83	383.72	382.14	380.23	378.80	378.64	377.85	377.37
112.5	383.72	383.72	383.09	382.45	381.98	380.23	379.12	378.64	376.74
135.0	383.72	382.61	383.09	383.25	381.98	380.87	379.44	379.44	377.53
157.5	383.72	385.31	384.99	384.83	383.56	382.77	382.29	381.18	379.44
180.0	383.72	382.45	384.04	382.29	380.87	380.07	379.75	378.96	377.85
202.5	383.72	382.14	382.29	383.09	383.09	382.14	380.55	380.71	381.18
225.0	383.72	381.66	381.18	381.98	382.45	382.14	382.29	383.09	383.25
247.5	383.72	384.20	383.72	383.72	384.68	384.52	384.36	384.04	383.41
270.0	383.72	385.95	386.90	387.53	388.33	388.64	388.64	388.17	386.74
292.5	383.72	383.88	383.72	383.72	384.99	384.20	383.56	384.36	384.20
315.0	383.72	383.09	384.04	383.25	383.09	383.72	383.25	383.41	384.04
337.5	383.72	386.74	386.74	386.42	386.58	385.47	384.99	386.26	386.26
360.0	383.72	382.61	384.04	383.72	381.82	381.34	382.29	382.29	380.87

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	379.12	377.69	376.26	375.78	375.78	373.40	372.45	370.39	366.74
22.5	375.94	373.72	372.29	369.91	368.80	366.42	365.47	363.24	361.97
45.0	373.56	370.70	370.07	368.16	366.74	363.24	360.54	358.00	357.37
67.5	375.78	373.40	372.29	370.86	368.80	366.42	363.72	361.97	358.48
90.0	376.10	375.47	373.56	369.75	366.58	363.88	361.50	360.23	357.05
112.5	374.20	372.29	370.86	369.43	367.85	365.62	363.24	361.18	358.96
135.0	375.47	374.04	372.29	369.91	368.01	366.42	365.31	361.81	360.07
157.5	378.48	377.37	375.15	373.72	372.77	370.86	368.16	366.74	364.20
180.0	377.21	376.26	374.83	372.93	372.77	370.39	367.53	366.42	364.67
202.5	379.75	379.44	379.60	377.37	377.53	377.06	373.72	371.82	373.40
225.0	383.09	382.45	382.29	382.61	381.66	378.80	378.01	377.53	376.26
247.5	382.61	380.87	379.91	379.75	379.60	378.48	377.21	375.78	374.36
270.0	386.90	387.37	387.06	384.83	382.61	381.50	381.02	379.60	378.01
292.5	383.25	382.14	381.66	379.91	379.28	378.48	377.53	376.58	375.47
315.0	382.29	381.18	380.07	378.80	379.60	378.01	376.58	376.58	375.31
337.5	384.83	383.88	383.56	383.41	381.02	379.60	379.12	376.26	374.83
360.0	379.12	377.69	376.26	375.78	375.78	373.40	372.45	370.39	366.74

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	365.47	362.77	361.50	360.39	356.73	354.83	352.13	348.32	344.99
22.5	358.00	355.78	354.03	351.18	348.95	346.26	343.08	339.27	334.98
45.0	352.76	350.70	348.16	345.14	342.45	341.18	338.64	334.67	330.70
67.5	356.42	353.88	350.38	348.00	344.99	341.97	338.64	334.98	331.49
90.0	353.72	350.86	347.84	343.72	341.33	338.16	335.30	332.13	328.95
112.5	356.42	354.35	351.02	347.05	344.35	342.13	339.11	335.78	332.13
135.0	356.89	353.72	351.02	349.27	346.73	344.51	341.18	338.48	334.82
157.5	363.24	359.27	357.21	354.99	352.92	348.80	345.78	342.13	338.64
180.0	360.70	360.39	357.53	356.42	353.24	350.54	348.64	344.51	342.45
202.5	370.86	368.32	367.05	363.72	361.34	357.69	356.10	355.30	352.13
225.0	375.31	372.77	370.55	369.59	367.85	365.62	362.61	359.43	356.89
247.5	373.24	371.50	369.59	367.53	365.78	364.83	362.93	360.39	356.57
270.0	376.42	374.83	372.93	371.66	369.12	366.26	364.04	361.97	360.07
292.5	375.31	371.66	369.91	367.85	367.53	365.47	363.88	361.18	358.80
315.0	373.40	371.97	369.91	368.64	365.94	363.88	361.50	359.59	357.37
337.5	373.09	371.18	369.43	366.58	364.20	362.93	361.34	358.16	355.78
360.0	365.47	362.77	361.50	360.39	356.73	354.83	352.13	348.32	344.99

Intensity data(cd)

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	342.45	340.06	335.46	332.60	329.43	326.41	316.69	316.69	313.95
22.5	331.65	327.84	325.78	320.22	316.41	312.92	310.22	306.72	301.80
45.0	326.89	322.76	320.06	315.30	311.65	307.99	303.55	299.74	294.98
67.5	327.68	324.03	321.17	316.73	313.71	309.58	305.30	299.74	294.66
90.0	326.09	322.60	318.00	314.50	311.01	306.72	300.69	297.04	292.28
112.5	329.27	326.57	321.33	318.31	314.66	309.90	305.61	301.80	297.36
135.0	332.44	330.38	325.14	322.60	319.43	315.61	311.17	306.88	302.28
157.5	336.09	332.44	329.90	326.73	322.12	319.27	315.77	311.33	304.66
180.0	338.64	337.21	332.76	329.43	325.30	322.12	317.68	313.55	309.42
202.5	349.75	347.05	342.60	342.29	338.00	335.30	331.81	327.68	325.14
225.0	354.67	348.48	347.84	344.67	342.60	339.91	335.46	331.65	328.00
247.5	355.78	353.56	350.54	346.57	343.87	340.70	336.57	333.40	329.90
270.0	359.27	357.21	353.88	350.22	346.57	344.03	341.97	339.11	335.30
292.5	355.30	351.81	350.07	347.05	343.72	339.91	336.41	332.44	329.59
315.0	353.24	350.86	348.16	345.94	341.81	339.43	335.14	331.81	328.32
337.5	352.45	349.59	347.05	344.19	337.52	335.46	334.03	328.79	324.66
360.0	342.45	340.06	335.46	332.60	329.43	326.41	316.69	316.69	313.95

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	310.01	304.61	300.93	297.07	292.50	287.42	283.04	279.35	272.89
22.5	298.47	294.18	289.90	284.50	279.89	276.40	269.10	264.02	260.53
45.0	291.32	287.04	281.80	278.15	273.23	270.21	263.70	258.46	254.02
67.5	290.53	286.40	281.80	277.04	272.27	267.99	262.59	257.67	252.27
90.0	288.47	284.34	281.16	276.40	271.32	265.61	261.00	256.40	252.43
112.5	292.12	287.36	282.75	278.15	272.91	268.15	263.86	258.94	252.59
135.0	298.31	293.55	288.78	283.86	278.15	273.38	268.15	263.07	257.03
157.5	302.91	297.68	293.07	289.26	285.77	281.64	277.51	272.91	266.24
180.0	305.61	302.12	297.36	292.75	288.78	284.18	278.78	274.50	269.42
202.5	317.00	317.00	311.47	306.42	302.41	298.37	294.66	288.56	285.61
225.0	325.14	316.87	316.31	312.00	305.87	301.83	297.53	293.17	288.31
247.5	327.05	323.55	316.92	314.71	310.79	306.20	302.26	297.50	292.61
270.0	332.76	330.70	326.25	316.73	315.46	312.68	308.09	302.47	297.26
292.5	326.25	324.19	316.52	313.31	309.41	312.93	309.03	305.17	299.41
315.0	324.03	316.81	314.00	309.11	305.63	300.79	295.69	291.63	287.40
337.5	316.71	315.28	312.44	307.28	304.22	297.80	294.39	288.34	283.21
360.0	310.01	304.61	300.93	297.07	292.50	287.42	283.04	279.35	272.89

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	267.92	263.78	259.11	253.05	248.14	243.44	237.35	232.00	226.23
22.5	254.81	249.73	243.38	238.78	233.54	227.34	220.99	215.60	209.72
45.0	248.78	243.22	237.35	232.58	227.50	220.36	216.23	210.67	205.28
67.5	247.35	240.52	235.44	231.31	226.23	217.98	212.26	207.50	203.53
90.0	247.19	241.79	236.23	230.52	223.53	218.14	212.42	206.39	199.88
112.5	247.67	242.27	237.35	231.47	226.07	220.84	215.44	208.93	203.37
135.0	252.27	247.35	242.59	236.23	231.00	226.55	220.52	212.90	207.18
157.5	261.64	255.44	250.05	242.90	236.87	231.63	225.60	219.88	214.64
180.0	264.02	257.67	253.06	247.67	242.74	235.76	230.68	225.28	219.57
202.5	279.34	275.97	269.76	264.99	259.37	253.67	247.43	241.59	236.52
225.0	283.56	278.78	274.15	268.23	263.24	257.95	251.48	246.35	241.28
247.5	287.07	282.10	276.50	270.73	266.73	262.22	256.95	251.06	245.36
270.0	293.06	288.36	284.31	280.21	275.58	268.72	263.43	258.13	252.14
292.5	295.15	290.66	284.86	280.16	275.45	270.72	265.21	260.02	254.78
315.0	282.64	277.40	272.56	267.64	262.70	255.75	250.62	246.06	239.17
337.5	278.16	272.11	267.08	261.72	256.54	251.49	246.47	239.03	235.96
360.0	267.92	263.78	259.11	253.05	248.14	243.44	237.35	232.00	226.23

Intensity data(cd)

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	221.25	213.58	208.26	203.63	197.64	189.53	183.45	177.33	171.67
22.5	202.10	197.81	192.58	185.91	177.97	171.78	166.06	159.40	158.44
45.0	197.81	192.26	186.38	180.67	174.32	167.97	161.62	155.74	149.23
67.5	195.75	190.04	184.16	177.65	171.46	163.84	157.97	151.30	145.42
90.0	194.32	188.61	182.89	176.22	170.51	164.95	159.24	150.98	147.81
112.5	197.81	192.10	184.64	178.76	172.73	171.78	160.19	153.84	147.33
135.0	202.10	196.54	190.19	184.00	177.81	170.98	164.95	158.60	152.89
157.5	208.13	202.10	196.54	190.83	184.48	177.33	171.30	165.59	159.71
180.0	213.06	206.86	200.83	193.53	187.34	181.46	176.22	168.13	164.63
202.5	231.50	225.23	219.49	213.94	205.80	200.26	193.61	187.10	180.40
225.0	235.43	229.25	223.31	217.55	211.72	205.17	199.21	192.53	184.27
247.5	238.76	231.22	225.38	220.25	214.96	207.94	201.69	195.85	189.04
270.0	246.84	241.08	235.08	228.01	222.25	216.80	211.39	203.80	197.59
292.5	249.84	242.84	237.68	231.88	226.23	219.61	213.60	207.61	200.42
315.0	234.00	228.36	222.47	215.42	209.63	204.02	197.85	190.64	184.19
337.5	228.93	224.82	218.34	210.60	204.77	198.82	192.81	185.65	179.54
360.0	221.25	213.58	208.26	203.63	197.64	189.53	183.45	177.33	171.67

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	164.65	158.70	152.55	146.44	139.14	132.72	126.10	117.75	111.13
22.5	146.69	140.19	133.83	129.23	119.86	113.83	107.64	99.38	92.87
45.0	142.88	136.06	129.39	127.33	114.78	108.27	101.13	94.94	89.06
67.5	139.39	133.04	124.31	118.28	112.88	106.21	97.95	91.92	86.52
90.0	139.23	133.20	125.42	122.40	113.04	106.69	99.54	93.51	87.32
112.5	140.98	134.15	127.96	121.77	115.74	107.64	101.29	96.05	89.54
135.0	144.47	138.12	131.61	130.50	118.43	111.93	105.26	99.38	91.76
157.5	151.93	145.74	139.07	132.72	124.79	117.96	111.61	104.78	96.53
180.0	155.58	149.23	141.61	135.26	128.91	122.40	113.67	108.27	101.77
202.5	174.54	168.35	160.09	153.77	146.90	140.41	131.83	125.23	118.70
225.0	177.92	171.92	165.67	158.12	151.44	144.69	138.01	130.29	124.21
247.5	181.62	174.76	168.71	162.08	153.82	146.96	140.11	132.17	125.06
270.0	191.13	183.46	176.94	170.44	163.94	156.28	149.62	142.90	136.14
292.5	194.72	188.67	182.65	174.19	167.90	161.78	153.84	147.31	140.66
315.0	178.29	169.62	163.46	157.17	150.79	143.30	136.68	130.47	123.66
337.5	173.14	167.49	160.30	152.98	146.93	140.28	131.25	125.44	119.02
360.0	164.65	158.70	152.55	146.44	139.14	132.72	126.10	117.75	111.13

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	104.67	94.08	90.95	84.60	78.27	71.00	64.93	59.03	53.06
22.5	86.52	82.40	72.54	66.65	60.50	54.85	48.63	43.15	38.13
45.0	82.56	82.56	68.57	62.57	56.69	49.61	44.28	40.18	35.39
67.5	82.40	72.65	67.09	61.54	55.84	49.31	44.20	39.34	34.64
90.0	82.40	77.22	67.93	62.27	54.92	49.58	44.44	39.52	34.10
112.5	82.56	82.56	69.14	63.36	56.82	51.33	46.15	40.47	35.77
135.0	85.57	83.35	72.55	66.06	60.27	54.65	49.29	42.42	37.51
157.5	91.13	85.10	83.03	69.51	63.50	57.77	52.04	45.68	40.48
180.0	95.26	92.08	82.71	77.19	67.33	60.31	54.39	48.69	43.21
202.5	111.80	104.15	97.59	90.97	84.65	76.98	70.51	64.25	56.31
225.0	114.28	107.91	101.23	94.57	88.92	80.17	73.87	67.54	61.36
247.5	119.50	112.50	104.48	97.76	91.62	83.24	76.00	70.78	64.89
270.0	126.98	120.07	112.07	105.31	98.62	92.05	85.57	78.16	71.89
292.5	134.17	126.33	119.83	106.58	97.57	92.18	85.87	77.32	71.08
315.0	115.59	109.32	102.62	93.64	87.22	81.21	74.90	67.70	61.58
337.5	111.27	104.72	97.83	91.22	83.75	77.46	71.20	63.28	57.58
360.0	104.67	94.08	90.95	84.60	78.27	71.00	64.93	59.03	53.06

Intensity data(cd)

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	45.69	40.36	35.48	30.04	25.45	21.42	17.67	13.70	10.57
22.5	33.21	28.02	23.85	20.04	15.54	12.72	10.26	8.30	6.53
45.0	29.23	24.99	21.32	17.65	14.29	11.64	9.38	7.72	6.29
67.5	28.45	24.35	20.64	16.83	13.96	11.64	9.73	7.94	6.78
90.0	29.74	25.67	21.92	18.02	15.10	12.61	9.91	8.38	7.16
112.5	31.34	27.32	22.35	19.04	16.03	13.48	10.94	9.14	7.73
135.0	32.97	28.74	24.18	20.54	17.37	14.54	11.80	9.75	8.11
157.5	35.53	30.37	26.23	22.31	18.75	14.64	12.05	9.78	8.05
180.0	37.12	32.16	27.53	23.27	17.62	13.83	10.10	6.08	3.32
202.5	50.55	45.72	38.55	33.94	29.37	24.78	20.24	16.83	13.65
225.0	54.61	48.72	43.09	36.31	31.67	27.88	22.19	18.40	15.21
247.5	57.09	51.22	45.77	39.32	34.64	30.16	25.80	20.50	17.40
270.0	65.74	57.84	52.14	47.53	42.23	35.61	31.04	26.74	22.05
292.5	65.04	58.85	52.20	46.85	41.56	34.88	29.59	26.85	22.89
315.0	55.72	49.53	44.33	39.32	34.55	28.59	34.07	28.86	24.85
337.5	51.76	46.07	39.93	35.01	30.45	25.51	21.62	18.32	15.19
360.0	45.69	40.36	35.48	30.04	25.45	21.42	17.67	13.70	10.57

C/γ(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Intensity data(cd)

C/γ(°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Intensity data(cd)

C/γ(°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Intensity data(cd)

C/γ(°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	180.0
0.0	0.00
22.5	0.00
45.0	0.00
67.5	0.00
90.0	0.00
112.5	0.00
135.0	0.00
157.5	0.00
180.0	0.00
202.5	0.00
225.0	0.00
247.5	0.00
270.0	0.00
292.5	0.00
315.0	0.00
337.5	0.00
360.0	0.00