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Nata

LumCAT: 1-0926-M	
Luminaire: 92.70.124.00	
Report No: NATA0100	Voltage(V): 34.5700
Test No: GC20190924010	Current(A): 0.2470
LampCAT: TRIDONIC SLE G7 9MM	Power (W): 8.5400
Lamp flux(lm): 1288.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 976.66
Efficiency(%): 75.83%
Lumens(lm)/Power(W): 114.36
Central intensity(cd): 8577.141
Maximum intensity(cd): 8577.141
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=15.4
[C90/270]Total=15.4
Field angle(10%Imax): [C0/180]Total=36.2
[C90/270]Total=36.2
Maximum s/h(1/2): C0_180=0.26 C90_270=0.26
Maximum s/h(1/4): C0_180=0.30 C90_270=0.30
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 75.83%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.551%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8577.141	0.000	0	.000%	.000%
1.0	8437.008	8.141	8.141	.632%	.834%
2.0	7934.906	23.499	31.639	1.824%	3.240%
3.0	7359.398	36.579	68.218	2.840%	6.985%
4.0	6775.664	47.315	115.533	3.673%	11.829%
5.0	6084.281	55.323	170.856	4.295%	17.494%
6.0	5399.297	60.349	231.205	4.686%	23.673%
7.0	4759.242	63.054	294.259	4.895%	30.129%
8.0	4075.664	63.230	357.489	4.909%	36.603%
9.0	3545.016	61.761	419.25	4.795%	42.927%
10.0	3095.227	60.092	479.342	4.666%	49.080%
11.0	2660.414	57.511	536.853	4.465%	54.968%
12.0	2325.023	54.498	591.351	4.231%	60.548%
13.0	1993.922	51.255	642.606	3.979%	65.796%
14.0	1691.227	47.170	689.775	3.662%	70.626%
15.0	1471.852	43.424	733.199	3.371%	75.072%
16.0	1213.629	39.350	772.549	3.055%	79.101%
17.0	1044.984	35.173	807.722	2.731%	82.702%
18.0	873.851	31.637	839.359	2.456%	85.941%
19.0	724.184	27.803	867.162	2.159%	88.788%
20.0	559.596	23.497	890.658	1.824%	91.194%
21.0	416.946	18.752	909.41	1.456%	93.114%
22.0	297.570	14.358	923.769	1.115%	94.584%
23.0	229.366	11.057	934.825	.858%	95.716%
24.0	98.227	7.162	941.987	.556%	96.450%
25.0	45.471	3.267	945.255	.254%	96.784%
26.0	21.916	1.591	946.846	.124%	96.947%
27.0	14.885	0.900	947.746	.070%	97.039%
28.0	12.192	0.686	948.431	.053%	97.109%
29.0	10.849	0.603	949.034	.047%	97.171%
30.0	9.788	0.557	949.591	.043%	97.228%
31.0	8.979	0.522	950.114	.041%	97.282%
32.0	8.276	0.494	950.608	.038%	97.332%
33.0	7.763	0.472	951.08	.037%	97.381%
34.0	7.334	0.457	951.537	.035%	97.427%
35.0	6.912	0.442	951.98	.034%	97.473%
36.0	6.616	0.431	952.41	.033%	97.517%
37.0	6.363	0.423	952.834	.033%	97.560%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	6.159	0.418	953.252	.032%	97.603%
39.0	5.941	0.413	953.665	.032%	97.645%
40.0	5.808	0.410	954.075	.032%	97.687%
41.0	5.674	0.409	954.483	.032%	97.729%
42.0	5.555	0.408	954.891	.032%	97.771%
43.0	5.456	0.408	955.299	.032%	97.813%
44.0	5.372	0.409	955.708	.032%	97.854%
45.0	5.288	0.410	956.118	.032%	97.896%
46.0	5.210	0.411	956.528	.032%	97.938%
47.0	5.140	0.412	956.94	.032%	97.980%
48.0	5.091	0.414	957.353	.032%	98.023%
49.0	5.041	0.416	957.769	.032%	98.065%
50.0	4.999	0.419	958.188	.033%	98.108%
51.0	4.957	0.421	958.609	.033%	98.151%
52.0	4.922	0.424	959.033	.033%	98.195%
53.0	4.873	0.426	959.459	.033%	98.238%
54.0	4.845	0.428	959.888	.033%	98.282%
55.0	4.830	0.432	960.319	.034%	98.327%
56.0	4.795	0.435	960.754	.034%	98.371%
57.0	4.753	0.437	961.191	.034%	98.416%
58.0	4.746	0.439	961.63	.034%	98.461%
59.0	4.704	0.442	962.072	.034%	98.506%
60.0	4.690	0.444	962.516	.034%	98.551%
61.0	4.662	0.446	962.962	.035%	98.597%
62.0	4.634	0.448	963.41	.035%	98.643%
63.0	4.634	0.451	963.861	.035%	98.689%
64.0	4.591	0.453	964.313	.035%	98.735%
65.0	4.605	0.455	964.769	.035%	98.782%
66.0	4.577	0.458	965.227	.036%	98.829%
67.0	4.570	0.460	965.687	.036%	98.876%
68.0	4.542	0.462	966.148	.036%	98.923%
69.0	4.542	0.463	966.612	.036%	98.971%
70.0	4.528	0.466	967.078	.036%	99.018%
71.0	4.535	0.468	967.546	.036%	99.066%
72.0	4.507	0.470	968.016	.037%	99.115%
73.0	4.486	0.470	968.486	.037%	99.163%
74.0	4.486	0.472	968.958	.037%	99.211%
75.0	4.486	0.474	969.432	.037%	99.260%

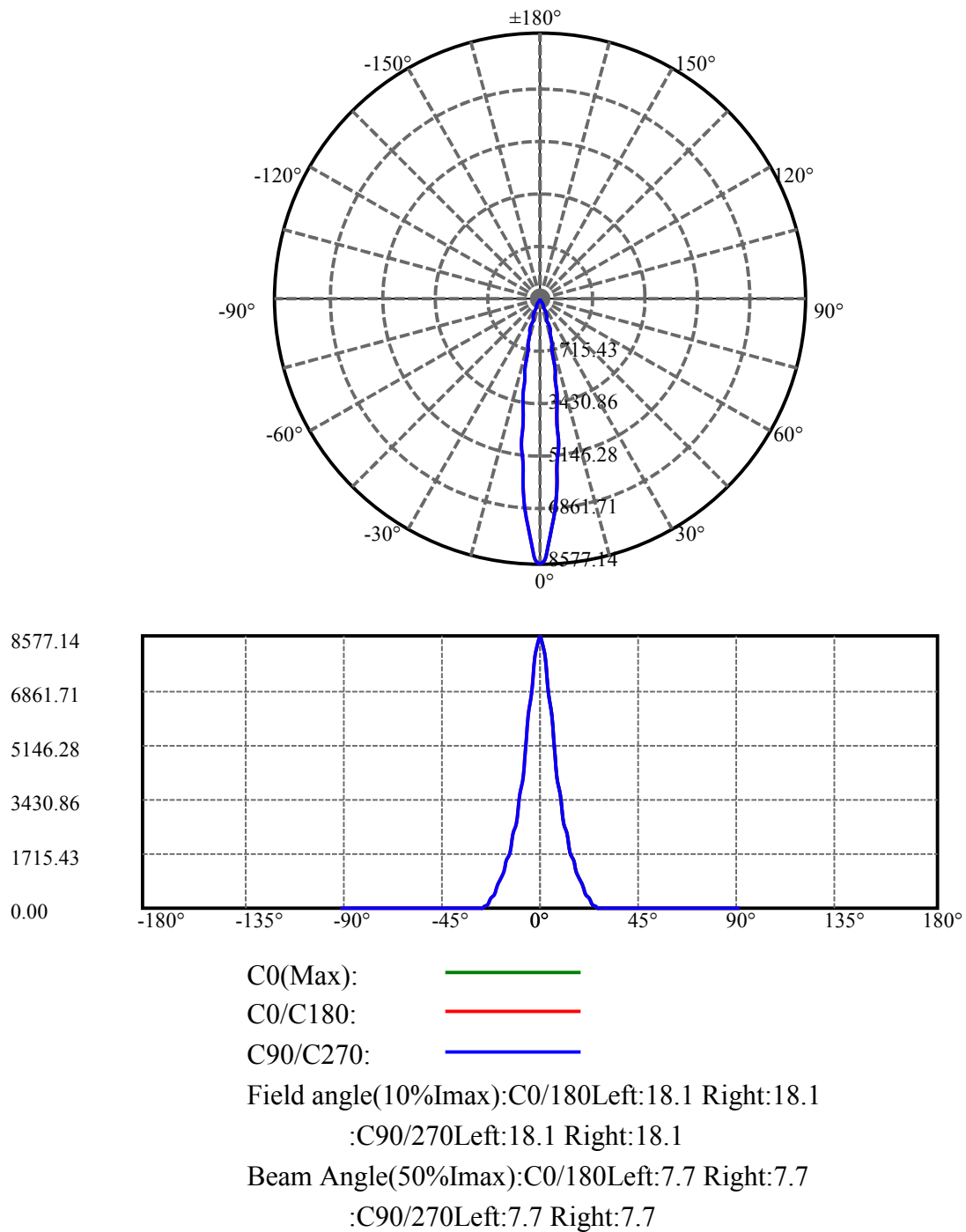
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.479	0.476	969.908	.037%	99.308%
77.0	4.472	0.477	970.385	.037%	99.357%
78.0	4.479	0.479	970.864	.037%	99.406%
79.0	4.458	0.480	971.345	.037%	99.455%
80.0	4.458	0.481	971.825	.037%	99.505%
81.0	4.444	0.481	972.307	.037%	99.554%
82.0	4.458	0.483	972.789	.037%	99.603%
83.0	4.472	0.485	973.275	.038%	99.653%
84.0	4.465	0.487	973.762	.038%	99.703%
85.0	4.458	0.487	974.249	.038%	99.753%
86.0	4.423	0.485	974.734	.038%	99.802%
87.0	4.402	0.483	975.217	.037%	99.852%
88.0	4.395	0.482	975.699	.037%	99.901%
89.0	4.402	0.482	976.181	.037%	99.951%
90.0	4.402	0.483	976.664	.037%	100.000%

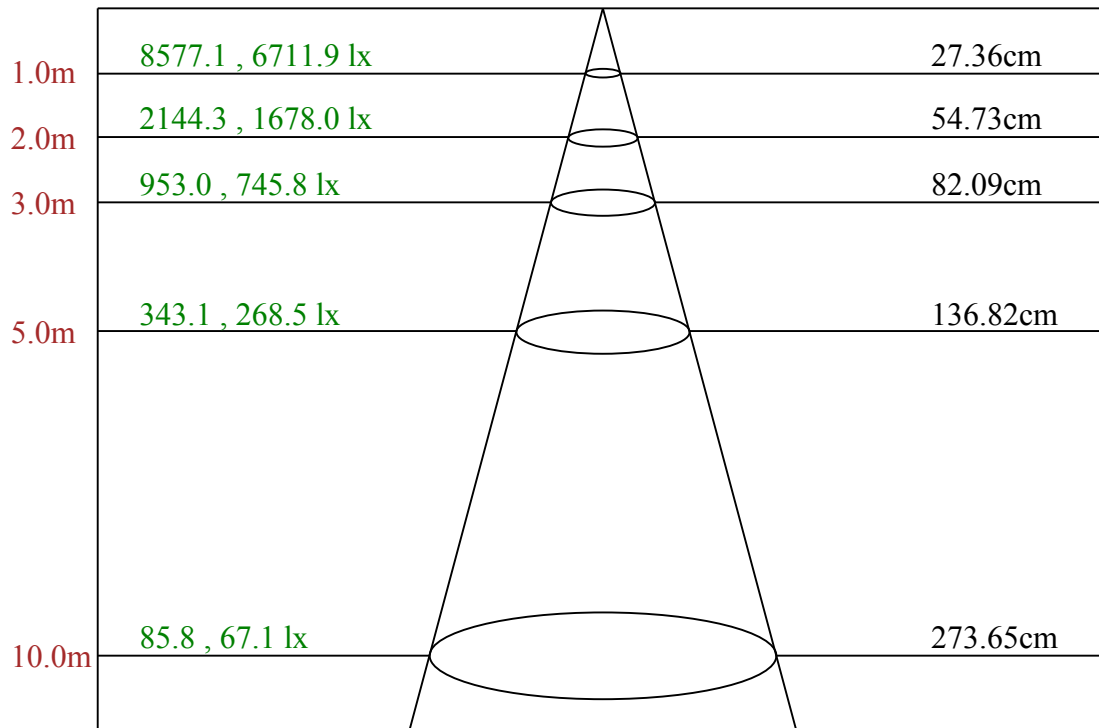
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	949.59	73.73%	97.23%
0-40	954.07	74.07%	97.69%
0-60	962.52	74.73%	98.55%
0-90	976.18	75.79%	99.95%
0-120	976.18	75.79%	99.95%
0-180	976.66	75.83%	100.00%
60-90	14.11	1.10%	1.44%
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%
0-16.25	781.33	60.66%	80.00%

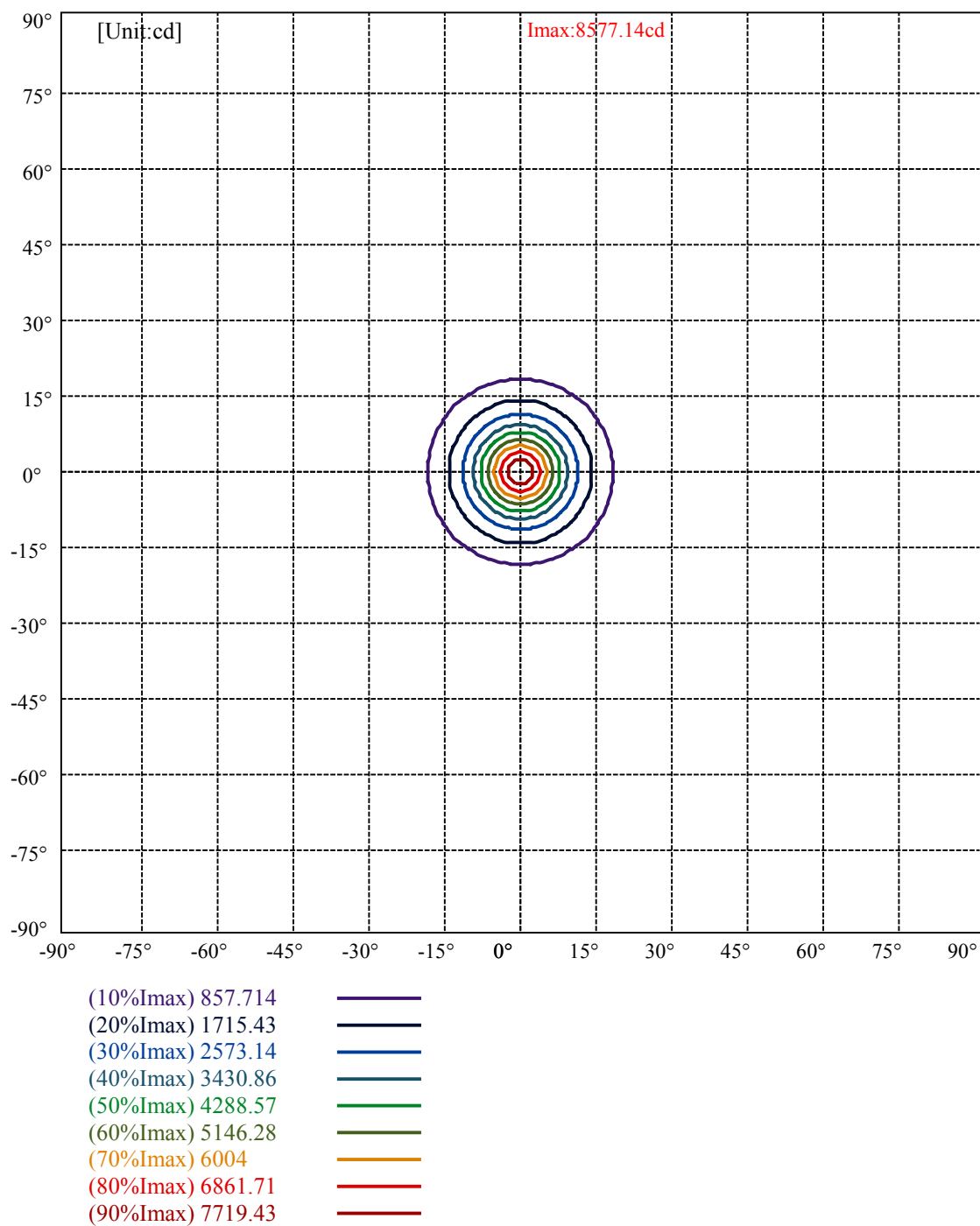
ZONAL LUMEN SUMMARY

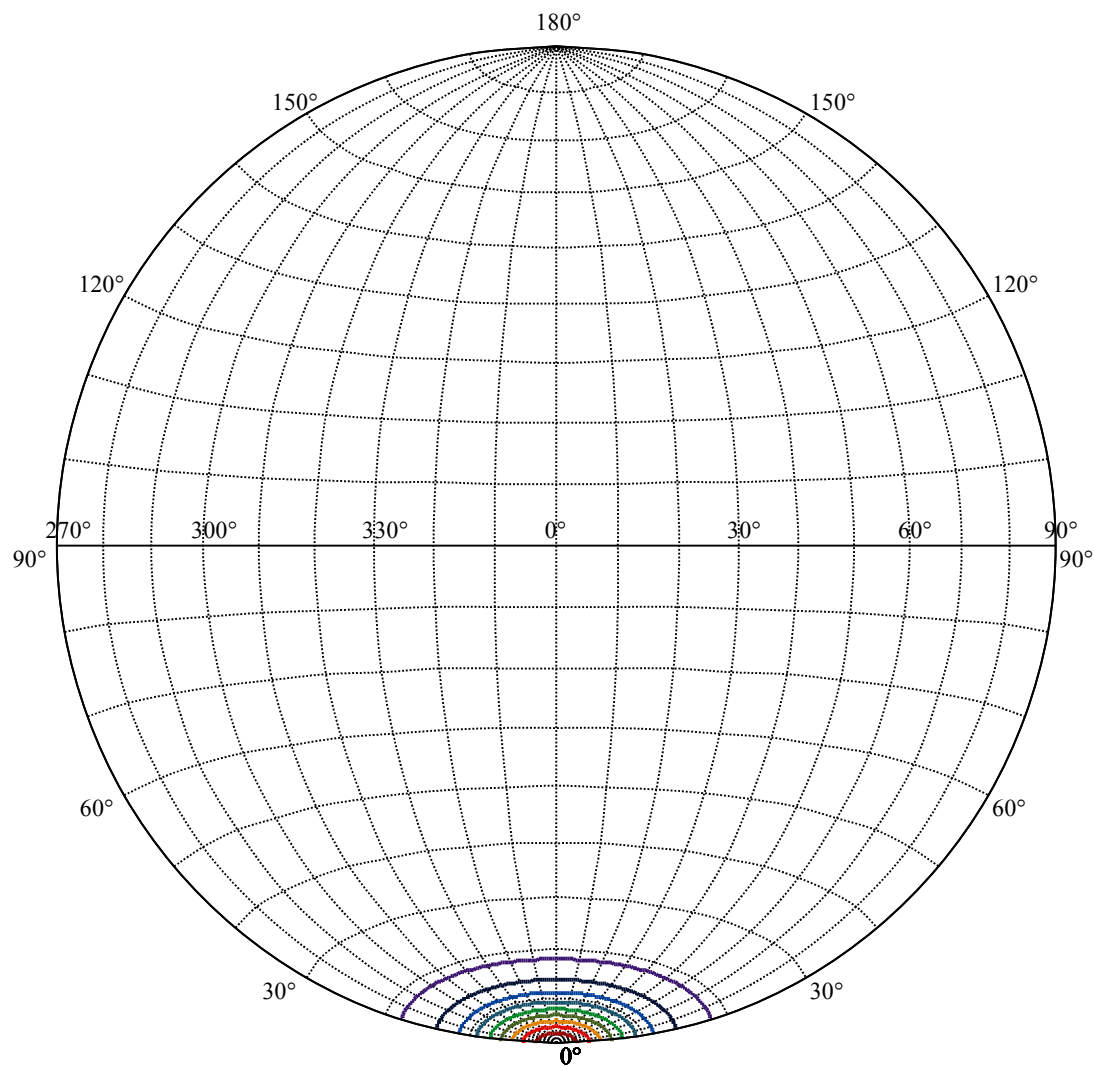
0-10	479.34
10-20	411.32
20-30	58.93
30-40	4.48
40-50	4.11
50-60	4.33
60-70	4.56
70-80	4.75
80-90	4.36
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C0 plane 15.58



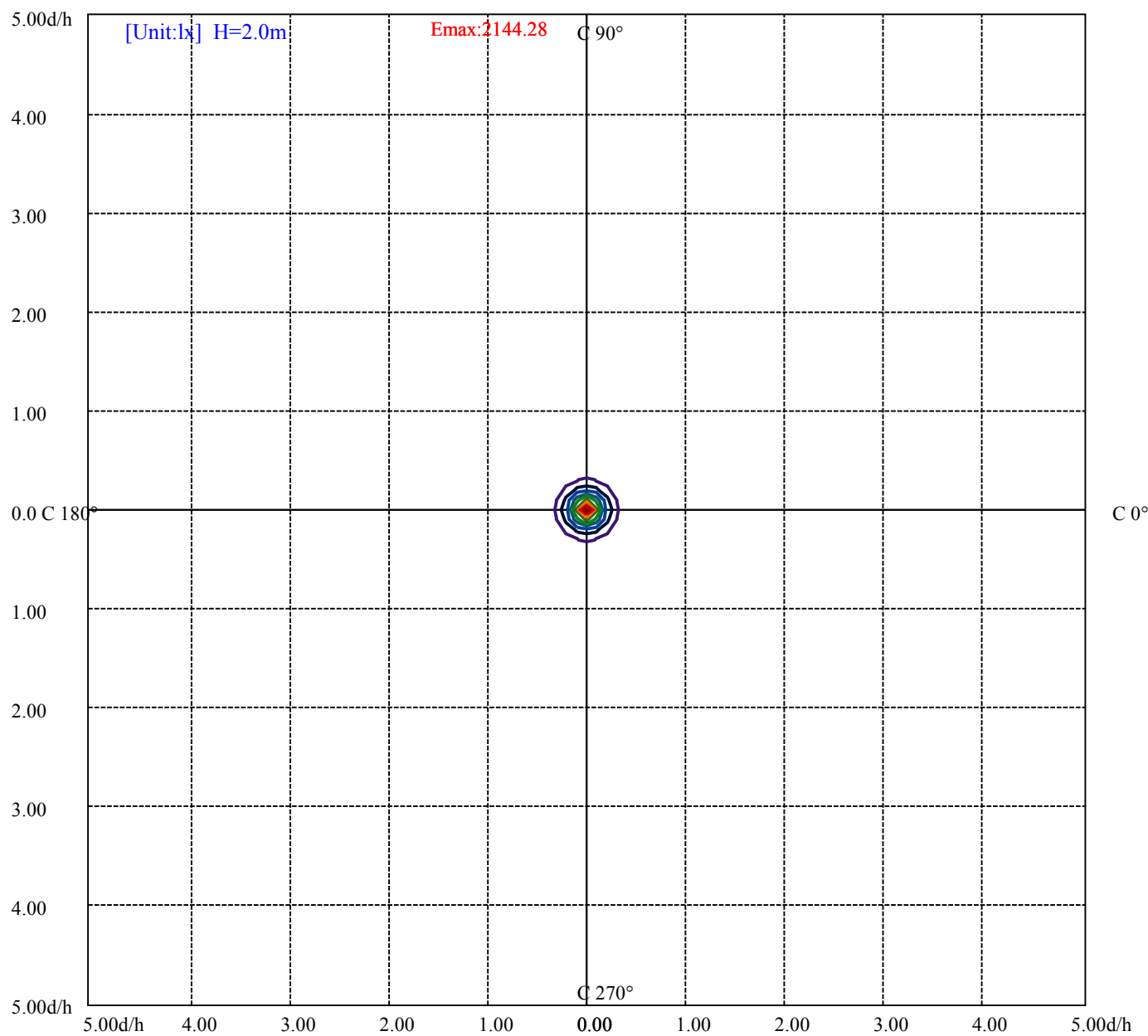


House

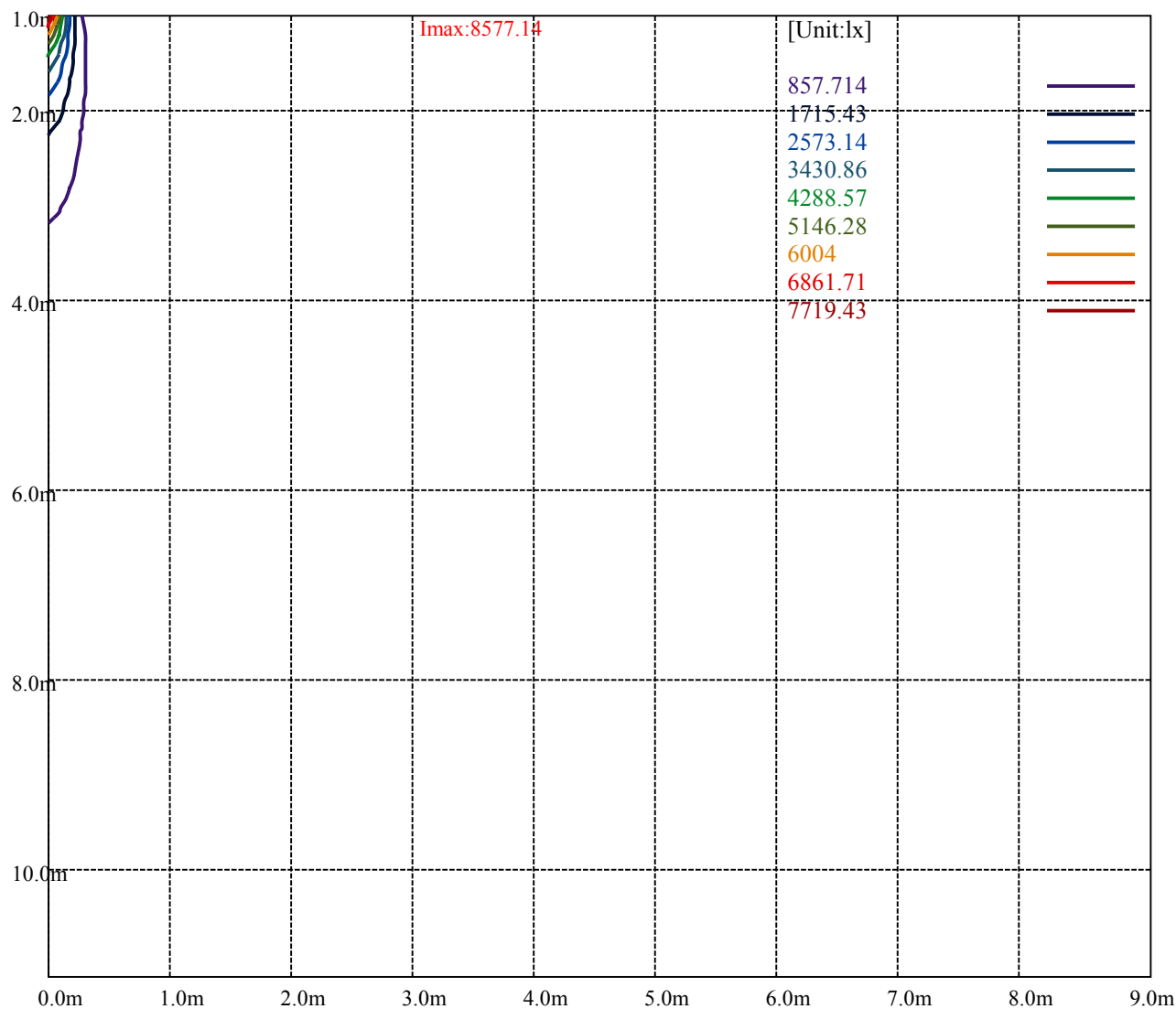
[Unit:cd]

Road

Imax:8577.14	
(10%Imax) 857.714	
(20%Imax) 1715.43	
(30%Imax) 2573.14	
(40%Imax) 3430.86	
(50%Imax) 4288.57	
(60%Imax) 5146.28	
(70%Imax) 6004	
(80%Imax) 6861.71	
(90%Imax) 7719.43	



(10%Emax)	214.428	
(20%Emax)	428.855	
(30%Emax)	643.285	
(40%Emax)	857.7125	
(50%Emax)	1072.14	
(60%Emax)	1286.568	
(70%Emax)	1500.995	
(80%Emax)	1715.425	
(90%Emax)	1929.853	



Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

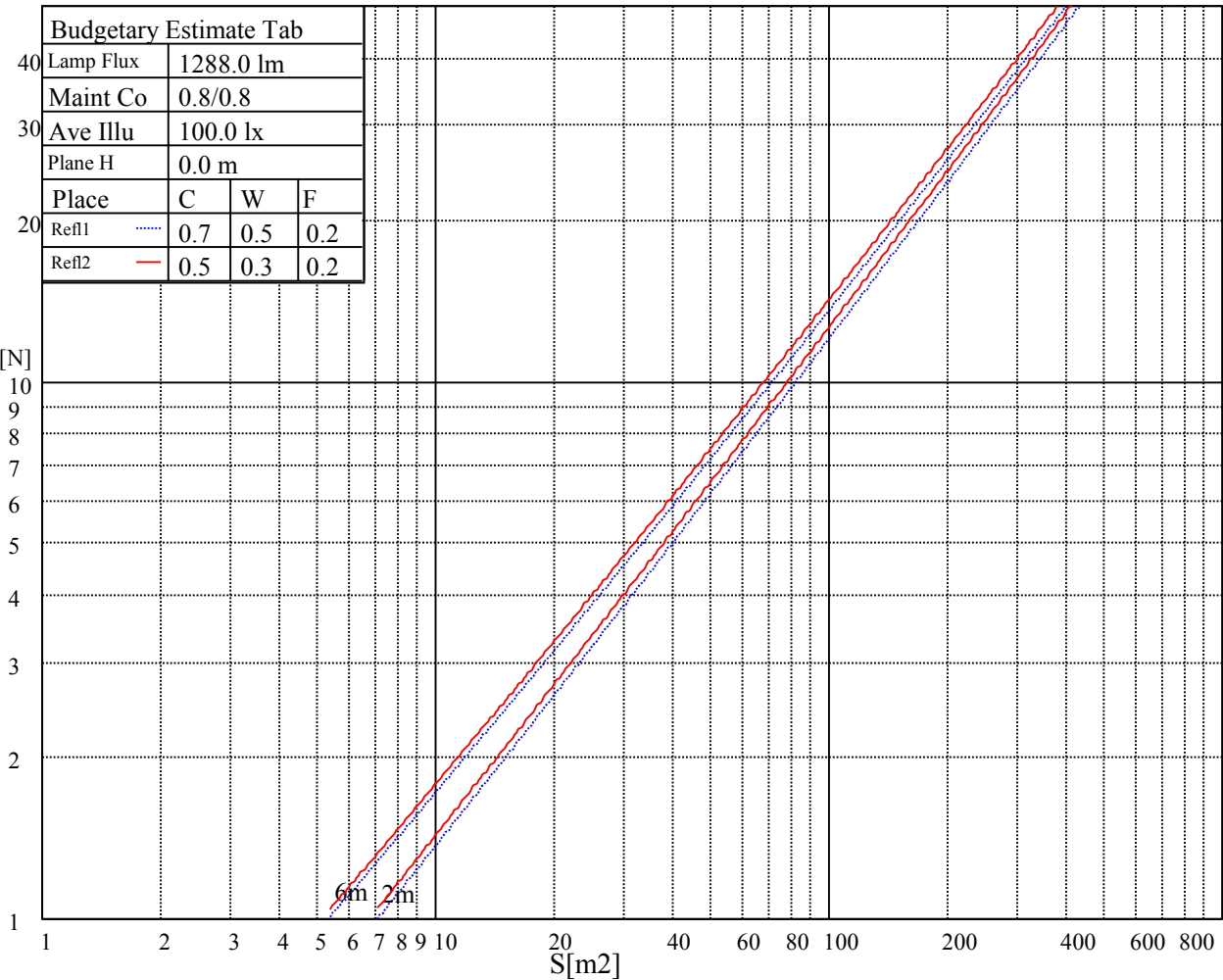
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

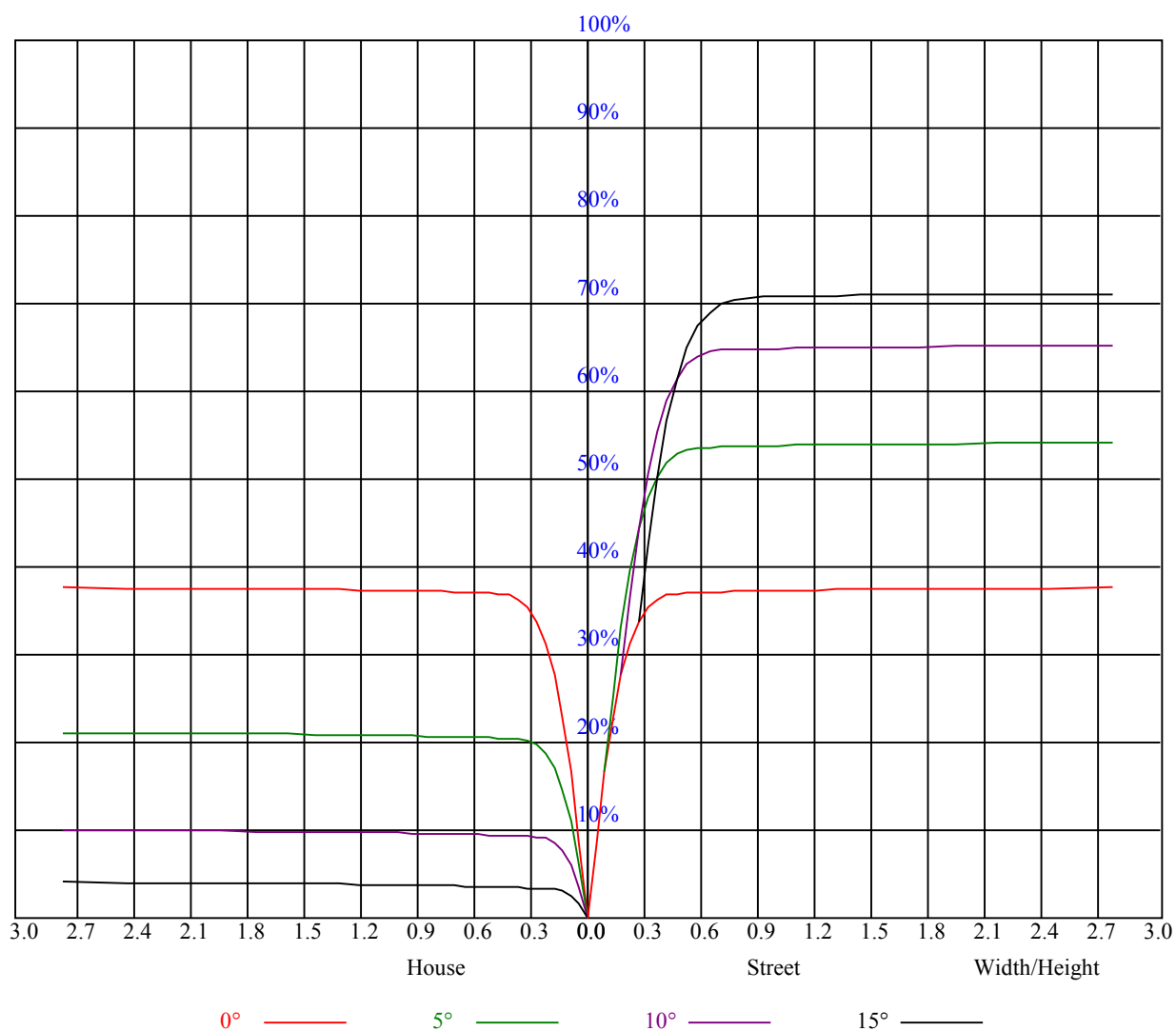
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





RHOC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOF=20 CU															
0	0.90	0.90	0.90	0.88	0.88	0.88	0.84	0.84	0.84	0.81	0.81	0.81	0.77	0.77	0.77	0.76
1	0.86	0.84	0.83	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76	0.75	0.75	0.74
2	0.82	0.80	0.78	0.81	0.79	0.77	0.79	0.77	0.76	0.76	0.75	0.74	0.74	0.74	0.73	0.72
3	0.79	0.77	0.75	0.78	0.76	0.74	0.76	0.75	0.73	0.75	0.73	0.72	0.73	0.72	0.71	0.70
4	0.77	0.74	0.72	0.76	0.73	0.72	0.74	0.72	0.71	0.73	0.71	0.70	0.72	0.70	0.69	0.68
5	0.75	0.72	0.70	0.74	0.71	0.69	0.73	0.71	0.69	0.72	0.70	0.68	0.71	0.69	0.68	0.67
6	0.73	0.70	0.68	0.72	0.69	0.68	0.71	0.69	0.67	0.70	0.68	0.67	0.69	0.68	0.66	0.66
7	0.71	0.68	0.66	0.70	0.68	0.66	0.70	0.67	0.66	0.69	0.67	0.65	0.68	0.66	0.65	0.64
8	0.69	0.67	0.65	0.69	0.66	0.65	0.68	0.66	0.64	0.68	0.66	0.64	0.67	0.65	0.64	0.63
9	0.68	0.65	0.63	0.67	0.65	0.63	0.67	0.65	0.63	0.66	0.64	0.63	0.66	0.64	0.63	0.62
10	0.66	0.64	0.62	0.66	0.64	0.62	0.66	0.63	0.62	0.65	0.63	0.62	0.65	0.63	0.62	0.61



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	8593.88	8501.06	7926.19	7369.88	6823.69	6073.31	5364.00	4811.63	4073.63
45.0	8551.69	8572.50	8182.69	7679.81	7081.88	6499.13	5725.69	5065.88	4355.44
90.0	8597.25	8426.25	7944.75	7331.63	6716.25	6042.38	5409.00	4668.75	3996.00
135.0	8565.75	8559.00	8148.38	7620.19	7035.75	6379.88	5676.19	5016.94	4307.63
180.0	8593.88	8431.31	7929.00	7301.81	6717.94	6070.50	5356.13	4712.63	4034.81
225.0	8551.69	8259.75	7710.75	7057.69	6491.25	5803.31	5106.38	4491.00	3867.75
270.0	8597.25	8472.38	7988.06	7457.63	6855.75	6091.31	5473.69	4840.88	4185.56
315.0	8565.75	8273.81	7649.44	7056.56	6482.81	5714.44	5083.31	4466.25	3784.50
360.0	8593.88	8501.06	7926.19	7369.88	6823.69	6073.31	5364.00	4811.63	4073.63
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3514.50	3139.88	2678.63	2343.94	2043.00	1717.88	1496.81	1288.13	1058.63
45.0	3745.69	3284.44	2827.13	2468.25	2101.50	1787.63	1560.38	1358.44	1125.00
90.0	3475.13	2988.56	2572.31	2239.31	1941.19	1632.38	1415.81	1105.65	1018.35
135.0	3689.44	3229.31	2781.56	2419.31	2058.19	1744.31	1518.75	1317.38	1082.81
180.0	3520.69	3043.13	2628.56	2292.19	1957.50	1672.31	1451.81	1108.80	1041.86
225.0	3404.25	2949.75	2541.94	2216.81	1896.75	1617.75	1398.38	1120.11	967.50
270.0	3624.75	3199.50	2772.00	2422.69	2075.63	1774.13	1537.88	1294.31	1082.81
315.0	3385.69	2927.25	2481.19	2197.69	1877.63	1583.44	1395.00	1116.23	982.91
360.0	3514.50	3139.88	2678.63	2343.94	2043.00	1717.88	1496.81	1288.13	1058.63
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	894.38	744.19	568.13	432.56	315.56	300.38	103.84	49.39	23.34
45.0	950.06	798.19	621.00	487.69	355.50	284.63	133.26	67.16	30.38
90.0	839.81	691.88	536.96	391.95	273.32	168.64	95.91	39.09	19.13
135.0	906.75	762.19	586.69	447.75	322.31	294.75	112.78	50.23	22.05
180.0	855.56	703.91	566.38	397.07	282.94	183.43	89.44	39.26	20.14
225.0	816.24	666.45	492.53	363.94	251.78	148.33	69.53	31.89	16.71
270.0	915.19	766.13	586.13	455.06	329.63	298.13	112.50	54.06	25.31
315.0	812.81	660.54	518.96	359.55	249.53	156.66	68.57	32.68	18.28
360.0	894.38	744.19	568.13	432.56	315.56	300.38	103.84	49.39	23.34
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	16.31	13.11	11.42	10.24	9.28	8.49	7.99	7.54	7.03
45.0	17.55	12.88	11.42	9.90	8.89	8.27	7.65	7.26	6.86
90.0	13.67	11.19	9.84	9.00	8.33	7.65	7.26	6.92	6.64
135.0	14.57	11.53	10.24	9.39	8.66	8.10	7.65	7.26	6.86
180.0	13.84	11.59	10.52	9.56	8.89	8.21	7.76	7.37	6.98
225.0	13.67	11.98	10.69	9.84	9.11	8.27	7.82	7.37	6.86
270.0	15.30	12.99	11.64	10.41	9.51	8.78	8.16	7.59	7.14
315.0	14.18	12.26	11.03	9.96	9.17	8.44	7.82	7.37	6.92
360.0	16.31	13.11	11.42	10.24	9.28	8.49	7.99	7.54	7.03
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	6.69	6.41	6.19	5.96	5.85	5.68	5.57	5.46	5.40
45.0	6.53	6.30	6.08	5.85	5.74	5.63	5.46	5.40	5.29
90.0	6.30	6.13	5.96	5.79	5.63	5.51	5.40	5.34	5.23
135.0	6.64	6.36	6.19	5.96	5.85	5.74	5.63	5.51	5.40
180.0	6.69	6.47	6.30	6.08	5.91	5.79	5.63	5.51	5.46
225.0	6.64	6.36	6.13	5.96	5.85	5.63	5.57	5.46	5.40
270.0	6.81	6.53	6.24	6.02	5.85	5.74	5.63	5.51	5.46
315.0	6.64	6.36	6.19	5.91	5.79	5.68	5.57	5.46	5.34
360.0	6.69	6.41	6.19	5.96	5.85	5.68	5.57	5.46	5.40

Intensity data(cd)

C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	5.29	5.23	5.18	5.12	5.06	5.01	4.95	4.95	4.89
45.0	5.23	5.18	5.06	5.01	5.01	4.95	4.89	4.89	4.84
90.0	5.18	5.12	5.06	5.01	4.95	4.89	4.89	4.84	4.84
135.0	5.34	5.23	5.18	5.12	5.12	5.01	5.01	4.95	4.89
180.0	5.40	5.29	5.23	5.18	5.12	5.06	5.06	5.01	4.95
225.0	5.29	5.23	5.12	5.06	5.01	5.01	4.95	4.89	4.84
270.0	5.34	5.23	5.18	5.18	5.06	5.06	4.95	4.95	4.89
315.0	5.23	5.18	5.12	5.06	5.01	5.01	4.95	4.89	4.84
360.0	5.29	5.23	5.18	5.12	5.06	5.01	4.95	4.95	4.89
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	4.84	4.84	4.84	4.78	4.78	4.73	4.67	4.67	4.61
45.0	4.84	4.78	4.78	4.73	4.73	4.67	4.67	4.61	4.61
90.0	4.78	4.78	4.73	4.73	4.73	4.67	4.67	4.61	4.61
135.0	4.89	4.84	4.84	4.78	4.73	4.73	4.73	4.73	4.67
180.0	4.89	4.89	4.84	4.78	4.78	4.78	4.73	4.73	4.67
225.0	4.78	4.78	4.73	4.73	4.73	4.67	4.67	4.61	4.61
270.0	4.89	4.89	4.84	4.78	4.78	4.73	4.73	4.73	4.67
315.0	4.84	4.84	4.78	4.73	4.73	4.67	4.67	4.61	4.61
360.0	4.84	4.84	4.84	4.78	4.78	4.73	4.67	4.67	4.61
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.67	4.61	4.61	4.56	4.56	4.56	4.56	4.56	4.50
45.0	4.56	4.56	4.61	4.56	4.56	4.50	4.50	4.50	4.50
90.0	4.61	4.56	4.61	4.56	4.56	4.56	4.56	4.50	4.56
135.0	4.67	4.61	4.61	4.61	4.61	4.56	4.56	4.56	4.56
180.0	4.67	4.67	4.61	4.61	4.56	4.56	4.56	4.56	4.56
225.0	4.61	4.56	4.56	4.56	4.56	4.50	4.50	4.50	4.50
270.0	4.67	4.61	4.61	4.61	4.61	4.61	4.56	4.56	4.61
315.0	4.61	4.56	4.61	4.56	4.56	4.50	4.56	4.50	4.50
360.0	4.67	4.61	4.61	4.56	4.56	4.56	4.56	4.56	4.50
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	4.50	4.50	4.50	4.50	4.44	4.50	4.50	4.50	4.44
45.0	4.44	4.44	4.44	4.44	4.44	4.39	4.44	4.39	4.39
90.0	4.56	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
135.0	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.44	4.44
180.0	4.50	4.50	4.50	4.50	4.50	4.44	4.44	4.44	4.44
225.0	4.50	4.44	4.44	4.44	4.44	4.44	4.44	4.39	4.44
270.0	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56
315.0	4.50	4.44	4.44	4.44	4.44	4.44	4.44	4.44	4.44
360.0	4.50	4.50	4.50	4.50	4.44	4.50	4.50	4.50	4.44
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.44	4.44	4.44	4.39	4.44	4.44	4.44	4.44	4.44
45.0	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
90.0	4.50	4.50	4.50	4.50	4.50	4.39	4.39	4.39	4.39
135.0	4.44	4.44	4.44	4.44	4.44	4.44	4.39	4.39	4.39
180.0	4.44	4.44	4.44	4.44	4.39	4.44	4.39	4.39	4.44
225.0	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39	4.39
270.0	4.50	4.61	4.73	4.78	4.73	4.44	4.44	4.39	4.39
315.0	4.44	4.44	4.44	4.39	4.39	4.44	4.39	4.39	4.39
360.0	4.44	4.44	4.44	4.39	4.44	4.44	4.44	4.44	4.44

Intensity data(cd)

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C/ $\gamma(^{\circ})$	90.0
0.0	4.44
45.0	4.39
90.0	4.39
135.0	4.39
180.0	4.44
225.0	4.39
270.0	4.39
315.0	4.39
360.0	4.44