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Nata

LumCAT: 1-0935-N	
Luminaire: 92.70.246.00	
Report No: 210630-B005	Voltage(V): 39.6600
Test No: 210630-C005	Current(A): 0.2510
LampCAT: Fortimo LED SLM 1201 G7N	Power (W): 9.9540
Lamp flux(lm): 1156.7	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 570	Width(mm): 45
Phm Type: C	Height(mm): 20

Photometric Results

Lumens(lm): 916.22
Efficiency(%): 79.21%
Lumens(lm)/Power(W): 92.04
Central intensity(cd): 4947.750
Maximum intensity(cd): 4947.750
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=18.7
 [C90/270]Total=18.7
Field angle(10%Imax): [C0/180]Total=46.3
 [C90/270]Total=46.3
Maximum s/h(1/2): C0_180=0.32 C90_270=0.32
Maximum s/h(1/4): C0_180=0.35 C90_270=0.35
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 79.21%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.129%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2021/6/30
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4947.750	0.000	0	.000%	.000%
1.0	4942.195	4.732	4.732	.409%	.516%
2.0	4896.563	14.122	18.854	1.221%	2.058%
3.0	4714.313	22.986	41.84	1.987%	4.567%
4.0	4436.719	30.631	72.471	2.648%	7.910%
5.0	4128.258	36.846	109.317	3.186%	11.931%
6.0	3760.805	41.459	150.776	3.584%	16.456%
7.0	3347.789	44.123	194.899	3.815%	21.272%
8.0	2982.516	45.305	240.204	3.917%	26.217%
9.0	2592.703	45.184	285.388	3.906%	31.149%
10.0	2243.953	43.770	329.158	3.784%	35.926%
11.0	1973.039	42.136	371.295	3.643%	40.525%
12.0	1721.742	40.389	411.684	3.492%	44.933%
13.0	1501.875	38.256	449.94	3.307%	49.109%
14.0	1337.625	36.345	486.285	3.142%	53.075%
15.0	1181.869	34.589	520.874	2.990%	56.851%
16.0	1066.352	32.943	553.817	2.848%	60.446%
17.0	971.184	31.730	585.547	2.743%	63.909%
18.0	881.965	30.554	616.101	2.642%	67.244%
19.0	794.981	29.175	645.277	2.522%	70.428%
20.0	717.666	27.686	672.962	2.394%	73.450%
21.0	639.998	26.070	699.032	2.254%	76.296%
22.0	569.686	24.309	723.341	2.102%	78.949%
23.0	505.702	22.565	745.906	1.951%	81.412%
24.0	437.730	20.627	766.533	1.783%	83.663%
25.0	372.157	18.415	784.948	1.592%	85.673%
26.0	316.695	16.260	801.208	1.406%	87.448%
27.0	265.127	14.234	815.443	1.231%	89.001%
28.0	202.254	11.833	827.276	1.023%	90.293%
29.0	155.510	9.360	836.636	.809%	91.314%
30.0	121.535	7.480	844.116	.647%	92.131%
31.0	89.557	5.874	849.99	.508%	92.772%
32.0	67.430	4.497	854.488	.389%	93.263%
33.0	55.343	3.617	858.105	.313%	93.658%
34.0	48.045	3.129	861.234	.271%	93.999%
35.0	44.297	2.868	864.101	.248%	94.312%
36.0	41.520	2.732	866.834	.236%	94.610%
37.0	38.602	2.613	869.447	.226%	94.895%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	35.986	2.490	871.936	.215%	95.167%
39.0	33.138	2.359	874.296	.204%	95.425%
40.0	29.890	2.198	876.494	.190%	95.665%
41.0	27.056	2.028	878.522	.175%	95.886%
42.0	24.166	1.861	880.383	.161%	96.089%
43.0	21.291	1.684	882.067	.146%	96.273%
44.0	19.139	1.526	883.593	.132%	96.439%
45.0	17.290	1.400	884.993	.121%	96.592%
46.0	15.574	1.285	886.278	.111%	96.732%
47.0	14.372	1.191	887.469	.103%	96.862%
48.0	13.451	1.125	888.594	.097%	96.985%
49.0	12.523	1.067	889.66	.092%	97.102%
50.0	11.798	1.014	890.674	.088%	97.212%
51.0	11.194	0.973	891.647	.084%	97.318%
52.0	10.596	0.935	892.582	.081%	97.421%
53.0	10.090	0.900	893.482	.078%	97.519%
54.0	9.654	0.870	894.352	.075%	97.614%
55.0	9.211	0.842	895.194	.073%	97.706%
56.0	8.852	0.816	896.01	.071%	97.795%
57.0	8.515	0.794	896.805	.069%	97.881%
58.0	8.205	0.773	897.578	.067%	97.966%
59.0	7.973	0.756	898.334	.065%	98.048%
60.0	7.748	0.743	899.077	.064%	98.129%
61.0	7.495	0.727	899.804	.063%	98.209%
62.0	7.313	0.714	900.518	.062%	98.287%
63.0	7.144	0.703	901.221	.061%	98.363%
64.0	6.975	0.693	901.914	.060%	98.439%
65.0	6.827	0.683	902.597	.059%	98.514%
66.0	6.680	0.674	903.271	.058%	98.587%
67.0	6.518	0.664	903.934	.057%	98.660%
68.0	6.363	0.653	904.587	.056%	98.731%
69.0	6.230	0.642	905.229	.056%	98.801%
70.0	6.089	0.633	905.862	.055%	98.870%
71.0	5.906	0.620	906.482	.054%	98.938%
72.0	5.716	0.604	907.086	.052%	99.004%
73.0	5.548	0.589	907.675	.051%	99.068%
74.0	5.400	0.576	908.251	.050%	99.131%
75.0	5.280	0.564	908.815	.049%	99.192%

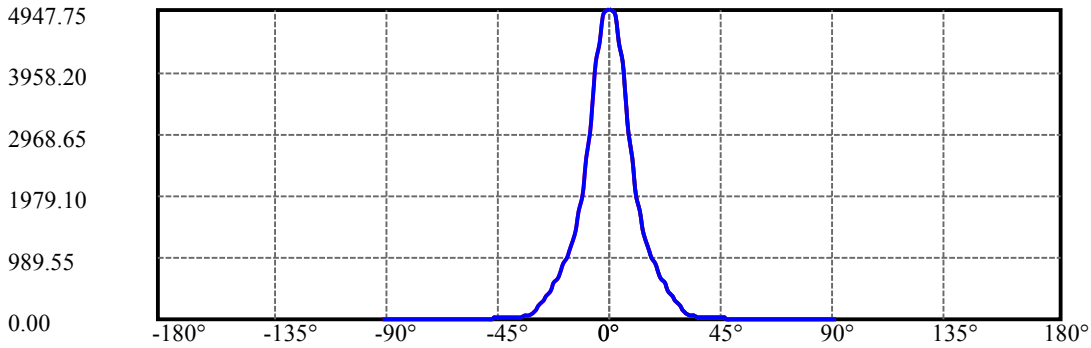
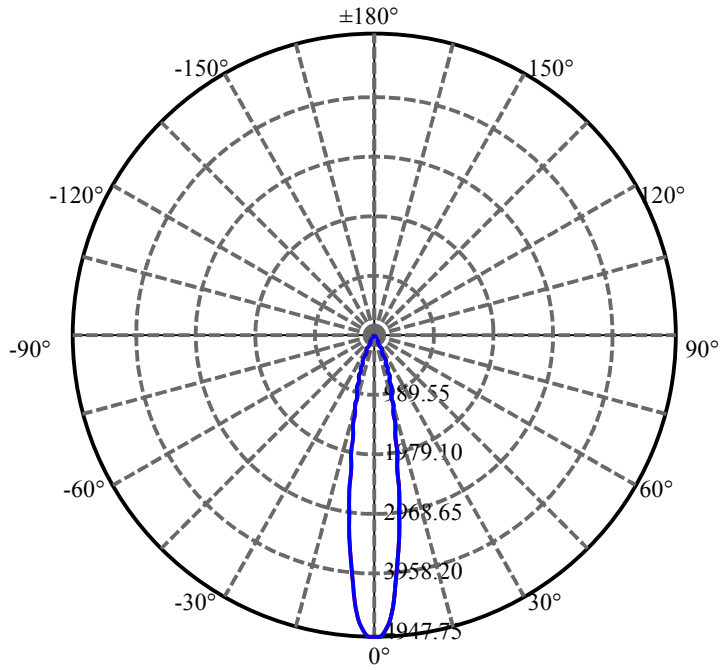
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.168	0.555	909.37	.048%	99.253%
77.0	5.034	0.544	909.914	.047%	99.312%
78.0	4.943	0.534	910.448	.046%	99.370%
79.0	4.823	0.525	910.973	.045%	99.428%
80.0	4.732	0.515	911.488	.045%	99.484%
81.0	4.676	0.509	911.997	.044%	99.540%
82.0	4.620	0.504	912.501	.044%	99.595%
83.0	4.598	0.501	913.002	.043%	99.649%
84.0	4.500	0.496	913.497	.043%	99.703%
85.0	4.430	0.487	913.985	.042%	99.757%
86.0	4.338	0.479	914.464	.041%	99.809%
87.0	4.036	0.458	914.922	.040%	99.859%
88.0	3.966	0.438	915.361	.038%	99.907%
89.0	3.888	0.430	915.791	.037%	99.954%
90.0	3.853	0.424	916.216	.037%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	844.12	72.98%	92.13%
0-40	876.49	75.78%	95.66%
0-60	899.08	77.73%	98.13%
0-90	915.79	79.17%	99.95%
0-120	915.79	79.17%	99.95%
0-180	916.22	79.21%	100.00%
60-90	17.46	1.51%	1.91%
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%
0-22.43	732.97	63.37%	80.00%

ZONAL LUMEN SUMMARY

0-10	329.16
10-20	343.80
20-30	171.15
30-40	32.38
40-50	14.18
50-60	8.40
60-70	6.79
70-80	5.63
80-90	4.30
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



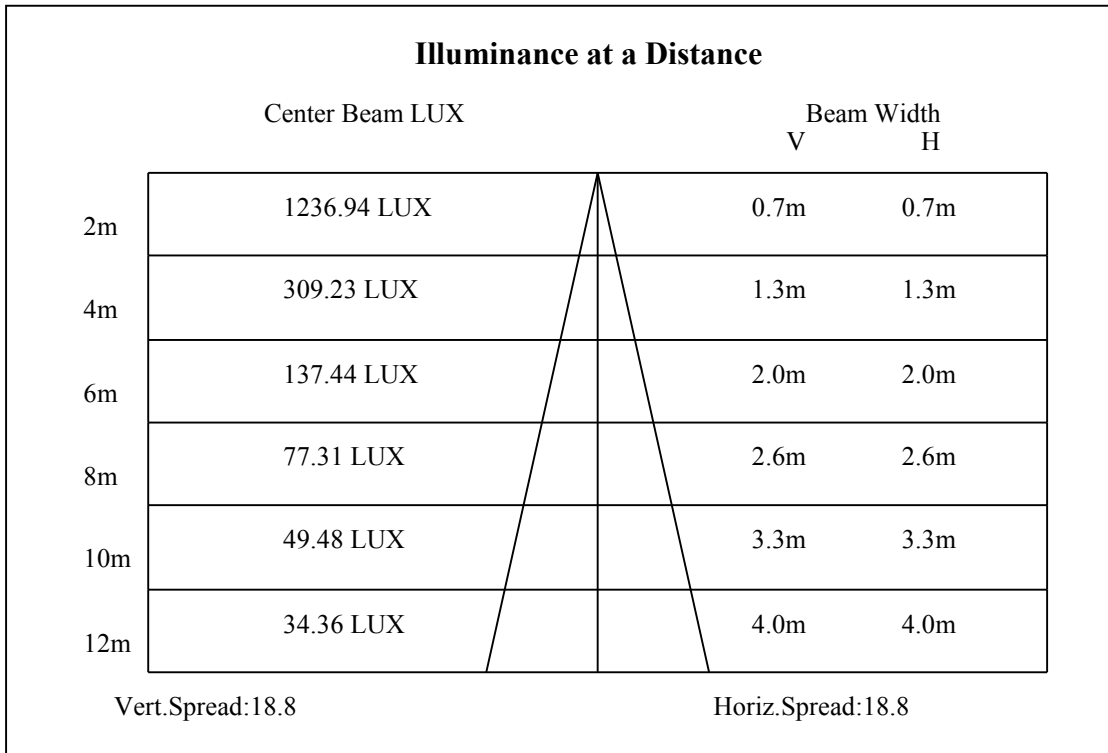
C0(Max): —————

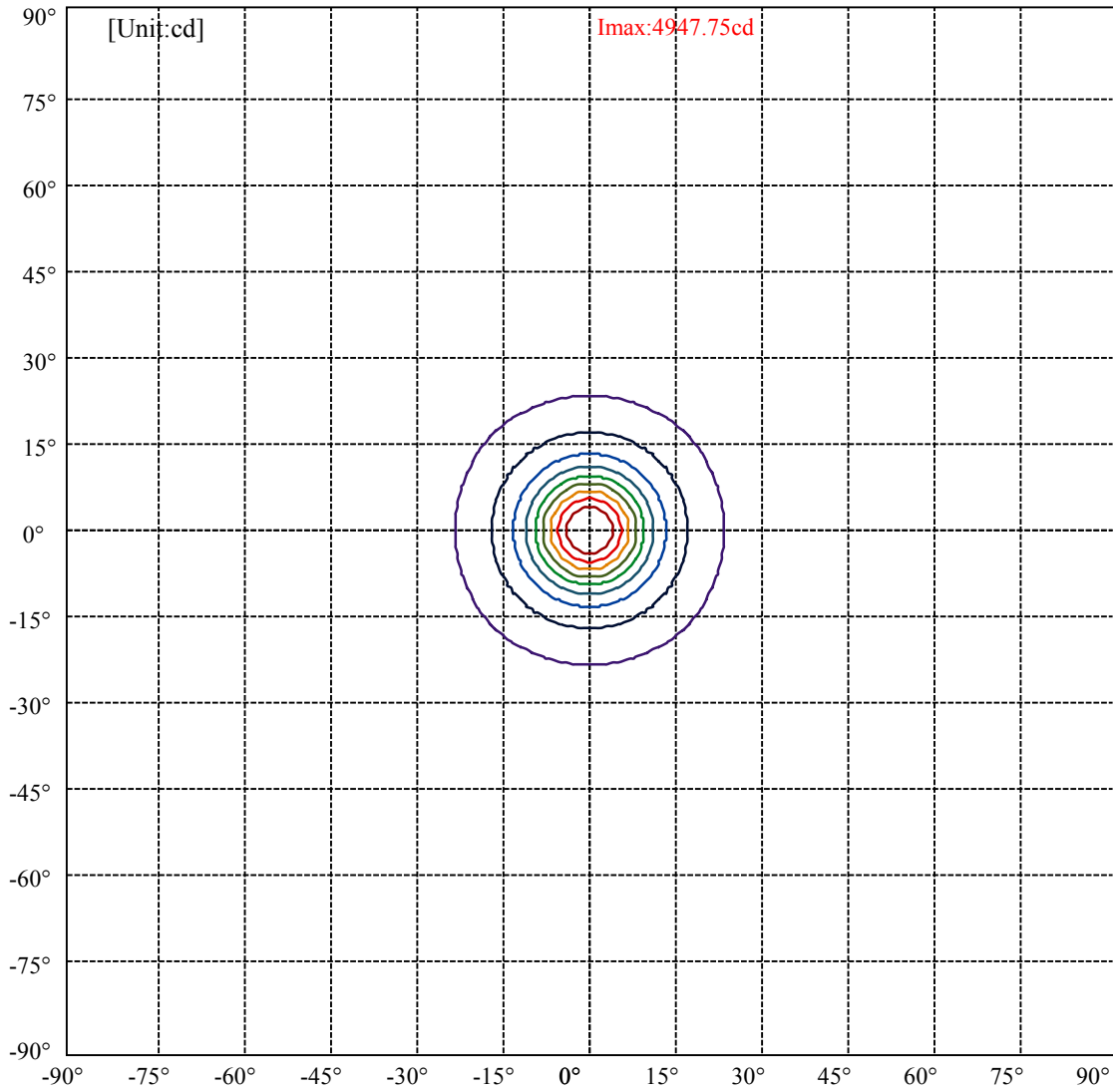
C0/C180: —————

C90/C270: —————

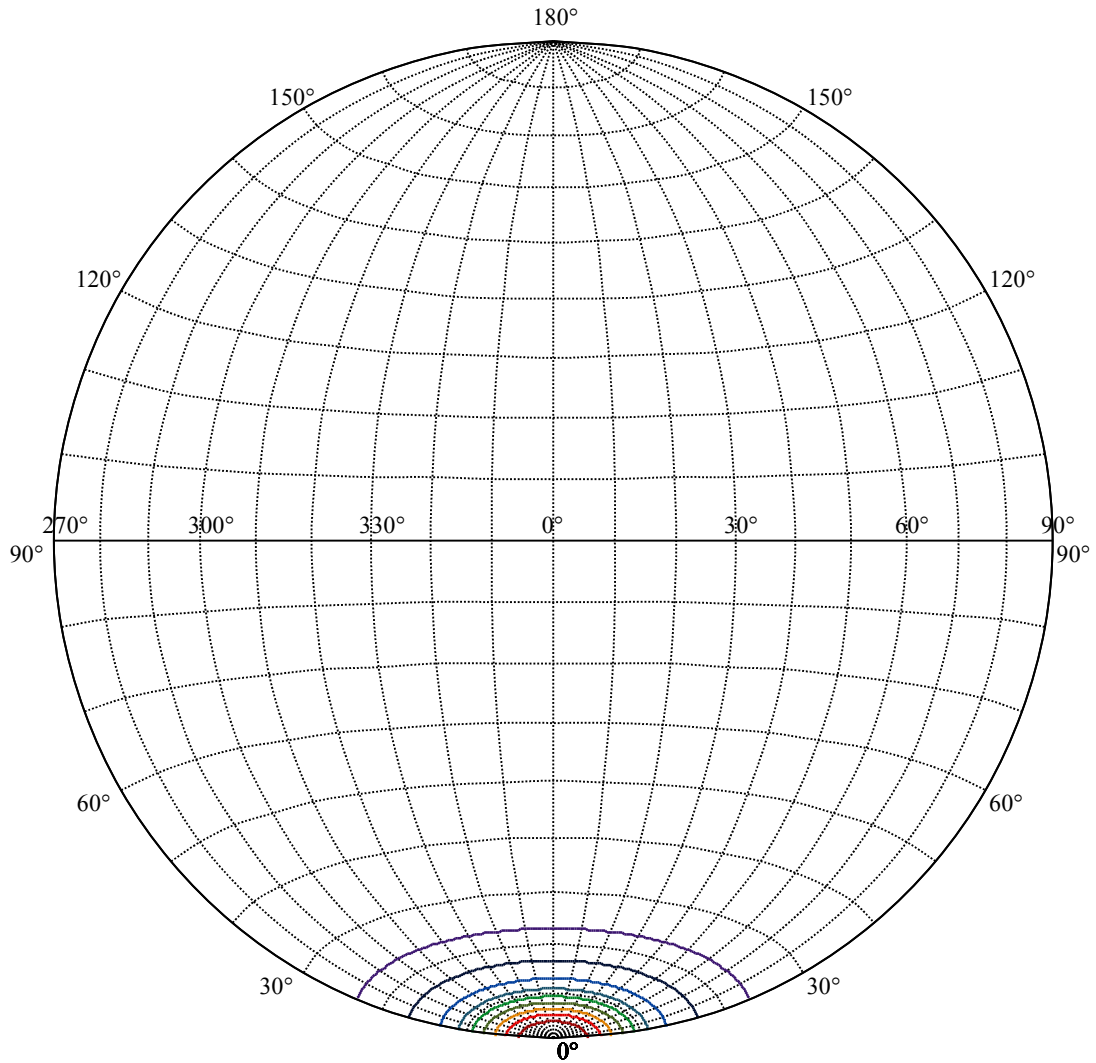
Field angle(10%Imax):C0/180Left:23.2 Right:23.2
:C90/270Left:23.2 Right:23.2

Beam Angle(50%Imax):C0/180Left:9.3 Right:9.3
:C90/270Left:9.3 Right:9.3





(10%Imax) 494.775	—
(20%Imax) 989.55	—
(30%Imax) 1484.33	—
(40%Imax) 1979.1	—
(50%Imax) 2473.88	—
(60%Imax) 2968.65	—
(70%Imax) 3463.43	—
(80%Imax) 3958.2	—
(90%Imax) 4452.98	—



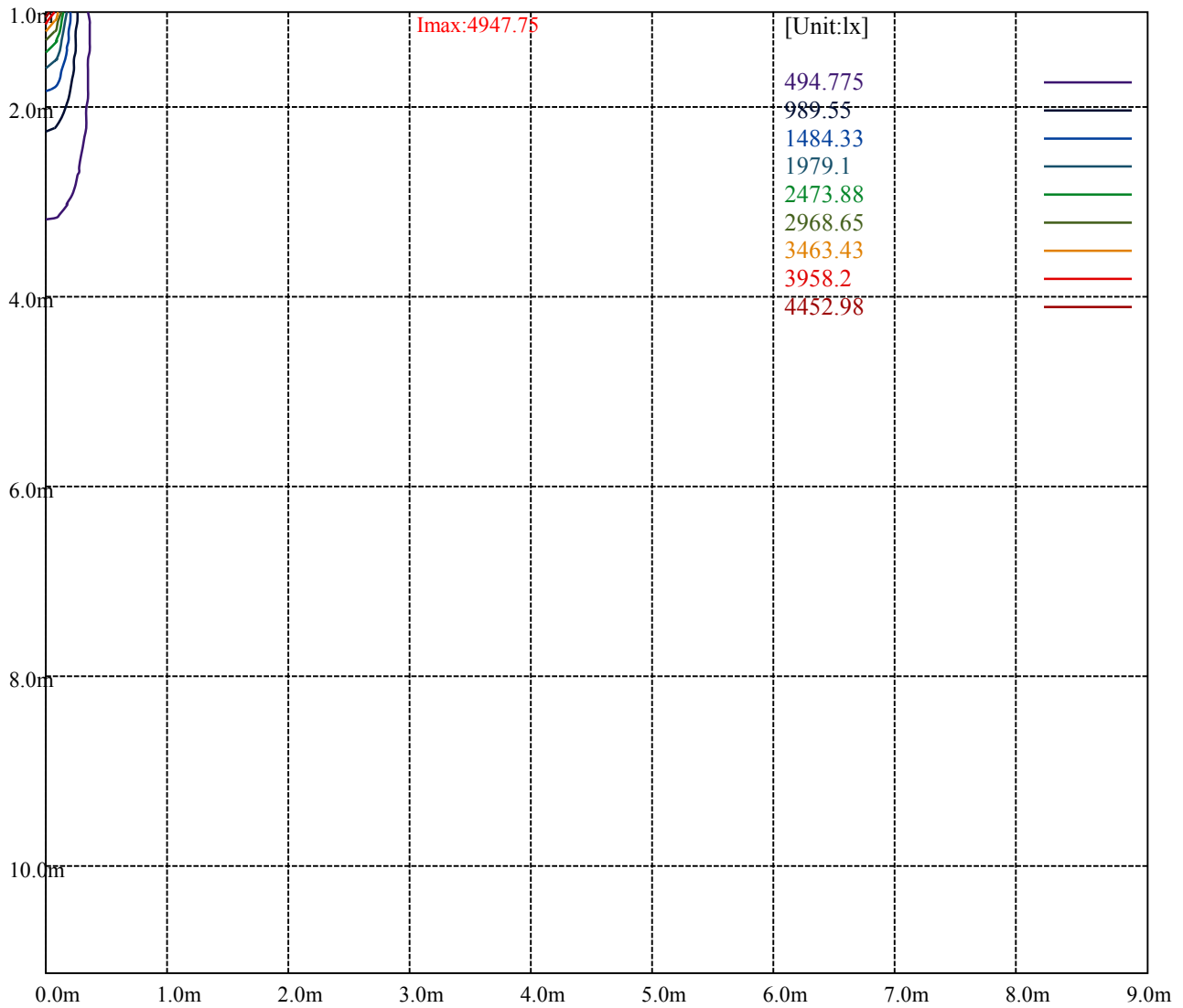
House

[Unit:cd]

Road

Imax:4947.75

- (10%Imax) 494.775
- (20%Imax) 989.55
- (30%Imax) 1484.33
- (40%Imax) 1979.1
- (50%Imax) 2473.88
- (60%Imax) 2968.65
- (70%Imax) 3463.43
- (80%Imax) 3958.2
- (90%Imax) 4452.98



Luminance Table

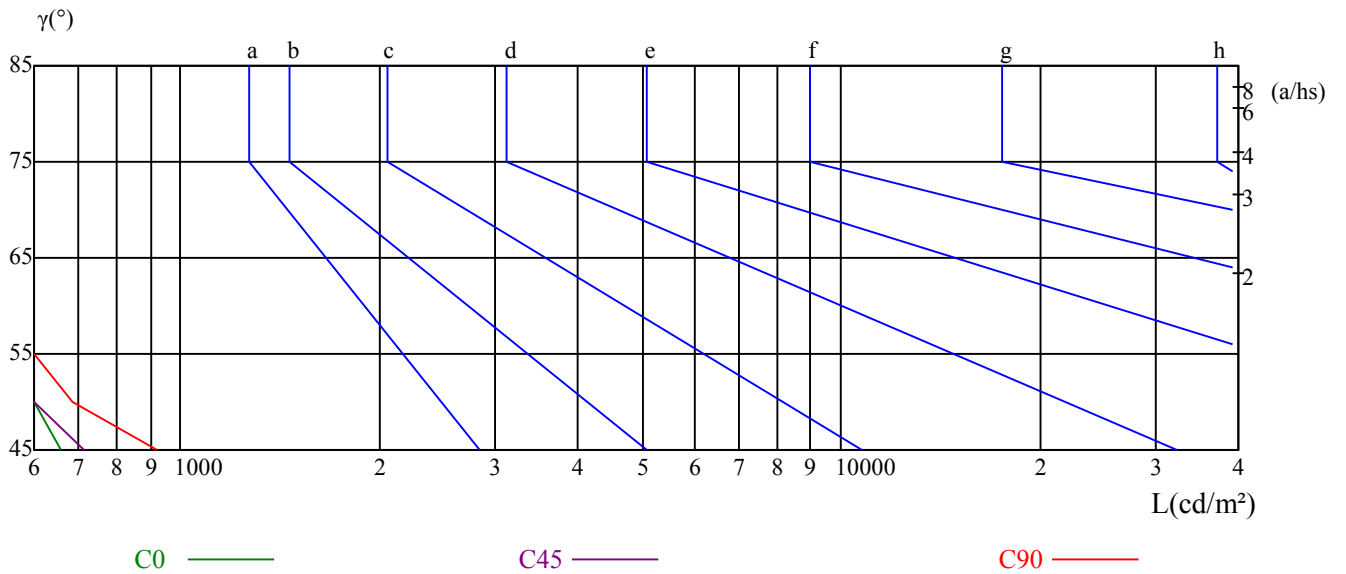
γ	45	50	55	60	65	70	75	80	85
C0	660	468	383	341	322	312	299	302	326
C45	712	510	422	381	365	359	351	363	406
C90	921	687	596	570	586	633	703	886	1414

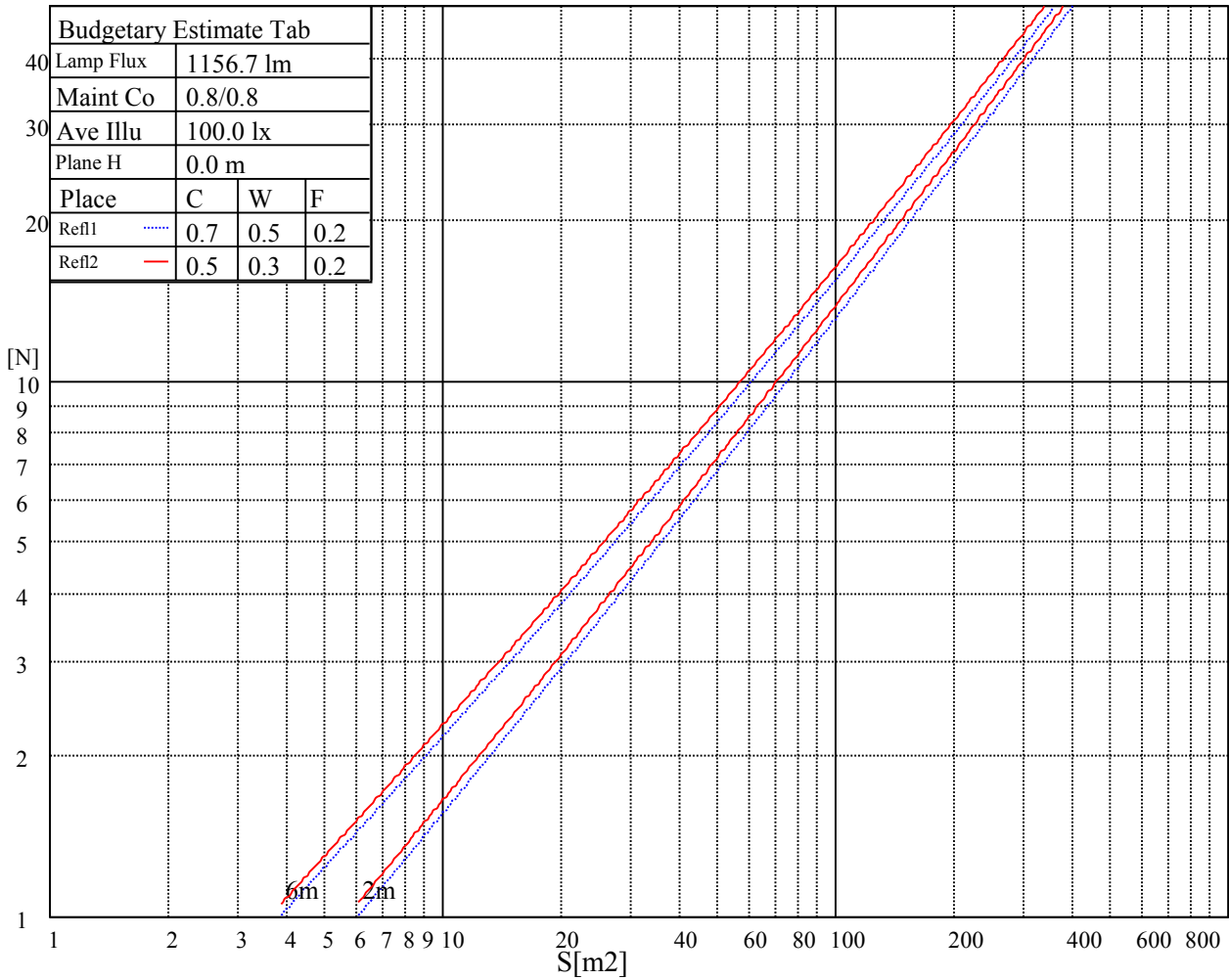
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
630	630	630	795	795	795	1981	1981	1981

Glare Table

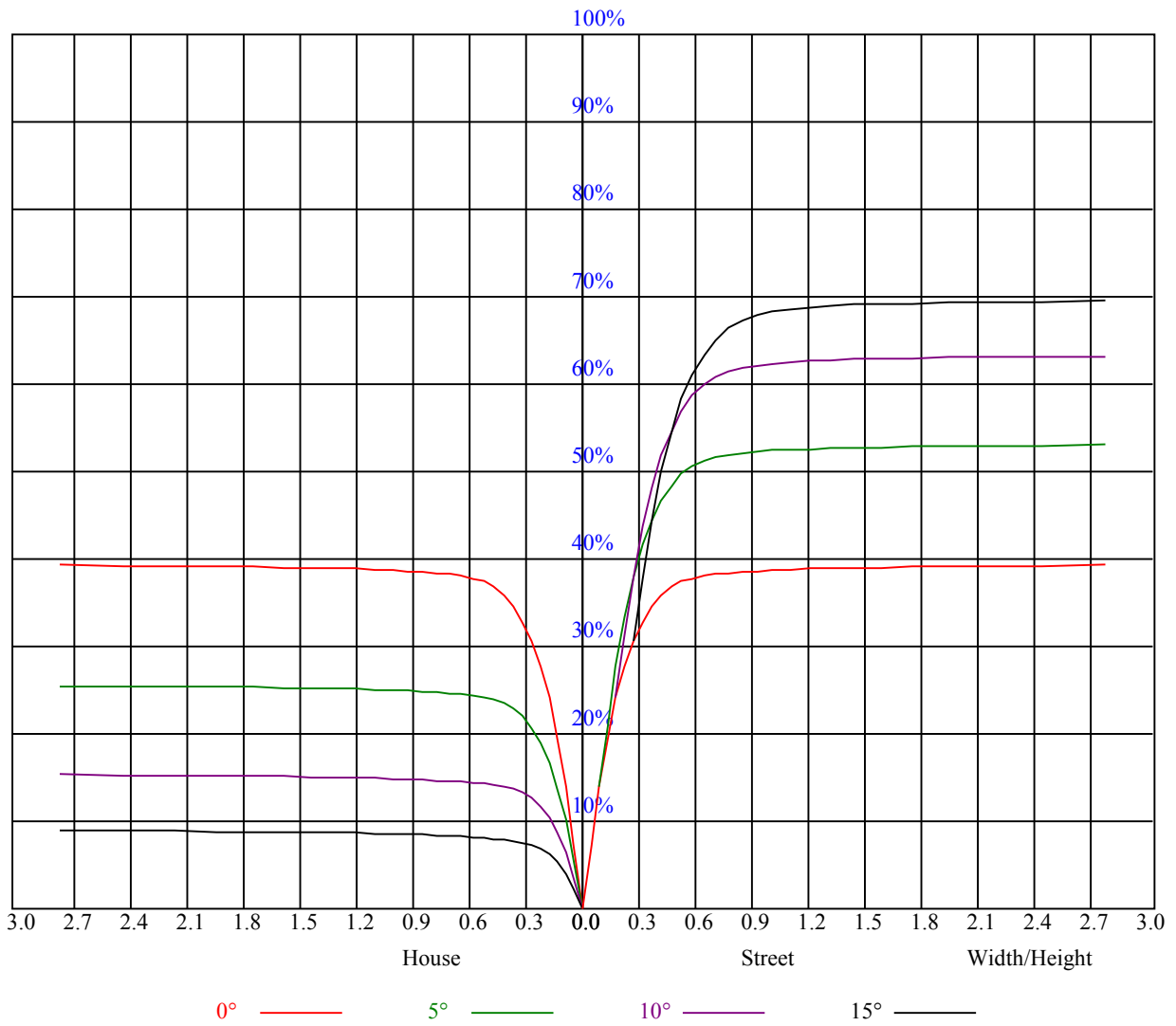
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	0.94	0.94	0.94	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.81	0.81	0.81	0.79
1	0.89	0.87	0.86	0.87	0.86	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76
2	0.84	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.77	0.78	0.77	0.75	0.76	0.75	0.74	0.73
3	0.80	0.77	0.75	0.79	0.77	0.74	0.77	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.71	0.70
4	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.73	0.71	0.69	0.72	0.70	0.68	0.67
5	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.71	0.69	0.67	0.70	0.68	0.66	0.65
6	0.71	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.68	0.66	0.64	0.63
7	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.66	0.64	0.62	0.61
8	0.67	0.63	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.64	0.62	0.60	0.59
9	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.63	0.61	0.59	0.63	0.60	0.59	0.58
10	0.63	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.57	0.56



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	4948.88	4948.31	4929.75	4743.56	4449.94	4109.63	3714.19	3332.25	2965.50
45.0	4950.00	4944.94	4761.00	4493.81	4186.69	3882.94	3470.06	3040.88	2680.31
90.0	4945.50	4910.06	4828.50	4489.88	4232.25	3919.50	3501.00	3070.69	2700.56
135.0	4946.63	4930.31	4919.06	4838.63	4593.38	4298.06	3945.38	3532.50	3160.13
180.0	4948.88	4937.06	4919.63	4748.63	4414.50	4141.69	3838.50	3362.63	2993.06
225.0	4950.00	4966.88	4971.38	4899.94	4735.13	4431.94	4004.44	3661.31	3303.00
270.0	4945.50	4951.69	4954.50	4867.88	4555.69	4245.75	4020.75	3601.69	3237.19
315.0	4946.63	4948.31	4888.69	4632.19	4326.19	3996.56	3592.13	3180.38	2820.38
360.0	4948.88	4948.31	4929.75	4743.56	4449.94	4109.63	3714.19	3332.25	2965.50
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2530.69	2227.50	1960.31	1679.06	1487.81	1326.38	1175.06	1053.56	957.94
45.0	2318.06	1999.69	1757.81	1553.06	1350.56	1215.56	1102.50	996.75	902.25
90.0	2333.81	2018.81	1782.56	1560.94	1399.50	1248.75	1116.28	1018.07	929.42
135.0	2709.56	2373.75	2080.13	1833.19	1580.63	1414.13	1274.06	1141.88	1026.56
180.0	2640.38	2248.31	1976.63	1739.25	1524.94	1343.81	1117.29	1065.77	981.56
225.0	2845.13	2507.63	2207.25	1875.94	1648.13	1459.69	1269.56	1113.36	1035.06
270.0	2878.88	2463.19	2165.06	1902.38	1620.00	1438.88	1283.63	1125.56	1020.94
315.0	2485.13	2112.75	1854.56	1630.13	1403.44	1253.81	1116.56	1015.88	915.75
360.0	2530.69	2227.50	1960.31	1679.06	1487.81	1326.38	1175.06	1053.56	957.94
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	866.25	792.56	710.44	630.00	570.38	500.63	429.75	375.19	312.19
45.0	828.00	739.69	657.56	594.00	525.94	457.88	396.00	325.13	286.88
90.0	835.99	747.39	670.67	596.25	528.47	462.15	405.79	334.46	275.06
135.0	935.44	841.50	755.44	678.38	602.44	543.38	470.25	405.56	348.19
180.0	883.58	783.39	718.88	637.26	560.19	506.31	441.11	367.48	314.38
225.0	935.89	854.10	779.51	687.49	618.64	558.68	474.69	416.19	360.96
270.0	930.94	841.50	761.06	687.38	611.44	542.81	474.75	410.06	350.44
315.0	839.64	759.71	687.77	609.24	540.00	473.79	409.50	343.18	285.47
360.0	866.25	792.56	710.44	630.00	570.38	500.63	429.75	375.19	312.19
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	289.13	197.94	148.89	119.42	84.54	62.55	53.89	46.01	43.03
45.0	221.06	162.73	122.40	97.93	66.09	55.07	48.26	44.44	41.46
90.0	229.05	178.20	130.28	104.68	74.70	57.66	50.12	45.79	43.03
135.0	297.00	227.87	180.79	137.70	104.12	76.95	60.13	51.30	46.35
180.0	258.30	211.39	156.21	120.49	91.91	65.81	55.13	48.38	45.23
225.0	303.13	237.49	191.08	147.43	114.19	85.16	64.18	52.71	47.14
270.0	289.13	226.46	180.62	137.76	104.46	78.02	60.98	50.51	46.18
315.0	234.23	175.95	133.82	106.88	76.44	58.22	50.06	45.23	41.96
360.0	289.13	197.94	148.89	119.42	84.54	62.55	53.89	46.01	43.03
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	40.84	37.52	34.71	32.29	28.97	26.16	23.57	20.70	18.68
45.0	38.98	36.51	33.58	30.49	27.17	24.41	21.71	19.58	17.55
90.0	40.05	37.18	34.59	31.84	28.18	25.31	22.61	19.91	17.94
135.0	43.37	40.44	38.19	35.21	32.06	29.14	25.71	22.67	20.31
180.0	42.19	39.49	37.13	34.26	30.99	28.01	25.20	21.88	19.69
225.0	43.93	40.95	38.36	35.44	32.40	29.64	26.66	23.29	20.93
270.0	43.31	40.16	37.24	34.59	31.33	28.58	25.31	22.50	20.19
315.0	39.49	36.56	34.09	30.99	28.01	25.20	22.56	19.80	17.83
360.0	40.84	37.52	34.71	32.29	28.97	26.16	23.57	20.70	18.68

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	16.99	15.24	14.12	13.28	12.26	11.59	11.03	10.41	9.90
45.0	16.03	14.74	13.67	12.83	12.09	11.31	10.80	10.29	9.73
90.0	16.37	14.91	13.78	12.99	12.15	11.48	10.91	10.35	9.96
135.0	18.28	16.20	14.91	13.89	12.94	12.15	11.48	10.86	10.24
180.0	17.66	15.98	14.57	13.61	12.71	11.93	11.31	10.69	10.18
225.0	18.79	16.71	15.36	14.29	13.28	12.49	11.81	11.19	10.63
270.0	17.94	16.20	14.96	13.95	12.88	12.21	11.53	10.91	10.35
315.0	16.26	14.63	13.61	12.77	11.87	11.25	10.69	10.07	9.73
360.0	16.99	15.24	14.12	13.28	12.26	11.59	11.03	10.41	9.90
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	9.51	9.11	8.72	8.44	8.16	7.88	7.65	7.43	7.26
45.0	9.39	8.94	8.66	8.33	8.10	7.82	7.59	7.43	7.20
90.0	9.45	9.06	8.72	8.44	8.16	7.93	7.76	7.48	7.31
135.0	9.90	9.39	9.00	8.61	8.27	8.04	7.82	7.54	7.37
180.0	9.68	9.23	8.83	8.49	8.10	7.93	7.71	7.37	7.20
225.0	10.13	9.68	9.28	8.83	8.49	8.27	7.99	7.71	7.54
270.0	9.90	9.45	9.06	8.72	8.44	8.16	7.93	7.71	7.48
315.0	9.28	8.83	8.55	8.27	7.93	7.76	7.54	7.31	7.14
360.0	9.51	9.11	8.72	8.44	8.16	7.88	7.65	7.43	7.26
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.09	6.92	6.75	6.64	6.47	6.36	6.24	6.08	5.85
45.0	7.03	6.86	6.69	6.58	6.47	6.24	6.13	5.96	5.74
90.0	7.14	7.03	6.86	6.69	6.53	6.36	6.24	6.08	5.91
135.0	7.20	6.98	6.86	6.69	6.53	6.41	6.24	6.13	5.96
180.0	7.03	6.86	6.75	6.58	6.41	6.24	6.13	5.96	5.79
225.0	7.31	7.14	6.98	6.81	6.64	6.47	6.30	6.19	6.02
270.0	7.31	7.14	7.03	6.86	6.69	6.53	6.41	6.30	6.13
315.0	7.03	6.86	6.69	6.58	6.41	6.30	6.13	6.02	5.85
360.0	7.09	6.92	6.75	6.64	6.47	6.36	6.24	6.08	5.85
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.68	5.51	5.34	5.23	5.18	5.06	4.95	4.84	4.73
45.0	5.57	5.46	5.29	5.18	5.06	4.95	4.84	4.73	4.67
90.0	5.74	5.51	5.34	5.29	5.18	5.01	4.95	4.84	4.84
135.0	5.74	5.57	5.46	5.29	5.12	5.01	4.95	4.84	4.73
180.0	5.57	5.46	5.29	5.18	5.06	4.89	4.73	4.61	4.50
225.0	5.85	5.63	5.51	5.34	5.23	5.06	4.95	4.84	4.73
270.0	5.91	5.74	5.57	5.46	5.34	5.23	5.18	5.06	4.95
315.0	5.68	5.51	5.40	5.29	5.18	5.06	5.01	4.84	4.73
360.0	5.68	5.51	5.34	5.23	5.18	5.06	4.95	4.84	4.73
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.67	4.56	4.50	4.44	4.33	4.22	4.05	3.94	3.83
45.0	4.56	4.50	4.39	4.33	4.22	4.11	3.99	3.88	3.88
90.0	4.84	4.84	4.84	4.28	4.16	4.11	3.99	3.94	3.88
135.0	4.61	4.50	4.39	4.33	4.22	4.11	3.99	3.99	3.94
180.0	4.44	4.39	4.28	4.22	4.11	4.05	3.94	3.94	3.83
225.0	4.61	4.50	4.44	4.33	4.28	4.22	4.11	4.05	3.99
270.0	4.95	5.06	5.34	5.51	5.68	5.68	4.16	4.05	3.94
315.0	4.73	4.61	4.61	4.56	4.44	4.22	4.05	3.94	3.83
360.0	4.67	4.56	4.50	4.44	4.33	4.22	4.05	3.94	3.83

Intensity data(cd)

C/γ(°)	90.0
0.0	3.83
45.0	3.83
90.0	3.88
135.0	3.83
180.0	3.77
225.0	3.94
270.0	3.88
315.0	3.88
360.0	3.83