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NT

Client:

LumCAT: 12-0071-S

Luminaire: 92.70.267.00+99.02.73.185

Report No: 2024429-B009

Ballast type: AC

Test No: 2024429-C009

Voltage(V): 17.500

LampCAT: OSRAM GWJTLPS1.EM 2835

Current(A): 0.404

Lamp flux(lm): 1096.9

Power (W): 7.070

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 725.94, Efficiency(%): 66.18% , Luminous Efficacy(lm/W): 102.68

Central intensity(cd): 1028.708, Maximum intensity(cd): 1048.548

Angle of maximum intensity: C=67.5  $\gamma$ =2.0

Beam Angle(50%Imax): [C0/180]Total=41.7

[C90/270]Total=60.7

Field angle(10%Imax): [C0/180]Total=66.0

[C90/270]Total=79.4

Maximum s/h(1/2): C0\_180=0.62 C90\_270=0.98

Maximum s/h(1/4): C0\_180=0.72 C90\_270=0.89

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 66.52%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.099%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/4/29  
Humidity(%): 60.0%

Operator: NT07  
Distance(m): 7.65

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1036.660	0.000	0	0.00%	0.00%
1.0	1034.616	0.991	0.991	0.09%	0.14%
2.0	1028.628	2.961	3.952	0.27%	0.54%
3.0	1019.689	4.899	8.851	0.45%	1.22%
4.0	1007.308	6.785	15.636	0.62%	2.15%
5.0	991.832	8.600	24.237	0.78%	3.34%
6.0	974.297	10.333	34.569	0.94%	4.76%
7.0	953.822	11.968	46.537	1.09%	6.41%
8.0	930.830	13.488	60.025	1.23%	8.27%
9.0	907.611	14.900	74.925	1.36%	10.32%
10.0	881.305	16.189	91.114	1.48%	12.55%
11.0	857.684	17.376	108.49	1.58%	14.94%
12.0	834.246	18.495	126.985	1.69%	17.49%
13.0	812.245	19.540	146.525	1.78%	20.18%
14.0	790.650	20.517	167.041	1.87%	23.01%
15.0	770.039	21.426	188.467	1.95%	25.96%
16.0	748.539	22.251	210.719	2.03%	29.03%
17.0	728.993	23.009	233.728	2.10%	32.20%
18.0	707.515	23.685	257.413	2.16%	35.46%
19.0	687.197	24.265	281.678	2.21%	38.80%
20.0	665.309	24.755	306.432	2.26%	42.21%
21.0	642.032	25.104	331.536	2.29%	45.67%
22.0	618.517	25.331	356.867	2.31%	49.16%
23.0	593.597	25.433	382.301	2.32%	52.66%
24.0	566.629	25.367	407.668	2.31%	56.16%
25.0	537.979	25.116	432.784	2.29%	59.62%
26.0	507.657	24.682	457.466	2.25%	63.02%
27.0	475.550	24.054	481.521	2.19%	66.33%
28.0	443.465	23.268	504.788	2.12%	69.54%
29.0	410.159	22.333	527.121	2.04%	72.61%
30.0	376.647	21.244	548.365	1.94%	75.54%
31.0	343.004	20.027	568.392	1.83%	78.30%
32.0	309.921	18.706	587.097	1.71%	80.87%
33.0	276.779	17.284	604.382	1.58%	83.26%
34.0	243.487	15.745	620.126	1.44%	85.42%
35.0	212.064	14.148	634.274	1.29%	87.37%
36.0	181.734	12.539	646.813	1.14%	89.10%
37.0	153.311	10.927	657.74	1.00%	90.61%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	128.347	9.401	667.141	0.86%	91.90%
39.0	106.152	8.004	675.146	0.73%	93.00%
40.0	87.648	6.759	681.905	0.62%	93.93%
41.0	72.023	5.686	687.59	0.52%	94.72%
42.0	58.910	4.757	692.347	0.43%	95.37%
43.0	48.716	3.987	696.334	0.36%	95.92%
44.0	40.179	3.355	699.689	0.31%	96.38%
45.0	33.084	2.816	702.505	0.26%	96.77%
46.0	27.147	2.355	704.861	0.21%	97.10%
47.0	22.089	1.958	706.819	0.18%	97.37%
48.0	18.058	1.623	708.442	0.15%	97.59%
49.0	14.609	1.341	709.783	0.12%	97.77%
50.0	11.774	1.100	710.883	0.10%	97.93%
51.0	9.418	0.897	711.78	0.08%	98.05%
52.0	7.652	0.732	712.512	0.07%	98.15%
53.0	6.112	0.599	713.111	0.05%	98.23%
54.0	5.000	0.490	713.601	0.04%	98.30%
55.0	4.316	0.416	714.017	0.04%	98.36%
56.0	3.914	0.372	714.388	0.03%	98.41%
57.0	3.742	0.350	714.739	0.03%	98.46%
58.0	3.665	0.343	715.081	0.03%	98.50%
59.0	3.625	0.341	715.422	0.03%	98.55%
60.0	3.577	0.340	715.762	0.03%	98.60%
61.0	3.537	0.340	716.102	0.03%	98.65%
62.0	3.493	0.339	716.44	0.03%	98.69%
63.0	3.478	0.339	716.779	0.03%	98.74%
64.0	3.446	0.340	717.119	0.03%	98.79%
65.0	3.402	0.339	717.458	0.03%	98.83%
66.0	3.376	0.338	717.796	0.03%	98.88%
67.0	3.369	0.339	718.135	0.03%	98.93%
68.0	3.347	0.340	718.475	0.03%	98.97%
69.0	3.317	0.340	718.815	0.03%	99.02%
70.0	3.307	0.340	719.156	0.03%	99.07%
71.0	3.299	0.341	719.497	0.03%	99.11%
72.0	3.292	0.343	719.84	0.03%	99.16%
73.0	3.274	0.343	720.183	0.03%	99.21%
74.0	3.266	0.344	720.527	0.03%	99.25%
75.0	3.255	0.345	720.872	0.03%	99.30%

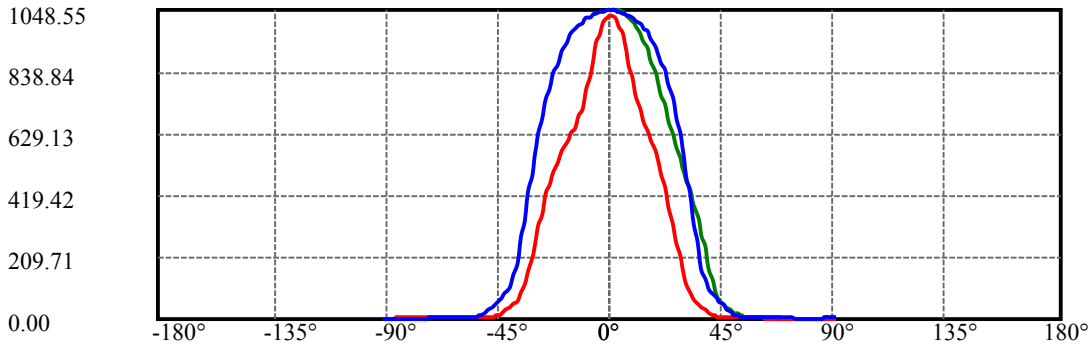
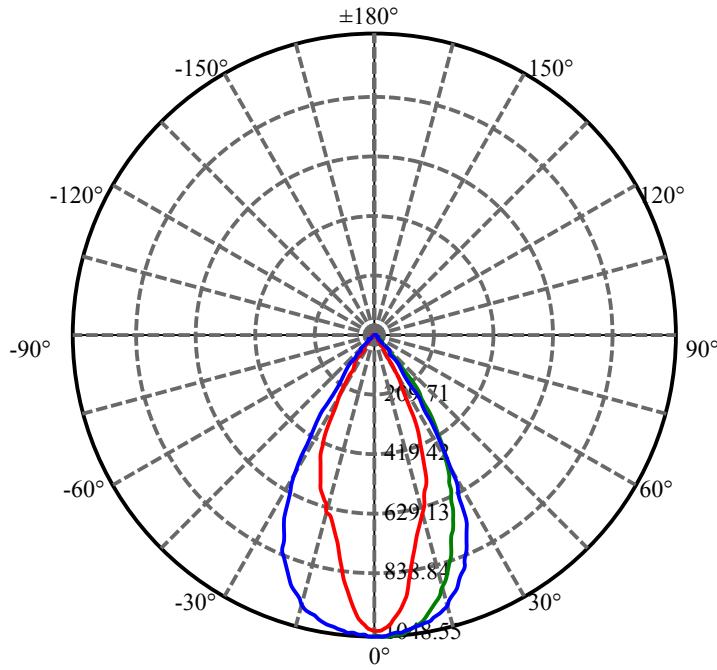
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	3.241	0.345	721.216	0.03%	99.35%
77.0	3.200	0.343	721.56	0.03%	99.40%
78.0	3.164	0.341	721.9	0.03%	99.44%
79.0	3.135	0.338	722.239	0.03%	99.49%
80.0	3.102	0.336	722.575	0.03%	99.54%
81.0	3.069	0.334	722.909	0.03%	99.58%
82.0	3.021	0.330	723.239	0.03%	99.63%
83.0	2.985	0.326	723.565	0.03%	99.67%
84.0	2.959	0.324	723.889	0.03%	99.72%
85.0	2.985	0.324	724.214	0.03%	99.76%
86.0	3.080	0.331	724.545	0.03%	99.81%
87.0	3.168	0.342	724.887	0.03%	99.86%
88.0	3.208	0.349	725.236	0.03%	99.90%
89.0	3.211	0.352	725.588	0.03%	99.95%
90.0	3.157	0.349	725.937	0.03%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	548.36	49.99%	75.54%
0-40	681.90	62.17%	93.93%
0-60	715.76	65.26%	98.60%
0-90	725.59	66.15%	99.95%
0-120	725.59	66.15%	99.95%
0-180	725.94	66.18%	100.00%
60-90	9.83	0.90%	1.35%
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%
0-31.66	580.75	52.95%	80.00%

ZONAL LUMEN SUMMARY

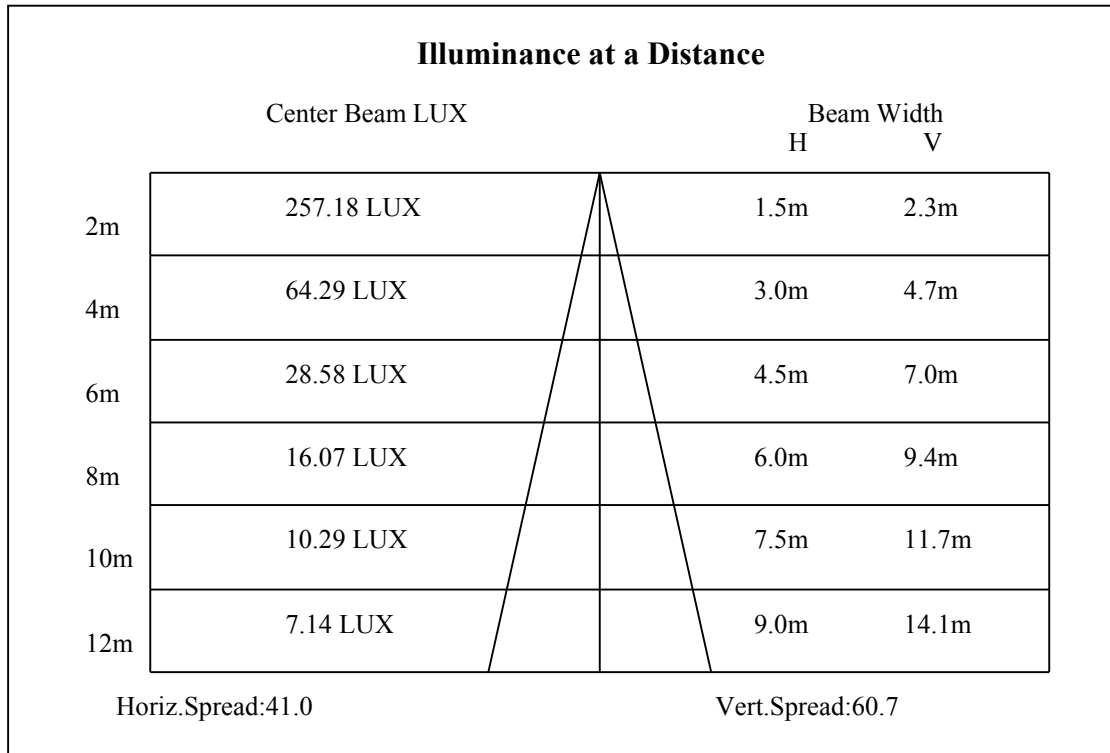
0-10	91.11
10-20	215.32
20-30	241.93
30-40	133.54
40-50	28.98
50-60	4.88
60-70	3.39
70-80	3.42
80-90	3.01
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

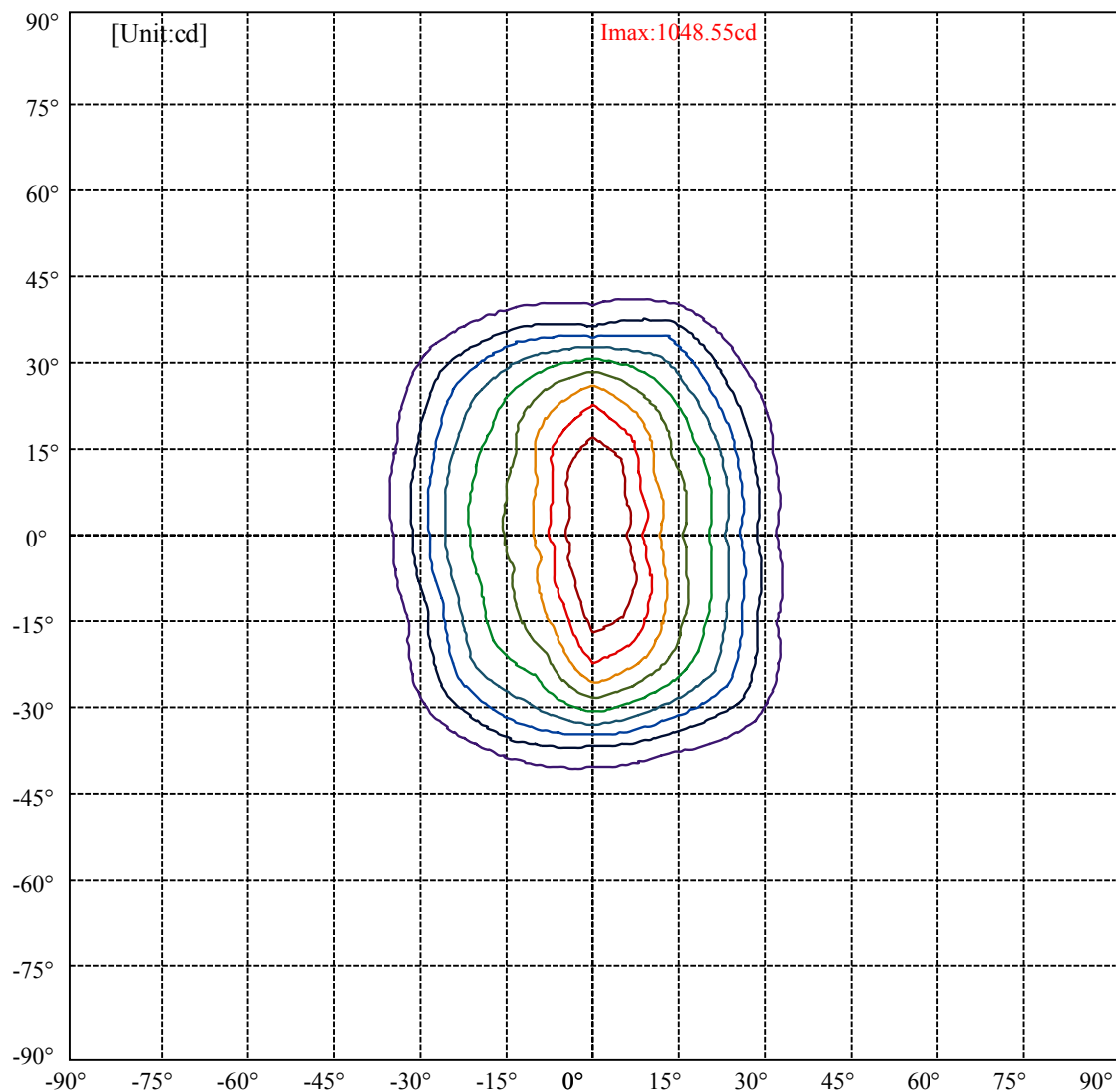


C67.5(Max): ———  
C0/C180: ———  
C90/C270: ———

Field angle(10%Imax):C0/180Left:35.5 Right:30.6  
:C90/270Left:42.1 Right:37.5

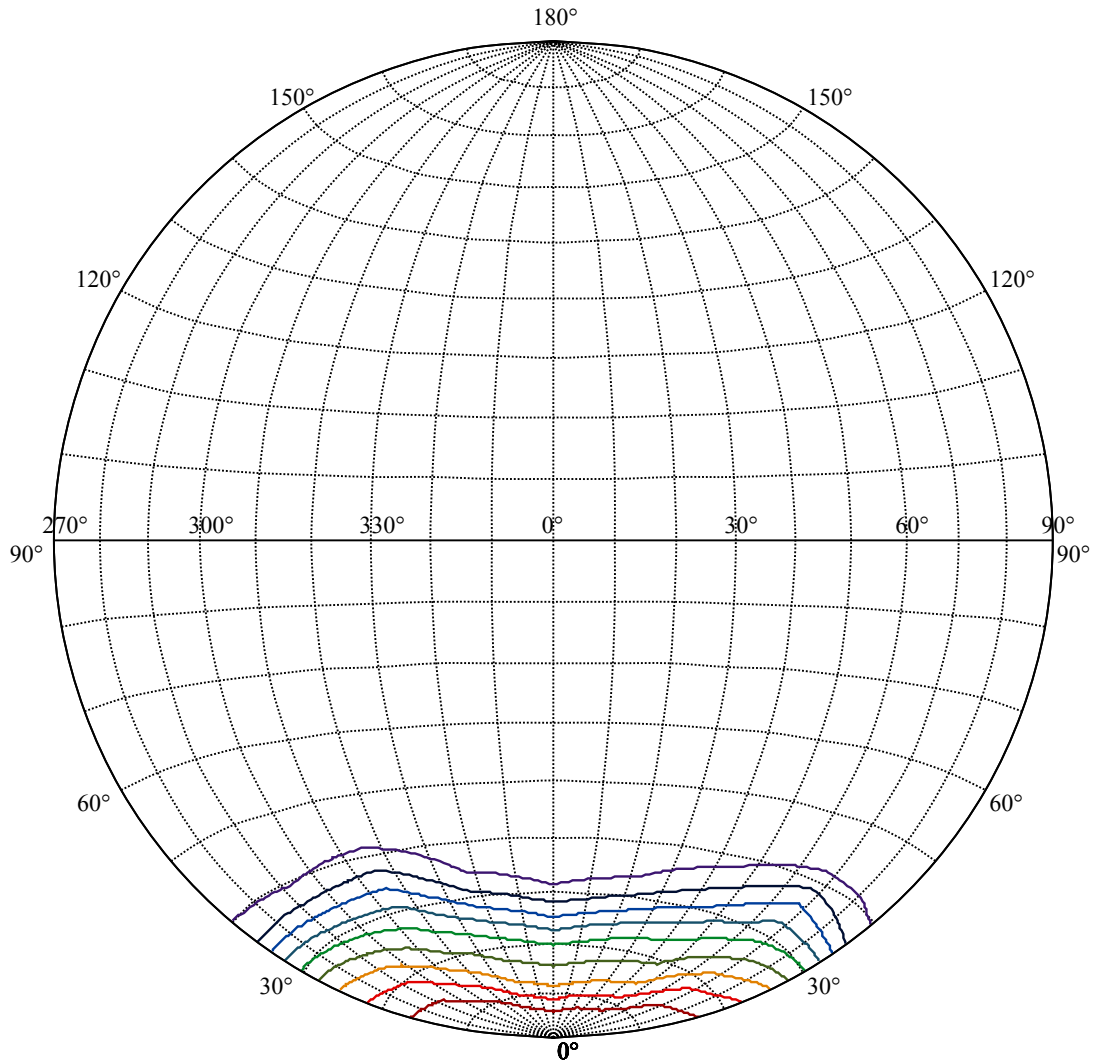
Beam Angle(50%Imax):C0/180Left:22.5 Right:19.2  
:C90/270Left:32.4 Right:28.3





(10%Imax) 104.779	—
(20%Imax) 209.557	—
(30%Imax) 314.336	—
(40%Imax) 419.115	—
(50%Imax) 523.893	—
(60%Imax) 628.672	—
(70%Imax) 733.451	—
(80%Imax) 838.229	—
(90%Imax) 943.008	—





House

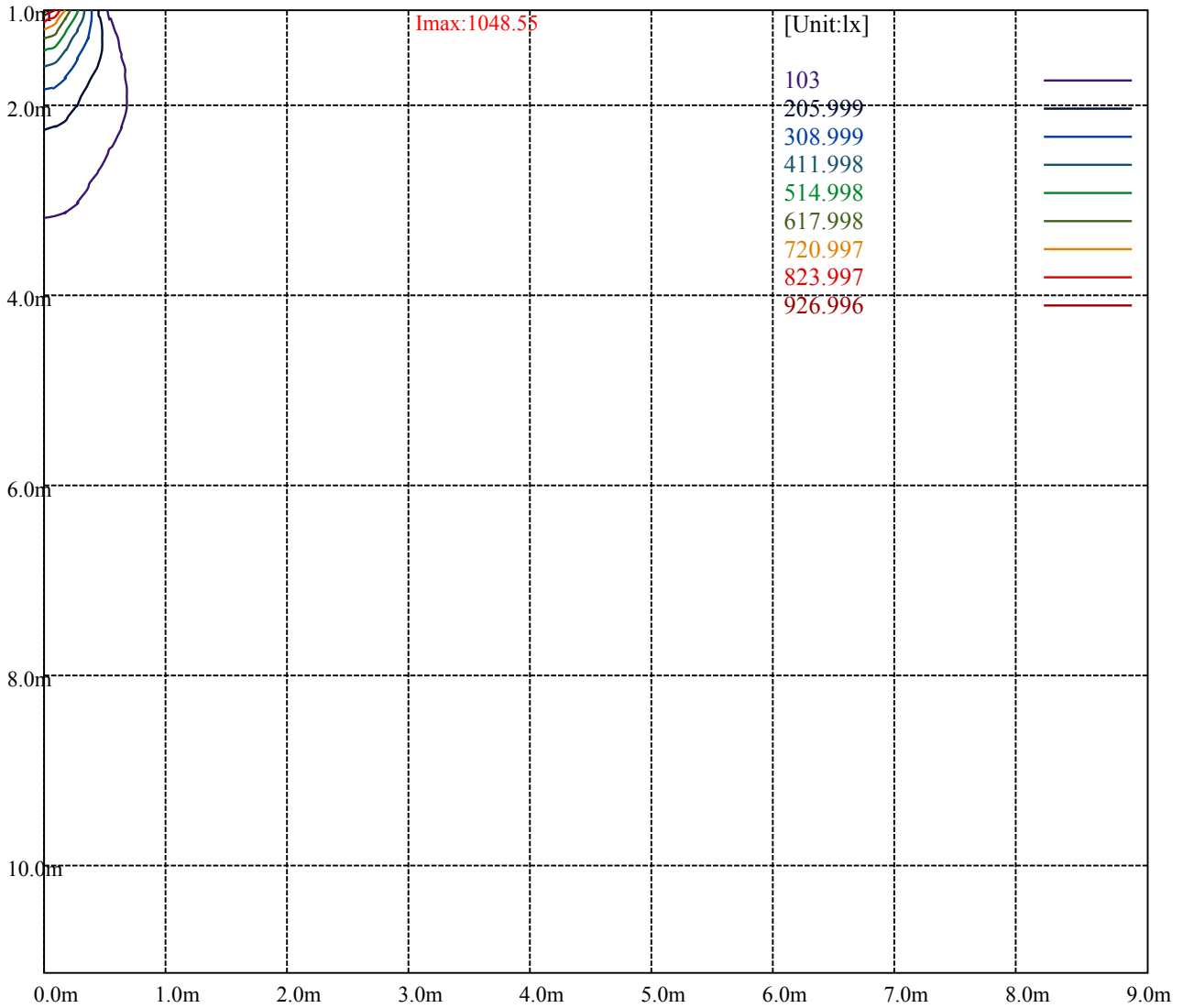
[Unit:cd]

Road

Imax:1048.55

(10%Imax)	104.853	—
(20%Imax)	209.705	—
(30%Imax)	314.558	—
(40%Imax)	419.41	—
(50%Imax)	524.263	—
(60%Imax)	629.115	—
(70%Imax)	733.968	—
(80%Imax)	838.82	—
(90%Imax)	943.673	—





Luminance Table

$\gamma$	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

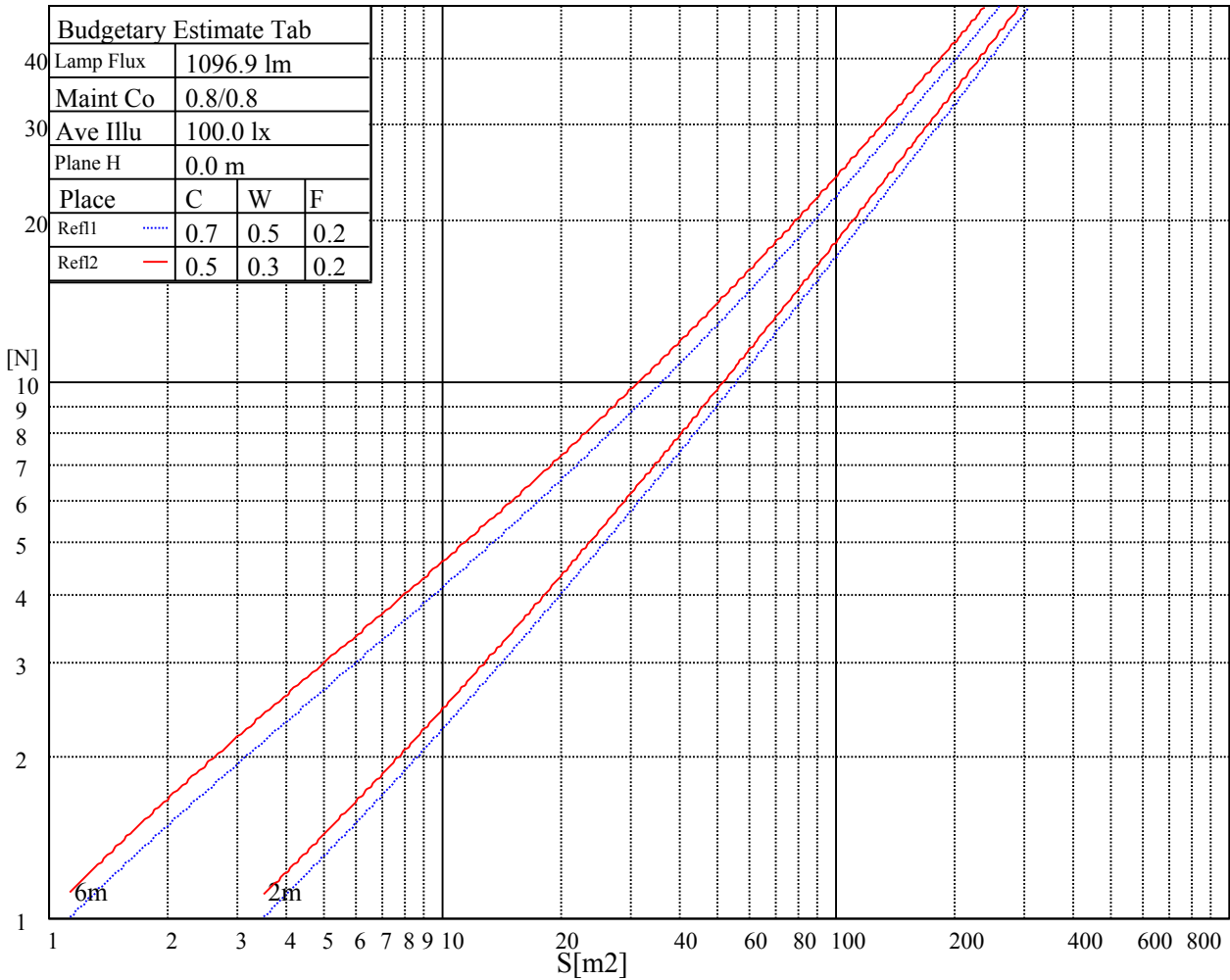
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

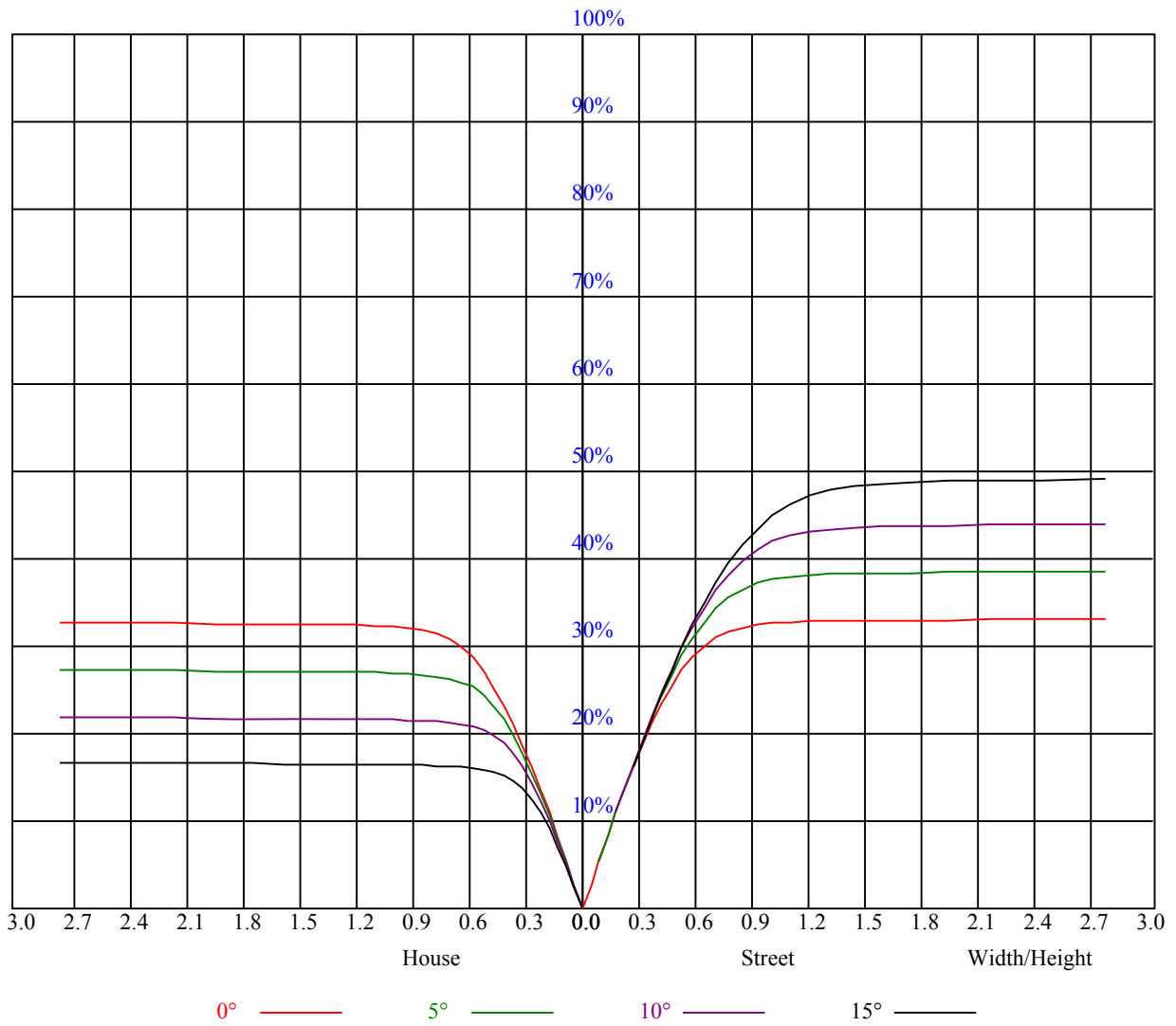
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

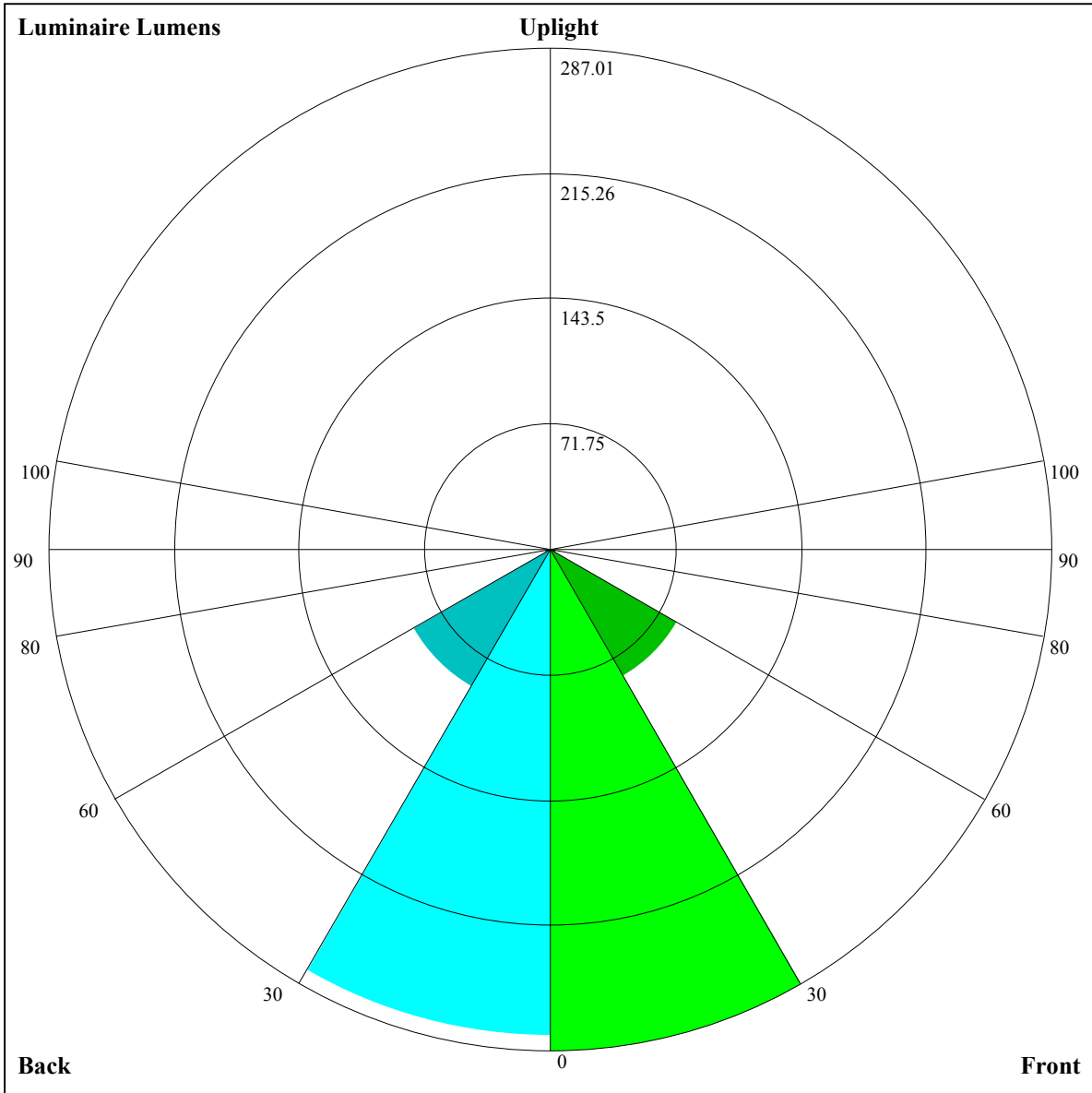
Luminance Limiting Curve





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	0.79	0.79	0.79	0.77	0.77	0.77	0.74	0.74	0.74	0.71	0.71	0.71	0.68	0.68	0.68	0.67
1	0.73	0.72	0.70	0.72	0.70	0.69	0.69	0.68	0.67	0.67	0.66	0.65	0.65	0.64	0.63	0.62
2	0.68	0.66	0.64	0.67	0.65	0.63	0.65	0.63	0.61	0.63	0.62	0.60	0.61	0.60	0.59	0.58
3	0.64	0.61	0.58	0.63	0.60	0.58	0.61	0.59	0.57	0.60	0.58	0.56	0.58	0.57	0.55	0.54
4	0.60	0.56	0.54	0.59	0.56	0.53	0.58	0.55	0.53	0.57	0.54	0.52	0.55	0.53	0.52	0.51
5	0.56	0.53	0.50	0.56	0.52	0.50	0.55	0.52	0.49	0.54	0.51	0.49	0.53	0.50	0.48	0.47
6	0.53	0.49	0.47	0.53	0.49	0.46	0.52	0.48	0.46	0.51	0.48	0.46	0.50	0.47	0.45	0.44
7	0.50	0.46	0.44	0.50	0.46	0.43	0.49	0.46	0.43	0.48	0.45	0.43	0.47	0.45	0.43	0.42
8	0.47	0.44	0.41	0.47	0.43	0.41	0.46	0.43	0.41	0.46	0.43	0.41	0.45	0.42	0.40	0.39
9	0.45	0.41	0.39	0.45	0.41	0.39	0.44	0.41	0.38	0.43	0.40	0.38	0.43	0.40	0.38	0.37
10	0.43	0.39	0.36	0.42	0.39	0.36	0.42	0.39	0.36	0.41	0.38	0.36	0.41	0.38	0.36	0.35





Luminaire Lumens:

FL=287.01,FM=83.5,FH=3.35,FVH=1.66

BL=278.15,BM=91.05,BH=3.46,BVH=1.69

UL=0,UH=0

BUG Rating:B1-U0-G0



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	1028.71	1027.42	1020.22	1009.40	988.85	967.20	940.22	907.68	861.33
22.5	1027.01	1032.16	1031.69	1027.07	1014.78	1000.68	981.89	951.58	922.78
45.0	1036.14	1035.97	1032.75	1025.31	1016.65	1004.54	986.46	968.14	947.36
67.5	1044.28	1047.44	1048.55	1048.08	1046.09	1042.58	1038.13	1030.23	1022.21
90.0	1047.14	1047.79	1046.27	1043.34	1040.88	1038.48	1034.15	1031.46	1028.12
112.5	1042.81	1040.18	1035.91	1031.87	1025.78	1019.52	1012.38	1003.95	992.42
135.0	1036.55	1027.60	1012.56	997.40	978.55	953.04	931.97	907.92	883.51
157.5	1030.64	1021.57	1008.17	984.11	959.48	932.03	900.90	861.69	829.09
180.0	1028.71	1024.03	1008.69	989.38	964.22	934.78	892.59	856.30	818.96
202.5	1027.01	1012.79	994.71	971.53	944.20	904.64	870.11	834.71	790.81
225.0	1036.14	1030.29	1022.04	1010.04	988.97	968.49	944.26	910.90	882.99
247.5	1044.28	1039.59	1031.17	1023.79	1014.25	999.33	984.76	970.13	949.82
270.0	1047.14	1047.20	1044.98	1042.64	1040.94	1038.01	1035.38	1030.93	1025.43
292.5	1042.81	1045.27	1045.74	1045.74	1043.05	1040.18	1036.43	1030.99	1023.38
315.0	1036.55	1041.88	1043.34	1040.94	1035.79	1030.11	1022.10	1012.26	999.51
337.5	1030.64	1032.69	1031.28	1024.38	1014.43	995.70	977.03	952.28	915.53
360.0	1028.71	1027.42	1020.22	1009.40	988.85	967.20	940.22	907.68	861.33
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	821.77	784.61	752.01	715.61	690.74	667.51	641.35	619.40	598.92
22.5	890.01	845.24	809.72	768.28	738.79	711.05	686.41	659.26	638.48
45.0	922.37	886.79	854.84	822.83	792.16	757.81	731.82	701.39	678.80
67.5	1011.44	1000.91	989.26	971.24	953.98	935.77	915.70	887.84	864.26
90.0	1023.79	1017.65	1011.97	1005.42	996.81	985.23	974.17	957.08	941.80
112.5	981.31	970.48	953.92	939.52	920.97	903.76	886.97	866.95	841.67
135.0	852.50	825.46	799.01	772.67	742.77	721.88	702.33	677.98	662.01
157.5	796.90	757.69	729.95	699.34	678.86	662.30	646.97	629.18	615.36
180.0	783.15	740.60	712.75	688.81	665.05	647.73	632.75	613.96	598.80
202.5	756.93	719.94	695.72	675.64	658.79	638.60	623.79	609.34	595.29
225.0	853.67	824.23	787.65	760.21	734.11	709.00	684.60	665.93	649.19
247.5	930.80	910.55	885.33	863.44	841.61	812.41	789.70	765.83	742.42
270.0	1020.22	1014.25	1006.12	999.45	991.72	982.42	968.55	954.68	937.65
292.5	1015.83	1005.36	994.88	984.23	972.23	955.20	939.75	922.72	903.06
315.0	980.43	961.58	939.29	914.36	880.53	849.92	815.51	785.78	756.11
337.5	880.65	835.53	800.53	766.88	736.80	709.82	680.27	659.31	640.06
360.0	821.77	784.61	752.01	715.61	690.74	667.51	641.35	619.40	598.92
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	572.53	549.64	523.54	485.39	449.34	411.18	372.26	325.09	288.52
22.5	617.82	597.81	577.38	549.82	524.83	496.56	454.54	417.91	370.68
45.0	657.97	632.16	612.38	592.60	572.00	547.65	527.93	505.93	482.05
67.5	838.33	813.35	780.16	753.48	727.79	694.43	666.98	632.45	604.48
90.0	926.00	903.94	886.32	866.66	845.65	815.16	787.77	758.33	723.81
112.5	820.19	798.48	776.65	747.27	723.98	700.28	675.35	643.05	615.42
135.0	641.29	624.96	609.28	589.09	573.34	557.13	540.51	524.65	504.52
157.5	601.79	587.39	568.49	552.22	534.19	511.84	493.17	472.86	444.07
180.0	581.42	565.03	545.78	525.65	500.78	480.29	456.59	429.56	390.23
202.5	576.62	561.00	542.50	523.48	499.43	479.01	450.33	423.94	394.27
225.0	630.29	615.36	596.11	580.54	566.32	552.69	534.19	518.10	500.89
247.5	713.04	690.10	666.86	643.92	615.95	594.71	573.34	546.83	525.82
270.0	921.50	905.23	881.82	860.11	838.28	813.93	779.58	748.74	715.26
292.5	876.90	854.84	825.11	799.48	772.73	736.86	705.37	672.42	630.11
315.0	723.51	699.64	675.99	646.26	623.85	603.43	582.77	555.20	534.54
337.5	621.04	596.23	576.56	556.55	527.81	502.42	465.37	432.60	397.84
360.0	572.53	549.64	523.54	485.39	449.34	411.18	372.26	325.09	288.52

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	252.76	218.00	176.33	145.31	118.57	92.64	77.60	63.20	54.07
22.5	332.47	295.89	252.93	220.04	187.74	157.02	123.13	101.36	84.27
45.0	447.87	416.39	384.96	345.28	312.92	273.65	243.51	214.78	179.72
67.5	576.86	549.94	517.28	492.00	467.30	442.02	409.77	383.03	354.06
90.0	675.00	631.87	586.40	539.52	479.53	430.90	368.17	316.02	263.47
112.5	588.03	552.22	524.89	497.15	461.86	433.01	395.03	362.43	326.73
135.0	487.38	469.82	451.74	427.62	406.73	378.93	355.41	329.95	296.24
157.5	417.91	388.06	347.16	313.04	279.39	247.08	209.39	180.83	153.27
180.0	354.88	318.19	281.84	239.06	207.17	168.90	140.45	114.35	88.49
202.5	352.07	316.02	280.32	238.42	207.46	177.26	148.76	116.87	95.27
225.0	482.40	459.52	439.33	416.33	390.11	359.09	328.49	289.51	261.24
247.5	500.43	479.71	459.46	438.10	411.59	387.89	362.08	334.22	296.36
270.0	679.39	630.29	588.39	545.31	490.65	445.53	398.07	333.87	282.55
292.5	594.94	559.12	523.02	477.31	440.38	402.81	364.19	313.80	271.08
315.0	513.07	492.47	465.90	442.96	418.32	384.96	356.69	319.59	290.33
337.5	353.36	317.95	282.61	248.90	208.34	177.03	147.71	121.96	95.86
360.0	252.76	218.00	176.33	145.31	118.57	92.64	77.60	63.20	54.07
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	46.17	37.75	31.13	25.69	20.83	15.39	11.82	9.07	7.20
22.5	70.81	57.82	49.22	41.67	33.47	27.92	22.94	17.44	13.40
45.0	153.68	128.98	106.45	87.14	68.41	56.71	47.11	39.21	31.13
67.5	323.10	281.84	245.79	198.27	161.52	129.45	97.32	78.48	64.49
90.0	204.13	165.68	135.89	114.41	95.98	85.21	76.31	68.47	59.22
112.5	288.11	237.07	196.05	159.30	129.57	102.71	87.43	75.90	64.67
135.0	268.62	240.12	203.42	174.40	147.13	121.73	92.99	72.92	56.71
157.5	121.26	99.14	80.94	66.42	53.14	45.06	36.87	31.25	26.28
180.0	72.68	60.51	51.27	42.43	36.23	30.96	25.69	19.66	15.39
202.5	77.95	64.61	52.26	44.48	37.86	30.78	25.75	19.84	15.57
225.0	228.76	196.28	168.37	145.84	121.14	95.04	76.31	61.39	49.22
247.5	263.23	227.65	190.55	147.18	117.75	90.07	74.38	62.74	51.85
270.0	221.16	179.78	147.48	123.78	103.06	91.12	81.46	73.04	64.90
292.5	227.77	177.62	144.43	112.89	94.81	81.35	70.81	60.04	52.44
315.0	260.66	230.99	195.29	167.78	141.92	117.28	89.13	69.82	54.25
337.5	79.65	67.13	55.01	46.76	39.56	31.60	26.22	20.19	16.15
360.0	46.17	37.75	31.13	25.69	20.83	15.39	11.82	9.07	7.20
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	5.74	4.56	3.98	3.80	3.75	3.75	3.75	3.75	3.69
22.5	10.07	6.91	5.50	4.45	4.04	3.86	3.75	3.69	3.63
45.0	25.75	20.01	16.27	13.05	9.48	7.32	5.85	4.68	4.16
67.5	52.14	44.24	37.75	32.30	26.51	22.18	18.20	14.63	11.06
90.0	51.91	44.54	35.11	27.97	21.30	14.81	11.47	8.54	5.79
112.5	57.24	50.27	42.19	36.28	30.78	25.63	19.43	15.10	11.94
135.0	44.18	32.95	26.74	22.00	17.56	14.69	11.65	9.66	7.84
157.5	20.83	16.85	13.11	9.54	5.85	4.10	3.86	3.75	3.69
180.0	11.47	7.43	5.15	4.56	4.16	3.92	3.86	3.80	3.69
202.5	11.59	8.13	4.74	3.92	3.86	3.75	3.69	3.69	3.63
225.0	37.92	31.25	26.04	20.42	16.62	13.40	10.01	7.67	5.56
247.5	44.77	38.86	33.59	27.56	23.12	18.84	14.92	10.77	8.31
270.0	55.19	47.52	38.10	30.72	23.76	17.91	12.70	9.89	6.50
292.5	45.59	39.27	31.89	26.45	21.42	15.86	12.23	9.42	6.79
315.0	42.60	32.36	26.51	20.95	17.44	14.57	11.70	9.71	7.90
337.5	12.35	9.19	6.73	4.92	4.10	3.80	3.63	3.69	3.63
360.0	5.74	4.56	3.98	3.80	3.75	3.75	3.75	3.75	3.69

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	3.69	3.63	3.63	3.57	3.63	3.51	3.39	3.28	3.22
22.5	3.57	3.57	3.51	3.45	3.39	3.39	3.34	3.28	3.28
45.0	3.86	3.80	3.69	3.69	3.63	3.57	3.51	3.45	3.39
67.5	8.60	6.85	5.21	4.21	3.69	3.57	3.57	3.45	3.39
90.0	4.33	4.04	3.92	3.80	3.80	3.75	3.63	3.63	3.57
112.5	9.07	6.50	4.56	3.92	3.80	3.75	3.69	3.63	3.57
135.0	6.26	4.80	4.04	3.80	3.75	3.80	3.80	3.80	3.86
157.5	3.63	3.57	3.51	3.63	3.69	3.63	3.63	3.63	3.57
180.0	3.57	3.45	3.45	3.39	3.39	3.39	3.39	3.39	3.34
202.5	3.51	3.51	3.45	3.45	3.39	3.39	3.39	3.34	3.34
225.0	4.33	3.98	3.92	3.92	3.86	3.86	3.80	3.75	3.69
247.5	6.50	4.86	4.04	3.75	3.69	3.63	3.57	3.57	3.51
270.0	4.68	4.10	3.98	3.92	3.86	3.80	3.75	3.63	3.57
292.5	4.86	3.98	3.80	3.75	3.63	3.57	3.51	3.51	3.45
315.0	5.97	4.86	4.21	3.86	3.69	3.69	3.63	3.63	3.63
337.5	3.57	3.57	3.69	3.75	3.75	3.69	3.63	3.63	3.51
360.0	3.69	3.63	3.63	3.57	3.63	3.51	3.39	3.28	3.22
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.22	3.16	3.16	3.16	3.16	3.16	3.16	3.10	3.16
22.5	3.22	3.22	3.22	3.28	3.28	3.28	3.28	3.22	3.22
45.0	3.34	3.34	3.28	3.28	3.28	3.22	3.22	3.22	3.22
67.5	3.39	3.39	3.34	3.28	3.28	3.28	3.22	3.22	3.22
90.0	3.57	3.51	3.51	3.45	3.45	3.39	3.39	3.39	3.34
112.5	3.57	3.51	3.51	3.45	3.45	3.45	3.39	3.39	3.34
135.0	3.80	3.69	3.51	3.45	3.39	3.39	3.34	3.34	3.34
157.5	3.57	3.57	3.51	3.51	3.45	3.45	3.39	3.39	3.39
180.0	3.34	3.39	3.34	3.34	3.39	3.39	3.39	3.45	3.45
202.5	3.39	3.39	3.45	3.45	3.51	3.45	3.45	3.45	3.45
225.0	3.57	3.57	3.51	3.45	3.39	3.39	3.34	3.28	3.28
247.5	3.51	3.45	3.39	3.34	3.34	3.28	3.28	3.28	3.28
270.0	3.57	3.51	3.45	3.39	3.39	3.39	3.34	3.28	3.28
292.5	3.45	3.39	3.39	3.34	3.34	3.28	3.28	3.28	3.28
315.0	3.63	3.57	3.45	3.45	3.39	3.34	3.28	3.28	3.22
337.5	3.51	3.45	3.39	3.39	3.39	3.39	3.34	3.34	3.34
360.0	3.22	3.16	3.16	3.16	3.16	3.16	3.16	3.10	3.16
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	3.16	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10
22.5	3.22	3.16	3.16	3.16	3.16	3.16	3.10	3.10	3.10
45.0	3.22	3.22	3.22	3.28	3.34	3.28	3.22	3.16	3.04
67.5	3.22	3.16	3.22	3.16	3.16	3.04	3.04	3.04	2.98
90.0	3.28	3.28	3.22	3.10	3.04	2.93	2.87	2.87	2.81
112.5	3.34	3.28	3.28	3.28	3.22	3.10	3.04	3.04	2.98
135.0	3.34	3.34	3.28	3.34	3.34	3.28	3.22	3.16	3.04
157.5	3.34	3.34	3.34	3.28	3.28	3.22	3.22	3.16	3.22
180.0	3.51	3.57	3.63	3.63	3.63	3.69	3.69	3.75	3.75
202.5	3.45	3.45	3.45	3.51	3.45	3.51	3.51	3.51	3.57
225.0	3.28	3.22	3.22	3.22	3.16	3.16	3.10	3.10	3.04
247.5	3.22	3.28	3.22	3.22	3.22	3.16	3.16	3.04	2.98
270.0	3.28	3.22	3.22	3.16	3.10	3.04	2.93	2.87	2.81
292.5	3.28	3.28	3.28	3.22	3.22	3.16	3.04	2.98	2.93
315.0	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.16	3.16
337.5	3.34	3.28	3.22	3.22	3.22	3.16	3.16	3.10	3.10
360.0	3.16	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10

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	3.10	3.10	3.10	3.04	3.04	2.98	2.93	2.93	2.93
22.5	3.10	3.10	3.04	3.04	3.04	3.04	2.98	3.10	3.16
45.0	2.98	2.93	2.93	2.98	3.10	3.34	3.51	3.57	3.51
67.5	2.93	2.93	2.87	2.87	2.98	3.28	3.57	3.63	3.63
90.0	2.81	2.75	2.75	2.87	3.16	3.57	3.57	3.63	3.51
112.5	2.98	2.93	2.87	2.81	2.81	2.98	3.51	3.57	3.57
135.0	3.04	2.98	2.98	2.93	2.93	3.22	3.57	3.57	3.51
157.5	3.10	3.10	3.10	3.04	3.04	3.10	3.04	3.28	3.39
180.0	3.75	3.69	3.51	3.39	3.28	3.16	3.10	2.93	2.93
202.5	3.51	3.28	3.16	3.10	3.04	3.04	2.98	2.93	3.04
225.0	3.04	2.98	2.98	2.98	2.93	2.98	2.98	3.04	3.10
247.5	2.98	2.87	2.87	2.81	2.87	2.93	2.98	3.04	2.98
270.0	2.81	2.81	2.81	2.75	2.75	2.87	3.04	3.04	3.04
292.5	2.87	2.87	2.81	2.81	2.87	2.87	2.98	2.98	2.98
315.0	3.04	2.98	2.93	2.93	2.93	2.93	2.93	3.04	3.04
337.5	3.04	3.04	3.04	2.98	2.98	2.98	2.98	3.04	3.04
360.0	3.10	3.10	3.10	3.04	3.04	2.98	2.93	2.93	2.93
C/γ(°)	90.0								
0.0	2.93								
22.5	3.22								
45.0	3.45								
67.5	3.45								
90.0	3.39								
112.5	3.45								
135.0	3.45								
157.5	3.34								
180.0	2.93								
202.5	2.98								
225.0	3.04								
247.5	2.93								
270.0	2.98								
292.5	2.93								
315.0	2.98								
337.5	3.04								
360.0	2.93								