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NT

Client:

LumCAT: 2-2682-L 铝反光罩

Luminaire: GH36D-B40 Hodel

Report No: 2024419-B010

Ballast type: AC

Test No: 2024419-C010

Voltage(V): 32.980

LampCAT: LUMINUS CXM-14-AC40

Current(A): 0.420

Lamp flux(lm): 2356.0

Power (W): 13.851

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2020.29, Efficiency(%): 85.75% , Luminous Efficacy(lm/W): 145.86

Central intensity(cd): 6989.108, Maximum intensity(cd): 6989.108

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=23.4

[C90/270]Total=23.4

Field angle(10%Imax): [C0/180]Total=58.0

[C90/270]Total=58.0

Maximum s/h(1/2): C0_180=0.39 C90_270=0.39

Maximum s/h(1/4): C0_180=0.45 C90_270=0.45

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.75%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.936%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/19
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

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Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6989.108	0.000	0	0.00%	0.00%
1.0	6931.463	6.661	6.661	0.28%	0.33%
2.0	6800.885	19.710	26.371	0.84%	1.31%
3.0	6575.281	31.991	58.362	1.36%	2.89%
4.0	6315.953	43.151	101.513	1.83%	5.02%
5.0	5953.187	52.781	154.294	2.24%	7.64%
6.0	5584.861	60.636	214.93	2.57%	10.64%
7.0	5197.295	66.925	281.855	2.84%	13.95%
8.0	4794.953	71.513	353.367	3.04%	17.49%
9.0	4405.779	74.567	427.934	3.16%	21.18%
10.0	4039.501	76.427	504.361	3.24%	24.96%
11.0	3723.479	77.568	581.929	3.29%	28.80%
12.0	3380.391	77.655	659.584	3.30%	32.65%
13.0	3078.196	76.647	736.232	3.25%	36.44%
14.0	2807.383	75.335	811.566	3.20%	40.17%
15.0	2558.004	73.658	885.225	3.13%	43.82%
16.0	2350.322	71.921	957.146	3.05%	47.38%
17.0	2134.081	69.834	1026.98	2.96%	50.83%
18.0	1957.782	67.466	1094.446	2.86%	54.17%
19.0	1806.063	65.483	1159.929	2.78%	57.41%
20.0	1666.779	63.563	1223.492	2.70%	60.56%
21.0	1533.494	61.452	1284.943	2.61%	63.60%
22.0	1389.588	58.741	1343.684	2.49%	66.51%
23.0	1289.843	56.222	1399.906	2.39%	69.29%
24.0	1178.592	53.969	1453.875	2.29%	71.96%
25.0	1092.871	51.648	1505.523	2.19%	74.52%
26.0	997.355	49.340	1554.863	2.09%	76.96%
27.0	896.974	46.345	1601.208	1.97%	79.26%
28.0	802.161	43.018	1644.226	1.83%	81.39%
29.0	697.252	39.229	1683.455	1.67%	83.33%
30.0	605.232	35.167	1718.622	1.49%	85.07%
31.0	513.967	31.146	1749.768	1.32%	86.61%
32.0	437.024	27.245	1777.012	1.16%	87.96%
33.0	367.163	23.692	1800.704	1.01%	89.13%
34.0	311.625	20.542	1821.246	0.87%	90.15%
35.0	277.038	18.282	1839.528	0.78%	91.05%
36.0	233.519	16.256	1855.784	0.69%	91.86%
37.0	201.844	14.199	1869.983	0.60%	92.56%

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Zonal flux distribution table

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	160.140	12.083	1882.066	0.51%	93.16%
39.0	135.750	10.100	1892.165	0.43%	93.66%
40.0	116.533	8.799	1900.964	0.37%	94.09%
41.0	98.947	7.673	1908.637	0.33%	94.47%
42.0	84.324	6.659	1915.296	0.28%	94.80%
43.0	72.948	5.826	1921.122	0.25%	95.09%
44.0	63.950	5.167	1926.288	0.22%	95.35%
45.0	56.152	4.616	1930.904	0.20%	95.58%
46.0	50.059	4.154	1935.058	0.18%	95.78%
47.0	45.538	3.802	1938.86	0.16%	95.97%
48.0	41.961	3.537	1942.397	0.15%	96.14%
49.0	39.569	3.348	1945.745	0.14%	96.31%
50.0	37.440	3.211	1948.956	0.14%	96.47%
51.0	35.984	3.106	1952.062	0.13%	96.62%
52.0	35.055	3.048	1955.111	0.13%	96.77%
53.0	34.375	3.020	1958.131	0.13%	96.92%
54.0	33.782	3.004	1961.135	0.13%	97.07%
55.0	33.351	2.997	1964.132	0.13%	97.22%
56.0	32.912	2.994	1967.126	0.13%	97.37%
57.0	32.231	2.978	1970.104	0.13%	97.52%
58.0	31.149	2.931	1973.035	0.12%	97.66%
59.0	29.605	2.840	1975.875	0.12%	97.80%
60.0	27.762	2.710	1978.586	0.12%	97.94%
61.0	25.677	2.550	1981.136	0.11%	98.06%
62.0	23.431	2.366	1983.502	0.10%	98.18%
63.0	21.412	2.181	1985.683	0.09%	98.29%
64.0	19.305	1.998	1987.681	0.08%	98.39%
65.0	17.805	1.837	1989.518	0.08%	98.48%
66.0	16.540	1.714	1991.231	0.07%	98.56%
67.0	15.647	1.618	1992.85	0.07%	98.64%
68.0	14.901	1.547	1994.397	0.07%	98.72%
69.0	14.316	1.491	1995.888	0.06%	98.79%
70.0	13.833	1.446	1997.333	0.06%	98.86%
71.0	13.372	1.406	1998.74	0.06%	98.93%
72.0	12.999	1.371	2000.111	0.06%	99.00%
73.0	12.626	1.340	2001.451	0.06%	99.07%
74.0	12.341	1.313	2002.763	0.06%	99.13%
75.0	12.034	1.288	2004.051	0.05%	99.20%

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Zonal flux distribution table

Appendix Page: 4 Total:19

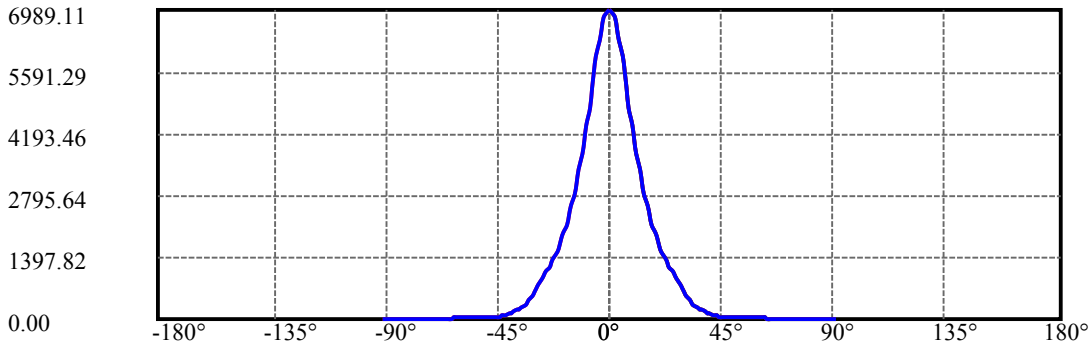
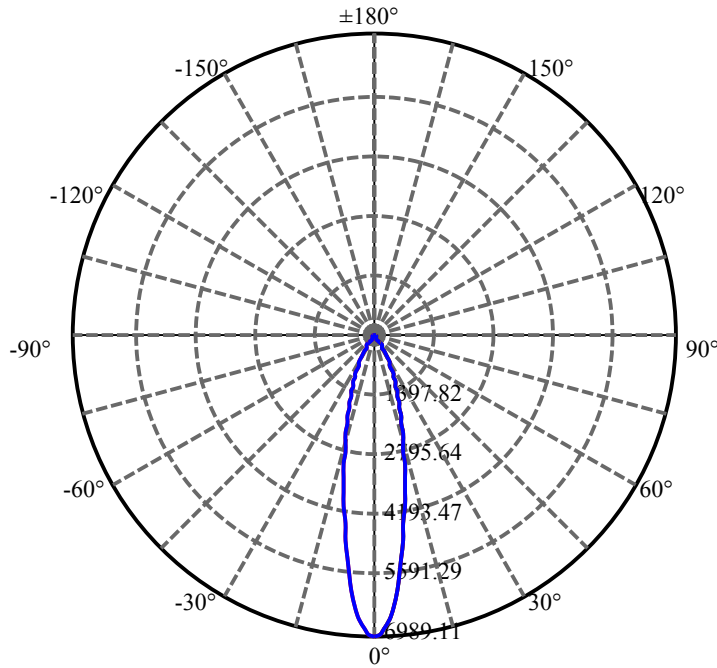
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.741	1.262	2005.313	0.05%	99.26%
77.0	11.485	1.238	2006.552	0.05%	99.32%
78.0	11.200	1.214	2007.766	0.05%	99.38%
79.0	10.900	1.187	2008.953	0.05%	99.44%
80.0	10.593	1.159	2010.112	0.05%	99.50%
81.0	10.300	1.130	2011.242	0.05%	99.55%
82.0	10.007	1.101	2012.343	0.05%	99.61%
83.0	9.715	1.072	2013.415	0.05%	99.66%
84.0	9.459	1.045	2014.46	0.04%	99.71%
85.0	9.217	1.019	2015.479	0.04%	99.76%
86.0	9.020	0.997	2016.476	0.04%	99.81%
87.0	8.844	0.978	2017.454	0.04%	99.86%
88.0	8.669	0.959	2018.413	0.04%	99.91%
89.0	8.515	0.942	2019.355	0.04%	99.95%
90.0	8.478	0.932	2020.287	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1718.62	72.95%	85.07%
0-40	1900.96	80.69%	94.09%
0-60	1978.59	83.98%	97.94%
0-90	2019.35	85.71%	99.95%
0-120	2019.35	85.71%	99.95%
0-180	2020.29	85.75%	100.00%
60-90	40.77	1.73%	2.02%
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%
0-27.35	1616.23	68.60%	80.00%

ZONAL LUMEN SUMMARY

0-10	504.36
10-20	719.13
20-30	495.13
30-40	182.34
40-50	47.99
50-60	29.63
60-70	18.75
70-80	12.78
80-90	9.24
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: —————

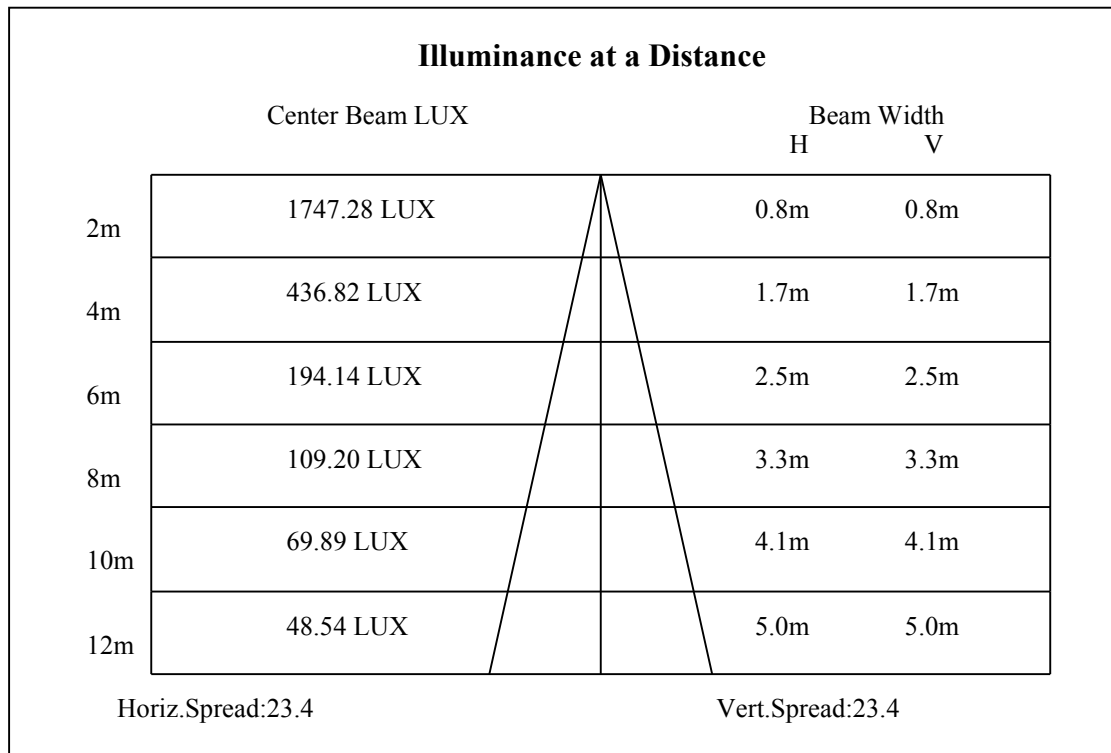
C90/C270: —————

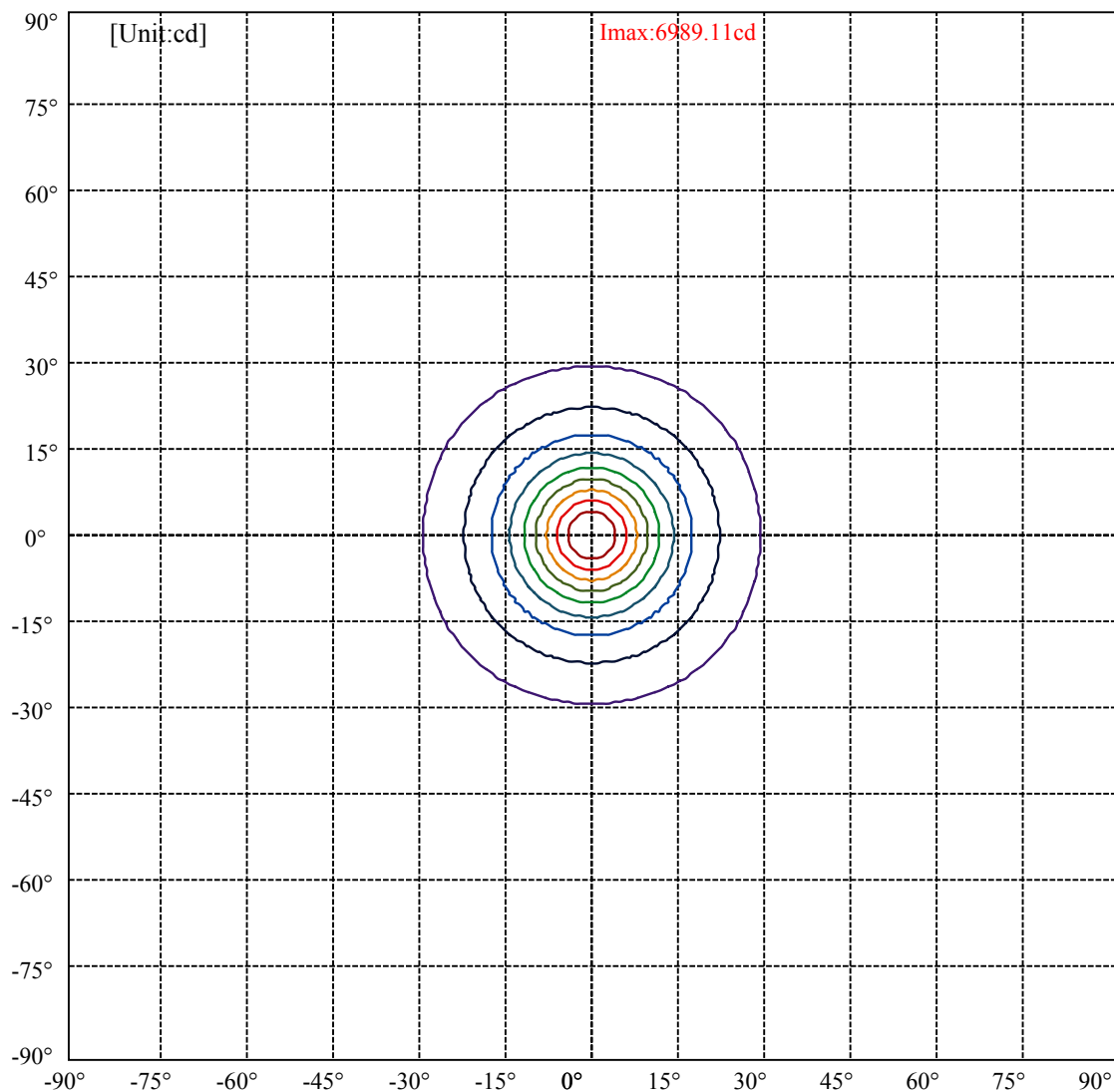
Field angle(10%Imax):C0/180Left:29.0 Right:29.0

:C90/270Left:29.0 Right:29.0

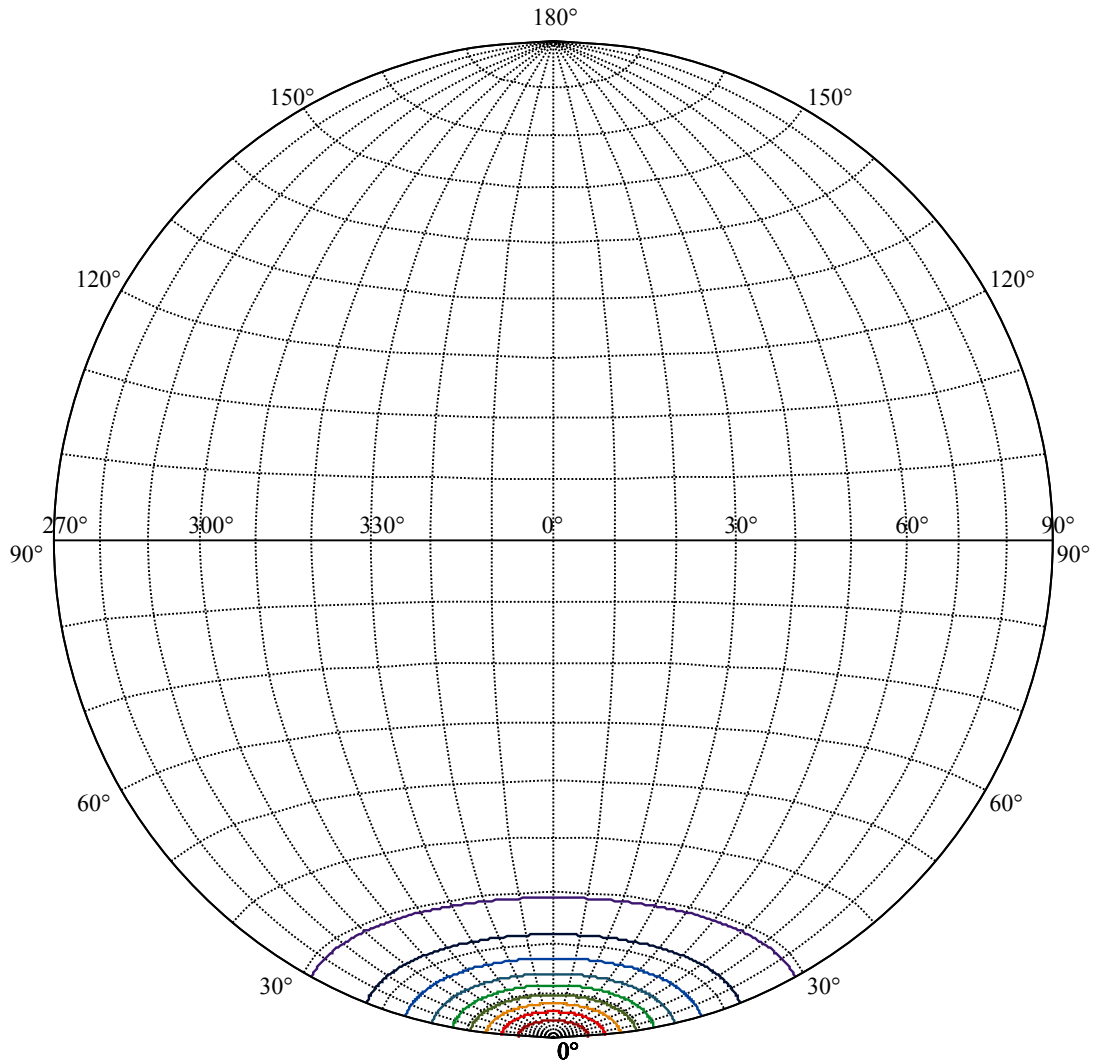
Beam Angle(50%Imax):C0/180Left:11.7 Right:11.7

:C90/270Left:11.7 Right:11.7





(10%Imax) 698.911	—
(20%Imax) 1397.82	—
(30%Imax) 2096.73	—
(40%Imax) 2795.64	—
(50%Imax) 3494.55	—
(60%Imax) 4193.46	—
(70%Imax) 4892.38	—
(80%Imax) 5591.29	—
(90%Imax) 6290.2	—



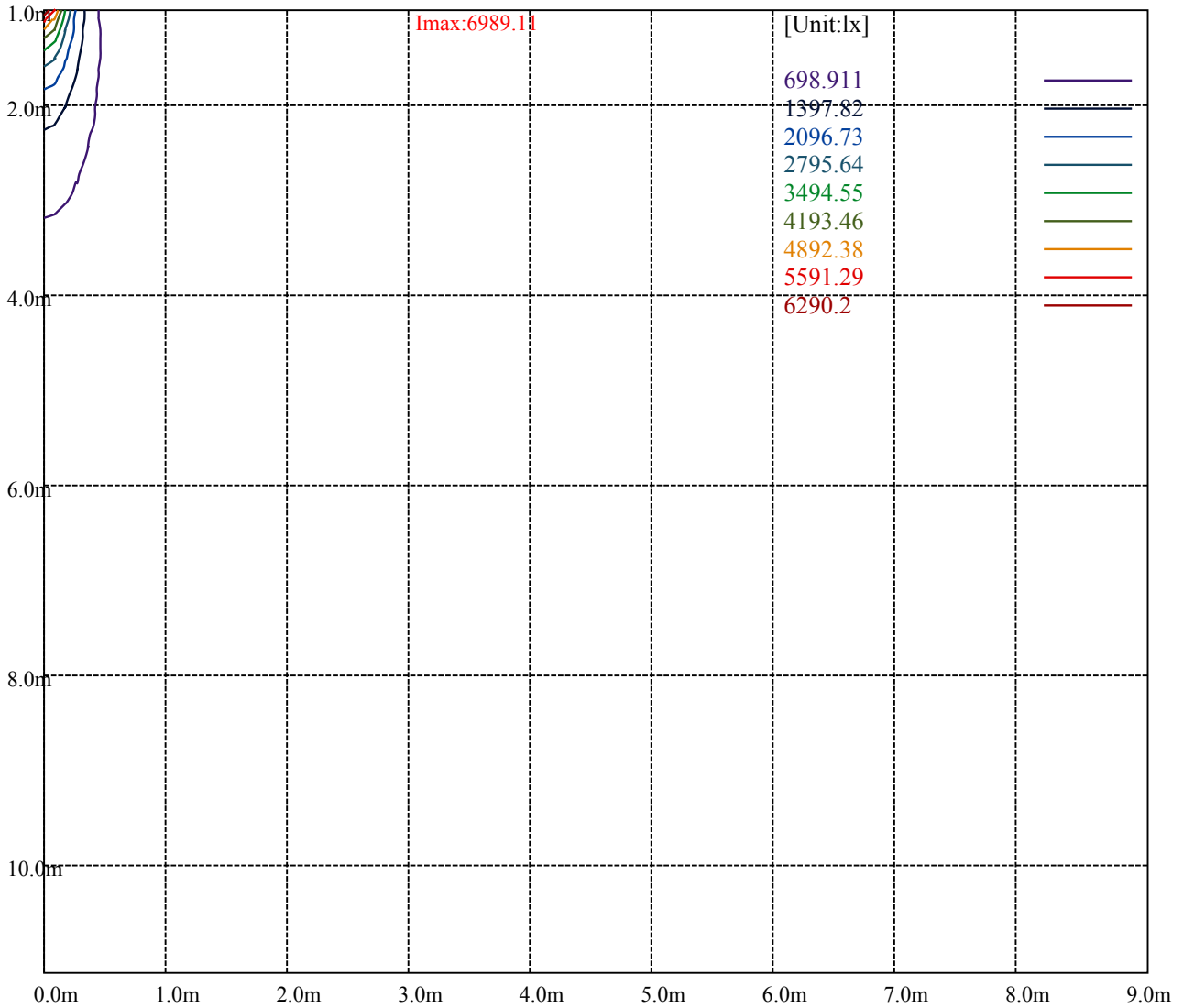
House

[Unit:cd]

Road

I_{max}:6989.11

(10%I _{max})	698.911	—
(20%I _{max})	1397.82	—
(30%I _{max})	2096.73	—
(40%I _{max})	2795.64	—
(50%I _{max})	3494.55	—
(60%I _{max})	4193.46	—
(70%I _{max})	4892.38	—
(80%I _{max})	5591.29	—
(90%I _{max})	6290.2	—



NT 2-2682-L 铝反光罩

Luminance Limiting Curve(no luminous side)

Luminance Table

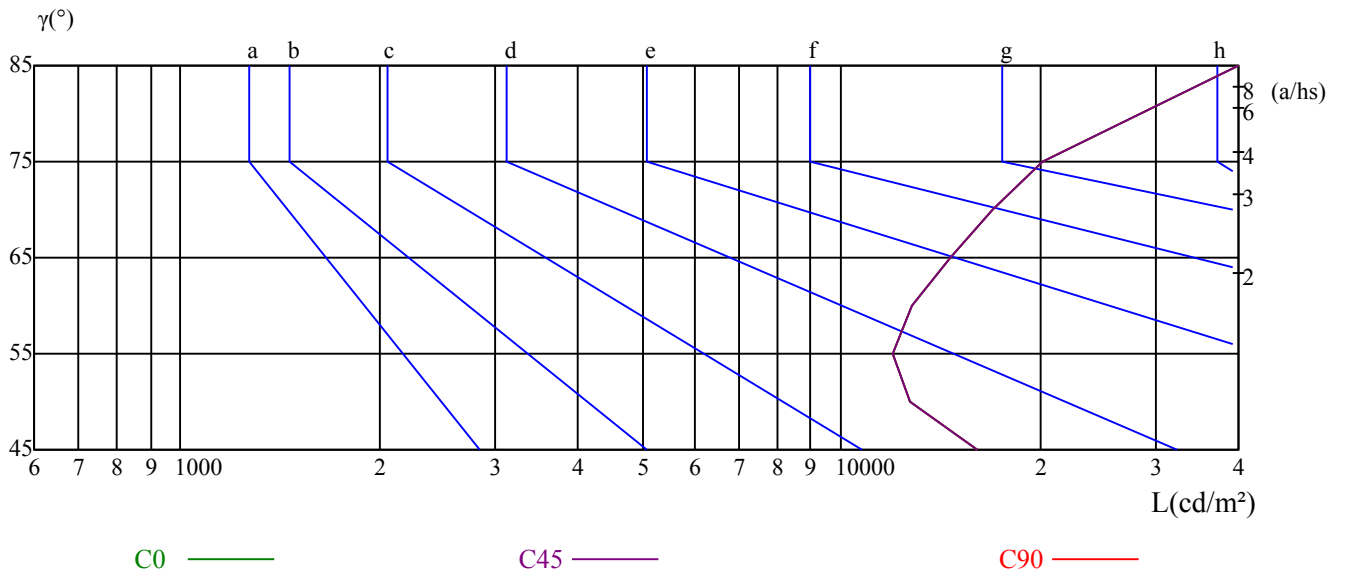
γ	45	50	55	60	65	70	75	80	85
C0	16110	12707	11994	12838	14615	16996	20243	28497	54367
C45	16110	12707	11994	12838	14615	16996	20243	28497	54367
C90	16110	12707	11994	12838	14615	16996	20243	28497	54367

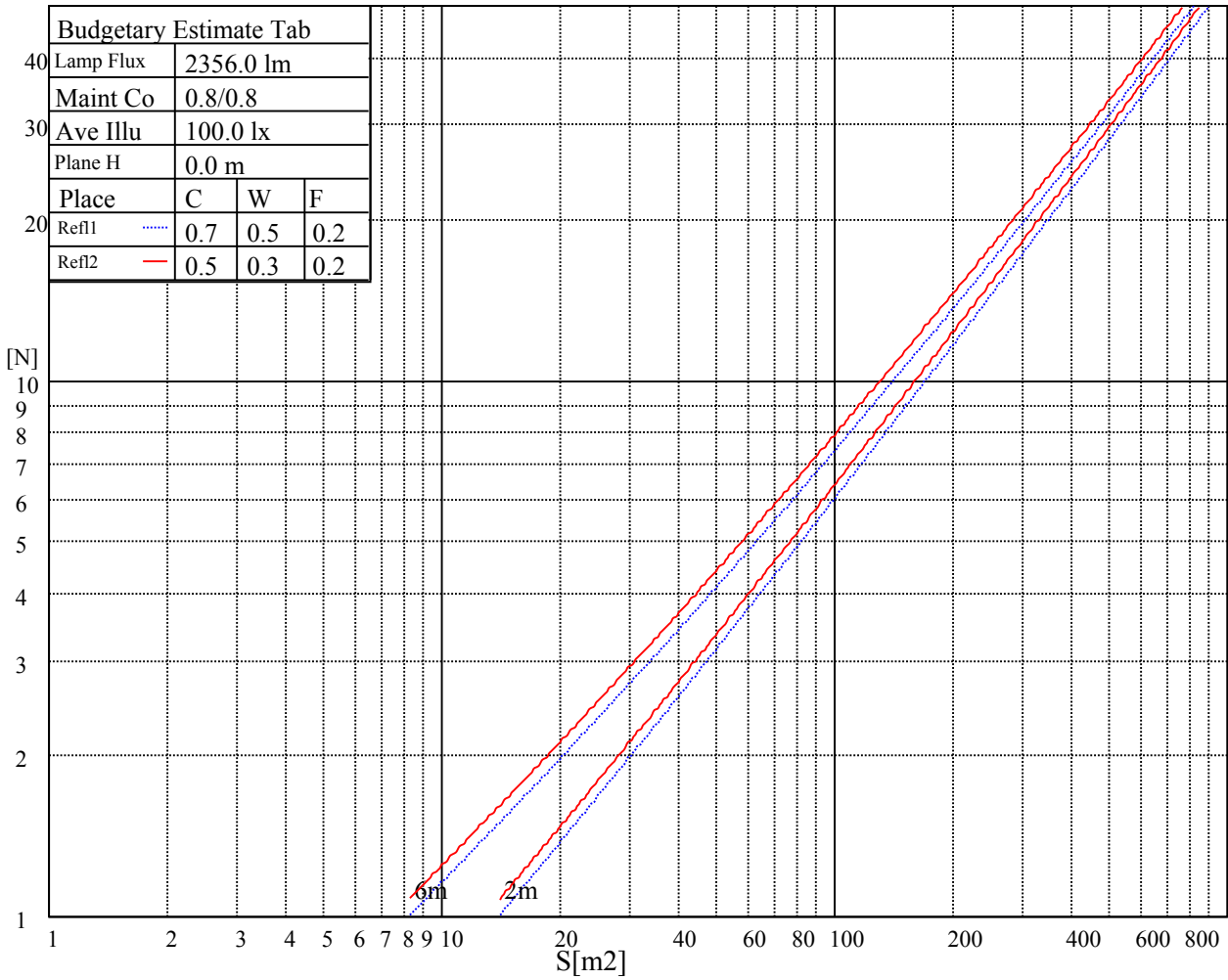
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14615	14615	14615	20243	20243	20243	54367	54367	54367

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



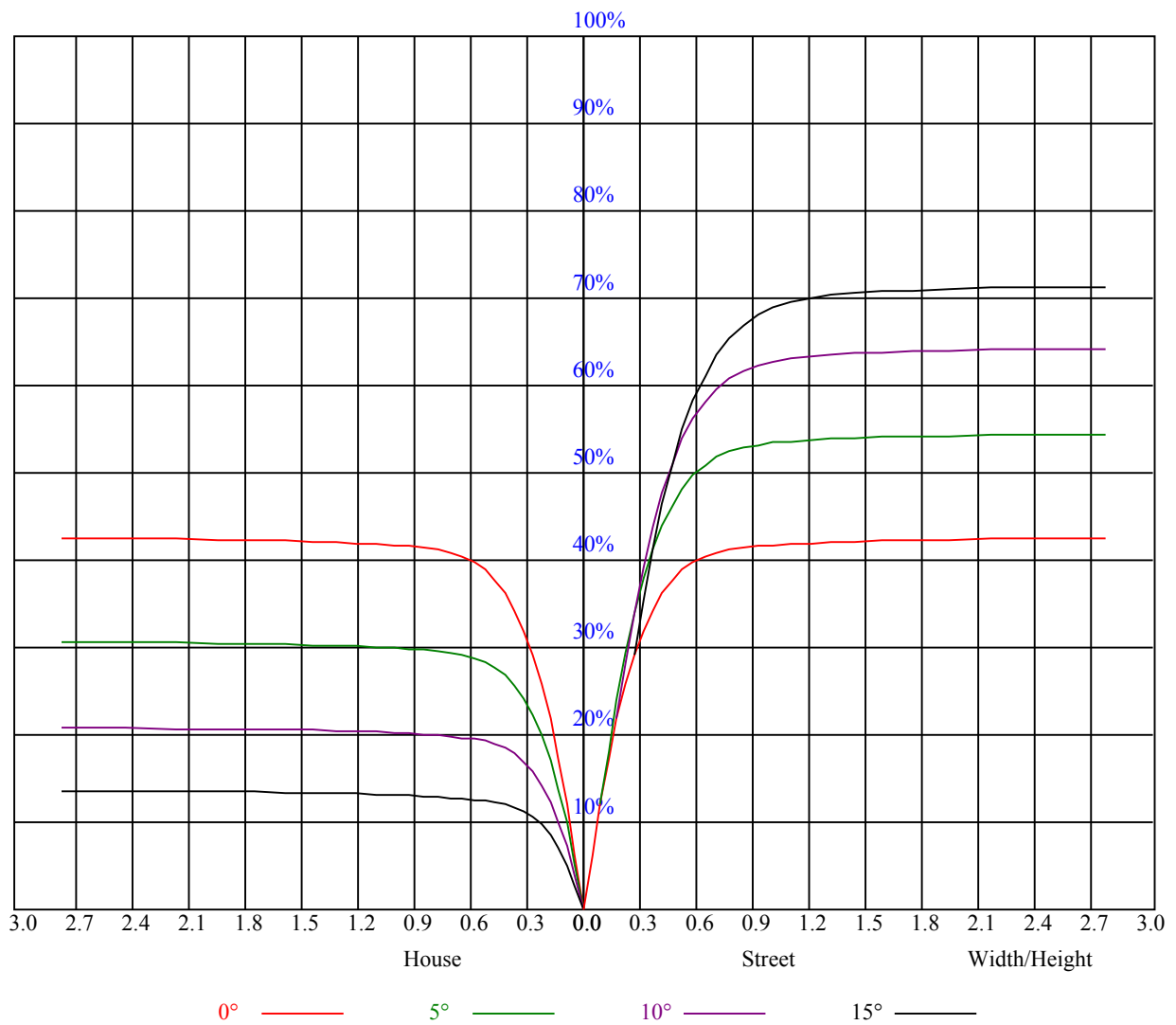


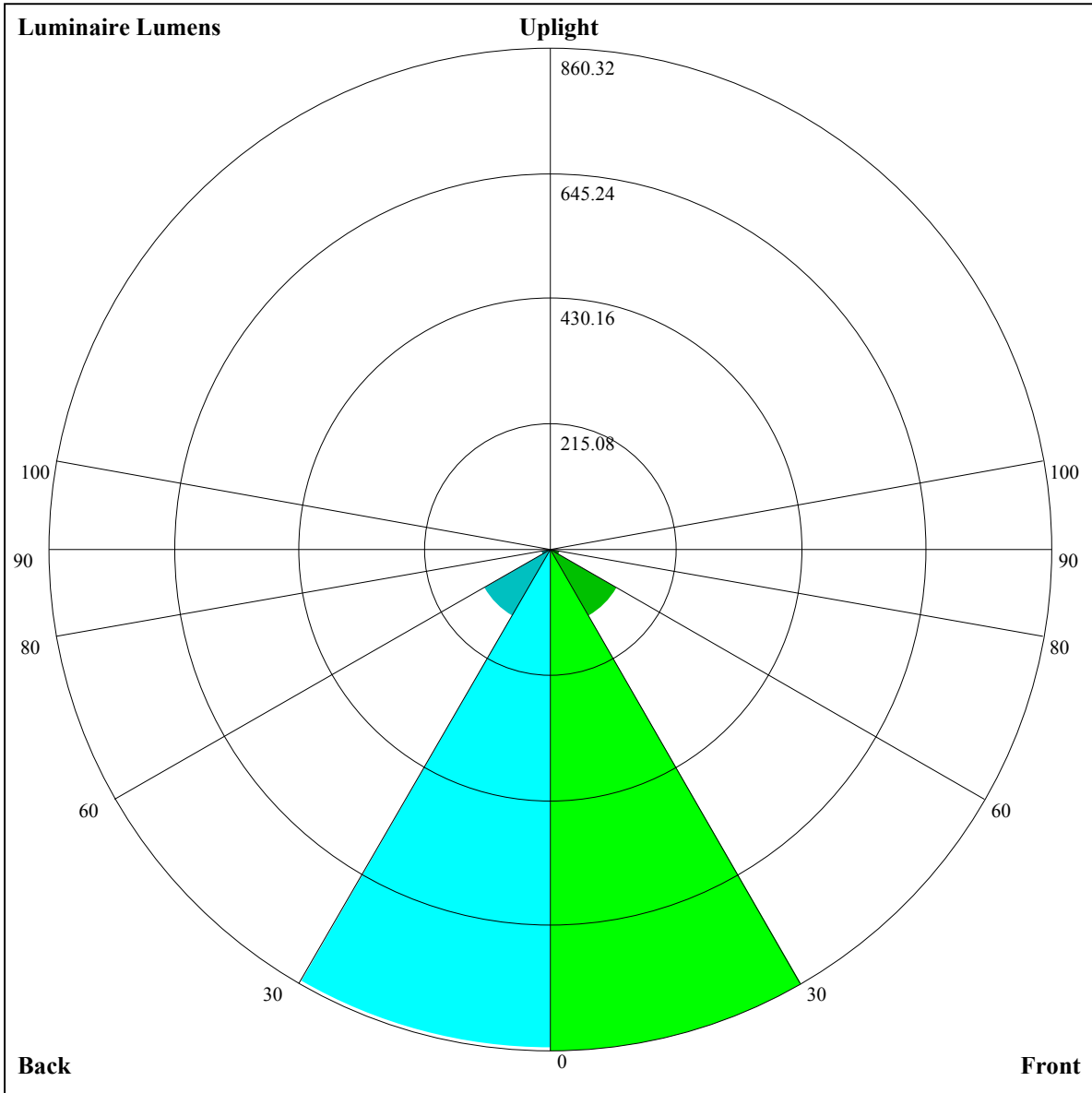
NT 2-2682-L 铝反光罩

Utilization factor table for indoor luminaire

Appendix Page: 14 Total:19

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 RHOF=20 CU															
0	1.02	1.02	1.02	1.00	1.00	1.00	0.95	0.95	0.95	0.91	0.91	0.91	0.88	0.88	0.88	0.86
1	0.96	0.94	0.92	0.94	0.92	0.90	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.83	0.81
2	0.90	0.87	0.84	0.88	0.86	0.83	0.86	0.83	0.81	0.83	0.81	0.80	0.81	0.79	0.78	0.77
3	0.85	0.81	0.78	0.84	0.80	0.78	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.73
4	0.81	0.77	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.74	0.71	0.75	0.73	0.71	0.69
5	0.77	0.73	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.73	0.70	0.68	0.72	0.69	0.67	0.66
6	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.70	0.67	0.65	0.69	0.67	0.64	0.63
7	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61
8	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.59	0.58
9	0.65	0.61	0.58	0.64	0.60	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.57	0.56
10	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.54





Luminaire Lumens:

FL=860.32,FM=132.27,FH=15.82,FVH=5.11

BL=857.04,BM=131.45,BH=15.76,BVH=5.08

UL=0,UH=0

BUG Rating:B2-U0-G0

NT 2-2682-L 铝反光罩

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	7017.49	6967.16	6846.02	6590.86	6318.15	5875.72	5505.27	5111.41	4722.82
45.0	6939.07	7027.44	7029.20	6940.83	6745.36	6530.58	6229.19	5871.62	5409.29
90.0	7030.95	6992.91	6871.19	6705.57	6492.54	6122.68	5780.33	5412.22	5049.38
135.0	6968.92	7013.98	6951.36	6799.79	6609.00	6352.68	6035.48	5591.88	5219.68
180.0	7017.49	6960.14	6832.56	6633.00	6384.86	6012.66	5656.26	5263.57	4882.01
225.0	6939.07	6719.61	6480.84	6194.08	5877.47	5413.97	5031.24	4652.60	4221.29
270.0	7030.95	6954.87	6795.11	6488.45	6189.40	5782.67	5405.20	5017.78	4556.62
315.0	6968.92	6815.59	6600.81	6249.68	5910.83	5534.53	5035.92	4657.28	4298.54
360.0	7017.49	6967.16	6846.02	6590.86	6318.15	5875.72	5505.27	5111.41	4722.82
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4265.18	3933.94	3625.53	3323.55	2987.05	2743.01	2522.96	2316.96	2086.39
45.0	5028.31	4567.15	4218.95	3891.22	3499.70	3207.09	2946.67	2704.97	2433.42
90.0	4593.49	4231.82	3914.63	3521.36	3230.50	2973.59	2677.46	2460.34	2256.69
135.0	4848.65	4492.83	4157.50	3769.49	3457.57	3167.88	2853.62	2618.36	2359.69
180.0	4431.38	4096.05	3780.03	3395.53	3103.51	2786.90	2553.98	2347.40	2153.69
225.0	3905.85	3522.53	3217.63	2934.96	2682.14	2400.65	2202.26	2030.20	1872.19
270.0	4217.78	3894.15	3593.93	3207.09	2921.50	2663.42	2441.03	2237.96	2016.16
315.0	3955.59	3577.54	3279.66	2999.92	2743.59	2516.53	2266.05	2086.39	1894.43
360.0	4265.18	3933.94	3625.53	3323.55	2987.05	2743.01	2522.96	2316.96	2086.39
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1934.23	1765.68	1639.86	1521.06	1381.19	1154.82	1154.82	1061.31	968.66
45.0	2235.62	2063.56	1911.40	1745.20	1619.38	1502.33	1364.80	1262.97	1167.00
90.0	2041.91	1893.26	1761.00	1635.76	1486.53	1375.92	1150.08	1150.08	1054.93
135.0	2173.58	2010.89	1831.81	1703.65	1583.68	1464.88	1332.03	1230.79	1134.81
180.0	1950.61	1812.50	1682.58	1561.44	1421.57	1319.16	1224.93	1132.47	1014.84
225.0	1704.23	1577.83	1460.19	1280.53	1155.64	1132.41	1015.78	923.66	834.30
270.0	1865.76	1697.21	1567.29	1447.91	1315.64	1216.16	1123.11	1007.82	919.45
315.0	1756.32	1627.57	1480.09	1372.41	1153.07	1153.07	1063.18	973.87	884.86
360.0	1934.23	1765.68	1639.86	1521.06	1381.19	1154.82	1154.82	1061.31	968.66
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	876.26	783.03	667.98	578.61	493.87	419.20	342.53	294.37	253.70
45.0	1048.20	954.56	841.03	752.07	660.19	572.99	470.58	398.60	340.66
90.0	964.68	873.27	761.73	671.84	582.94	478.66	404.10	344.46	284.36
135.0	1037.66	917.69	823.47	729.83	617.47	530.86	451.27	368.17	315.49
180.0	920.62	828.15	711.11	615.72	507.45	430.20	364.65	302.03	302.03
225.0	725.21	635.55	547.83	446.29	379.40	325.44	281.73	236.43	206.00
270.0	829.91	742.71	633.27	544.32	461.80	390.99	324.86	302.62	302.62
315.0	773.26	682.31	591.60	503.18	408.60	347.86	297.59	246.32	211.44
360.0	876.26	783.03	667.98	578.61	493.87	419.20	342.53	294.37	253.70
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	211.03	181.48	148.82	127.87	111.08	96.39	81.17	70.58	61.45
45.0	304.38	304.38	205.53	175.33	148.53	123.07	106.75	89.89	78.89
90.0	243.75	209.98	179.37	145.31	124.54	106.86	89.01	77.72	68.06
135.0	303.79	252.11	190.32	161.23	137.76	114.70	99.55	86.67	76.31
180.0	251.41	192.42	158.30	136.77	118.22	102.24	85.79	74.73	65.14
225.0	177.50	153.21	127.70	110.20	94.69	78.54	68.35	58.29	52.44
270.0	202.90	173.99	144.61	124.30	106.86	91.59	75.96	66.25	58.00
315.0	173.40	147.18	126.47	104.99	90.59	78.19	68.00	59.46	51.32
360.0	211.03	181.48	148.82	127.87	111.08	96.39	81.17	70.58	61.45

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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	54.48	47.93	43.83	41.08	39.15	36.81	35.64	34.94	34.18
45.0	69.29	59.28	53.37	48.34	44.30	40.97	39.03	37.34	36.34
90.0	58.11	52.03	47.34	42.72	40.32	38.39	36.11	35.23	34.65
135.0	65.02	57.82	50.97	46.35	42.72	39.91	38.10	36.64	35.82
180.0	56.12	51.03	46.88	42.66	40.44	38.51	36.46	35.87	35.17
225.0	47.58	43.42	39.74	37.81	36.46	35.17	34.24	33.36	33.12
270.0	51.91	46.12	42.31	39.56	37.63	35.70	34.70	34.00	33.30
315.0	46.70	42.84	39.85	37.16	35.52	34.06	33.59	33.07	32.42
360.0	54.48	47.93	43.83	41.08	39.15	36.81	35.64	34.94	34.18
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	33.53	33.42	33.12	32.36	31.08	29.67	27.74	25.52	23.35
45.0	35.41	34.53	34.06	33.88	33.30	32.07	30.90	28.91	26.10
90.0	33.77	33.18	33.12	32.71	31.72	30.43	28.62	26.39	24.05
135.0	35.00	34.47	34.29	34.00	33.18	32.25	31.08	28.38	26.28
180.0	34.29	33.88	33.53	32.71	31.66	30.02	28.09	25.87	23.64
225.0	32.83	32.30	31.49	30.20	28.44	26.45	24.23	22.24	20.01
270.0	33.07	32.83	32.36	31.43	30.49	28.44	26.34	24.64	22.77
315.0	32.36	32.19	31.31	30.55	29.32	27.51	25.11	23.47	21.24
360.0	33.53	33.42	33.12	32.36	31.08	29.67	27.74	25.52	23.35
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.13	19.14	17.73	16.33	15.57	14.92	14.22	13.75	13.23
45.0	24.29	22.24	20.01	18.38	16.91	15.92	15.22	14.63	14.05
90.0	22.18	19.43	17.91	16.74	15.74	14.86	14.34	13.93	13.52
135.0	24.58	21.71	19.61	17.91	16.80	15.92	15.27	14.57	14.10
180.0	21.36	18.90	17.62	16.44	15.63	14.81	14.28	13.81	13.40
225.0	18.49	16.97	15.92	15.22	14.63	13.99	13.58	13.17	12.76
270.0	20.01	18.43	17.21	15.92	15.16	14.57	13.99	13.52	13.05
315.0	19.25	17.62	16.44	15.39	14.75	14.22	13.64	13.28	12.87
360.0	21.13	19.14	17.73	16.33	15.57	14.92	14.22	13.75	13.23
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.87	12.52	12.23	11.88	11.65	11.41	11.12	10.83	10.53
45.0	13.64	13.11	12.82	12.47	12.11	11.82	11.65	11.29	11.06
90.0	13.05	12.70	12.47	12.17	11.88	11.65	11.35	11.06	10.83
135.0	13.69	13.34	12.87	12.58	12.29	12.06	11.70	11.41	11.00
180.0	12.93	12.64	12.35	11.94	11.70	11.47	11.12	10.83	10.42
225.0	12.47	12.06	11.82	11.59	11.24	11.00	10.71	10.42	10.07
270.0	12.76	12.41	12.17	11.88	11.59	11.35	11.06	10.77	10.48
315.0	12.58	12.23	12.00	11.76	11.47	11.12	10.89	10.59	10.36
360.0	12.87	12.52	12.23	11.88	11.65	11.41	11.12	10.83	10.53
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.24	9.95	9.66	9.42	9.25	9.01	8.84	8.66	8.43
45.0	10.77	10.42	10.12	9.83	9.54	9.31	9.13	8.90	8.66
90.0	10.48	10.24	9.95	9.60	9.31	9.13	8.95	8.78	8.60
135.0	10.71	10.42	10.01	9.77	9.48	9.25	9.07	8.90	8.72
180.0	10.18	9.89	9.60	9.36	9.13	8.95	8.78	8.60	8.43
225.0	9.83	9.54	9.31	9.07	8.90	8.72	8.54	8.43	8.37
270.0	10.18	9.89	9.60	9.36	9.07	8.90	8.72	8.54	8.43
315.0	10.01	9.71	9.48	9.25	9.07	8.90	8.72	8.54	8.49
360.0	10.24	9.95	9.66	9.42	9.25	9.01	8.84	8.66	8.43

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Intensity data(cd)

Appendix Page: 19 Total:19

C/ γ (°)	90.0
0.0	8.43
45.0	8.54
90.0	8.49
135.0	8.60
180.0	8.43
225.0	8.43
270.0	8.43
315.0	8.49
360.0	8.43