



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:

LumCAT: 2-2684-L 铝反光罩

Luminaire: GH36D-B40 Hodel

Report No: 2024419-B008

Ballast type: AC

Test No: 2024419-C008

Voltage(V): 33.020

LampCAT: LUMINUS CXM-14-AC40

Current(A): 0.420

Lamp flux(lm): 2356.0

Power (W): 13.868

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1997.65, Efficiency(%): 84.79% , Luminous Efficacy(lm/W): 144.05

Central intensity(cd): 4465.765, Maximum intensity(cd): 4465.765

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=36.0

[C90/270]Total=36.0

Field angle(10%Imax): [C0/180]Total=64.4

[C90/270]Total=64.4

Maximum s/h(1/2): C0_180=0.58 C90_270=0.58

Maximum s/h(1/4): C0_180=0.61 C90_270=0.61

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.79%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.901%

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

Appendix Page: 2 Total:19

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4465.764	0.000	0	0.00%	0.00%
1.0	4457.937	4.270	4.27	0.18%	0.21%
2.0	4420.482	12.743	17.013	0.54%	0.85%
3.0	4360.863	21.002	38.015	0.89%	1.90%
4.0	4282.296	28.931	66.946	1.23%	3.35%
5.0	4195.171	36.470	103.416	1.55%	5.18%
6.0	4087.124	43.526	146.942	1.85%	7.36%
7.0	3964.300	49.975	196.917	2.12%	9.86%
8.0	3835.696	55.823	252.74	2.37%	12.65%
9.0	3697.730	61.054	313.794	2.59%	15.71%
10.0	3550.326	65.592	379.386	2.78%	18.99%
11.0	3402.996	69.478	448.864	2.95%	22.47%
12.0	3244.326	72.665	521.529	3.08%	26.11%
13.0	3077.684	75.026	596.556	3.18%	29.86%
14.0	2917.259	76.735	673.29	3.26%	33.70%
15.0	2735.181	77.599	750.889	3.29%	37.59%
16.0	2555.663	77.526	828.415	3.29%	41.47%
17.0	2400.651	77.183	905.598	3.28%	45.33%
18.0	2235.911	76.447	982.045	3.24%	49.16%
19.0	2074.681	74.995	1057.041	3.18%	52.91%
20.0	1931.447	73.323	1130.364	3.11%	56.58%
21.0	1783.093	71.327	1201.691	3.03%	60.16%
22.0	1643.224	68.853	1270.544	2.92%	63.60%
23.0	1463.765	65.193	1335.737	2.77%	66.87%
24.0	1336.720	61.229	1396.966	2.60%	69.93%
25.0	1211.789	57.948	1454.913	2.46%	72.83%
26.0	1119.857	55.039	1509.952	2.34%	75.59%
27.0	1002.132	51.915	1561.867	2.20%	78.19%
28.0	884.319	47.761	1609.628	2.03%	80.58%
29.0	774.706	43.405	1653.032	1.84%	82.75%
30.0	661.502	38.777	1691.81	1.65%	84.69%
31.0	560.060	33.994	1725.804	1.44%	86.39%
32.0	463.286	29.318	1755.122	1.24%	87.86%
33.0	391.918	25.195	1780.316	1.07%	89.12%
34.0	331.003	21.878	1802.194	0.93%	90.22%
35.0	286.087	19.165	1821.359	0.81%	91.18%
36.0	239.437	16.733	1838.092	0.71%	92.01%
37.0	205.560	14.513	1852.605	0.62%	92.74%

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Zonal flux distribution table

Appendix Page: 3 Total:19

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	163.322	12.313	1864.918	0.52%	93.36%
39.0	132.385	10.093	1875.011	0.43%	93.86%
40.0	111.273	8.498	1883.509	0.36%	94.29%
41.0	93.973	7.309	1890.818	0.31%	94.65%
42.0	80.937	6.355	1897.172	0.27%	94.97%
43.0	69.517	5.573	1902.746	0.24%	95.25%
44.0	61.493	4.945	1907.69	0.21%	95.50%
45.0	54.931	4.474	1912.165	0.19%	95.72%
46.0	49.759	4.094	1916.259	0.17%	95.93%
47.0	45.860	3.803	1920.062	0.16%	96.12%
48.0	42.539	3.574	1923.635	0.15%	96.30%
49.0	39.451	3.367	1927.002	0.14%	96.46%
50.0	37.059	3.190	1930.192	0.14%	96.62%
51.0	34.982	3.048	1933.24	0.13%	96.78%
52.0	32.970	2.916	1936.156	0.12%	96.92%
53.0	31.192	2.791	1938.947	0.12%	97.06%
54.0	29.590	2.679	1941.626	0.11%	97.20%
55.0	28.032	2.572	1944.198	0.11%	97.32%
56.0	26.672	2.472	1946.67	0.10%	97.45%
57.0	25.435	2.382	1949.053	0.10%	97.57%
58.0	24.243	2.297	1951.35	0.10%	97.68%
59.0	23.160	2.216	1953.566	0.09%	97.79%
60.0	22.107	2.139	1955.705	0.09%	97.90%
61.0	21.156	2.065	1957.769	0.09%	98.00%
62.0	20.300	1.998	1959.767	0.08%	98.10%
63.0	19.451	1.933	1961.7	0.08%	98.20%
64.0	18.720	1.873	1963.573	0.08%	98.29%
65.0	18.025	1.818	1965.392	0.08%	98.39%
66.0	17.359	1.765	1967.157	0.07%	98.47%
67.0	16.752	1.715	1968.872	0.07%	98.56%
68.0	16.145	1.666	1970.539	0.07%	98.64%
69.0	15.574	1.618	1972.157	0.07%	98.72%
70.0	15.077	1.574	1973.731	0.07%	98.80%
71.0	14.587	1.533	1975.264	0.07%	98.88%
72.0	14.089	1.491	1976.755	0.06%	98.95%
73.0	13.650	1.451	1978.206	0.06%	99.03%
74.0	13.211	1.412	1979.618	0.06%	99.10%
75.0	12.773	1.373	1980.991	0.06%	99.17%

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Zonal flux distribution table

Appendix Page: 4 Total:19

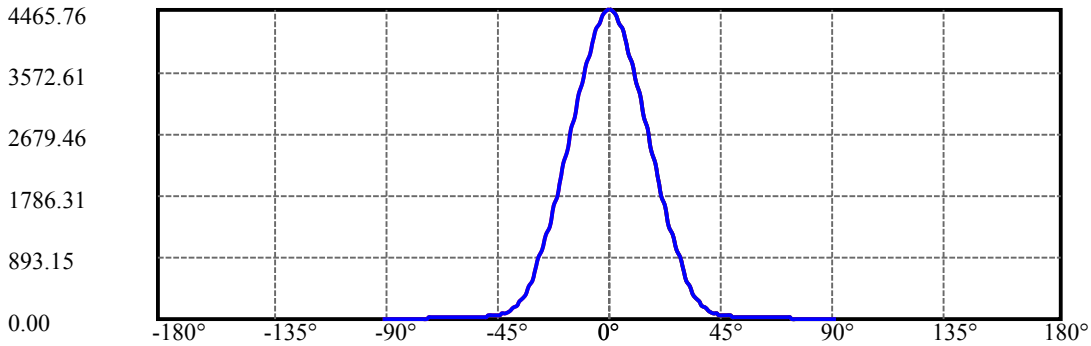
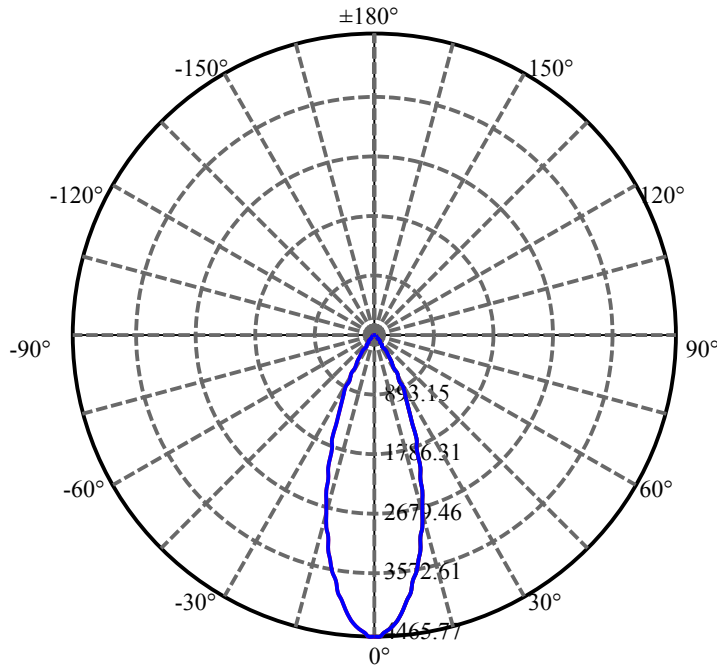
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.378	1.335	1982.326	0.06%	99.23%
77.0	11.975	1.298	1983.625	0.06%	99.30%
78.0	11.624	1.263	1984.888	0.05%	99.36%
79.0	11.266	1.230	1986.118	0.05%	99.42%
80.0	10.929	1.197	1987.314	0.05%	99.48%
81.0	10.593	1.164	1988.478	0.05%	99.54%
82.0	10.249	1.130	1989.608	0.05%	99.60%
83.0	9.927	1.097	1990.705	0.05%	99.65%
84.0	9.634	1.066	1991.771	0.05%	99.71%
85.0	9.305	1.034	1992.804	0.04%	99.76%
86.0	9.071	1.004	1993.809	0.04%	99.81%
87.0	8.917	0.984	1994.793	0.04%	99.86%
88.0	8.713	0.966	1995.759	0.04%	99.91%
89.0	8.581	0.948	1996.707	0.04%	99.95%
90.0	8.544	0.939	1997.646	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1691.81	71.81%	84.69%
0-40	1883.51	79.95%	94.29%
0-60	1955.70	83.01%	97.90%
0-90	1996.71	84.75%	99.95%
0-120	1996.71	84.75%	99.95%
0-180	1997.65	84.79%	100.00%
60-90	41.00	1.74%	2.05%
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%
0-27.76	1598.12	67.83%	80.00%

ZONAL LUMEN SUMMARY

0-10	379.39
10-20	750.98
20-30	561.45
30-40	191.70
40-50	46.68
50-60	25.51
60-70	18.03
70-80	13.58
80-90	9.39
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: —————

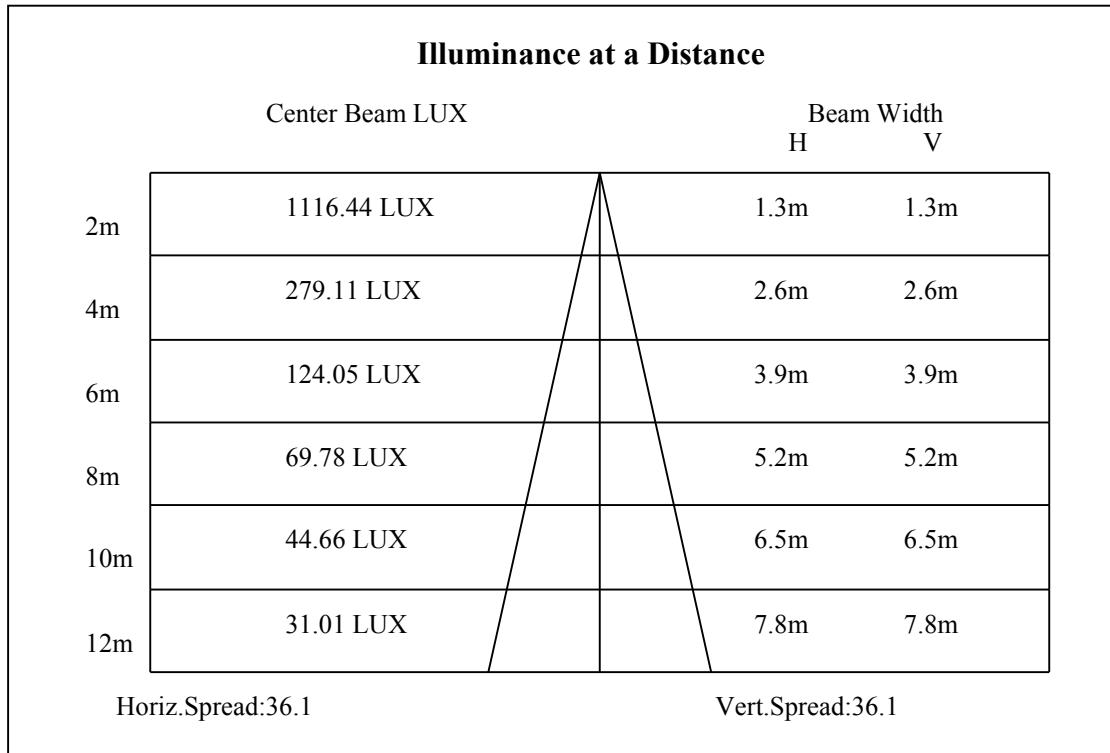
C90/C270: —————

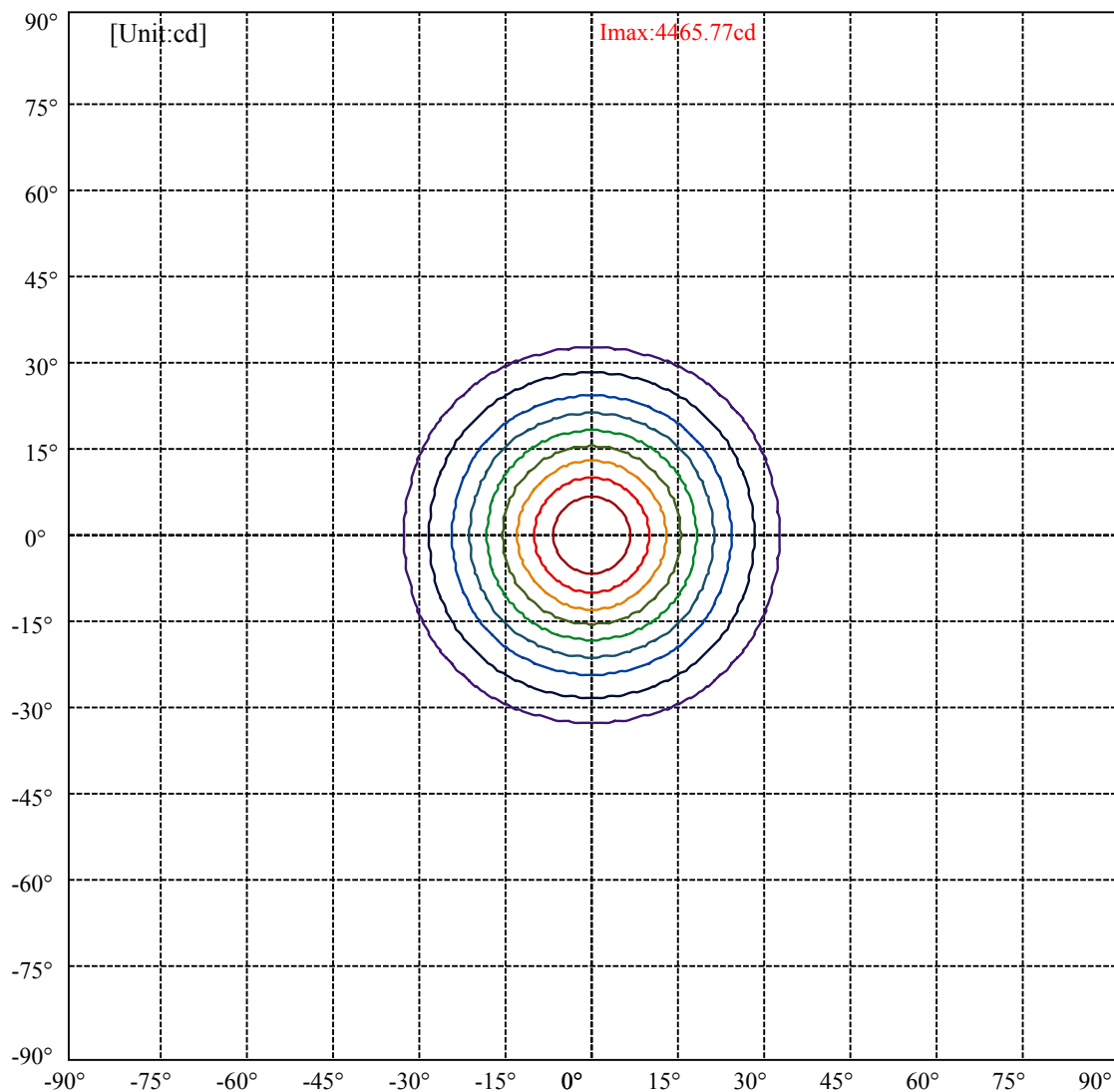
Field angle(10%Imax):C0/180Left:32.2 Right:32.2

:C90/270Left:32.2 Right:32.2

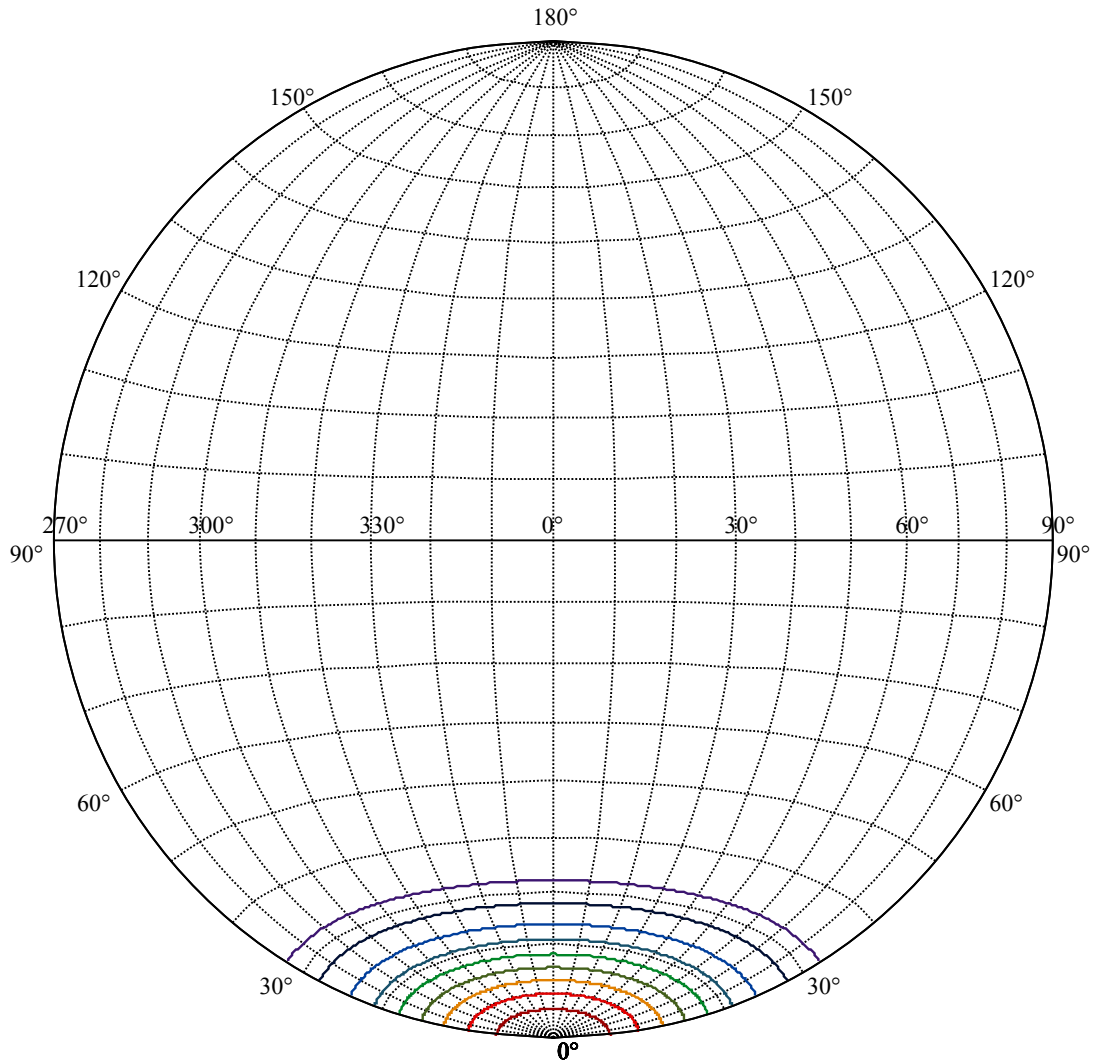
Beam Angle(50%Imax):C0/180Left:18.0 Right:18.0

:C90/270Left:18.0 Right:18.0





(10%Imax) 446.576	—
(20%Imax) 893.153	—
(30%Imax) 1339.73	—
(40%Imax) 1786.31	—
(50%Imax) 2232.88	—
(60%Imax) 2679.46	—
(70%Imax) 3126.04	—
(80%Imax) 3572.61	—
(90%Imax) 4019.19	—



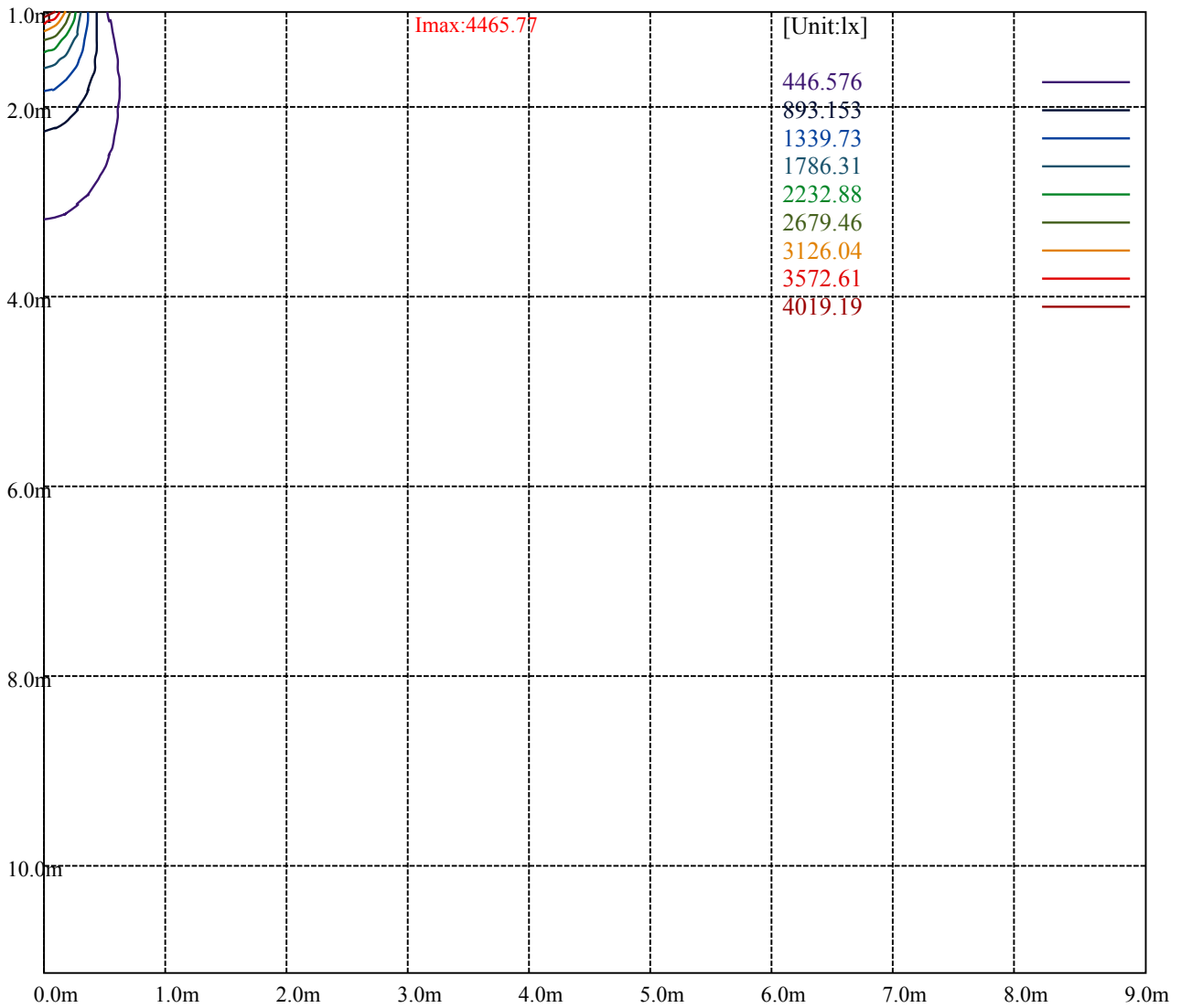
House

[Unit:cd]

Road

Imax:4465.77

(10%Imax)	446.576	—
(20%Imax)	893.153	—
(30%Imax)	1339.73	—
(40%Imax)	1786.31	—
(50%Imax)	2232.88	—
(60%Imax)	2679.46	—
(70%Imax)	3126.04	—
(80%Imax)	3572.61	—
(90%Imax)	4019.19	—



NT 2-2684-L 铝反光罩

Luminance Limiting Curve(no luminous side)

Luminance Table

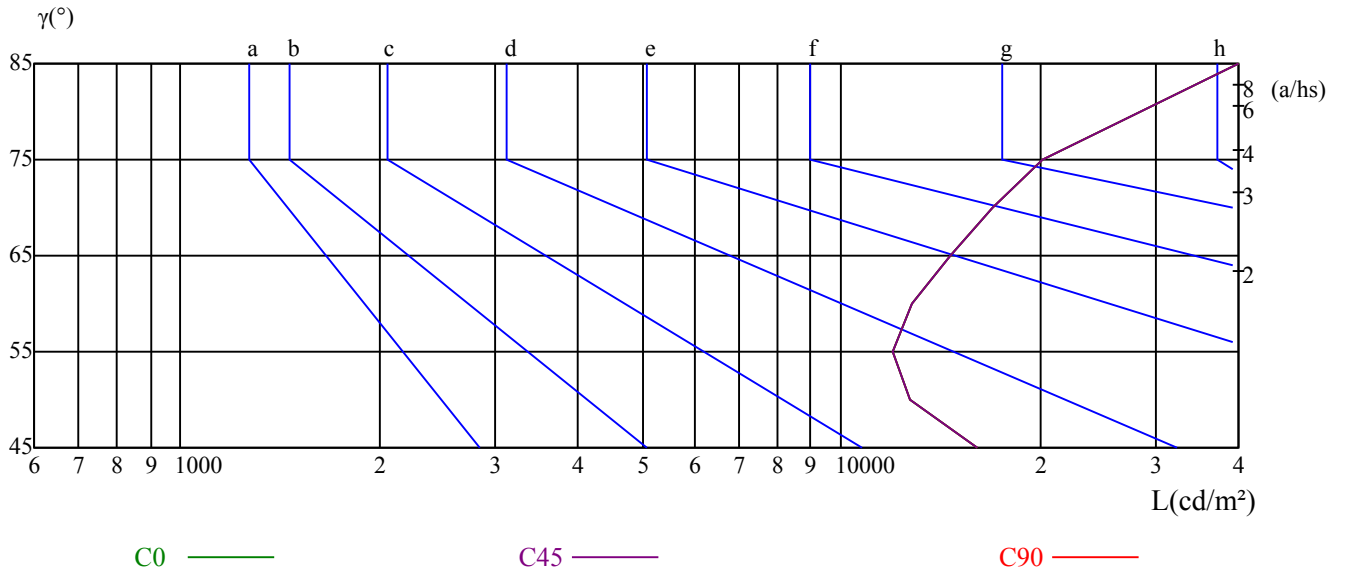
γ	45	50	55	60	65	70	75	80	85
C0	16110	12707	11994	12838	14615	16996	20243	28497	54367
C45	16110	12707	11994	12838	14615	16996	20243	28497	54367
C90	16110	12707	11994	12838	14615	16996	20243	28497	54367

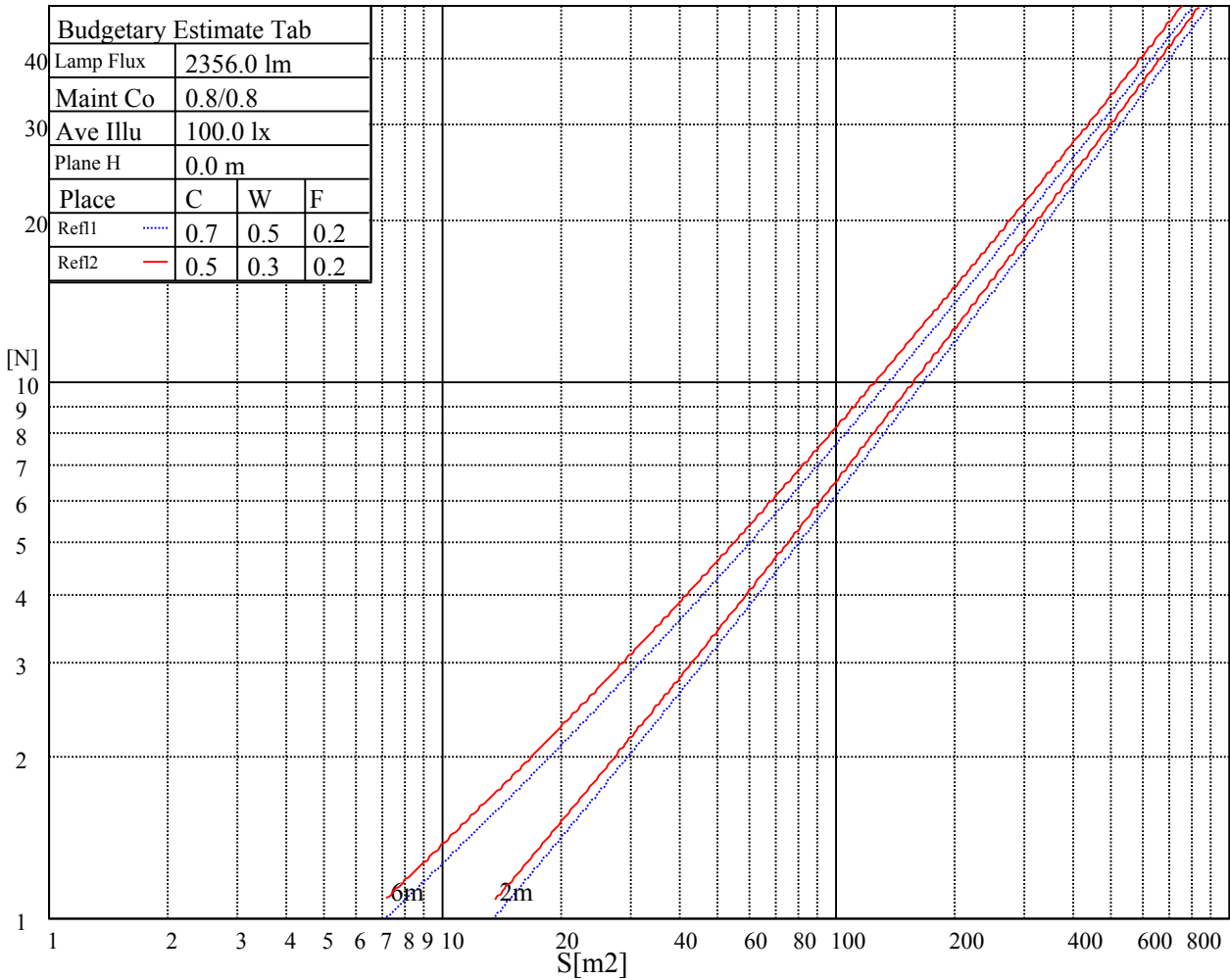
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14615	14615	14615	20243	20243	20243	54367	54367	54367

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



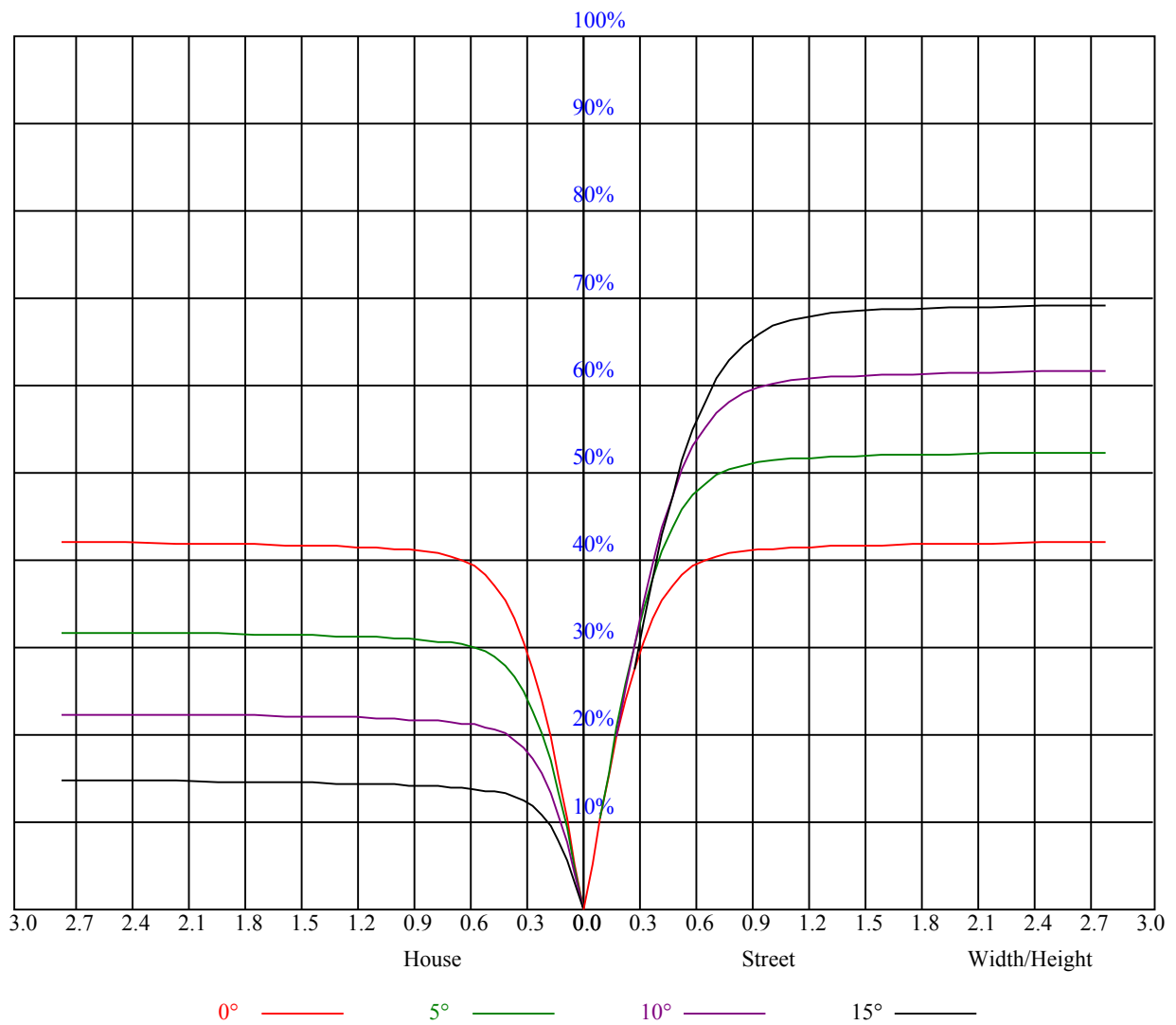


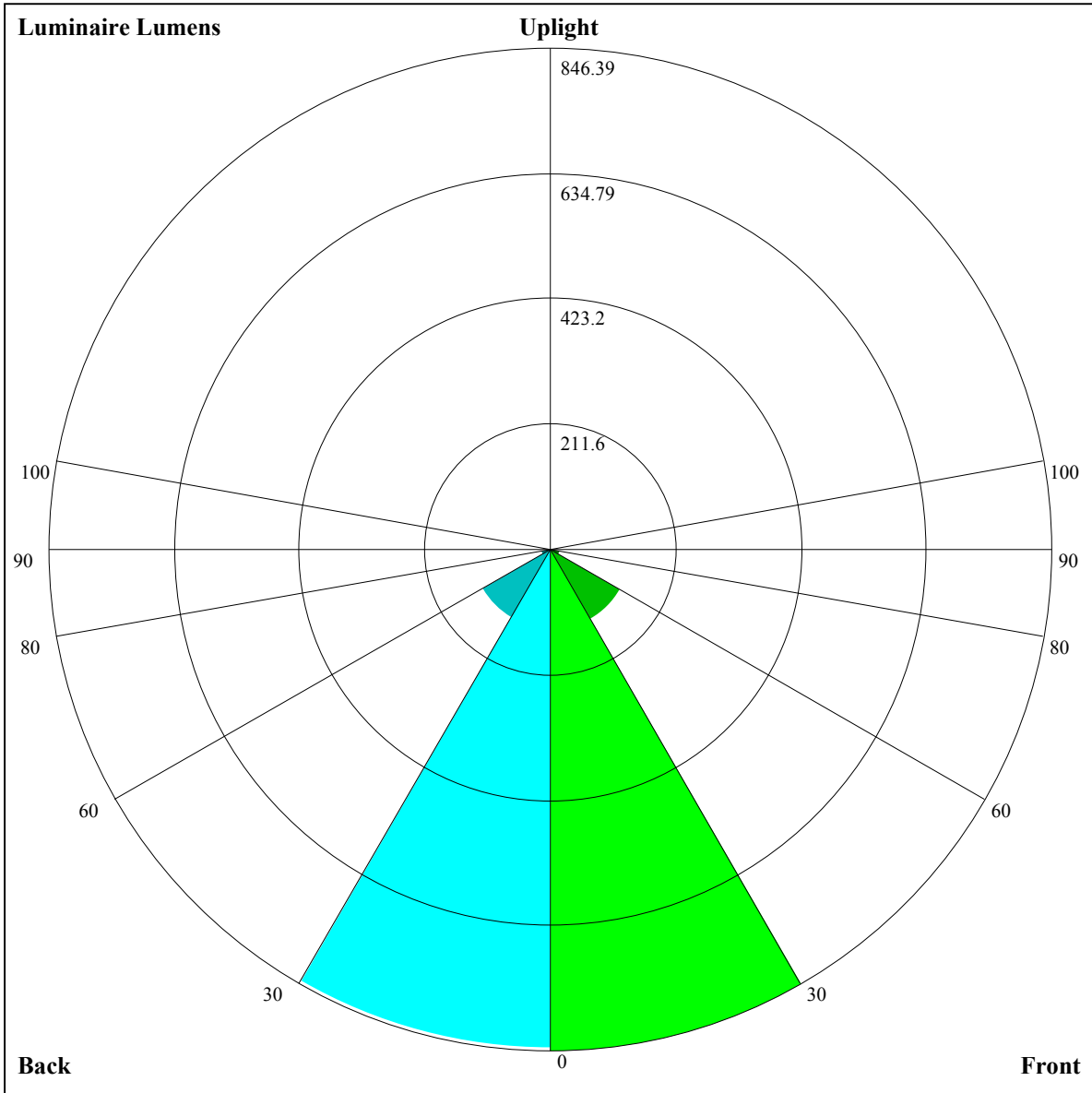
NT 2-2684-L 铝反光罩

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	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.94	0.92	0.90	0.92	0.91	0.89	0.89	0.88	0.86	0.86	0.85	0.84	0.83	0.82	0.81	0.80
2	0.89	0.85	0.83	0.87	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.77	0.75
3	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.76	0.74	0.72	0.71
4	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.69	0.68
5	0.75	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
6	0.71	0.67	0.64	0.71	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.61
7	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.65	0.62	0.59	0.58
8	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.56
9	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.54	0.60	0.57	0.54	0.53
10	0.60	0.55	0.52	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.57	0.54	0.52	0.51





Luminaire Lumens:

FL=846.39,FM=135.18,FH=15.98,FVH=5.2

BL=841.41,BM=132,BH=15.6,BVH=5.15

UL=0,UH=0

BUG Rating:B2-U0-G0

NT 2-2684-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	4464.15	4436.06	4394.51	4322.53	4259.33	4162.76	4065.62	3958.52	3850.25
45.0	4481.13	4465.91	4439.58	4397.44	4351.79	4295.02	4227.14	4129.41	4035.77
90.0	4460.06	4440.16	4398.61	4351.21	4286.25	4217.19	4110.09	4011.19	3918.73
135.0	4457.72	4466.50	4455.38	4412.07	4348.28	4285.66	4200.22	4078.49	3968.47
180.0	4464.15	4481.13	4467.08	4416.17	4315.51	4230.65	4128.24	4001.24	3874.83
225.0	4481.13	4477.03	4403.88	4314.92	4222.46	4106.58	3937.45	3795.83	3610.31
270.0	4460.06	4469.42	4450.69	4392.76	4280.98	4193.78	4076.74	3946.82	3770.08
315.0	4457.72	4427.29	4354.13	4279.81	4193.78	4069.71	3951.50	3792.90	3657.13
360.0	4464.15	4436.06	4394.51	4322.53	4259.33	4162.76	4065.62	3958.52	3850.25
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3699.27	3556.47	3401.97	3250.98	3053.18	2891.66	2735.40	2535.84	2416.45
45.0	3908.78	3785.29	3643.08	3467.52	3318.87	3157.35	2963.05	2806.80	2650.54
90.0	3790.56	3622.02	3478.05	3331.74	3145.64	2987.05	2828.45	2635.33	2472.05
135.0	3861.37	3714.48	3586.32	3446.45	3259.18	3107.02	2941.98	2741.25	2584.41
180.0	3713.31	3575.78	3441.18	3260.93	3109.94	2954.27	2743.59	2582.66	2381.92
225.0	3458.74	3318.87	3140.96	2993.48	2837.23	2669.85	2458.00	2302.92	2158.95
270.0	3621.43	3479.22	3334.09	3155.01	3006.94	2844.25	2678.63	2465.61	2312.87
315.0	3528.38	3350.47	3198.31	3048.50	2890.48	2726.62	2532.33	2374.90	2228.01
360.0	3699.27	3556.47	3401.97	3250.98	3053.18	2891.66	2735.40	2535.84	2416.45
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2229.77	2050.10	1911.40	1776.80	1646.88	1485.94	1154.30	1154.30	1098.41
45.0	2486.09	2293.56	2150.76	2013.82	1878.05	1711.84	1583.68	1429.76	1307.45
90.0	2281.27	2137.89	1997.43	1860.49	1693.11	1565.54	1442.64	1143.30	1143.30
135.0	2420.55	2270.73	2095.16	1954.71	1814.84	1683.75	1526.33	1404.01	1283.46
180.0	2230.94	2089.31	1949.44	1776.22	1645.71	1516.38	1394.06	1246.59	1136.57
225.0	2017.33	1849.37	1715.94	1583.09	1422.74	1156.81	1156.81	1047.79	943.27
270.0	2165.98	1990.99	1852.88	1683.17	1552.66	1423.33	1269.41	1156.46	1047.03
315.0	2055.37	1915.50	1778.56	1616.45	1491.80	1166.53	1166.53	1112.10	999.39
360.0	2229.77	2050.10	1911.40	1776.80	1646.88	1485.94	1154.30	1154.30	1098.41
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	986.63	875.50	768.99	638.71	542.04	457.41	386.31	315.79	267.74
45.0	1186.31	1044.10	936.42	829.91	724.57	596.40	507.45	428.44	364.65
90.0	1062.36	954.50	851.09	721.64	620.10	503.23	424.58	360.62	293.20
135.0	1135.40	1023.03	887.26	782.50	678.33	553.68	465.90	394.50	337.15
180.0	1027.13	893.11	781.92	648.49	550.17	464.14	391.57	321.35	296.18
225.0	814.63	711.63	608.28	512.77	411.82	349.55	297.94	252.41	204.83
270.0	938.17	812.94	710.52	605.77	510.37	409.13	345.93	306.72	306.72
315.0	866.43	759.74	653.17	552.22	443.07	372.73	315.67	268.21	218.23
360.0	986.63	875.50	768.99	638.71	542.04	457.41	386.31	315.79	267.74
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	217.65	184.17	155.03	126.29	108.09	92.99	80.53	68.47	60.98
45.0	298.52	298.52	243.51	177.62	143.32	121.67	104.52	87.32	76.37
90.0	248.14	209.69	176.21	141.16	119.97	102.53	88.19	74.15	65.37
135.0	298.52	298.52	192.60	160.41	134.84	109.91	93.99	78.19	68.41
180.0	296.18	185.52	154.50	129.92	110.02	93.69	77.95	68.30	60.51
225.0	172.52	145.25	123.01	100.89	86.50	72.45	63.79	57.06	50.68
270.0	199.39	168.43	136.47	116.17	99.61	82.40	71.81	63.38	56.94
315.0	184.58	154.38	125.24	106.63	87.84	76.14	66.72	59.28	52.67
360.0	217.65	184.17	155.03	126.29	108.09	92.99	80.53	68.47	60.98

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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	55.25	49.51	45.94	42.90	40.32	37.40	35.52	33.83	31.78
45.0	65.55	58.99	53.49	49.10	44.48	41.49	38.80	36.64	34.35
90.0	58.52	51.97	47.81	44.24	40.56	38.04	35.93	33.65	32.01
135.0	60.80	53.61	48.92	45.12	41.38	38.74	36.46	34.59	32.54
180.0	53.55	49.16	44.71	41.84	39.21	36.93	34.94	32.71	31.08
225.0	46.58	43.19	40.44	37.40	35.29	33.47	31.72	29.67	28.27
270.0	50.68	46.70	43.48	40.73	37.63	35.52	33.30	31.54	29.96
315.0	48.52	44.95	42.08	38.98	36.75	34.88	33.18	31.13	29.55
360.0	55.25	49.51	45.94	42.90	40.32	37.40	35.52	33.83	31.78
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	30.14	28.56	27.45	26.45	25.46	24.23	23.17	22.24	21.42
45.0	32.60	31.02	29.14	27.74	26.45	24.99	23.94	22.71	21.77
90.0	30.37	28.91	27.15	25.87	24.70	23.64	22.36	21.42	20.60
135.0	30.90	29.44	28.03	26.39	25.22	24.11	22.82	21.83	20.72
180.0	29.50	27.62	26.34	25.16	23.82	22.82	21.89	20.89	20.13
225.0	26.86	25.28	24.17	23.17	21.95	21.01	20.25	19.25	18.55
270.0	28.15	26.80	25.57	24.46	23.12	22.18	21.24	20.48	19.55
315.0	28.21	26.63	25.52	24.23	23.23	22.30	21.19	20.42	19.66
360.0	30.14	28.56	27.45	26.45	25.46	24.23	23.17	22.24	21.42
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.37	19.49	18.73	18.02	17.21	16.56	15.86	15.39	14.92
45.0	20.95	20.19	19.43	18.49	17.91	17.38	16.62	16.04	15.57
90.0	19.72	18.96	18.08	17.56	16.91	16.21	15.68	15.22	14.75
135.0	19.96	19.20	18.49	17.73	17.21	16.62	15.98	15.45	14.98
180.0	19.14	18.49	17.91	17.38	16.80	16.09	15.68	15.27	14.69
225.0	17.85	17.26	16.62	15.98	15.45	15.04	14.46	13.99	13.58
270.0	18.73	18.08	17.38	16.80	16.21	15.57	15.10	14.51	14.05
315.0	18.90	18.08	17.56	16.91	16.33	15.68	15.22	14.75	14.16
360.0	20.37	19.49	18.73	18.02	17.21	16.56	15.86	15.39	14.92
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.28	13.87	13.40	12.87	12.35	12.06	11.76	11.35	10.94
45.0	14.98	14.46	13.99	13.52	13.11	12.76	12.29	11.94	11.59
90.0	14.16	13.75	13.34	12.99	12.58	12.17	11.88	11.53	11.18
135.0	14.51	13.87	13.52	13.17	12.70	12.29	11.94	11.59	11.24
180.0	14.28	13.93	13.40	12.70	12.29	11.70	11.41	11.12	10.71
225.0	13.11	12.76	12.29	12.00	11.70	11.29	10.89	10.59	10.36
270.0	13.64	13.28	12.87	12.47	12.17	11.82	11.47	11.06	10.77
315.0	13.75	13.28	12.87	12.47	12.11	11.70	11.35	10.94	10.65
360.0	14.28	13.87	13.40	12.87	12.35	12.06	11.76	11.35	10.94
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.71	10.42	10.07	9.60	9.36	9.13	8.90	8.66	8.54
45.0	11.12	10.77	10.53	10.18	9.66	9.42	9.13	8.95	8.66
90.0	10.83	10.53	10.24	9.77	9.42	9.19	9.01	8.78	8.60
135.0	10.89	10.59	10.24	9.89	9.54	9.31	9.01	8.78	8.72
180.0	10.42	10.07	9.66	9.48	9.31	8.95	8.72	8.90	8.43
225.0	9.95	9.54	9.48	9.13	8.90	8.78	8.90	8.49	8.60
270.0	10.48	10.12	9.60	9.60	9.13	8.90	8.84	8.66	8.54
315.0	10.36	9.95	9.60	9.42	9.13	8.90	8.84	8.49	8.54
360.0	10.71	10.42	10.07	9.60	9.36	9.13	8.90	8.66	8.54

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Appendix Page: 19 Total:19

Intensity data(cd)

C/γ(°)	90.0
0.0	8.43
45.0	8.54
90.0	8.49
135.0	8.43
180.0	8.66
225.0	8.60
270.0	8.60
315.0	8.60
360.0	8.43