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NT

Client:

LumCAT: 2-2683-L 铝反光罩

Luminaire: GH36D-B40 Hodel

Report No: 2024419-B007

Ballast type: AC

Test No: 2024419-C007

Voltage(V): 33.060

LampCAT: LUMINUS CXM-14-AC40

Current(A): 0.420

Lamp flux(lm): 2356.0

Power (W): 13.885

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2025.83, Efficiency(%): 85.99% , Luminous Efficacy(lm/W): 145.90

Central intensity(cd): 6125.609, Maximum intensity(cd): 6125.609

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=27.0

[C90/270]Total=27.0

Field angle(10%Imax): [C0/180]Total=59.8

[C90/270]Total=59.8

Maximum s/h(1/2): C0_180=0.45 C90_270=0.45

Maximum s/h(1/4): C0_180=0.49 C90_270=0.49

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.99%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.951%

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	6125.609	0.000	0	0.00%	0.00%
1.0	6106.004	5.853	5.853	0.25%	0.29%
2.0	6031.534	17.421	23.274	0.74%	1.15%
3.0	5923.925	28.594	51.867	1.21%	2.56%
4.0	5774.693	39.159	91.026	1.66%	4.49%
5.0	5568.694	48.799	139.825	2.07%	6.90%
6.0	5329.849	57.275	197.099	2.43%	9.73%
7.0	5059.402	64.486	261.585	2.74%	12.91%
8.0	4736.577	70.108	331.693	2.98%	16.37%
9.0	4413.752	74.158	405.852	3.15%	20.03%
10.0	4102.339	77.068	482.919	3.27%	23.84%
11.0	3806.801	79.029	561.948	3.35%	27.74%
12.0	3504.093	79.919	641.866	3.39%	31.68%
13.0	3200.800	79.570	721.437	3.38%	35.61%
14.0	2927.866	78.446	799.883	3.33%	39.48%
15.0	2687.046	77.084	876.967	3.27%	43.29%
16.0	2441.617	75.149	952.116	3.19%	47.00%
17.0	2230.058	72.751	1024.867	3.09%	50.59%
18.0	2027.205	70.193	1095.06	2.98%	54.05%
19.0	1866.341	67.740	1162.8	2.88%	57.40%
20.0	1699.113	65.258	1228.057	2.77%	60.62%
21.0	1530.685	62.019	1290.076	2.63%	63.68%
22.0	1429.185	59.480	1349.556	2.52%	66.62%
23.0	1301.423	57.296	1406.851	2.43%	69.45%
24.0	1189.799	54.467	1461.318	2.31%	72.13%
25.0	1087.509	51.781	1513.099	2.20%	74.69%
26.0	995.921	49.180	1562.279	2.09%	77.12%
27.0	895.555	46.275	1608.554	1.96%	79.40%
28.0	799.871	42.925	1651.479	1.82%	81.52%
29.0	700.346	39.250	1690.729	1.67%	83.46%
30.0	604.208	35.223	1725.952	1.50%	85.20%
31.0	515.569	31.162	1757.113	1.32%	86.74%
32.0	438.699	27.339	1784.452	1.16%	88.08%
33.0	373.469	23.927	1808.379	1.02%	89.27%
34.0	320.279	20.995	1829.374	0.89%	90.30%
35.0	268.604	18.289	1847.662	0.78%	91.21%
36.0	229.298	15.853	1863.516	0.67%	91.99%
37.0	200.249	14.009	1877.525	0.59%	92.68%

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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	169.781	12.351	1889.876	0.52%	93.29%
39.0	135.919	10.434	1900.31	0.44%	93.80%
40.0	115.172	8.757	1909.068	0.37%	94.24%
41.0	97.323	7.567	1916.634	0.32%	94.61%
42.0	82.612	6.537	1923.172	0.28%	94.93%
43.0	71.061	5.692	1928.864	0.24%	95.21%
44.0	61.675	5.010	1933.874	0.21%	95.46%
45.0	54.243	4.455	1938.329	0.19%	95.68%
46.0	48.779	4.029	1942.358	0.17%	95.88%
47.0	44.784	3.721	1946.079	0.16%	96.06%
48.0	41.741	3.498	1949.577	0.15%	96.24%
49.0	39.620	3.341	1952.918	0.14%	96.40%
50.0	38.076	3.239	1956.158	0.14%	96.56%
51.0	36.657	3.162	1959.319	0.13%	96.72%
52.0	35.457	3.094	1962.414	0.13%	96.87%
53.0	34.294	3.034	1965.448	0.13%	97.02%
54.0	33.212	2.975	1968.423	0.13%	97.17%
55.0	31.683	2.897	1971.32	0.12%	97.31%
56.0	30.424	2.806	1974.127	0.12%	97.45%
57.0	28.976	2.716	1976.843	0.12%	97.58%
58.0	27.389	2.606	1979.449	0.11%	97.71%
59.0	25.933	2.493	1981.942	0.11%	97.83%
60.0	24.455	2.381	1984.322	0.10%	97.95%
61.0	22.977	2.264	1986.586	0.10%	98.06%
62.0	21.544	2.145	1988.731	0.09%	98.17%
63.0	20.322	2.036	1990.767	0.09%	98.27%
64.0	19.217	1.940	1992.708	0.08%	98.36%
65.0	18.142	1.849	1994.556	0.08%	98.46%
66.0	17.176	1.762	1996.319	0.07%	98.54%
67.0	16.299	1.683	1998.002	0.07%	98.63%
68.0	15.508	1.611	1999.613	0.07%	98.71%
69.0	14.799	1.546	2001.159	0.07%	98.78%
70.0	14.170	1.488	2002.647	0.06%	98.86%
71.0	13.665	1.439	2004.086	0.06%	98.93%
72.0	13.175	1.396	2005.481	0.06%	99.00%
73.0	12.773	1.357	2006.838	0.06%	99.06%
74.0	12.429	1.325	2008.163	0.06%	99.13%
75.0	12.100	1.296	2009.459	0.06%	99.19%

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Zonal flux distribution table

Appendix Page: 4 Total:19

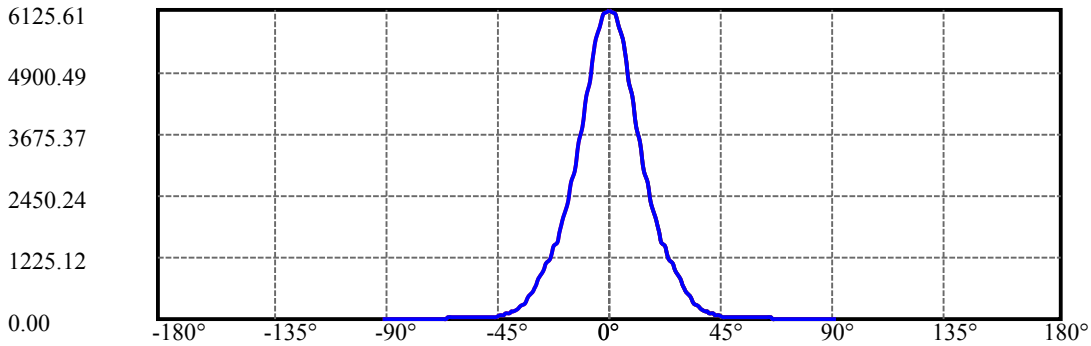
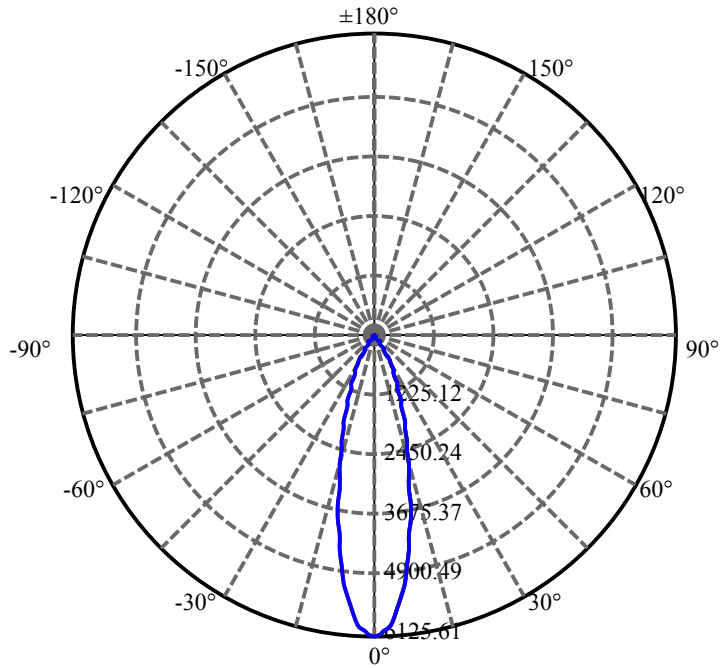
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.770	1.267	2010.726	0.05%	99.25%
77.0	11.463	1.239	2011.965	0.05%	99.32%
78.0	11.214	1.214	2013.179	0.05%	99.38%
79.0	10.936	1.190	2014.369	0.05%	99.43%
80.0	10.658	1.164	2015.533	0.05%	99.49%
81.0	10.373	1.137	2016.67	0.05%	99.55%
82.0	10.117	1.111	2017.782	0.05%	99.60%
83.0	9.861	1.086	2018.868	0.05%	99.66%
84.0	9.598	1.060	2019.928	0.04%	99.71%
85.0	9.305	1.032	2020.959	0.04%	99.76%
86.0	9.086	1.005	2021.965	0.04%	99.81%
87.0	8.925	0.986	2022.95	0.04%	99.86%
88.0	8.822	0.972	2023.922	0.04%	99.91%
89.0	8.676	0.959	2024.882	0.04%	99.95%
90.0	8.683	0.952	2025.833	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1725.95	73.26%	85.20%
0-40	1909.07	81.03%	94.24%
0-60	1984.32	84.22%	97.95%
0-90	2024.88	85.95%	99.95%
0-120	2024.88	85.95%	99.95%
0-180	2025.83	85.99%	100.00%
60-90	40.56	1.72%	2.00%
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%
0-27.28	1620.67	68.79%	80.00%

ZONAL LUMEN SUMMARY

0-10	482.92
10-20	745.14
20-30	497.89
30-40	183.12
40-50	47.09
50-60	28.16
60-70	18.32
70-80	12.89
80-90	9.35
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



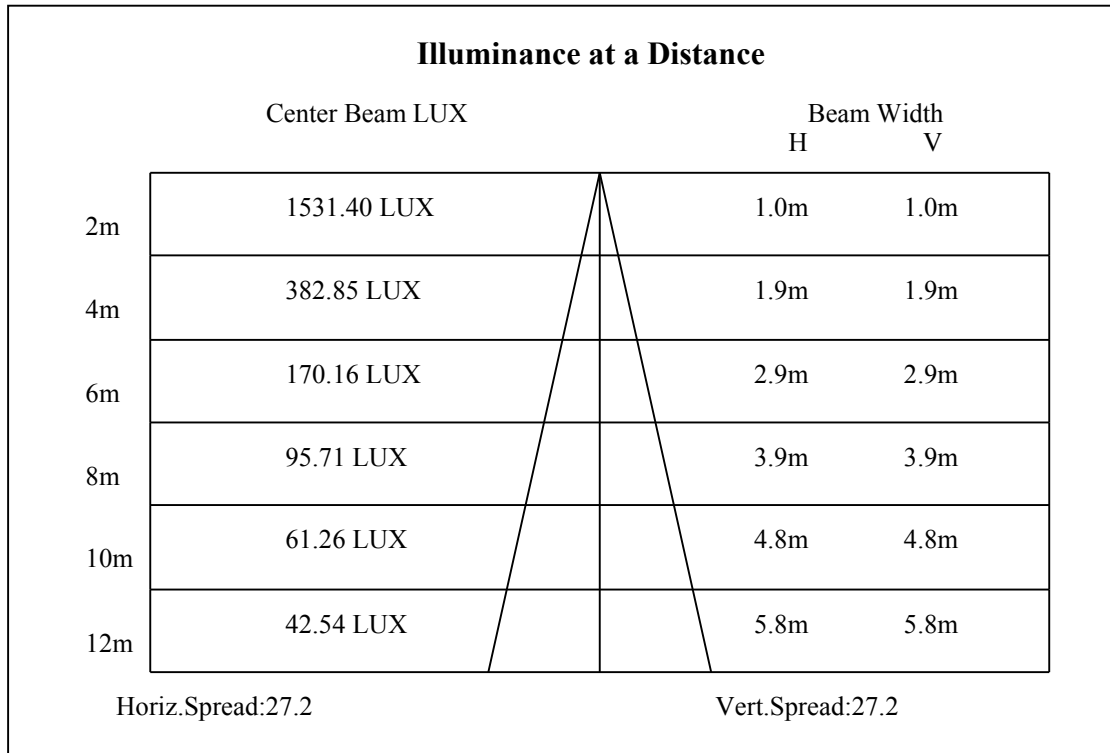
C0(Max): —————

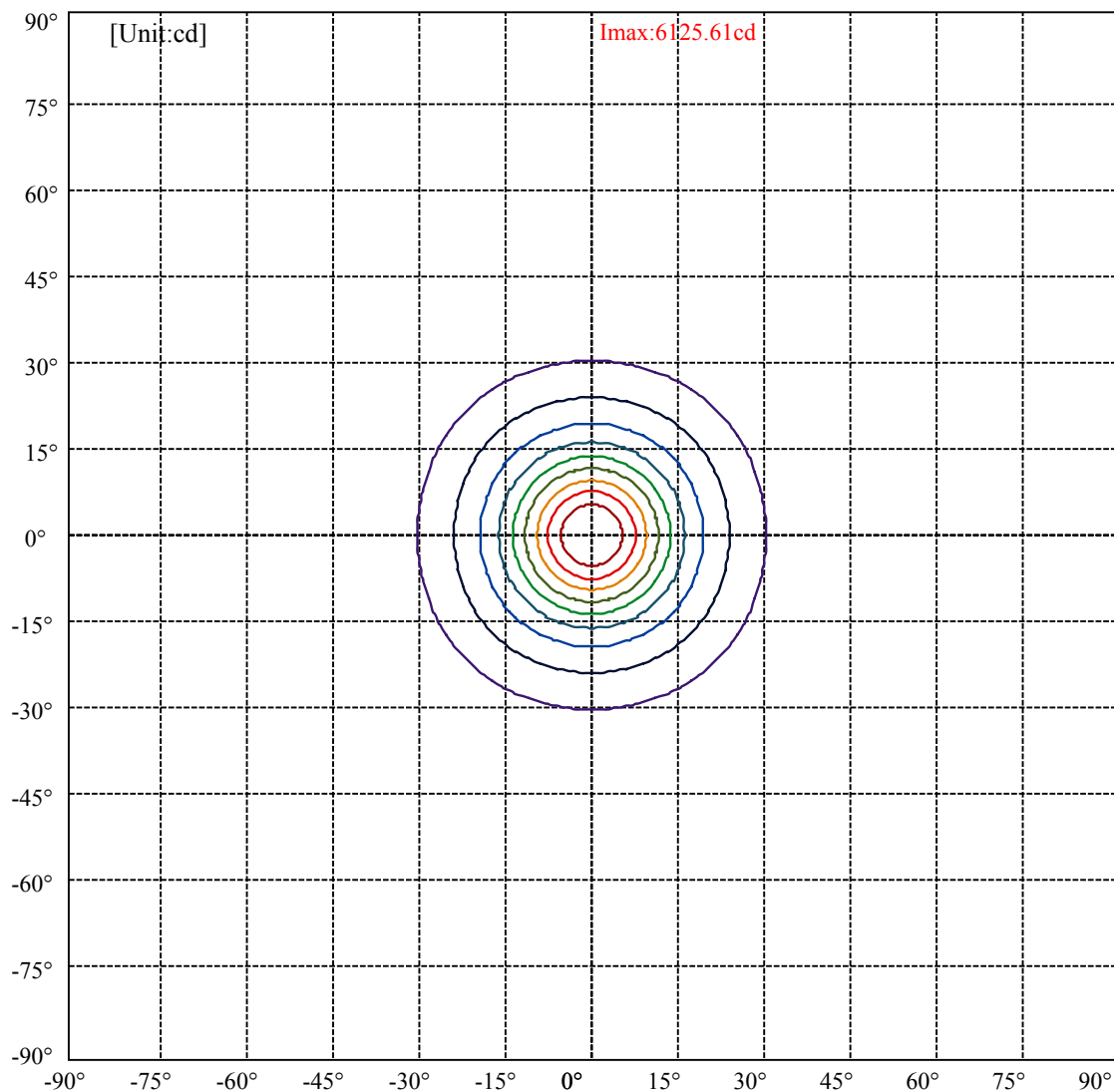
C0/C180: —————

C90/C270: —————

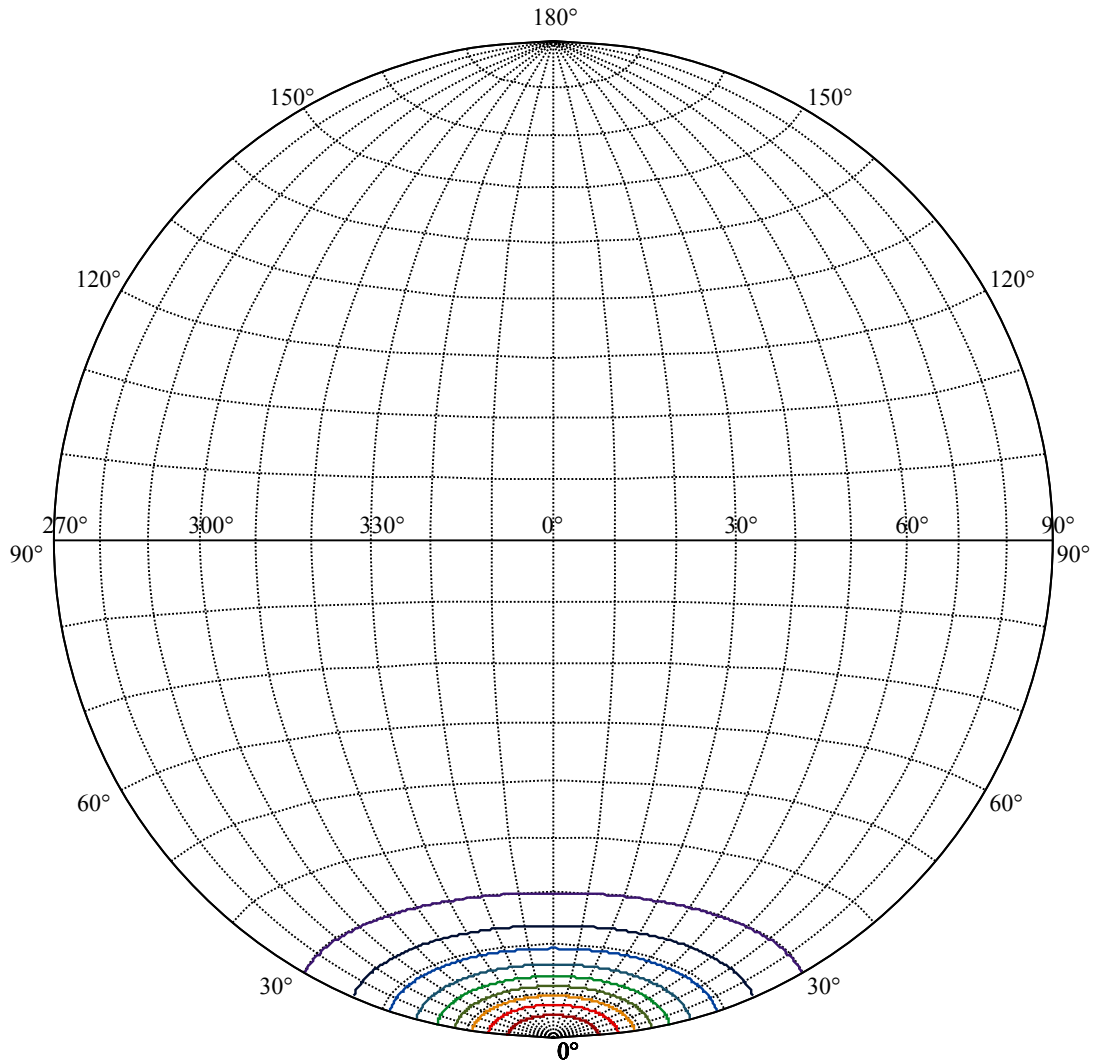
Field angle(10%Imax):C0/180Left:29.9 Right:29.9
:C90/270Left:29.9 Right:29.9

Beam Angle(50%Imax):C0/180Left:13.5 Right:13.5
:C90/270Left:13.5 Right:13.5





(10%Imax) 612.561	—
(20%Imax) 1225.12	—
(30%Imax) 1837.68	—
(40%Imax) 2450.24	—
(50%Imax) 3062.8	—
(60%Imax) 3675.37	—
(70%Imax) 4287.93	—
(80%Imax) 4900.49	—
(90%Imax) 5513.05	—



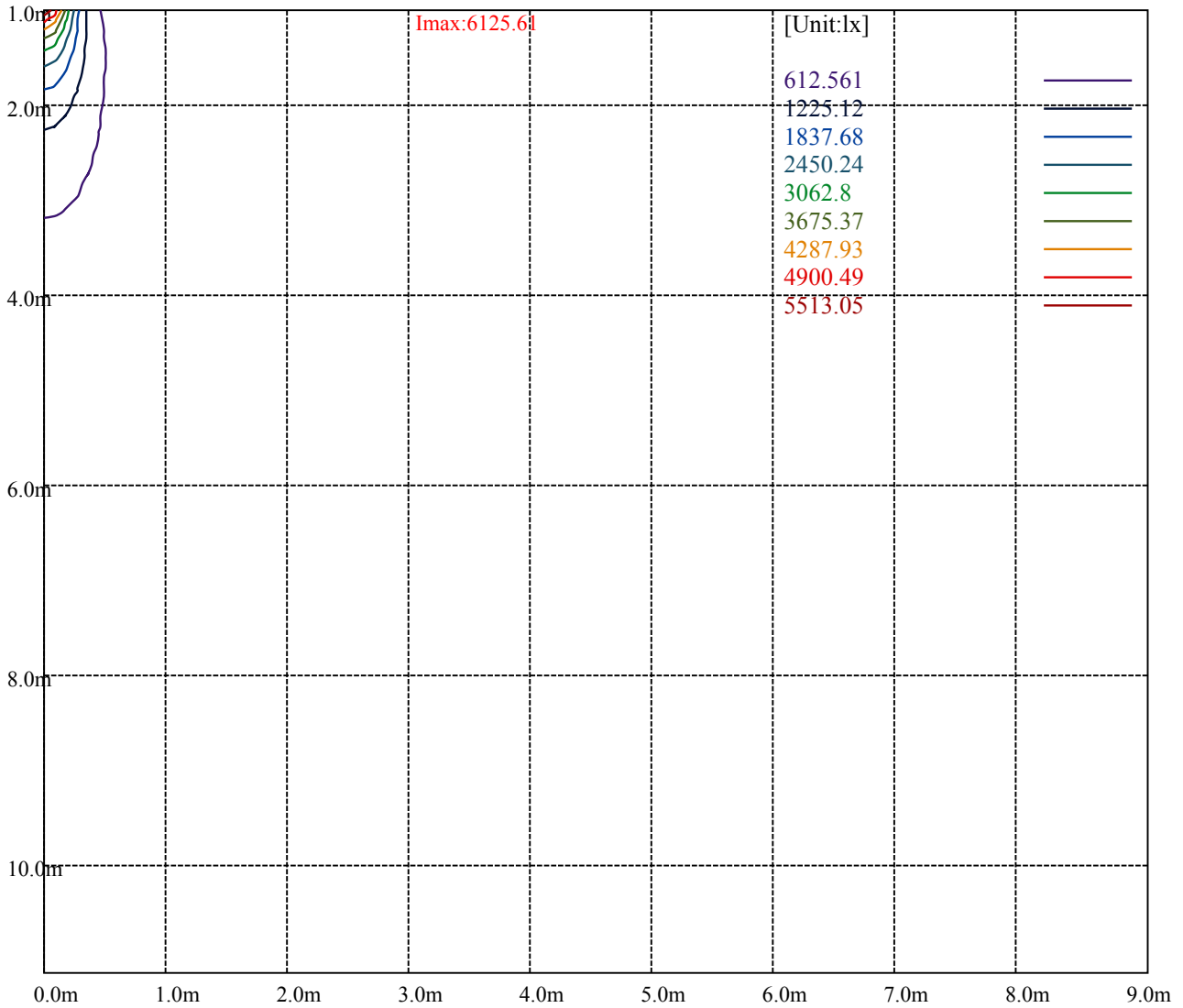
House

[Unit:cd]

Road

I_{max}:6125.61

(10%I _{max})	612.561	—
(20%I _{max})	1225.12	—
(30%I _{max})	1837.68	—
(40%I _{max})	2450.24	—
(50%I _{max})	3062.8	—
(60%I _{max})	3675.37	—
(70%I _{max})	4287.93	—
(80%I _{max})	4900.49	—
(90%I _{max})	5513.05	—



NT 2-2683-L 铝反光罩

Luminance Limiting Curve(no luminous side)

Luminance Table

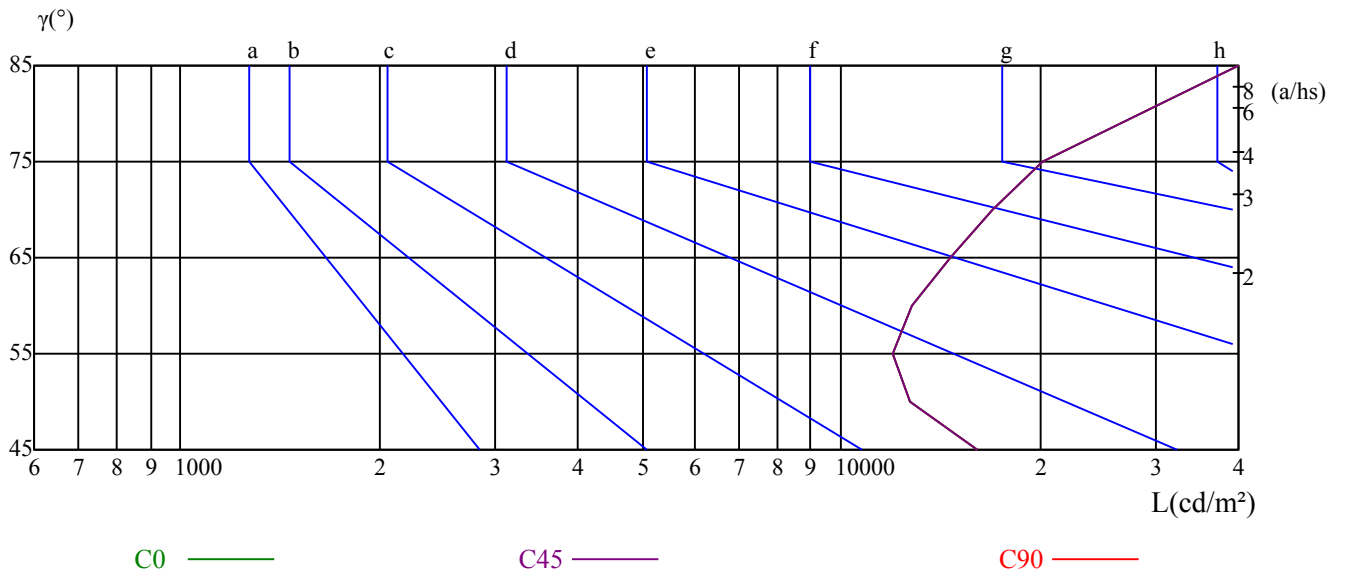
γ	45	50	55	60	65	70	75	80	85
C0	16110	12707	11994	12838	14615	16996	20243	28497	54367
C45	16110	12707	11994	12838	14615	16996	20243	28497	54367
C90	16110	12707	11994	12838	14615	16996	20243	28497	54367

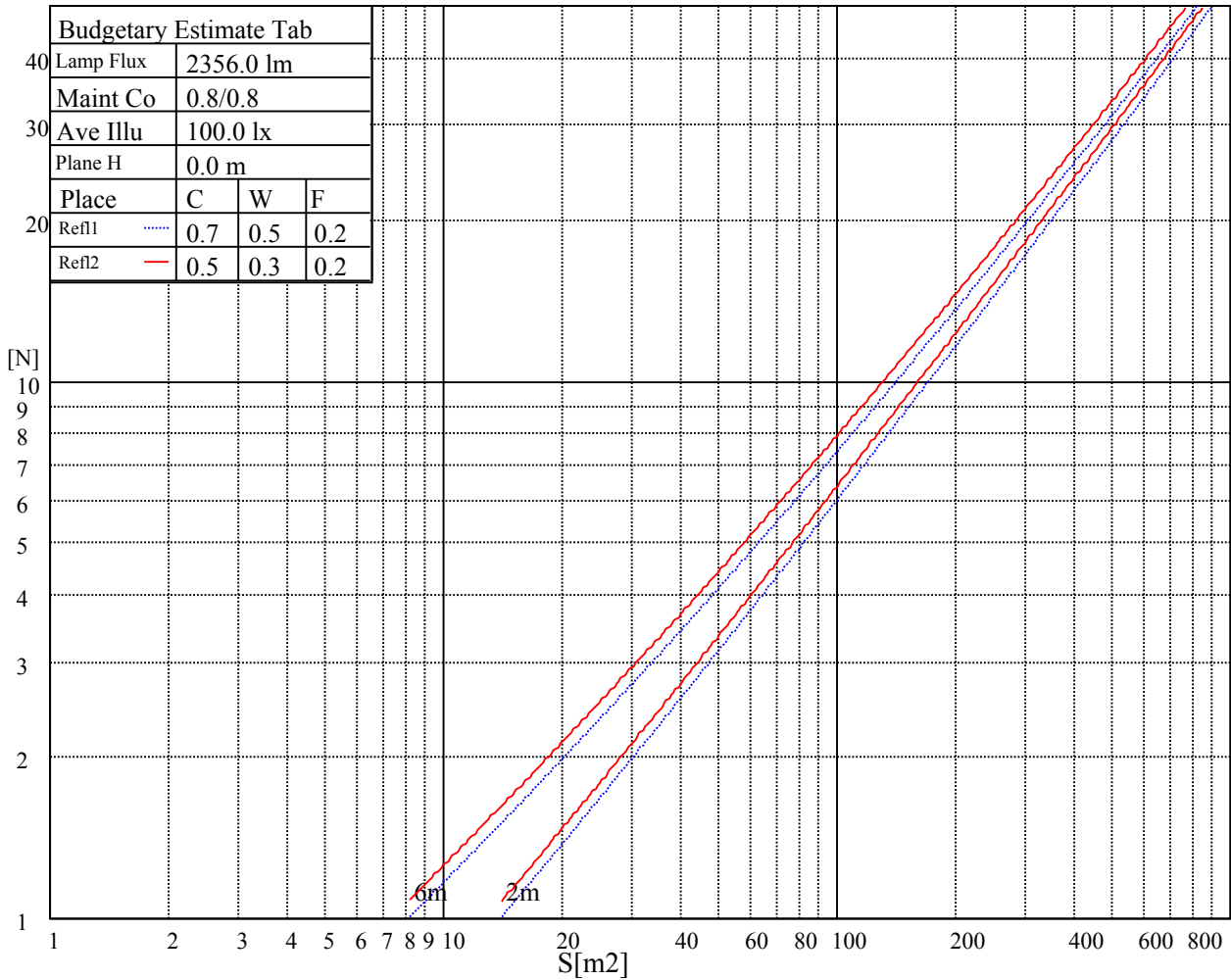
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14615	14615	14615	20243	20243	20243	54367	54367	54367

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



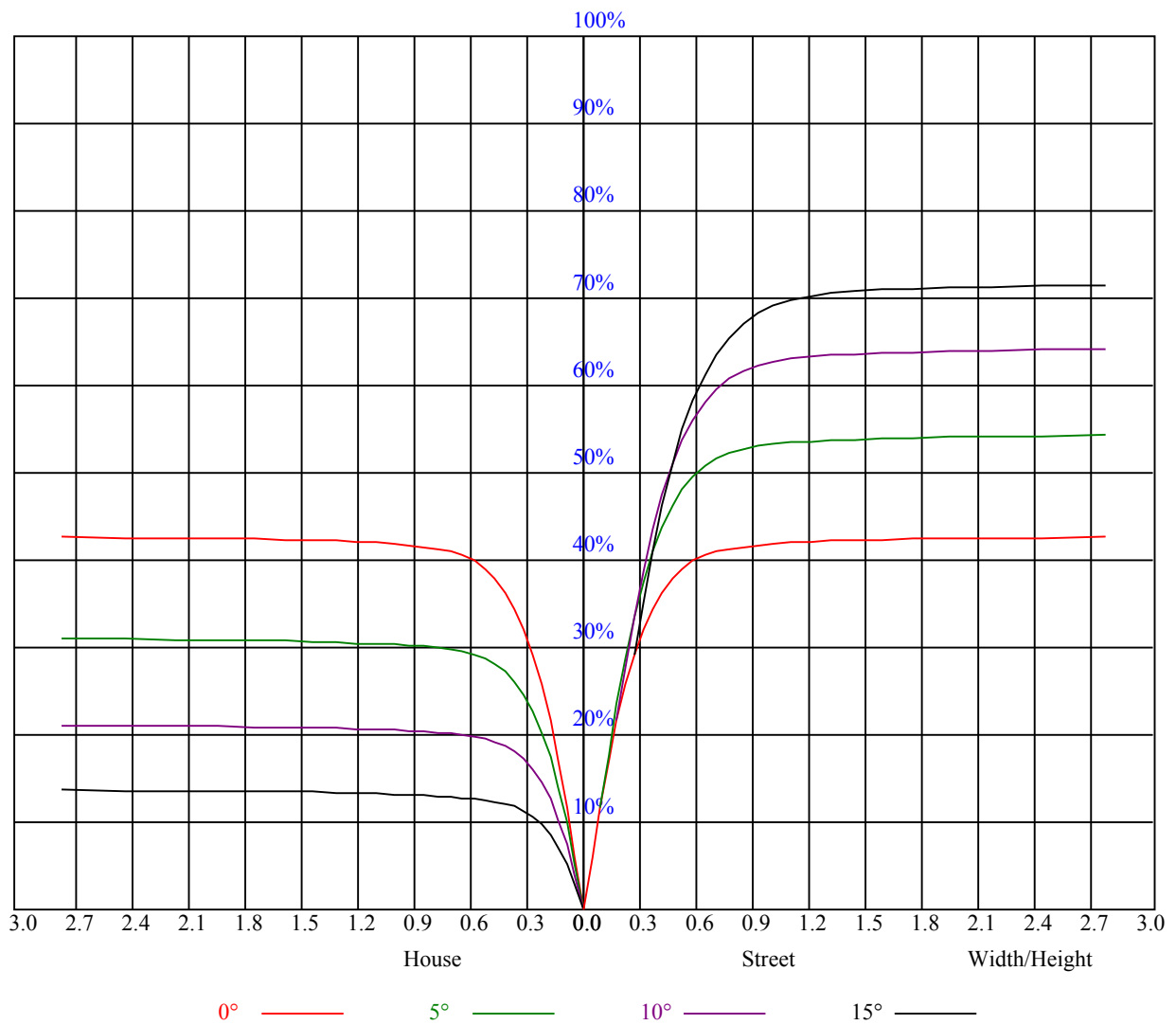


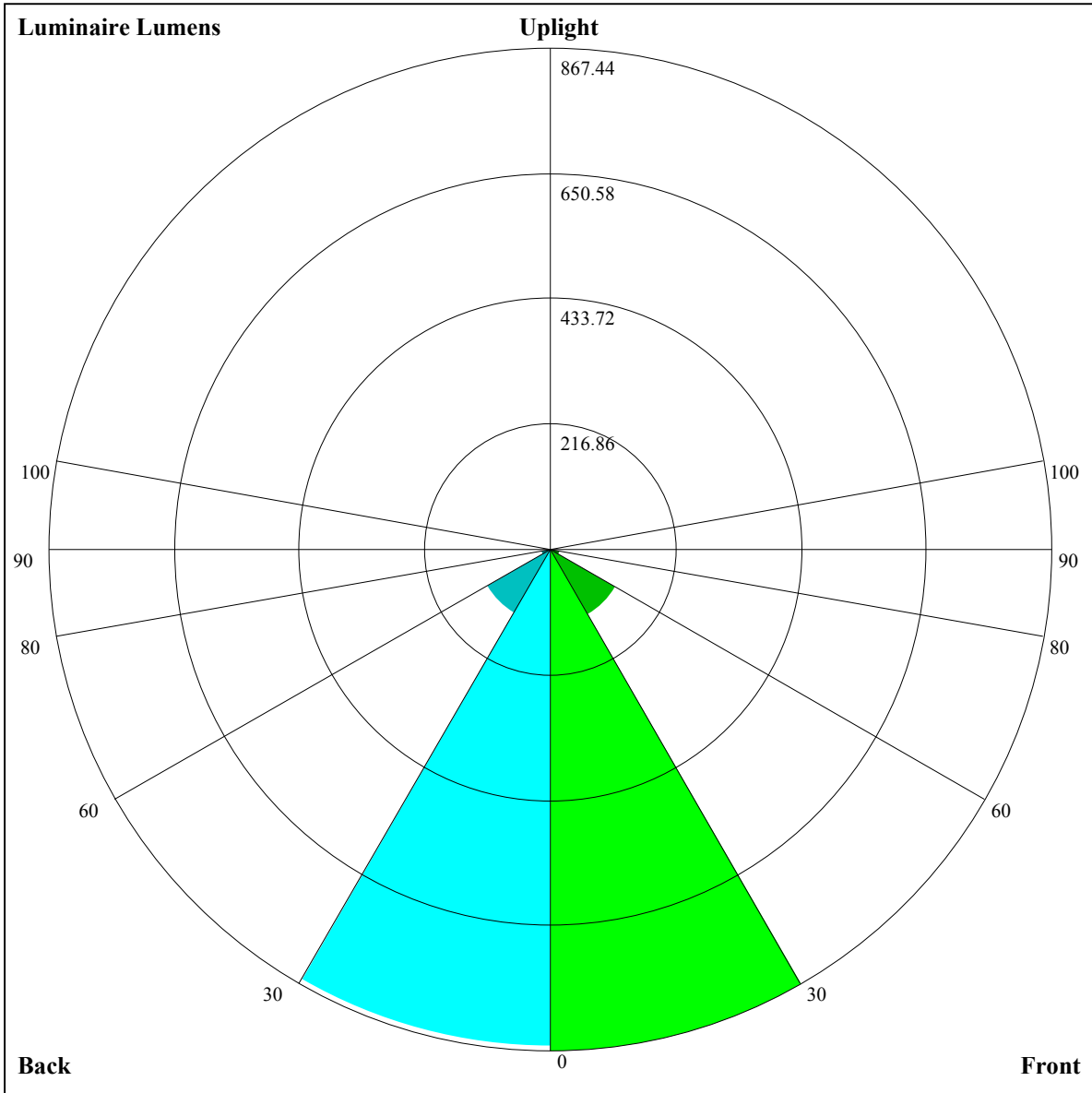
NT 2-2683-L 铝反光罩

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	0.96	0.96	0.96	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	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.84	0.83	0.81
2	0.90	0.87	0.84	0.89	0.86	0.83	0.86	0.84	0.82	0.83	0.82	0.80	0.81	0.80	0.78	0.77
3	0.85	0.81	0.78	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.77	0.75	0.78	0.76	0.74	0.73
4	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.74	0.72	0.75	0.73	0.71	0.70
5	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.73	0.70	0.68	0.72	0.70	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	0.59	0.64	0.61	0.59	0.58
9	0.65	0.60	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=867.44,FM=131.66,FH=15.62,FVH=5.16

BL=858.82,BM=128.55,BH=15.68,BVH=5.16

UL=0,UH=0

BUG Rating:B2-U0-G0

NT 2-2683-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	6159.55	6122.10	6035.48	5925.46	5728.24	5515.80	5275.28	5009.58	4659.62
45.0	6091.08	6170.67	6206.37	6199.93	6154.28	6065.33	5924.29	5730.58	5440.90
90.0	6165.99	6212.81	6197.59	6156.63	6110.39	5988.67	5818.95	5547.99	5280.54
135.0	6085.81	6144.34	6158.97	6126.19	6060.06	5967.01	5799.05	5615.29	5318.00
180.0	6159.55	6147.85	6095.18	6018.51	5868.69	5691.37	5413.39	5130.14	4828.75
225.0	6091.08	5986.91	5789.69	5591.88	5347.26	4995.54	4667.23	4336.58	4004.75
270.0	6165.99	6081.13	5964.67	5753.99	5545.07	5280.54	4990.86	4671.32	4255.23
315.0	6085.81	5982.23	5804.32	5618.80	5383.54	5045.28	4749.74	4433.72	4104.83
360.0	6159.55	6122.10	6035.48	5925.46	5728.24	5515.80	5275.28	5009.58	4659.62
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4370.52	4058.01	3689.90	3414.26	3085.36	2840.74	2600.80	2379.00	2131.45
45.0	5179.88	4902.49	4608.71	4242.94	3946.23	3648.94	3363.93	3029.77	2779.29
90.0	4996.71	4622.17	4326.63	4036.94	3733.79	3371.54	3090.63	2834.89	2597.29
135.0	5032.99	4739.21	4430.21	4043.96	3742.57	3449.37	3181.93	2868.83	2635.33
180.0	4430.21	4104.83	3788.22	3494.44	3161.44	2920.33	2685.07	2462.10	2206.94
225.0	3621.43	3352.81	3099.41	2853.03	2552.81	2329.84	2130.28	1918.43	1772.12
270.0	3946.82	3581.64	3313.02	3055.52	2735.99	2493.70	2277.75	2047.18	1884.48
315.0	3731.45	3457.57	3198.31	2891.66	2648.20	2368.46	2165.98	1992.75	1833.57
360.0	4370.52	4058.01	3689.90	3414.26	3085.36	2840.74	2600.80	2379.00	2131.45
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1962.90	1813.67	1679.07	1523.98	1409.28	1149.97	1149.97	1077.98	984.06
45.0	2487.26	2276.00	2088.14	1882.14	1740.52	1603.58	1451.42	1338.47	1231.37
90.0	2329.25	2138.47	1968.76	1782.07	1641.61	1513.45	1286.97	1151.14	1151.14
135.0	2417.62	2218.65	2002.70	1851.13	1677.31	1549.15	1429.76	1293.41	1189.82
180.0	2030.20	1869.85	1688.43	1550.90	1433.86	1298.67	1197.43	1102.62	984.41
225.0	1597.14	1477.17	1294.58	1162.37	1138.67	1045.68	957.31	870.41	760.44
270.0	1734.67	1602.99	1447.91	1338.47	1237.81	1141.83	1027.13	938.17	850.98
315.0	1658.59	1533.93	1423.33	1154.41	1154.41	1109.06	1018.41	927.87	815.16
360.0	1962.90	1813.67	1679.07	1523.98	1409.28	1149.97	1149.97	1077.98	984.06
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	891.65	775.42	684.89	594.24	487.67	412.35	340.31	294.13	254.46
45.0	1128.37	1030.05	913.01	821.71	731.59	620.40	534.37	434.88	369.92
90.0	1027.42	930.92	841.73	750.26	635.26	546.48	462.56	391.05	321.35
135.0	1086.82	988.50	868.53	773.73	679.50	589.97	482.87	408.55	349.44
180.0	893.11	804.16	709.94	593.48	505.11	425.52	361.14	298.52	298.52
225.0	673.01	585.23	499.43	403.28	343.47	294.78	243.40	209.51	179.08
270.0	739.20	651.41	563.04	456.53	383.97	314.32	302.03	302.03	194.12
315.0	724.86	633.27	522.20	440.44	357.98	305.78	261.07	223.56	181.95
360.0	891.65	775.42	684.89	594.24	487.67	412.35	340.31	294.13	254.46
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	220.22	189.50	156.31	132.90	113.53	93.28	80.12	69.41	61.10
45.0	319.59	296.77	296.77	196.69	168.78	144.26	118.22	100.95	86.50
90.0	277.10	240.47	201.26	173.81	143.91	122.78	104.58	89.42	73.74
135.0	302.03	302.03	214.37	177.09	150.99	123.60	105.05	89.48	76.43
180.0	247.37	179.31	152.22	124.59	105.81	89.48	75.90	62.68	54.95
225.0	147.36	126.17	108.27	89.54	76.43	65.84	57.53	50.21	45.59
270.0	165.50	135.54	116.23	99.90	82.75	71.28	61.98	54.95	48.22
315.0	155.20	132.20	112.83	92.82	79.18	68.06	57.53	51.38	46.88
360.0	220.22	189.50	156.31	132.90	113.53	93.28	80.12	69.41	61.10

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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	53.26	48.57	45.06	43.25	41.38	39.80	38.51	37.34	35.99
45.0	74.38	62.33	55.19	48.63	44.77	42.02	39.68	37.98	37.04
90.0	63.85	55.95	50.27	45.06	42.25	40.44	38.45	37.16	36.58
135.0	63.73	56.06	50.50	46.17	42.25	40.67	39.33	38.10	36.87
180.0	49.39	45.00	41.02	39.39	37.98	36.52	35.46	34.65	33.36
225.0	42.49	40.61	38.39	37.04	36.05	35.00	33.88	32.66	31.54
270.0	44.36	41.43	39.44	37.75	36.46	35.52	34.53	33.42	31.89
315.0	42.49	40.26	38.39	36.64	35.82	34.65	33.42	32.36	31.08
360.0	53.26	48.57	45.06	43.25	41.38	39.80	38.51	37.34	35.99
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	34.70	32.71	31.25	29.50	27.39	25.75	24.05	22.47	21.36
45.0	35.93	34.59	33.65	32.42	30.78	29.38	27.80	26.22	24.17
90.0	35.23	34.12	33.07	31.49	30.20	28.85	26.80	25.28	23.70
135.0	36.28	34.88	33.94	32.71	31.19	29.79	28.09	26.57	24.58
180.0	32.42	31.13	29.96	28.68	27.15	25.52	24.11	22.71	21.71
225.0	30.31	28.38	26.92	25.52	23.94	22.71	21.48	20.13	18.96
270.0	30.84	29.50	27.92	26.16	24.64	23.17	21.95	20.72	19.14
315.0	29.96	28.15	26.69	25.34	23.82	22.30	21.36	19.72	18.73
360.0	34.70	32.71	31.25	29.50	27.39	25.75	24.05	22.47	21.36
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.72	18.79	17.97	16.91	15.80	15.10	14.51	13.93	13.40
45.0	22.71	21.77	20.37	19.25	18.20	17.38	16.39	15.57	14.75
90.0	22.53	21.30	20.13	19.14	18.32	17.21	16.21	15.33	14.69
135.0	23.17	22.12	21.01	19.61	18.73	17.79	16.50	15.68	15.04
180.0	20.37	19.08	18.14	17.26	15.92	15.10	14.51	13.81	13.34
225.0	17.85	16.80	15.63	14.92	14.28	13.64	13.28	12.87	12.58
270.0	18.32	17.32	16.27	15.27	14.69	14.10	13.64	13.17	12.82
315.0	17.91	16.56	15.63	15.04	14.46	13.75	13.34	12.99	12.70
360.0	19.72	18.79	17.97	16.91	15.80	15.10	14.51	13.93	13.40
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.99	12.64	12.29	11.94	11.65	11.29	11.00	10.77	10.48
45.0	14.16	13.64	13.11	12.76	12.47	12.17	11.88	11.53	11.24
90.0	14.10	13.52	13.17	12.87	12.52	12.17	11.88	11.59	11.24
135.0	14.28	13.81	13.40	12.99	12.64	12.35	12.06	11.70	11.41
180.0	12.87	12.52	12.23	11.88	11.53	11.29	11.06	10.77	10.48
225.0	12.17	11.88	11.65	11.35	11.00	10.77	10.53	10.30	10.07
270.0	12.52	12.17	11.82	11.53	11.24	10.89	10.71	10.48	10.24
315.0	12.29	12.00	11.76	11.47	11.12	10.77	10.59	10.36	10.12
360.0	12.99	12.64	12.29	11.94	11.65	11.29	11.00	10.77	10.48
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.18	9.95	9.71	9.42	9.31	9.01	8.84	9.01	8.49
45.0	10.89	10.65	10.24	10.01	9.71	9.42	9.31	9.07	8.90
90.0	10.83	10.48	10.24	9.95	9.71	9.48	9.31	9.07	8.95
135.0	11.06	10.71	10.42	10.07	9.83	9.60	9.42	9.19	9.01
180.0	10.30	10.01	9.77	9.54	9.25	9.01	8.90	8.72	8.49
225.0	9.89	9.60	9.31	9.07	8.84	8.60	8.49	8.43	8.43
270.0	10.01	9.89	9.71	9.48	8.90	8.72	8.54	8.49	8.49
315.0	9.83	9.66	9.48	9.25	8.90	8.84	8.60	8.60	8.66
360.0	10.18	9.95	9.71	9.42	9.31	9.01	8.84	9.01	8.49

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Intensity data(cd)

Appendix Page: 19 Total:19

C/γ(°)	90.0
0.0	8.54
45.0	8.95
90.0	8.95
135.0	9.01
180.0	8.43
225.0	8.43
270.0	8.54
315.0	8.60
360.0	8.54