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NT

Client:

LumCAT: 2-1564-M 铝反光罩

Luminaire: GH36D-B40 Hodel

Report No: 2024510-B004

Ballast type: AC

Test No: 2024510-C004

Voltage(V): 32.910

LampCAT: LUMINUS CXM-14-AC40

Current(A): 0.381

Lamp flux(lm): 2173.0

Power (W): 12.538

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1992.95, Efficiency(%): 91.71% , Luminous Efficacy(lm/W): 158.95

Central intensity(cd): 3130.281, Maximum intensity(cd): 3130.281

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=45.0

[C90/270]Total=45.0

Field angle(10%Imax): [C0/180]Total=78.4

[C90/270]Total=78.4

Maximum s/h(1/2): C0_180=0.68 C90_270=0.68

Maximum s/h(1/4): C0_180=0.76 C90_270=0.76

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.71%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.732%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/5/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 2-1564-M 铝反光罩

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	3130.281	0.000	0	0.00%	0.00%
1.0	3123.697	2.992	2.992	0.14%	0.15%
2.0	3105.262	8.940	11.933	0.41%	0.60%
3.0	3077.610	14.787	26.72	0.68%	1.34%
4.0	3034.743	20.460	47.18	0.94%	2.37%
5.0	2978.342	25.868	73.048	1.19%	3.67%
6.0	2909.797	30.944	103.992	1.42%	5.22%
7.0	2837.668	35.674	139.666	1.64%	7.01%
8.0	2755.152	40.027	179.693	1.84%	9.02%
9.0	2669.636	43.965	223.658	2.02%	11.22%
10.0	2582.364	47.529	271.187	2.19%	13.61%
11.0	2500.140	50.785	321.971	2.34%	16.16%
12.0	2414.112	53.720	375.691	2.47%	18.85%
13.0	2326.913	56.264	431.955	2.59%	21.67%
14.0	2245.640	58.528	490.483	2.69%	24.61%
15.0	2163.928	60.537	551.02	2.79%	27.65%
16.0	2080.094	62.187	613.207	2.86%	30.77%
17.0	1999.187	63.525	676.732	2.92%	33.96%
18.0	1918.792	64.599	741.331	2.97%	37.20%
19.0	1839.860	65.393	806.724	3.01%	40.48%
20.0	1758.221	65.855	872.579	3.03%	43.78%
21.0	1681.410	66.048	938.627	3.04%	47.10%
22.0	1602.551	65.993	1004.619	3.04%	50.41%
23.0	1530.788	65.746	1070.365	3.03%	53.71%
24.0	1460.341	65.397	1135.762	3.01%	56.99%
25.0	1371.116	64.381	1200.143	2.96%	60.22%
26.0	1288.066	62.770	1262.913	2.89%	63.37%
27.0	1222.264	61.416	1324.329	2.83%	66.45%
28.0	1167.341	60.500	1384.829	2.78%	69.49%
29.0	1100.911	59.344	1444.173	2.73%	72.46%
30.0	1034.275	57.650	1501.822	2.65%	75.36%
31.0	965.255	55.644	1557.467	2.56%	78.15%
32.0	897.026	53.352	1610.819	2.46%	80.83%
33.0	824.823	50.726	1661.545	2.33%	83.37%
34.0	747.925	47.596	1709.141	2.19%	85.76%
35.0	665.350	43.891	1753.032	2.02%	87.96%
36.0	583.316	39.758	1792.79	1.83%	89.96%
37.0	496.680	35.223	1828.013	1.62%	91.72%

Equipment: GMS1980
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NT 2-1564-M 铝反光罩

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	416.088	30.467	1858.48	1.40%	93.25%
39.0	329.072	25.434	1883.915	1.17%	94.53%
40.0	262.993	20.649	1904.564	0.95%	95.57%
41.0	205.451	16.681	1921.245	0.77%	96.40%
42.0	146.116	12.773	1934.018	0.59%	97.04%
43.0	76.972	8.264	1942.282	0.38%	97.46%
44.0	50.629	4.816	1947.098	0.22%	97.70%
45.0	35.801	3.322	1950.419	0.15%	97.87%
46.0	27.608	2.480	1952.899	0.11%	97.99%
47.0	21.844	1.967	1954.866	0.09%	98.09%
48.0	17.908	1.607	1956.473	0.07%	98.17%
49.0	14.923	1.348	1957.821	0.06%	98.24%
50.0	12.948	1.162	1958.983	0.05%	98.30%
51.0	11.617	1.039	1960.022	0.05%	98.35%
52.0	10.702	0.958	1960.98	0.04%	98.40%
53.0	10.037	0.902	1961.882	0.04%	98.44%
54.0	9.605	0.866	1962.748	0.04%	98.48%
55.0	9.298	0.844	1963.592	0.04%	98.53%
56.0	9.042	0.829	1964.42	0.04%	98.57%
57.0	8.866	0.819	1965.239	0.04%	98.61%
58.0	8.713	0.813	1966.052	0.04%	98.65%
59.0	8.603	0.810	1966.862	0.04%	98.69%
60.0	8.500	0.808	1967.67	0.04%	98.73%
61.0	8.435	0.808	1968.478	0.04%	98.77%
62.0	8.354	0.809	1969.287	0.04%	98.81%
63.0	8.288	0.809	1970.096	0.04%	98.85%
64.0	8.237	0.811	1970.907	0.04%	98.89%
65.0	8.200	0.813	1971.721	0.04%	98.94%
66.0	8.157	0.816	1972.537	0.04%	98.98%
67.0	8.127	0.819	1973.356	0.04%	99.02%
68.0	8.091	0.822	1974.177	0.04%	99.06%
69.0	8.061	0.824	1975.001	0.04%	99.10%
70.0	8.032	0.827	1975.828	0.04%	99.14%
71.0	8.032	0.830	1976.658	0.04%	99.18%
72.0	8.003	0.834	1977.492	0.04%	99.22%
73.0	7.996	0.837	1978.328	0.04%	99.27%
74.0	7.988	0.840	1979.169	0.04%	99.31%
75.0	7.981	0.844	1980.012	0.04%	99.35%

Equipment: GMS1980
Temperature($^{\circ}$ C): 25.0

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Zonal flux distribution table

Appendix Page: 4 Total:19

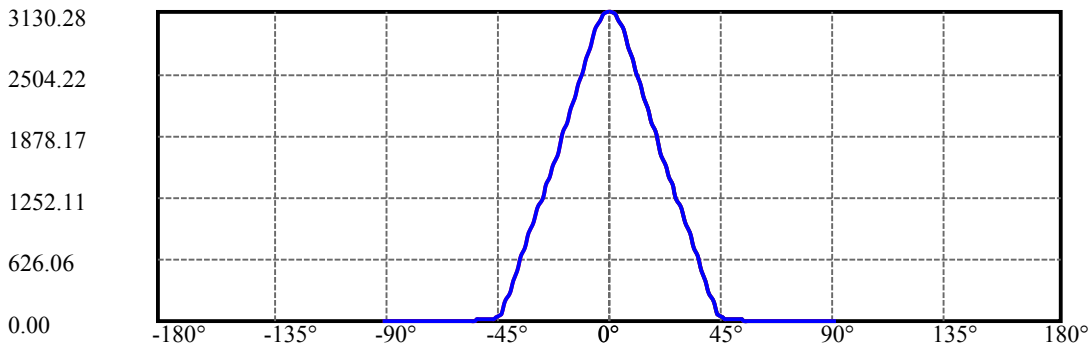
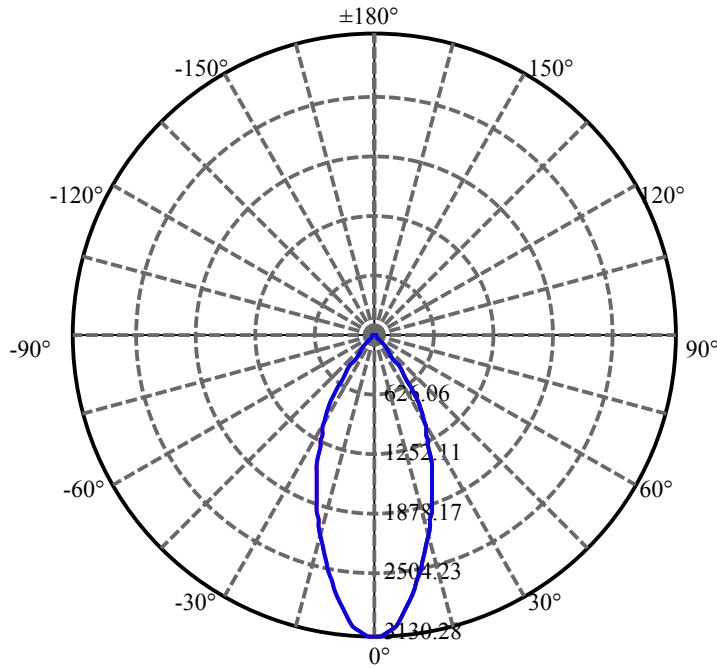
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.974	0.847	1980.859	0.04%	99.39%
77.0	7.959	0.849	1981.709	0.04%	99.44%
78.0	7.966	0.853	1982.561	0.04%	99.48%
79.0	7.959	0.856	1983.417	0.04%	99.52%
80.0	7.959	0.858	1984.275	0.04%	99.56%
81.0	7.959	0.861	1985.136	0.04%	99.61%
82.0	7.959	0.863	1985.999	0.04%	99.65%
83.0	7.959	0.865	1986.865	0.04%	99.69%
84.0	7.944	0.866	1987.731	0.04%	99.74%
85.0	7.937	0.867	1988.598	0.04%	99.78%
86.0	7.937	0.868	1989.465	0.04%	99.83%
87.0	7.944	0.869	1990.335	0.04%	99.87%
88.0	7.952	0.871	1991.205	0.04%	99.91%
89.0	7.922	0.870	1992.075	0.04%	99.96%
90.0	7.944	0.870	1992.945	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1501.82	69.11%	75.36%
0-40	1904.56	87.65%	95.57%
0-60	1967.67	90.55%	98.73%
0-90	1992.08	91.67%	99.96%
0-120	1992.08	91.67%	99.96%
0-180	1992.95	91.71%	100.00%
60-90	24.41	1.12%	1.22%
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%
0-31.69	1594.36	73.37%	80.00%

ZONAL LUMEN SUMMARY

0-10	271.19
10-20	601.39
20-30	629.24
30-40	402.74
40-50	54.42
50-60	8.69
60-70	8.16
70-80	8.45
80-90	7.80
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



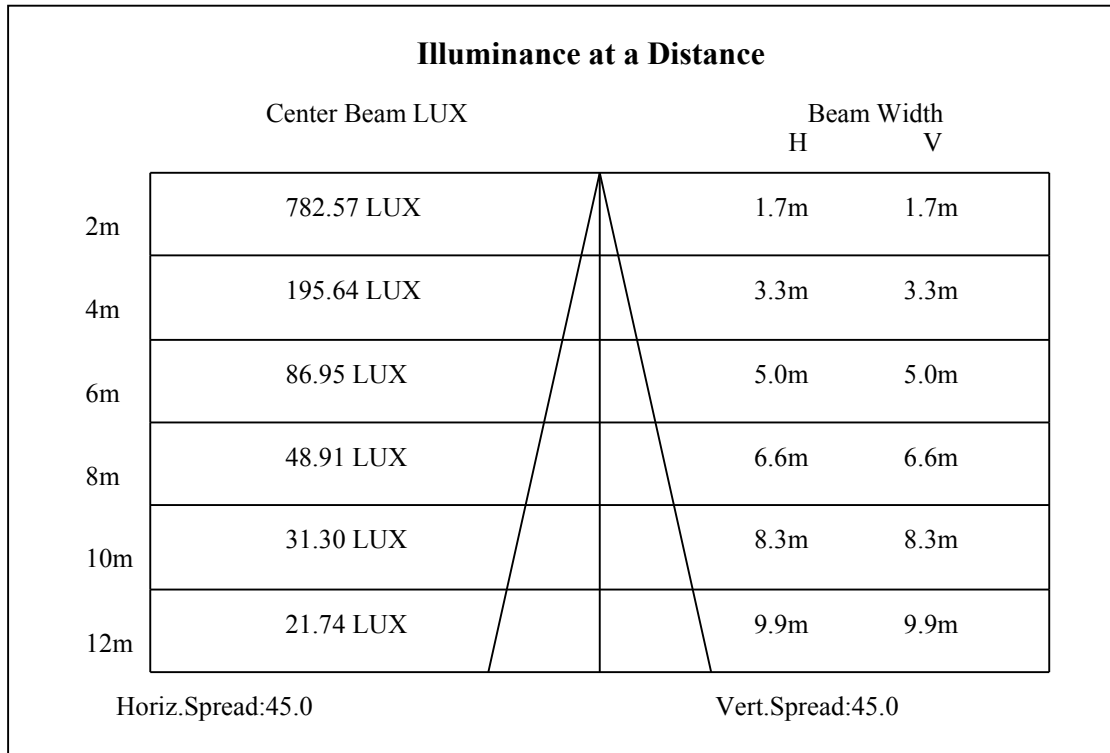
C0(Max): ———

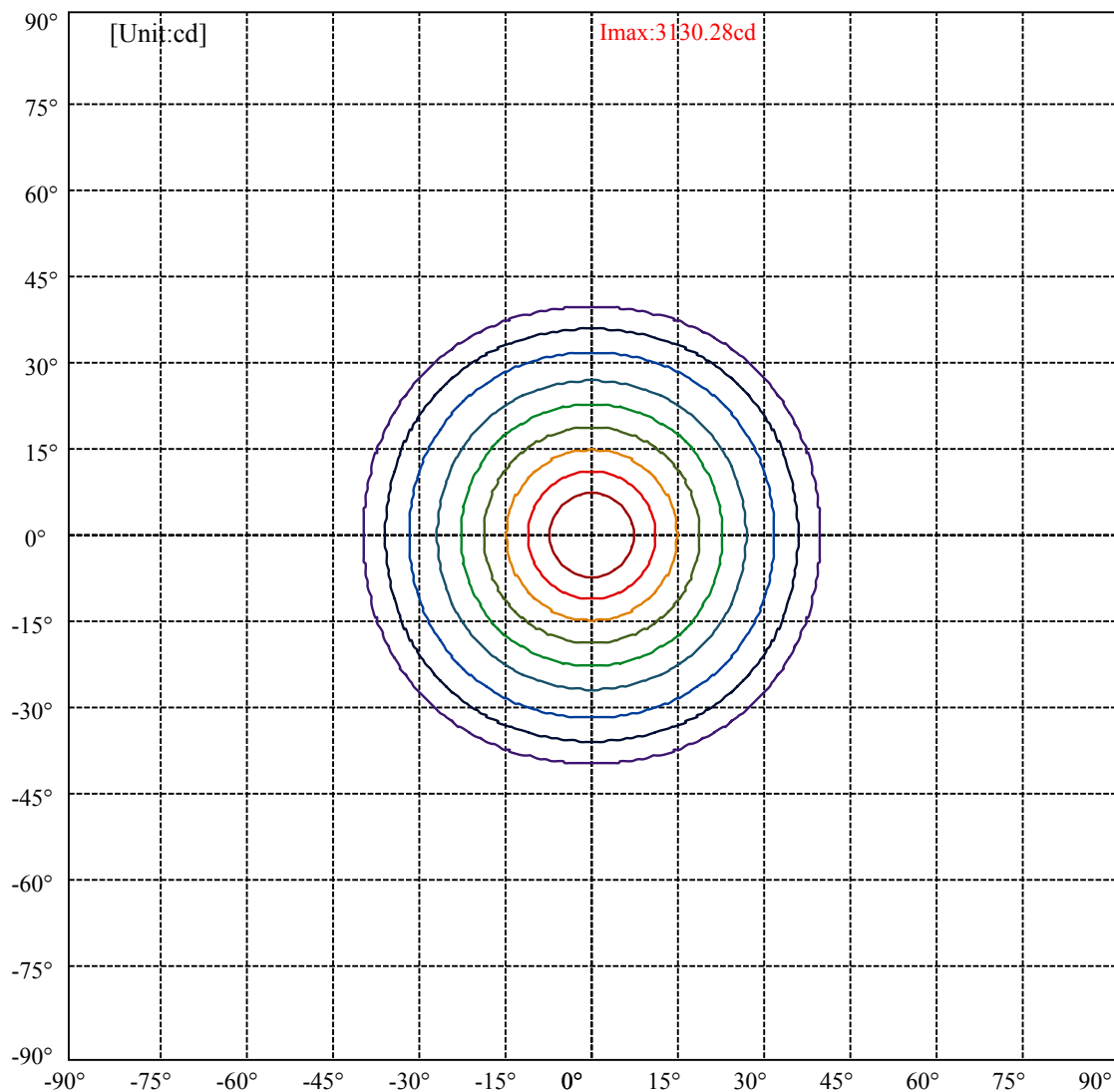
C0/C180: ———

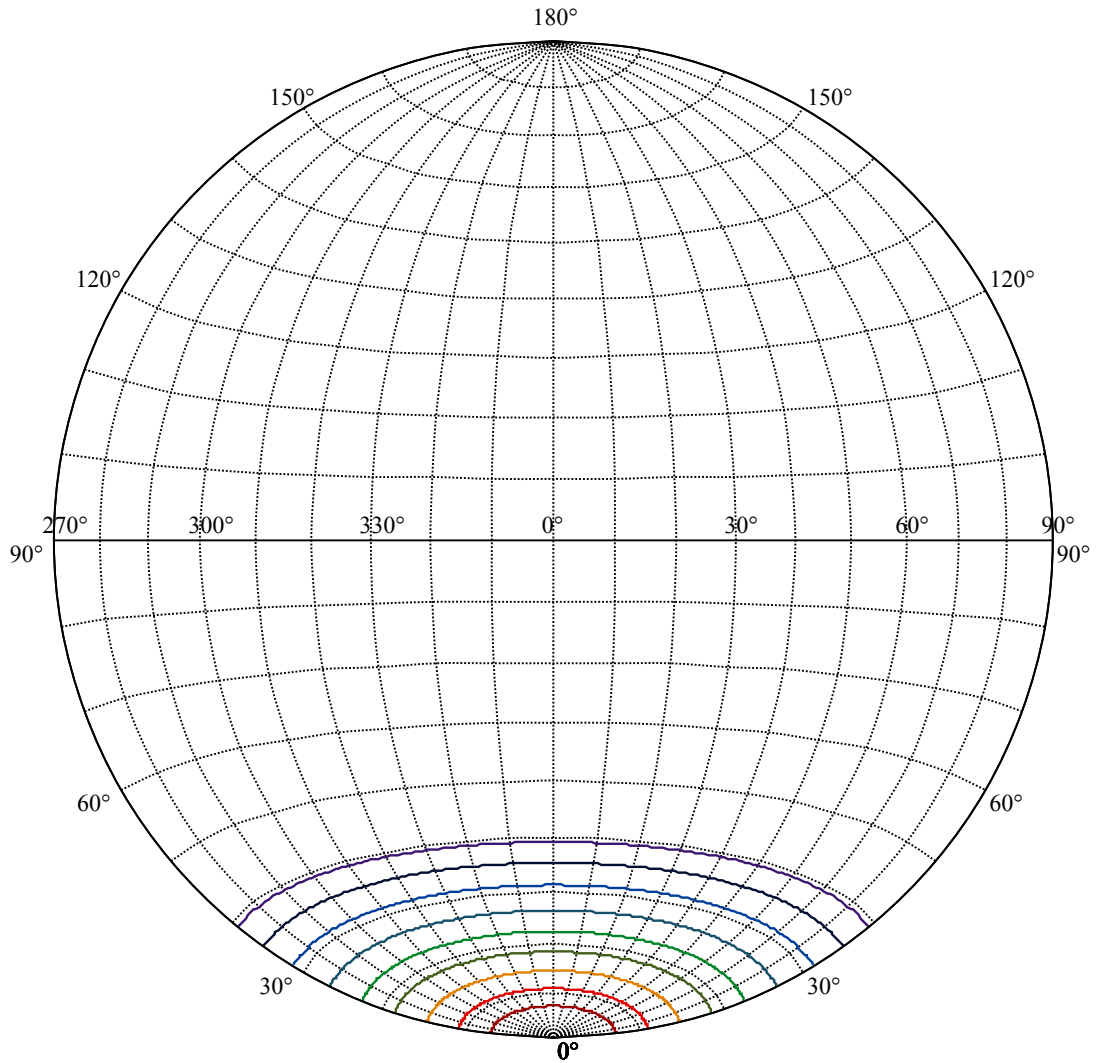
C90/C270: ———

Field angle(10%Imax):C0/180Left:39.2 Right:39.2
:C90/270Left:39.2 Right:39.2

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

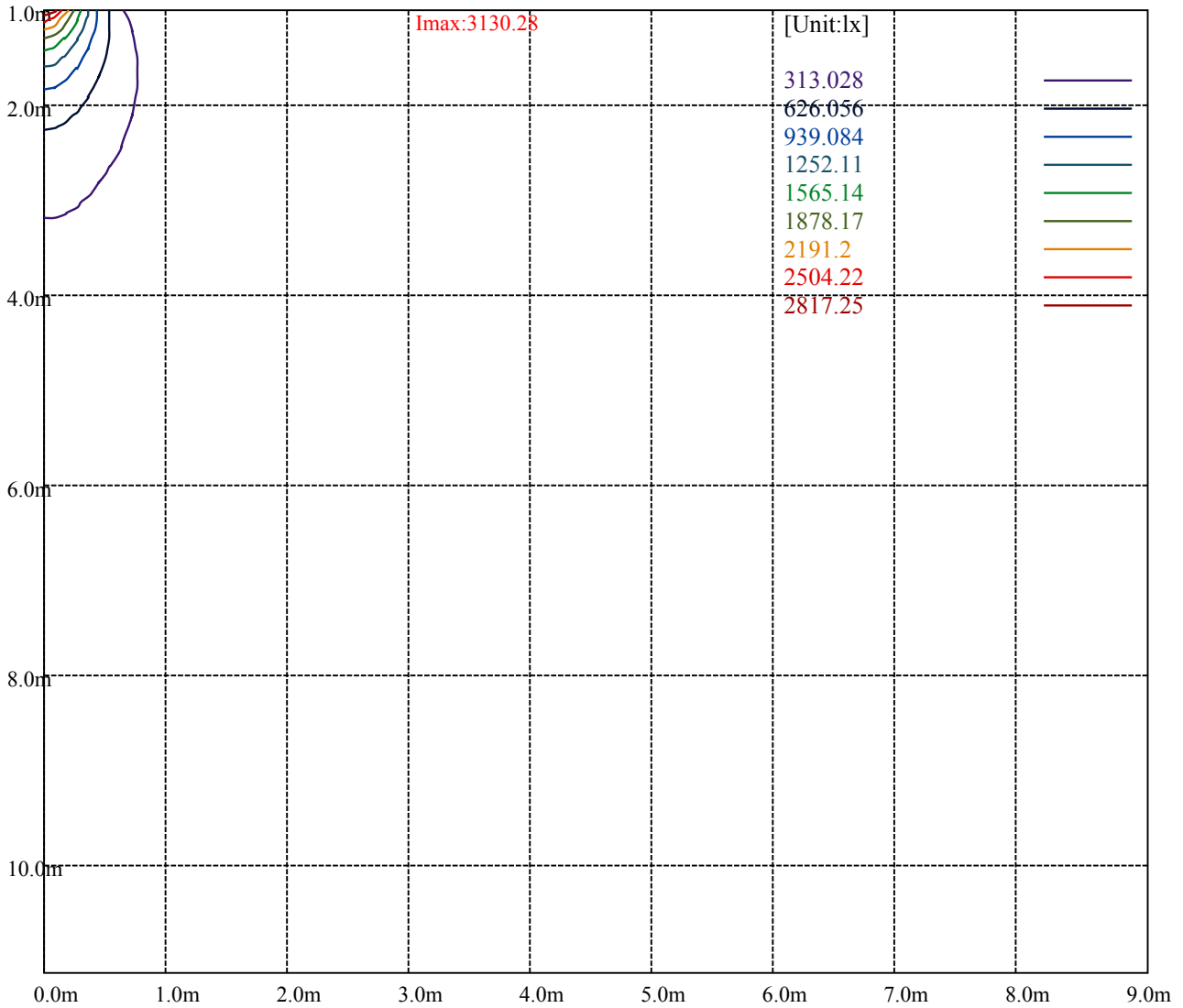






Imax:3130.28

(10%Imax)	313.028	—
(20%Imax)	626.056	—
(30%Imax)	939.084	—
(40%Imax)	1252.11	—
(50%Imax)	1565.14	—
(60%Imax)	1878.17	—
(70%Imax)	2191.2	—
(80%Imax)	2504.22	—
(90%Imax)	2817.25	—



NT 2-1564-M 铝反光罩

Luminance Limiting Curve(no luminous side)

Luminance Table

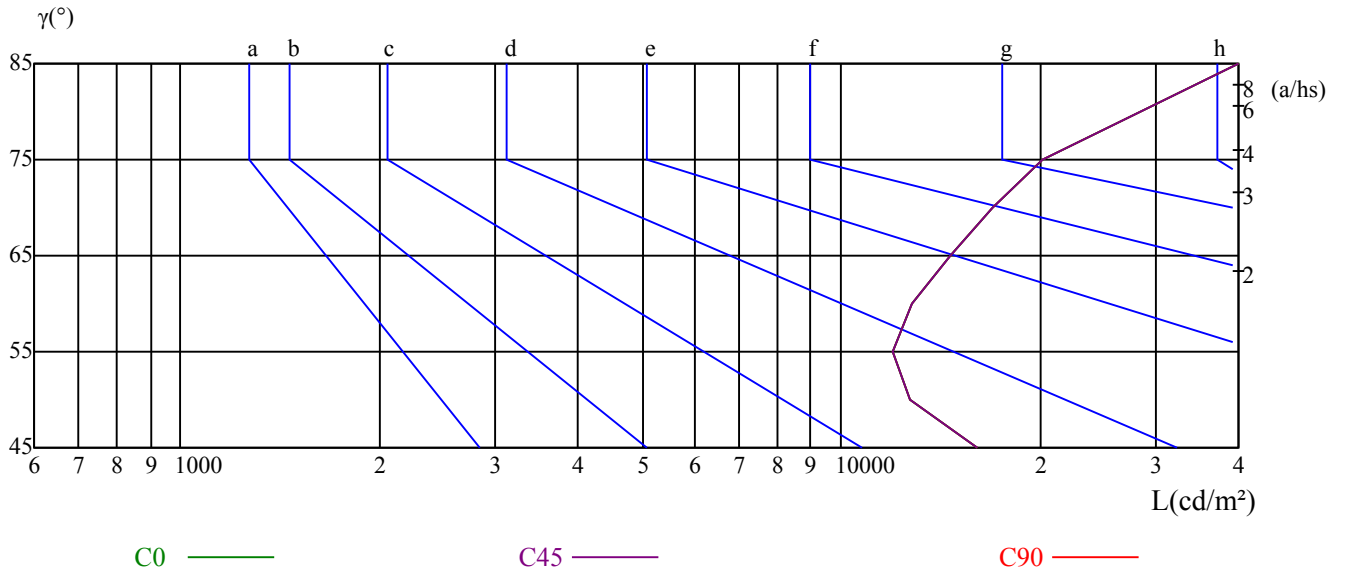
γ	45	50	55	60	65	70	75	80	85
C0	16110	12707	11994	12838	14615	16996	20243	28497	54367
C45	16110	12707	11994	12838	14615	16996	20243	28497	54367
C90	16110	12707	11994	12838	14615	16996	20243	28497	54367

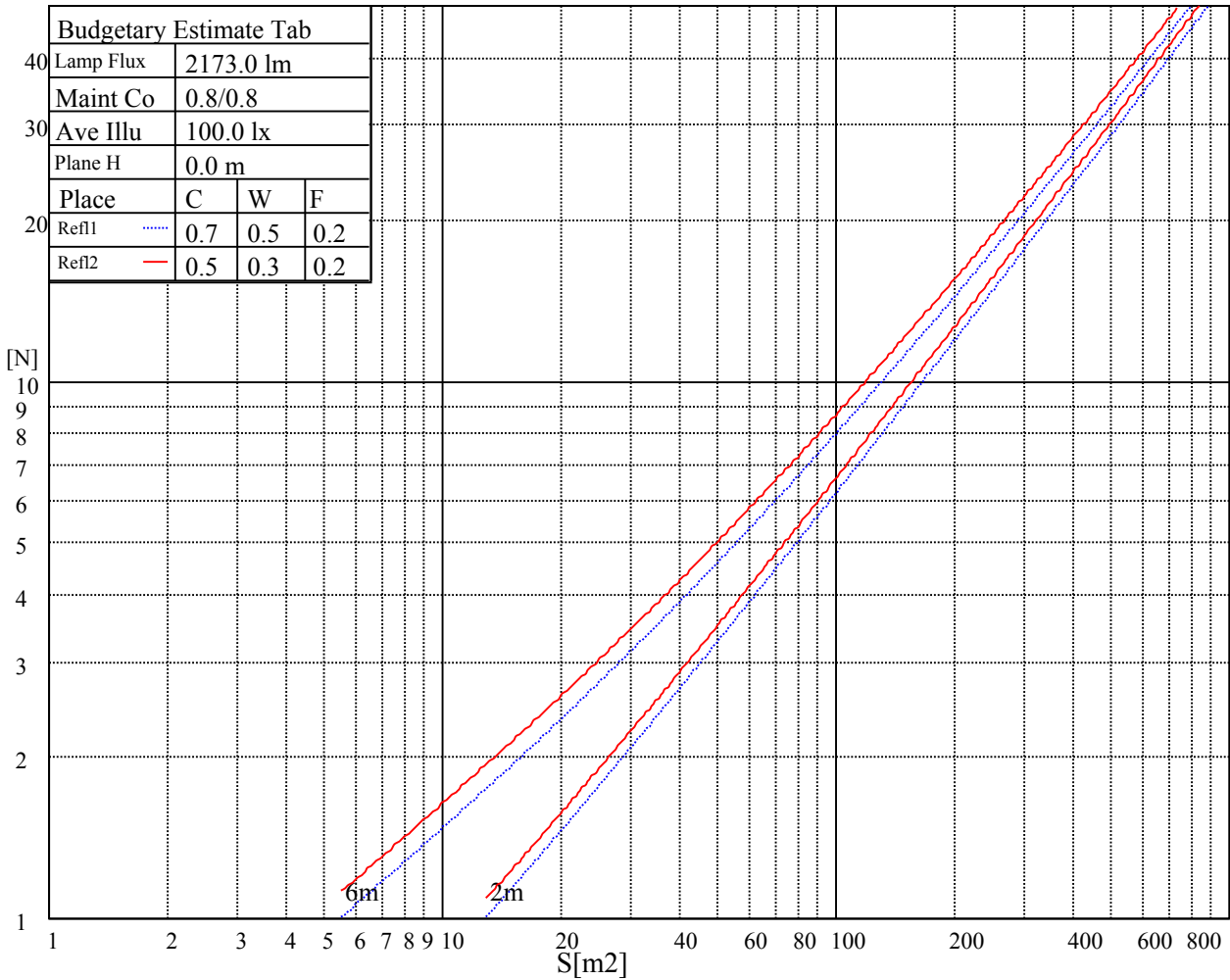
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14615	14615	14615	20243	20243	20243	54367	54367	54367

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

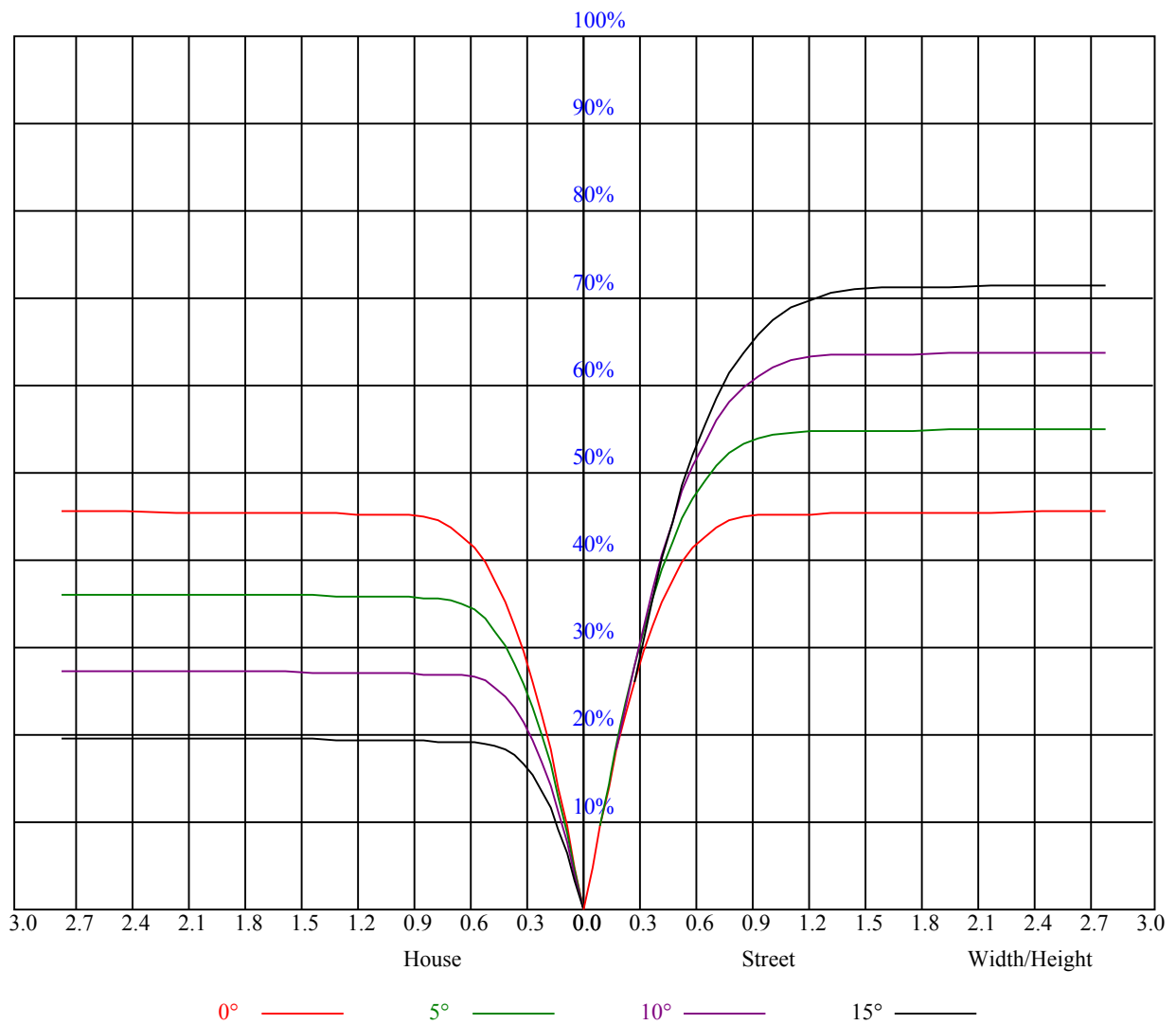


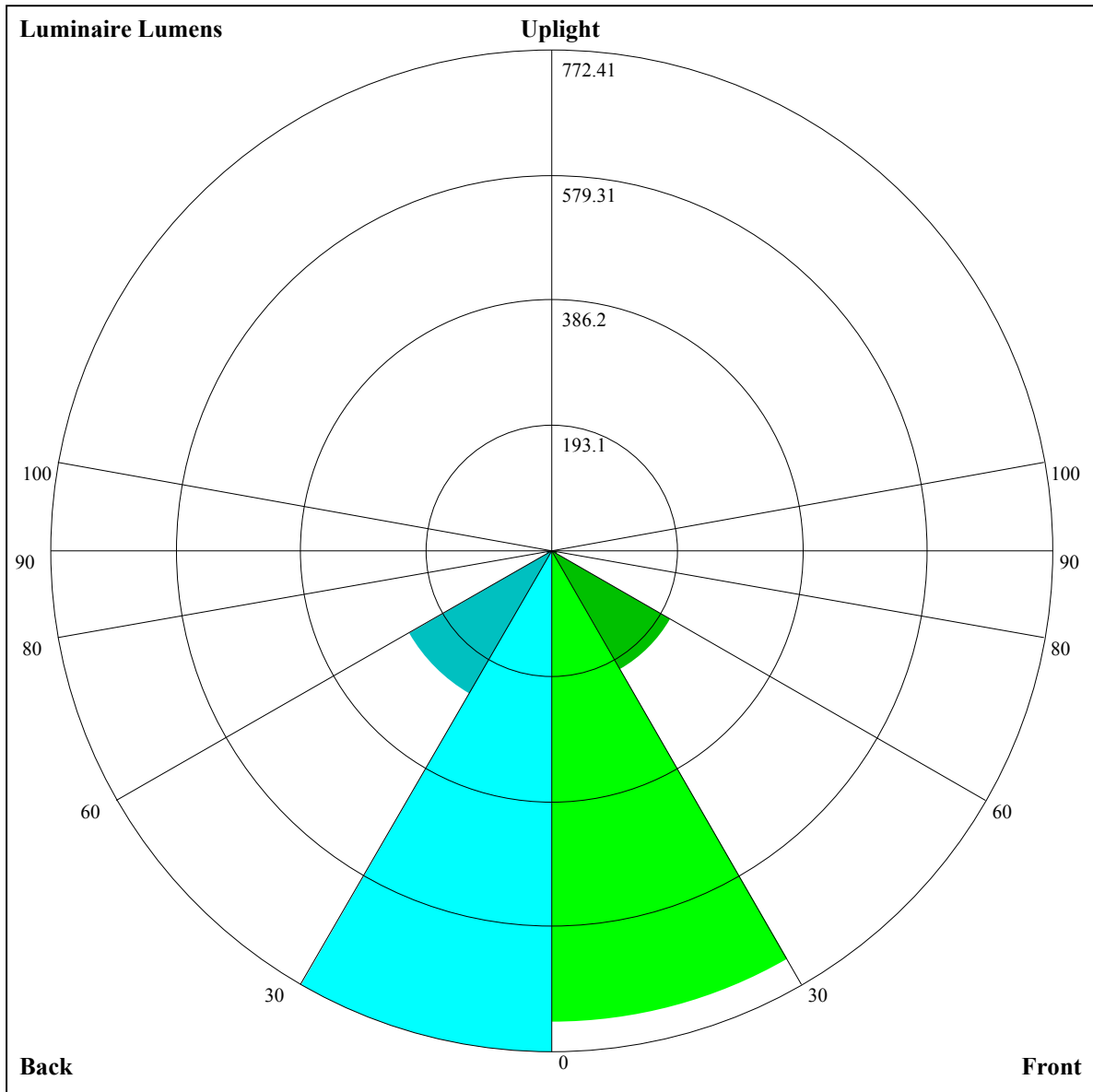


NT 2-1564-M 铝反光罩

Utilization factor table for indoor luminaire

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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	0.99	0.97	1.00	0.98	0.96	0.96	0.94	0.93	0.93	0.91	0.90	0.89	0.88	0.87	0.86
2	0.95	0.91	0.88	0.93	0.90	0.87	0.90	0.88	0.85	0.88	0.85	0.84	0.85	0.83	0.82	0.80
3	0.89	0.85	0.81	0.88	0.84	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.75
4	0.83	0.79	0.75	0.82	0.78	0.74	0.80	0.77	0.74	0.79	0.75	0.73	0.77	0.74	0.72	0.71
5	0.79	0.73	0.70	0.78	0.73	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.68	0.66
6	0.74	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.62
7	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59
8	0.66	0.61	0.58	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.55
9	0.63	0.58	0.54	0.62	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.52
10	0.60	0.55	0.51	0.59	0.55	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.57	0.54	0.51	0.50





Luminaire Lumens:

FL=727.75,FM=210.64,FH=8.29,FVH=4.34

BL=772.41,BM=255.83,BH=8.32,BVH=4.34

UL=0,UH=0

BUG Rating:B2-U0-G0

NT 2-1564-M 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	3119.89	3089.46	3047.33	2997.58	2936.13	2843.08	2767.00	2689.75	2609.58
45.0	3135.69	3123.40	3104.68	3075.42	3018.06	2956.62	2888.73	2816.16	2719.01
90.0	3135.11	3122.23	3101.75	3067.22	3019.23	2946.67	2880.54	2786.90	2708.48
135.0	3130.43	3141.55	3139.79	3127.50	3103.51	3068.98	3007.53	2949.01	2862.39
180.0	3119.89	3132.77	3140.38	3130.43	3115.21	3085.95	3037.38	2984.12	2919.75
225.0	3135.69	3132.77	3114.63	3090.63	3052.59	3005.19	2927.35	2857.13	2778.71
270.0	3135.11	3135.11	3122.82	3104.68	3061.96	3015.14	2958.37	2886.97	2791.58
315.0	3130.43	3112.29	3070.73	3027.43	2971.25	2905.12	2811.48	2731.30	2651.71
360.0	3119.89	3089.46	3047.33	2997.58	2936.13	2843.08	2767.00	2689.75	2609.58
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2510.09	2429.33	2329.84	2252.59	2175.93	2080.53	2003.28	1927.20	1835.91
45.0	2641.18	2559.25	2482.58	2385.44	2310.53	2232.69	2134.96	2060.64	1967.58
90.0	2629.47	2528.23	2445.71	2367.29	2289.46	2195.24	2118.57	2044.83	1971.68
135.0	2786.31	2707.31	2627.72	2524.72	2442.20	2363.20	2283.61	2182.95	2106.28
180.0	2830.79	2750.62	2672.78	2592.61	2485.51	2406.50	2333.35	2249.66	2160.12
225.0	2695.02	2596.12	2515.36	2439.86	2340.96	2267.22	2191.73	2097.50	2021.43
270.0	2713.16	2616.01	2533.50	2454.49	2352.08	2277.17	2197.58	2105.11	2033.13
315.0	2551.05	2472.05	2393.63	2295.90	2218.65	2142.57	2048.35	1972.85	1897.36
360.0	2510.09	2429.33	2329.84	2252.59	2175.93	2080.53	2003.28	1927.20	1835.91
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1758.07	1686.68	1614.69	1526.91	1459.02	1391.14	1324.42	1158.39	1158.39
45.0	1893.85	1822.45	1732.32	1662.68	1593.63	1524.57	1457.27	1376.51	1309.21
90.0	1880.97	1804.89	1734.08	1645.13	1575.48	1488.87	1422.74	1357.20	1155.64
135.0	2031.96	1937.74	1861.07	1787.34	1696.63	1625.23	1555.59	1470.14	1401.09
180.0	2082.87	2006.80	1909.65	1830.64	1741.10	1668.53	1596.55	1526.33	1442.64
225.0	1947.10	1853.47	1777.97	1705.99	1617.62	1549.73	1480.68	1413.38	1330.27
270.0	1952.95	1878.05	1779.73	1707.75	1638.10	1566.12	1480.68	1411.62	1343.15
315.0	1802.55	1728.81	1656.25	1584.85	1498.82	1432.10	1364.80	1255.37	1164.13
360.0	1758.07	1686.68	1614.69	1526.91	1459.02	1391.14	1324.42	1158.39	1158.39
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1109.76	1031.11	972.82	913.77	829.79	760.91	686.70	588.09	507.86
45.0	1241.32	1175.78	1094.43	1032.98	972.70	892.53	822.88	731.59	655.51
90.0	1155.64	1140.37	1078.04	1017.59	941.57	876.96	806.15	732.35	632.86
135.0	1332.62	1265.31	1183.97	1120.18	1057.56	981.48	923.54	862.09	793.62
180.0	1377.09	1309.79	1239.57	1157.05	1091.50	1028.30	965.68	890.19	822.88
225.0	1155.06	1155.06	1122.64	1041.88	978.44	915.41	829.85	760.44	664.76
270.0	1258.88	1193.92	1110.23	1046.44	983.24	922.37	837.52	767.29	694.14
315.0	1147.74	1067.39	1005.59	944.32	867.24	798.25	726.26	651.36	551.16
360.0	1109.76	1031.11	972.82	913.77	829.79	760.91	686.70	588.09	507.86
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	427.39	348.62	253.29	183.59	124.24	76.61	44.54	36.28	27.62
45.0	576.51	475.26	398.01	320.18	300.86	212.79	105.75	64.14	43.66
90.0	553.45	454.25	376.30	300.04	211.73	149.12	96.33	51.97	39.85
135.0	702.33	622.74	540.81	435.47	353.53	295.60	295.60	124.42	78.65
180.0	733.93	657.27	577.68	476.43	394.50	314.32	314.32	149.99	96.09
225.0	586.16	506.92	430.20	335.16	259.96	190.72	130.68	70.52	44.42
270.0	616.30	518.57	441.32	364.07	308.47	308.47	131.68	81.23	44.30
315.0	470.46	389.82	311.11	217.65	150.64	95.98	50.04	37.22	30.43
360.0	427.39	348.62	253.29	183.59	124.24	76.61	44.54	36.28	27.62

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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	22.24	17.91	14.57	12.87	11.70	10.77	10.01	9.60	9.31
45.0	33.65	26.22	22.00	18.08	14.75	12.87	11.29	10.48	9.95
90.0	32.07	25.46	20.31	16.97	14.51	12.70	11.29	10.53	10.01
135.0	46.06	37.28	28.85	23.06	18.08	15.16	13.28	11.88	10.71
180.0	57.88	39.44	31.54	24.46	20.31	16.04	13.87	12.23	10.94
225.0	35.76	27.74	21.13	17.38	14.16	12.58	11.47	10.48	9.95
270.0	35.52	27.92	21.19	17.56	14.28	12.70	11.59	10.77	10.01
315.0	23.23	18.90	15.16	12.87	11.59	10.77	10.12	9.66	9.42
360.0	22.24	17.91	14.57	12.87	11.70	10.77	10.01	9.60	9.31
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	9.01	8.84	8.72	8.60	8.49	8.43	8.37	8.31	8.25
45.0	9.48	9.25	9.01	8.84	8.66	8.54	8.49	8.37	8.31
90.0	9.54	9.25	9.01	8.84	8.66	8.60	8.49	8.43	8.31
135.0	10.18	9.66	9.36	9.13	8.90	8.78	8.66	8.54	8.43
180.0	10.24	9.77	9.36	9.13	8.95	8.72	8.60	8.54	8.43
225.0	9.54	9.25	8.95	8.78	8.66	8.60	8.43	8.43	8.37
270.0	9.66	9.36	9.13	8.95	8.78	8.66	8.54	8.49	8.43
315.0	9.19	9.01	8.78	8.66	8.60	8.49	8.43	8.37	8.31
360.0	9.01	8.84	8.72	8.60	8.49	8.43	8.37	8.31	8.25
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	8.19	8.19	8.13	8.13	8.08	8.08	8.08	8.02	8.02
45.0	8.25	8.19	8.19	8.13	8.13	8.08	8.02	8.02	8.02
90.0	8.31	8.19	8.19	8.13	8.08	8.08	8.02	8.02	8.02
135.0	8.37	8.31	8.25	8.19	8.19	8.13	8.13	8.08	8.08
180.0	8.37	8.31	8.25	8.19	8.19	8.13	8.13	8.08	8.08
225.0	8.25	8.19	8.19	8.13	8.13	8.08	8.02	8.02	8.02
270.0	8.31	8.31	8.25	8.19	8.13	8.13	8.08	8.02	8.02
315.0	8.25	8.19	8.13	8.13	8.08	8.02	8.02	8.02	8.02
360.0	8.19	8.19	8.13	8.13	8.08	8.08	8.08	8.02	8.02
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.02	8.02	7.96	8.02	7.96	7.96	8.02	7.96	7.96
45.0	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.96
90.0	8.02	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.96
135.0	8.02	8.02	8.02	8.02	8.02	7.96	7.96	7.96	7.96
180.0	8.02	8.02	8.02	8.02	8.02	7.96	7.96	7.96	7.96
225.0	8.02	8.02	8.02	7.96	7.96	7.96	7.96	7.96	7.96
270.0	8.02	8.02	7.96	7.96	7.96	7.96	7.96	7.96	7.96
315.0	7.96	7.96	8.02	7.96	7.96	7.96	7.96	7.96	7.96
360.0	8.02	8.02	7.96	8.02	7.96	7.96	8.02	7.96	7.96
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.96
45.0	7.96	7.96	7.96	7.90	7.96	7.96	7.96	7.96	7.96
90.0	7.96	8.02	7.96	7.96	7.96	7.96	7.96	7.96	7.90
135.0	7.96	7.96	7.96	7.96	7.90	7.90	7.96	7.96	7.90
180.0	7.96	7.96	7.96	7.96	7.96	7.96	7.90	7.96	7.90
225.0	7.96	7.96	7.96	7.96	7.90	7.96	7.96	7.96	7.90
270.0	7.96	7.96	7.96	7.96	7.96	7.90	7.96	7.96	7.96
315.0	7.96	7.90	7.96	7.90	7.90	7.90	7.90	7.90	7.90
360.0	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.96	7.96

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Intensity data(cd)

Appendix Page: 19 Total:19

C/γ(°)	90.0
0.0	7.96
45.0	7.96
90.0	7.96
135.0	7.96
180.0	7.96
225.0	7.96
270.0	7.90
315.0	7.90
360.0	7.96