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Nata

LumCAT: 2-2323-M

Luminaire: 92.70.135.000

Report No: 210712-B001

Test No: 210712-C001

LampCAT: LUMILEDS 1208

Lamp flux(lm): 2267.1

Number of Lamps: 1

Length(mm): 570

Phm Type: C

Voltage(V): 34.8500

Current(A): 0.5500

Power (W): 19.1670

PF: 0.0000

Ballast type: DC

Width(mm): 45

Height(mm): 20

Photometric Results

Lumens(lm): 2061.47

Efficiency(%): 90.93%

Lumens(lm)/Power(W): 107.55

Central intensity(cd): 2210.625

Maximum intensity(cd): 3865.500

Angle of maximum intensity: C=45.0 γ =17.0

Beam Angle(50%Imax): [C0/180]Total=50.1

[C90/270]Total=37.7

Field angle(10%Imax): [C0/180]Total=66.1

[C90/270]Total=62.0

Maximum s/h(1/2): C0_180=0.89 C90_270=1.02

Maximum s/h(1/4): C0_180=0.76 C90_270=0.84

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.93%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.463%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2216.813	0.000	0	.000%	.000%
1.0	2222.121	2.124	2.124	.094%	.103%
2.0	2239.945	6.404	8.528	.282%	.414%
3.0	2270.953	10.789	19.317	.476%	.937%
4.0	2312.297	15.342	34.659	.677%	1.681%
5.0	2361.797	20.108	54.766	.887%	2.657%
6.0	2423.602	25.149	79.915	1.109%	3.877%
7.0	2478.375	30.426	110.341	1.342%	5.353%
8.0	2533.992	35.873	146.214	1.582%	7.093%
9.0	2586.234	41.497	187.71	1.830%	9.106%
10.0	2633.801	47.239	234.95	2.084%	11.397%
11.0	2674.125	53.037	287.987	2.339%	13.970%
12.0	2704.816	58.800	346.786	2.594%	16.822%
13.0	2727.492	64.468	411.254	2.844%	19.950%
14.0	2737.301	69.949	481.203	3.085%	23.343%
15.0	2733.258	75.102	556.305	3.313%	26.986%
16.0	2711.813	79.786	636.091	3.519%	30.856%
17.0	2667.023	83.763	719.854	3.695%	34.919%
18.0	2601.738	86.870	806.724	3.832%	39.133%
19.0	2520.000	89.108	895.832	3.930%	43.456%
20.0	2414.496	90.315	986.147	3.984%	47.837%
21.0	2286.390	90.267	1076.414	3.982%	52.216%
22.0	2166.655	89.486	1165.899	3.947%	56.557%
23.0	2040.205	88.271	1254.171	3.894%	60.839%
24.0	1886.266	85.847	1340.018	3.787%	65.003%
25.0	1742.112	82.501	1422.519	3.639%	69.005%
26.0	1583.557	78.503	1501.022	3.463%	72.813%
27.0	1430.005	73.727	1574.749	3.252%	76.390%
28.0	1254.196	67.958	1642.707	2.998%	79.686%
29.0	1095.982	61.487	1704.195	2.712%	82.669%
30.0	949.025	55.215	1759.409	2.435%	85.347%
31.0	804.635	48.802	1808.211	2.153%	87.715%
32.0	658.958	41.930	1850.142	1.849%	89.749%
33.0	537.616	35.252	1885.393	1.555%	91.459%
34.0	440.163	29.590	1914.984	1.305%	92.894%
35.0	341.353	24.271	1939.255	1.071%	94.071%
36.0	259.235	19.123	1958.377	.843%	94.999%
37.0	197.241	14.888	1973.265	.657%	95.721%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	145.635	11.445	1984.71	.505%	96.276%
39.0	104.186	8.527	1993.237	.376%	96.690%
40.0	73.480	6.196	1999.433	.273%	96.991%
41.0	54.475	4.556	2003.99	.201%	97.212%
42.0	39.463	3.413	2007.403	.151%	97.377%
43.0	28.452	2.516	2009.918	.111%	97.499%
44.0	22.036	1.906	2011.824	.084%	97.592%
45.0	18.091	1.542	2013.366	.068%	97.666%
46.0	15.687	1.321	2014.687	.058%	97.731%
47.0	14.660	1.207	2015.894	.053%	97.789%
48.0	13.925	1.156	2017.05	.051%	97.845%
49.0	13.328	1.119	2018.169	.049%	97.899%
50.0	12.867	1.092	2019.261	.048%	97.952%
51.0	12.628	1.079	2020.34	.048%	98.005%
52.0	12.336	1.071	2021.411	.047%	98.057%
53.0	12.118	1.064	2022.475	.047%	98.108%
54.0	11.830	1.056	2023.53	.047%	98.160%
55.0	11.623	1.047	2024.577	.046%	98.210%
56.0	11.471	1.044	2025.621	.046%	98.261%
57.0	11.317	1.042	2026.663	.046%	98.311%
58.0	11.201	1.041	2027.704	.046%	98.362%
59.0	11.071	1.041	2028.745	.046%	98.412%
60.0	10.958	1.041	2029.786	.046%	98.463%
61.0	10.860	1.041	2030.827	.046%	98.513%
62.0	10.796	1.044	2031.87	.046%	98.564%
63.0	10.702	1.046	2032.916	.046%	98.615%
64.0	10.628	1.047	2033.963	.046%	98.666%
65.0	10.571	1.049	2035.012	.046%	98.716%
66.0	10.505	1.052	2036.063	.046%	98.767%
67.0	10.455	1.054	2037.117	.046%	98.819%
68.0	10.406	1.057	2038.174	.047%	98.870%
69.0	10.378	1.060	2039.234	.047%	98.921%
70.0	10.357	1.065	2040.299	.047%	98.973%
71.0	10.332	1.069	2041.369	.047%	99.025%
72.0	10.339	1.075	2042.444	.047%	99.077%
73.0	10.343	1.082	2043.525	.048%	99.129%
74.0	10.294	1.085	2044.61	.048%	99.182%
75.0	10.266	1.086	2045.696	.048%	99.235%

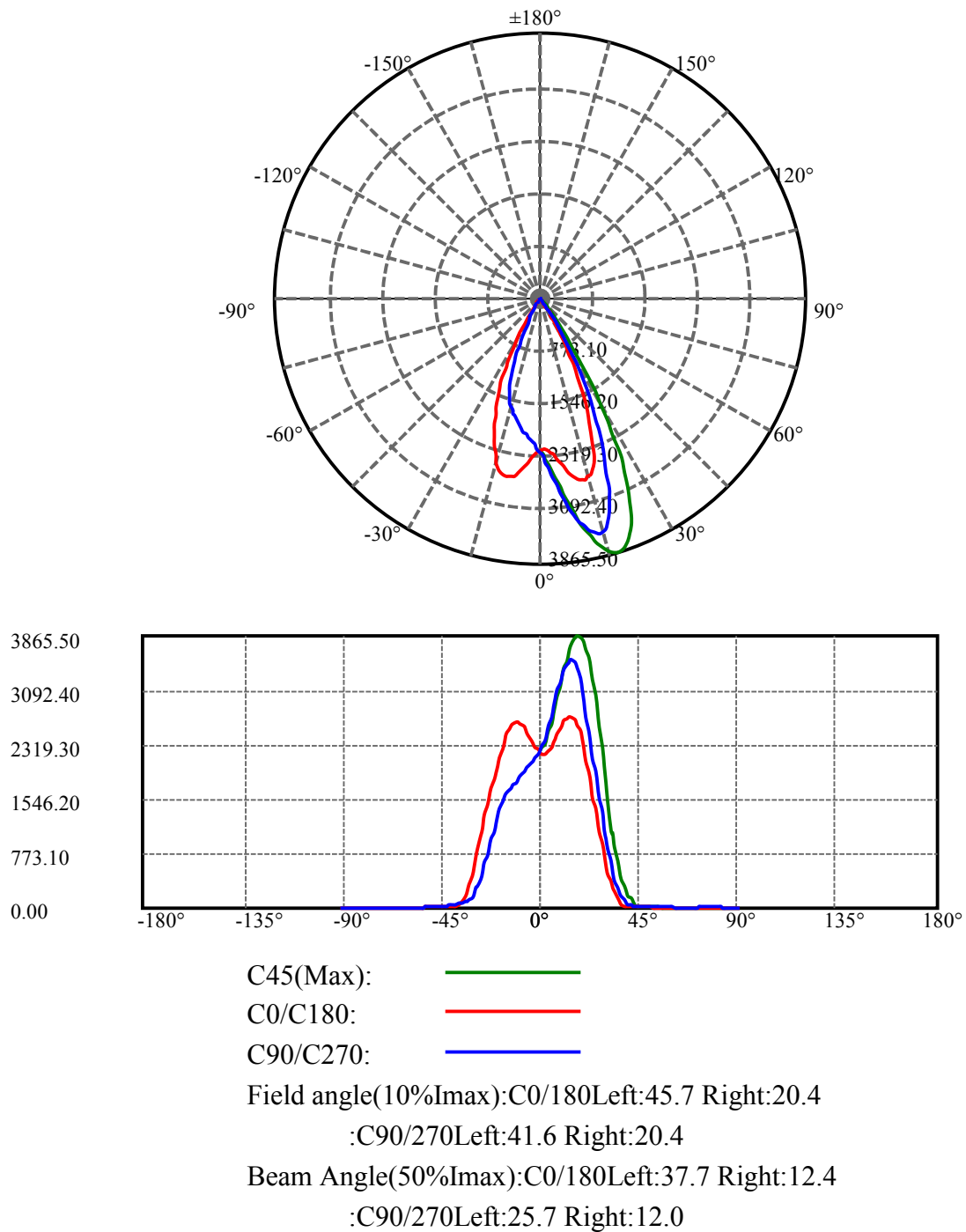
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.220	1.087	2046.784	.048%	99.288%
77.0	10.216	1.090	2047.873	.048%	99.340%
78.0	10.227	1.094	2048.968	.048%	99.393%
79.0	10.107	1.093	2050.06	.048%	99.446%
80.0	10.023	1.085	2051.145	.048%	99.499%
81.0	9.977	1.082	2052.227	.048%	99.552%
82.0	9.858	1.076	2053.303	.047%	99.604%
83.0	9.693	1.063	2054.365	.047%	99.655%
84.0	9.563	1.049	2055.414	.046%	99.706%
85.0	9.446	1.037	2056.452	.046%	99.757%
86.0	9.320	1.026	2057.478	.045%	99.806%
87.0	9.183	1.013	2058.49	.045%	99.855%
88.0	9.105	1.002	2059.492	.044%	99.904%
89.0	9.018	0.993	2060.485	.044%	99.952%
90.0	8.961	0.986	2061.471	.043%	100.000%

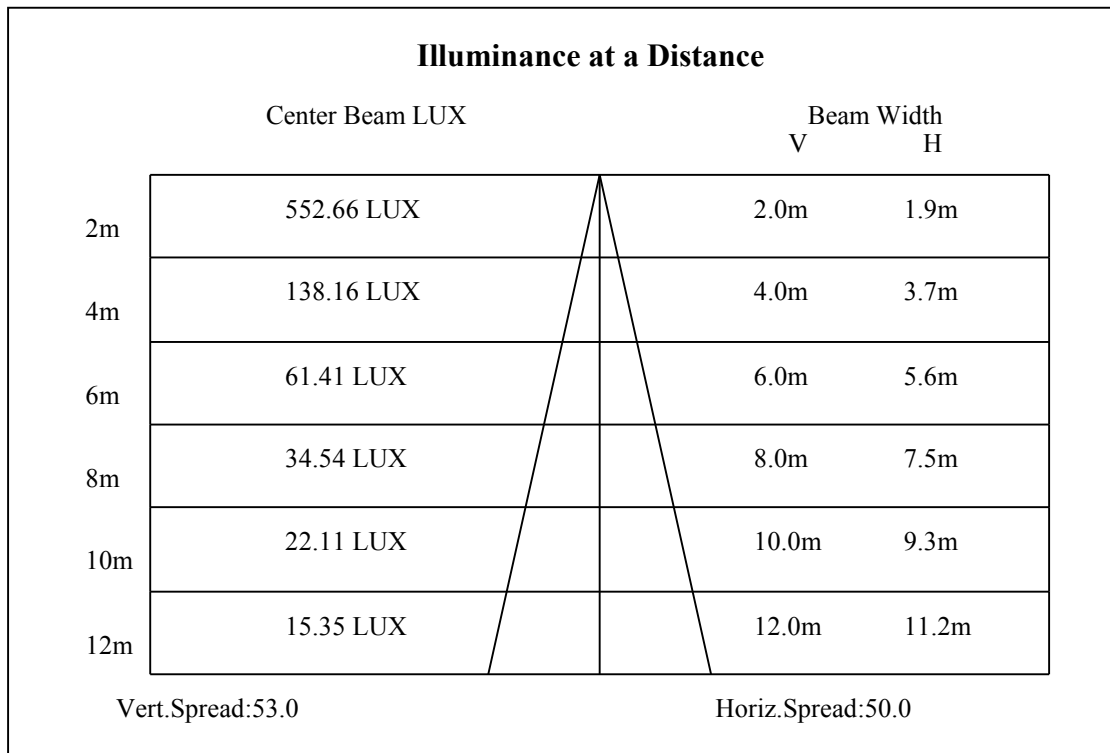
ZONAL LUMEN SUMMARY

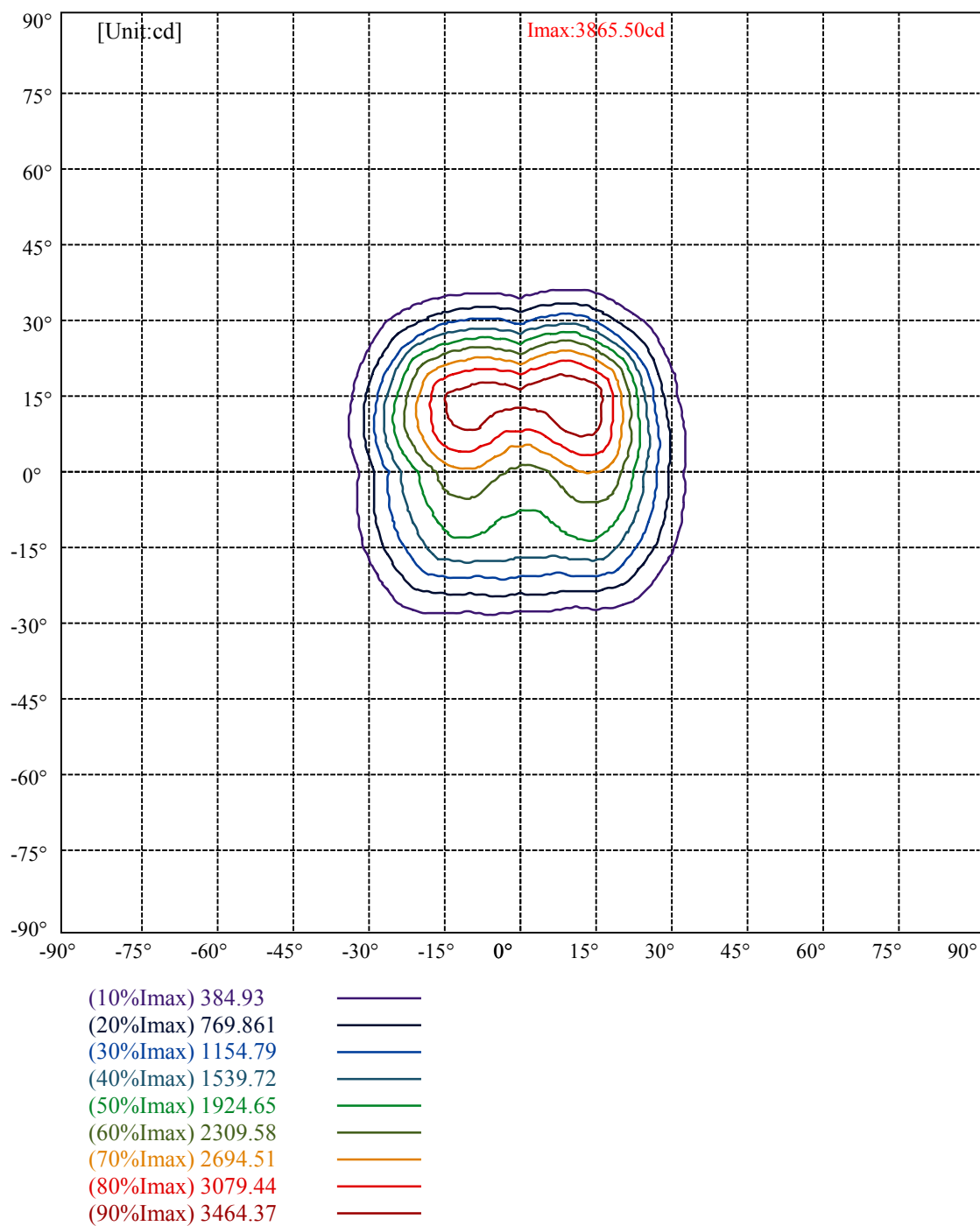
Zone	Lumens	%Lamp	%Fixt
0-30	1759.41	77.61%	85.35%
0-40	1999.43	88.19%	96.99%
0-60	2029.79	89.53%	98.46%
0-90	2060.49	90.89%	99.95%
0-120	2060.49	90.89%	99.95%
0-180	2061.47	90.93%	100.00%
60-90	31.74	1.40%	1.54%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.11	1649.18	72.74%	80.00%

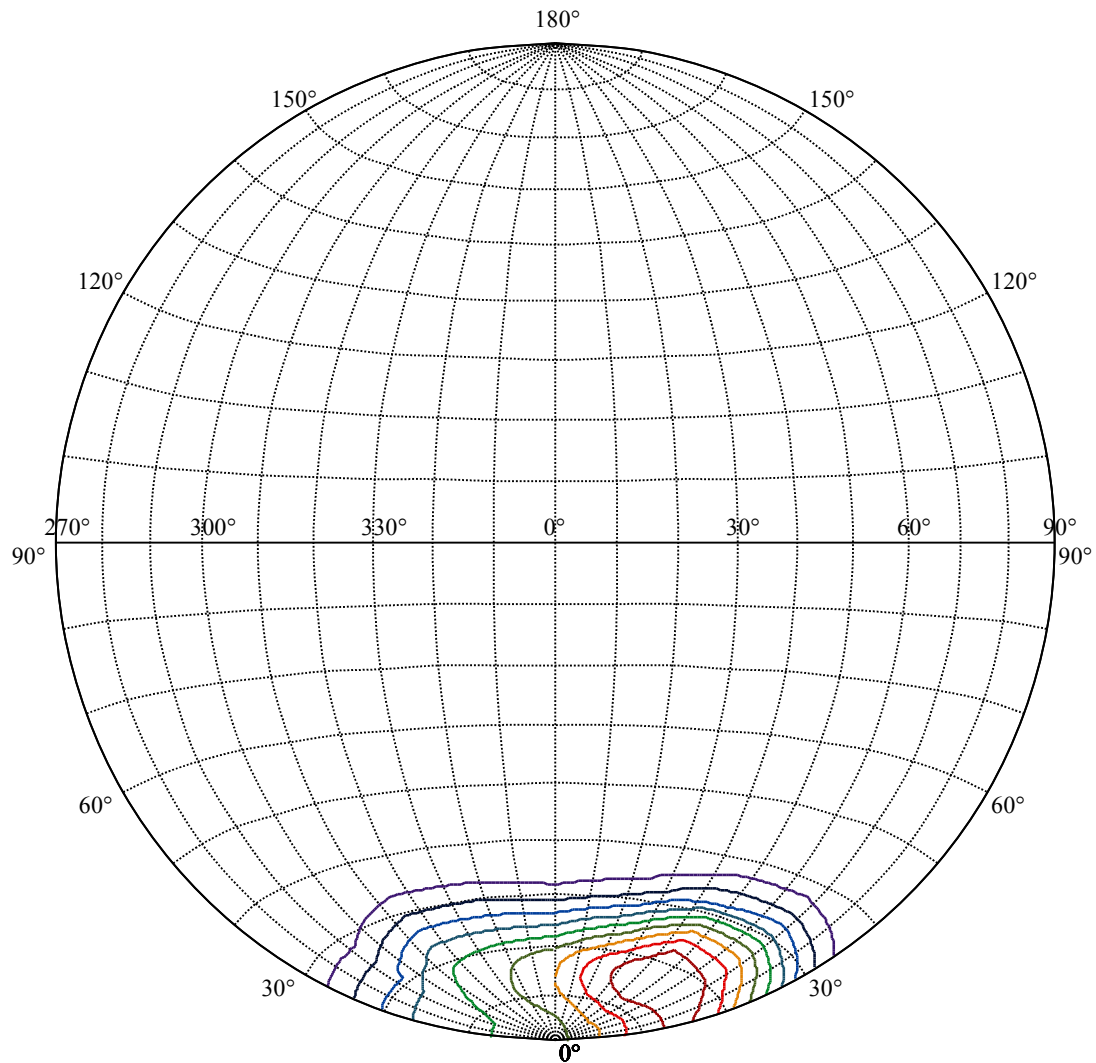
ZONAL LUMEN SUMMARY

0-10	234.95
10-20	751.20
20-30	773.26
30-40	240.02
40-50	19.83
50-60	10.52
60-70	10.51
70-80	10.85
80-90	9.34
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









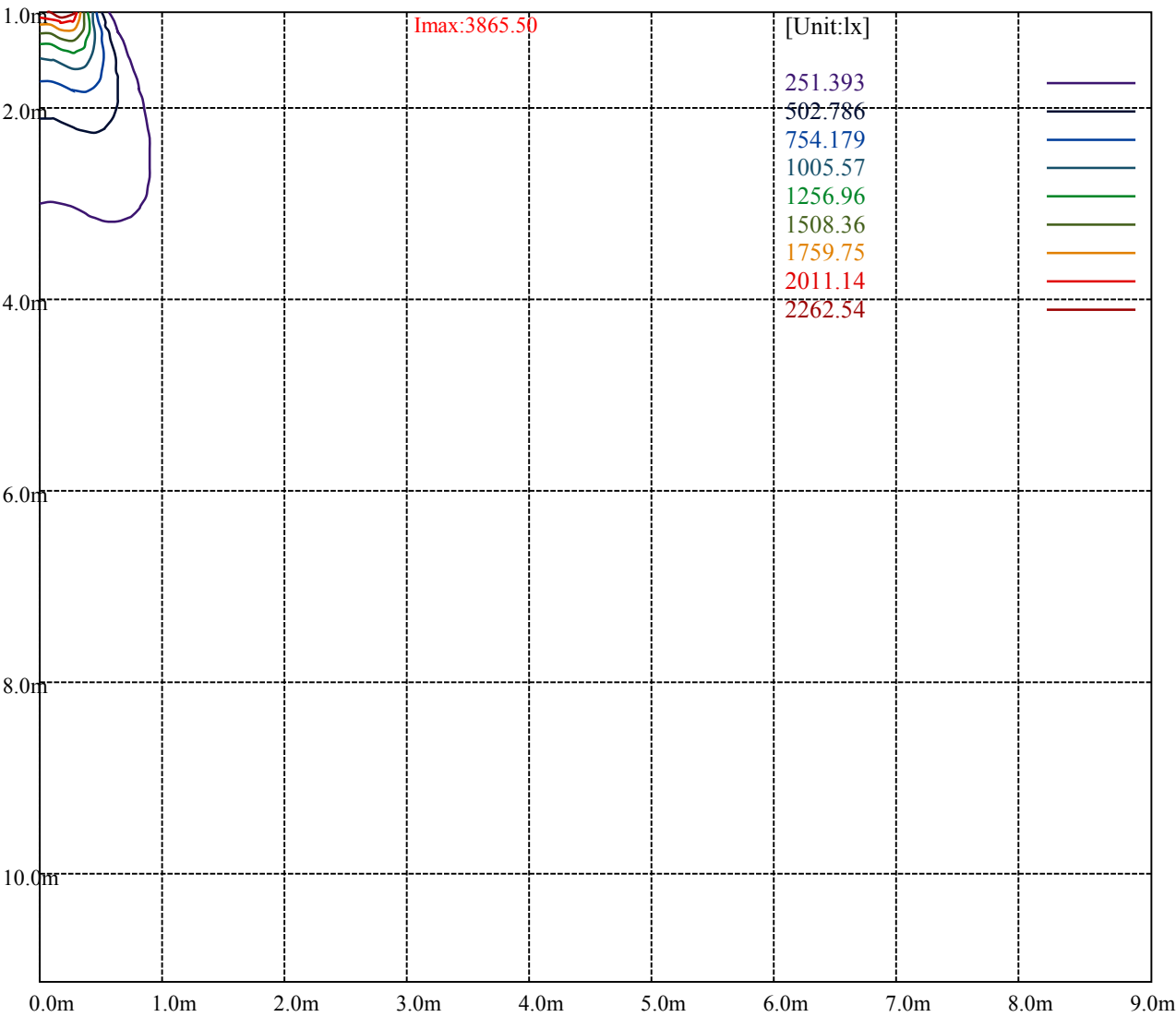
House

[Unit:cd]

Road

Imax:3865.50

(10%Imax)	386.55	—
(20%Imax)	773.1	—
(30%Imax)	1159.65	—
(40%Imax)	1546.2	—
(50%Imax)	1932.75	—
(60%Imax)	2319.3	—
(70%Imax)	2705.85	—
(80%Imax)	3092.4	—
(90%Imax)	3478.95	—



Luminance Table

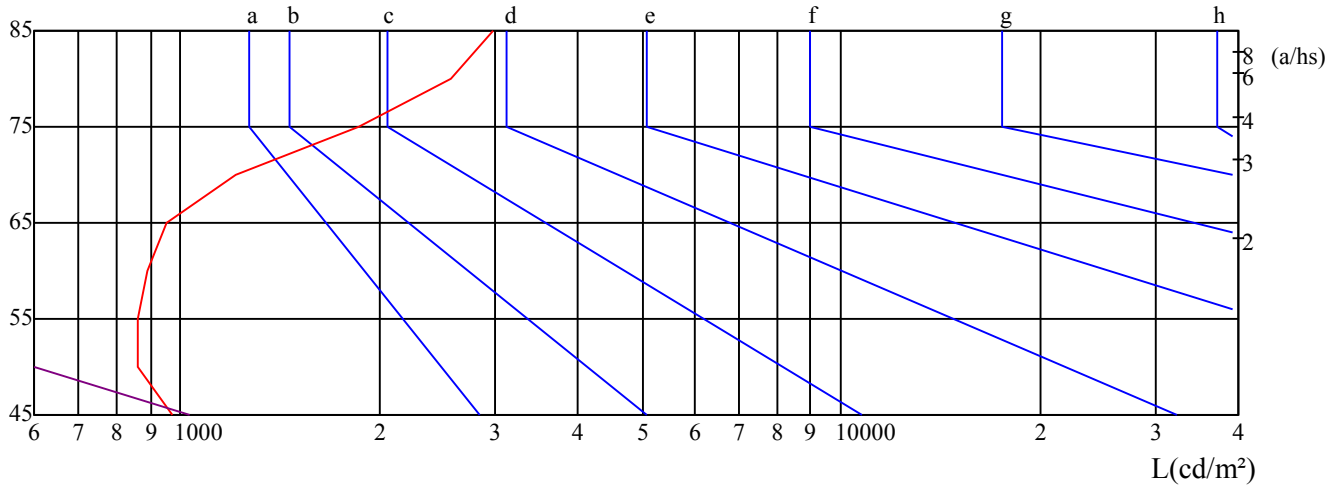
γ	45	50	55	60	65	70	75	80	85
C0	537	491	472	461	484	514	567	606	679
C45	1033	586	544	555	589	641	703	786	908
C90	971	861	863	889	951	1211	1858	2570	2981

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
963	978	972	1483	1779	1500	4089	4177	4233

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

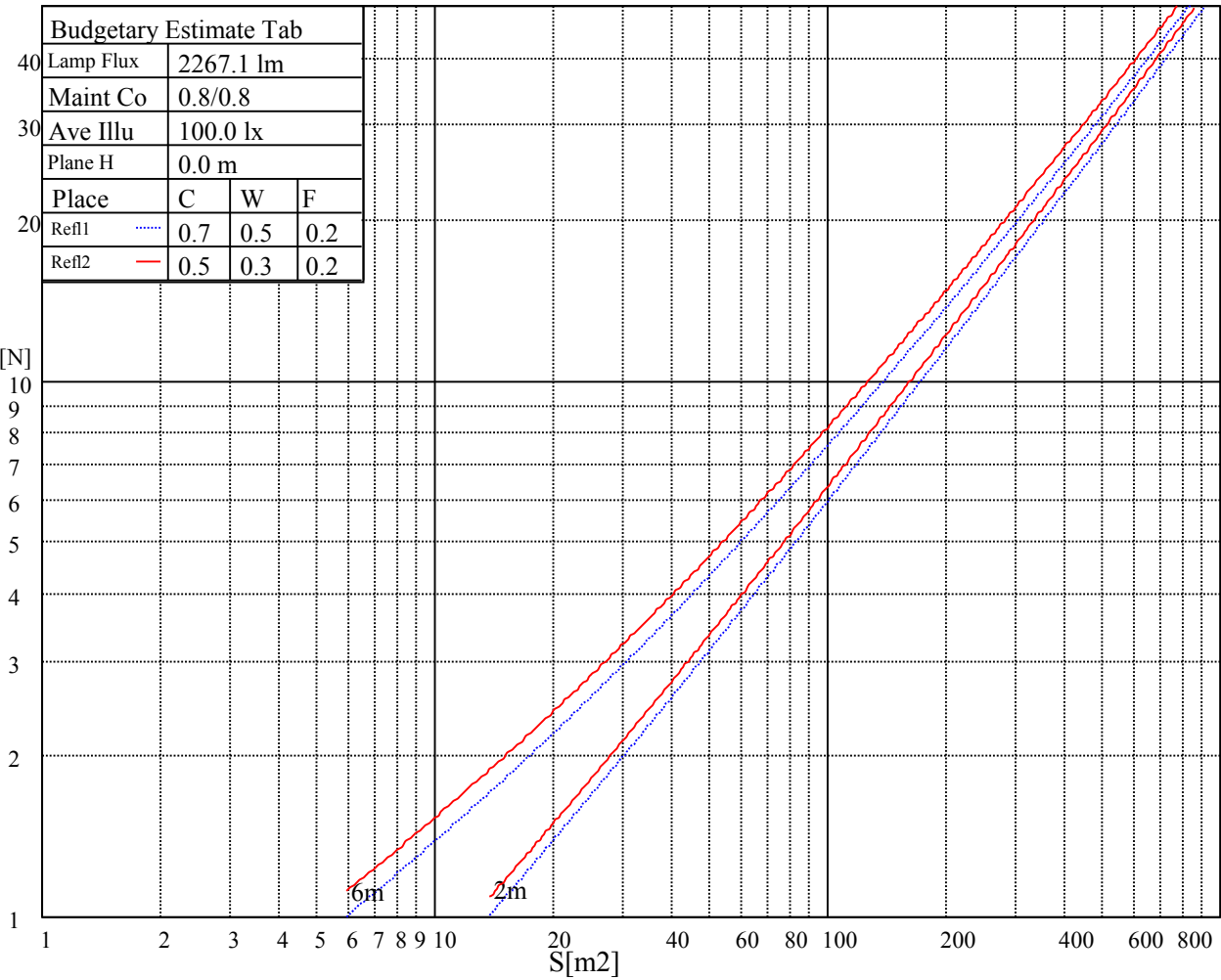
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

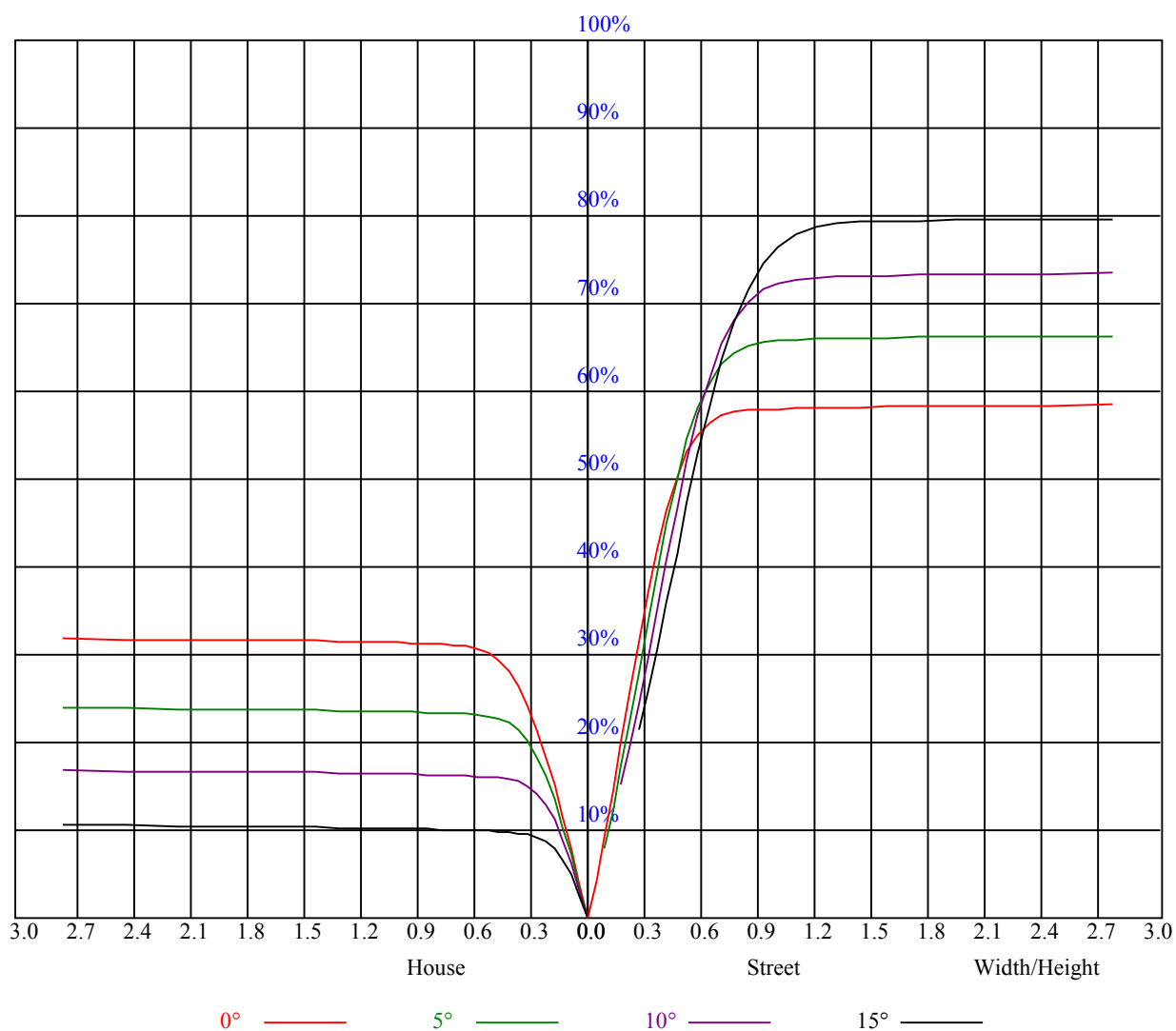
C0 ———

C45 ———

C90 ———



RHOC	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	1.08	1.08	1.08	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.92	0.92	0.91	0.90	0.89	0.88	0.87	0.85
2	0.95	0.91	0.88	0.93	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.82	0.80
3	0.89	0.85	0.81	0.88	0.84	0.81	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
4	0.84	0.79	0.75	0.83	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.72	0.71
5	0.79	0.74	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.68	0.67
6	0.75	0.70	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.70	0.67	0.65	0.63
7	0.71	0.66	0.62	0.70	0.66	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.60
8	0.67	0.62	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.57
9	0.64	0.59	0.56	0.64	0.59	0.56	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.54
10	0.61	0.56	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.59	0.55	0.52	0.51



Intensity data(cd)										Appendix Page: 16 Total:19	
C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0		
0.0	2210.63	2193.19	2192.63	2206.69	2237.63	2279.25	2343.38	2400.19	2464.88		
22.5	2192.63	2217.94	2267.44	2318.63	2381.63	2467.69	2567.25	2673.00	2793.38		
45.0	2226.94	2274.19	2329.31	2416.50	2516.63	2620.69	2750.63	2889.56	3012.75		
67.5	2207.81	2260.69	2334.38	2408.63	2498.06	2626.31	2758.50	2873.25	3006.00		
90.0	2241.00	2296.13	2377.69	2473.88	2588.06	2707.88	2849.63	2968.88	3088.13		
112.5	2211.19	2272.50	2350.13	2445.19	2544.75	2661.19	2810.81	2921.06	3036.38		
135.0	2242.69	2298.94	2380.50	2475.56	2572.88	2693.81	2833.88	2952.00	3071.81		
157.5	2201.63	2255.06	2314.69	2372.63	2460.94	2549.25	2655.00	2763.00	2860.31		
180.0	2210.63	2246.63	2276.44	2326.50	2388.38	2441.81	2508.75	2567.25	2599.88		
202.5	2192.63	2192.63	2196.00	2212.31	2226.94	2252.25	2286.56	2315.25	2342.25		
225.0	2226.94	2189.25	2167.88	2155.50	2152.69	2139.19	2133.00	2136.94	2136.38		
247.5	2207.81	2163.94	2125.13	2098.13	2076.75	2052.56	2029.50	1998.56	1972.13		
270.0	2241.00	2183.63	2125.69	2089.13	2053.69	2021.63	1985.06	1949.06	1910.81		
292.5	2211.19	2148.19	2106.00	2064.94	2031.19	2005.88	1973.81	1945.13	1926.00		
315.0	2242.69	2187.00	2137.50	2110.50	2092.50	2076.19	2076.19	2065.50	2056.50		
337.5	2201.63	2174.06	2157.75	2160.56	2174.06	2193.19	2215.69	2235.38	2266.31		
360.0	2210.63	2193.19	2192.63	2206.69	2237.63	2279.25	2343.38	2400.19	2464.88		
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0		
0.0	2544.19	2601.56	2653.88	2693.81	2709.56	2705.06	2687.63	2655.00	2600.44		
22.5	2907.00	3012.19	3120.75	3210.19	3289.50	3342.94	3359.81	3369.38	3340.69		
45.0	3137.63	3290.63	3403.13	3512.25	3636.56	3733.31	3806.44	3848.63	3865.50		
67.5	3124.69	3222.56	3332.81	3417.75	3507.75	3573.00	3636.56	3674.25	3685.50		
90.0	3191.06	3296.25	3373.31	3450.94	3490.31	3517.88	3506.63	3475.69	3399.19		
112.5	3158.44	3248.44	3342.38	3420.00	3498.75	3558.38	3598.88	3611.81	3605.06		
135.0	3180.38	3304.13	3408.19	3488.06	3565.13	3615.19	3649.50	3660.75	3672.00		
157.5	2955.38	3040.88	3110.06	3168.56	3208.50	3228.75	3233.25	3218.06	3168.56		
180.0	2625.75	2637.56	2631.94	2616.19	2585.25	2535.19	2467.13	2359.13	2247.19		
202.5	2365.88	2368.69	2364.19	2336.06	2309.06	2268.00	2224.13	2176.31	2093.06		
225.0	2131.31	2131.88	2127.38	2120.63	2097.00	2068.88	2041.88	1999.69	1960.88		
247.5	1942.88	1914.19	1891.69	1863.56	1842.75	1820.81	1793.25	1751.06	1677.38		
270.0	1866.38	1827.56	1783.69	1746.56	1707.75	1679.06	1643.63	1593.56	1508.63		
292.5	1896.75	1869.19	1848.38	1822.50	1798.88	1775.81	1739.25	1675.69	1591.31		
315.0	2052.00	2047.50	2049.19	2047.50	2041.31	2034.00	2023.31	2022.19	1998.00		
337.5	2300.06	2327.63	2345.06	2362.50	2351.81	2340.56	2320.88	2297.81	2259.00		
360.0	2544.19	2601.56	2653.88	2693.81	2709.56	2705.06	2687.63	2655.00	2600.44		
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0		
0.0	2513.81	2401.88	2254.50	2088.56	1931.06	1767.38	1570.50	1415.25	1259.44		
22.5	3263.06	3155.63	2952.56	2774.25	2623.50	2391.75	2158.88	1985.06	1713.94		
45.0	3850.88	3817.69	3758.63	3671.44	3548.25	3418.31	3236.63	3030.75	2812.50		
67.5	3662.44	3602.25	3516.19	3395.81	3289.50	3166.88	2987.44	2805.19	2626.88		
90.0	3261.94	3106.13	2937.38	2706.19	2507.06	2315.81	2106.56	1943.44	1762.88		
112.5	3549.94	3459.94	3322.69	3167.44	3022.88	2867.63	2667.38	2483.44	2310.75		
135.0	3654.00	3616.88	3553.31	3462.19	3360.38	3228.19	3069.56	2908.69	2717.44		
157.5	3101.06	2997.00	2877.75	2765.25	2663.44	2552.06	2435.63	2282.06	2124.56		
180.0	2130.19	2021.63	1926.56	1814.06	1698.75	1586.25	1452.94	1313.44	1121.57		
202.5	2004.19	1926.56	1841.06	1731.38	1643.06	1558.13	1443.38	1346.63	1248.75		
225.0	1931.63	1886.06	1835.44	1768.50	1666.13	1571.63	1466.44	1349.44	1245.94		
247.5	1603.13	1517.06	1415.25	1305.56	1110.26	1066.11	939.77	830.08	713.81		
270.0	1420.88	1328.06	1199.81	1092.38	985.50	866.81	747.56	638.44	507.94		
292.5	1504.69	1408.50	1319.06	1119.43	1092.66	990.68	871.93	748.52	635.91		
315.0	1964.81	1920.94	1853.44	1776.94	1689.75	1586.81	1478.25	1369.69	1227.38		
337.5	2211.19	2153.81	2068.31	1942.88	1834.31	1708.88	1547.44	1423.69	1307.25		
360.0	2513.81	2401.88	2254.50	2088.56	1931.06	1767.38	1570.50	1415.25	1259.44		

Intensity data(cd)

Appendix Page: 17 Total:19

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1081.69	907.88	765.00	605.81	482.06	383.06	288.56	242.55	136.35
22.5	1507.50	1316.81	1071.00	891.56	761.63	597.94	471.94	340.88	294.75
45.0	2580.75	2269.13	2014.31	1776.94	1511.44	1107.73	1060.43	853.31	680.96
67.5	2421.00	2186.44	1958.06	1706.63	1480.50	1305.56	1092.38	896.06	707.63
90.0	1564.88	1362.38	1102.89	992.31	829.69	671.51	508.05	388.91	291.99
112.5	2130.19	1872.56	1682.44	1477.69	1269.00	1081.13	916.31	730.69	564.19
135.0	2551.50	2351.25	2134.69	1951.31	1757.81	1503.56	1113.98	1090.63	847.01
157.5	1969.31	1764.56	1560.38	1356.75	1126.13	946.69	793.13	660.38	486.00
180.0	1030.56	832.05	710.83	572.74	444.26	333.11	246.38	165.04	102.99
202.5	1119.04	1006.03	901.63	784.18	677.08	559.29	442.63	348.47	266.91
225.0	1155.94	1020.94	930.94	844.31	711.00	618.19	538.31	431.44	346.50
247.5	609.98	495.68	393.30	315.68	249.47	176.85	125.94	87.75	62.27
270.0	406.13	312.75	286.88	195.47	153.96	117.73	101.48	94.73	83.64
292.5	528.02	403.99	318.71	255.54	190.86	141.58	103.05	76.22	66.54
315.0	1101.38	959.06	825.75	717.75	606.38	497.81	403.88	321.19	285.19
337.5	1122.24	1005.64	878.91	739.74	622.91	501.58	395.44	314.38	238.73
360.0	1081.69	907.88	765.00	605.81	482.06	383.06	288.56	242.55	136.35
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	95.74	53.83	33.58	27.39	22.89	19.63	16.31	15.13	14.46
22.5	129.66	81.34	49.39	34.71	28.86	23.29	19.63	16.99	16.59
45.0	539.94	408.77	315.39	236.93	177.86	134.44	94.28	55.74	35.33
67.5	546.19	438.19	357.75	285.75	185.51	126.84	78.30	41.57	29.08
90.0	223.20	169.88	121.16	80.61	47.48	36.51	27.62	21.66	19.52
112.5	448.31	348.75	289.69	196.09	127.69	89.61	46.35	30.26	24.24
135.0	717.64	581.57	451.86	341.94	263.76	196.03	147.88	102.83	66.54
157.5	358.31	284.63	139.84	86.46	55.58	34.99	26.83	22.78	16.59
180.0	64.58	36.84	28.58	24.69	19.41	15.53	15.19	14.63	14.06
202.5	194.68	139.73	93.26	49.56	31.22	26.33	21.88	17.04	14.46
225.0	291.94	202.39	150.47	103.28	67.50	45.17	29.25	22.28	19.24
247.5	56.25	50.34	38.48	30.21	22.61	19.41	17.10	14.46	12.94
270.0	73.46	62.44	52.37	46.58	42.64	38.64	34.43	30.88	26.89
292.5	55.86	40.73	30.94	20.64	17.55	15.86	14.46	13.05	12.38
315.0	179.49	130.84	91.35	54.45	36.00	26.78	22.16	18.90	15.64
337.5	172.52	125.61	86.06	47.70	29.14	22.56	19.74	17.04	14.63
360.0	95.74	53.83	33.58	27.39	22.89	19.63	16.31	15.13	14.46
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	14.06	13.73	13.16	12.71	12.60	12.38	11.87	11.76	11.59
22.5	16.09	15.47	14.85	14.46	14.18	13.84	13.56	13.28	12.88
45.0	25.09	21.21	18.62	16.03	14.12	13.56	13.28	12.77	12.43
67.5	23.18	17.55	15.53	14.91	14.63	14.12	13.78	13.84	14.18
90.0	18.23	17.38	16.88	15.92	15.47	14.79	15.64	14.40	13.78
112.5	18.00	15.58	14.91	14.29	13.78	13.33	12.88	12.54	12.21
135.0	42.08	27.56	23.68	22.05	18.96	16.65	15.36	14.40	13.78
157.5	15.58	14.91	14.29	13.78	13.44	13.05	12.66	12.38	12.21
180.0	13.89	13.56	13.22	12.88	12.60	12.38	12.38	12.26	11.98
202.5	14.01	13.56	13.22	12.88	12.66	12.54	12.38	12.21	12.15
225.0	16.59	14.06	13.22	12.88	12.54	12.26	12.15	11.98	11.81
247.5	12.26	11.81	11.48	11.31	11.19	11.03	10.97	10.86	10.74
270.0	22.44	18.23	15.92	14.12	13.22	12.77	12.32	12.15	11.93
292.5	11.87	11.36	11.19	10.97	10.74	10.58	10.46	10.41	10.35
315.0	13.33	12.60	12.21	11.70	11.42	11.08	10.97	10.86	10.69
337.5	12.77	12.43	12.21	11.93	11.70	11.53	11.42	11.31	11.19
360.0	14.06	13.73	13.16	12.71	12.60	12.38	11.87	11.76	11.59

Intensity data(cd)

Appendix Page: 18 Total:19

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.48	11.36	11.08	10.80	10.91	10.63	10.46	10.41	10.46
22.5	12.71	12.60	12.43	12.21	12.21	11.93	11.87	11.76	11.81
45.0	12.09	11.87	11.76	11.53	11.42	11.36	11.31	11.19	11.14
67.5	13.22	12.54	12.21	11.87	11.76	11.64	11.48	11.25	11.14
90.0	13.44	13.33	13.33	13.39	12.54	12.32	12.09	11.76	11.53
112.5	12.04	11.81	11.64	11.48	11.31	11.14	10.97	10.80	10.69
135.0	12.43	11.59	11.08	10.91	10.80	10.69	10.58	10.46	10.41
157.5	11.98	11.81	11.59	11.42	11.42	11.31	11.14	11.03	10.97
180.0	11.87	11.76	11.76	11.48	11.42	11.36	11.25	11.19	10.91
202.5	12.04	11.93	11.93	11.81	11.76	11.64	11.53	11.53	11.48
225.0	11.70	11.59	11.48	11.36	11.25	11.19	11.14	11.19	11.14
247.5	10.74	10.69	10.63	10.58	10.58	10.52	10.46	10.46	10.41
270.0	11.70	11.48	11.25	11.08	10.97	10.80	10.69	10.58	10.46
292.5	10.24	10.24	10.18	10.18	10.13	10.07	10.07	10.01	10.01
315.0	10.46	10.35	10.29	10.13	10.07	10.01	9.90	9.84	9.96
337.5	11.14	11.03	10.91	10.86	10.69	10.52	10.41	10.29	10.24
360.0	11.48	11.36	11.08	10.80	10.91	10.63	10.46	10.41	10.46
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.35	10.24	10.24	10.18	10.01	9.90	9.90	10.01	9.96
22.5	11.76	11.53	11.59	11.48	11.36	11.36	11.36	11.31	11.36
45.0	11.08	11.08	11.03	11.03	10.97	10.86	10.86	10.86	10.80
67.5	11.03	10.91	10.80	10.74	10.69	10.69	10.63	10.63	10.52
90.0	11.19	11.14	11.08	11.08	11.25	11.48	11.53	11.64	11.87
112.5	10.58	10.46	10.41	10.35	10.35	10.29	10.29	10.24	10.24
135.0	10.35	10.29	10.29	10.24	10.18	10.13	10.07	10.01	9.96
157.5	10.86	10.74	10.69	10.58	10.41	10.35	10.29	10.24	10.13
180.0	10.69	10.69	10.63	10.63	10.52	10.35	10.35	10.29	10.24
202.5	11.36	11.31	11.19	11.14	11.08	11.03	10.91	10.91	10.80
225.0	11.08	10.97	10.91	10.86	10.86	10.80	10.74	10.74	10.69
247.5	10.41	10.35	10.29	10.24	10.18	10.18	10.13	10.07	10.07
270.0	10.35	10.29	10.13	10.01	10.01	9.96	9.90	9.84	9.84
292.5	9.90	9.79	9.73	9.56	9.56	9.51	9.45	9.45	9.39
315.0	9.96	9.96	9.90	9.84	9.90	9.84	9.90	9.84	9.84
337.5	10.29	10.29	10.24	10.13	9.96	9.79	9.73	9.62	9.62
360.0	10.35	10.24	10.24	10.18	10.01	9.90	9.90	10.01	9.96
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.96	9.96	9.96	10.01	9.96	9.79	9.68	9.62	9.51
22.5	11.42	11.42	11.25	11.14	10.97	10.91	10.97	10.74	10.63
45.0	10.69	10.63	10.58	10.58	10.46	10.41	10.29	10.29	10.24
67.5	10.52	10.46	10.41	10.41	10.35	10.29	10.24	10.24	10.24
90.0	12.54	13.44	13.73	13.95	13.95	14.51	15.41	14.34	13.73
112.5	10.24	10.18	10.18	10.24	10.29	10.29	10.24	10.24	10.24
135.0	9.84	9.79	9.73	9.68	9.68	9.62	9.51	9.51	9.45
157.5	10.13	10.01	9.96	9.84	9.79	9.79	9.73	9.62	9.62
180.0	10.18	10.07	9.84	9.68	9.62	9.68	9.56	9.51	9.45
202.5	10.80	10.74	10.63	10.58	10.58	10.46	10.41	10.35	10.29
225.0	10.63	10.63	10.46	10.24	10.24	10.24	10.24	10.24	10.13
247.5	10.01	10.01	10.01	10.13	9.90	9.84	9.84	9.79	9.79
270.0	9.79	9.79	9.73	9.68	9.62	9.62	9.56	9.56	9.51
292.5	9.39	9.39	9.34	9.34	9.34	9.28	9.28	9.23	9.17
315.0	9.73	9.45	9.39	9.34	9.34	9.34	9.34	9.23	9.17
337.5	9.56	9.51	9.51	9.45	9.45	9.39	9.34	9.23	9.23
360.0	9.96	9.96	9.96	10.01	9.96	9.79	9.68	9.62	9.51

Nata 2-2323-M

Intensity data(cd)									Appendix Page: 19 Total:19
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.51	9.45	9.34	9.28	9.23	9.11	8.83	8.72	8.66
22.5	10.58	10.52	10.41	10.35	10.24	10.01	9.84	9.79	9.62
45.0	10.24	10.13	10.13	10.07	9.90	9.79	9.68	9.68	9.56
67.5	10.13	10.07	9.96	9.90	9.79	9.56	9.45	9.39	9.34
90.0	13.56	12.71	10.97	9.79	9.34	9.11	9.00	8.94	8.83
112.5	10.18	10.07	9.73	9.45	9.34	9.06	8.94	8.83	8.78
135.0	9.45	9.39	9.34	9.34	9.06	8.94	8.83	8.78	8.66
157.5	9.56	9.45	9.45	9.34	9.23	9.00	8.83	8.78	8.61
180.0	9.34	9.23	9.17	9.11	9.06	8.83	8.66	8.55	8.44
202.5	10.29	10.18	10.18	10.13	10.13	10.07	9.90	9.84	9.73
225.0	10.07	10.07	10.01	9.96	9.90	9.90	9.79	9.73	9.68
247.5	9.73	9.68	9.68	9.62	9.56	9.51	9.45	9.34	9.34
270.0	9.45	9.45	9.45	9.45	9.34	9.34	9.11	9.00	8.94
292.5	9.17	9.11	9.11	9.06	9.06	9.00	9.00	8.89	8.72
315.0	9.17	9.06	9.06	9.06	9.00	9.00	8.83	8.78	8.72
337.5	9.23	9.17	9.11	9.11	9.00	8.89	8.78	8.66	8.66
360.0	9.51	9.45	9.34	9.28	9.23	9.11	8.83	8.72	8.66
C/ γ (°)	90.0								
0.0	8.49								
22.5	9.62								
45.0	9.56								
67.5	9.28								
90.0	8.89								
112.5	8.66								
135.0	8.61								
157.5	8.55								
180.0	8.44								
202.5	9.62								
225.0	9.62								
247.5	9.28								
270.0	8.89								
292.5	8.66								
315.0	8.66								
337.5	8.55								
360.0	8.49								