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Nata

LumCAT: 2-2322-M	
Luminaire: 92.70.135.000	
Report No: 210528-B001	Voltage(V): 33.9300
Test No: 210528-C001	Current(A): 0.4520
LampCAT: LUMILEDS 1208	Power (W): 15.3360
Lamp flux(lm): 1942.8	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 74	Width(mm): 74
Phm Type: C	Height(mm): 56

Photometric Results

Lumens(lm): 1875.56
Efficiency(%): 96.54%
Lumens(lm)/Power(W): 122.30
Central intensity(cd): 1944.000
Maximum intensity(cd): 2481.188
Angle of maximum intensity: C=0.0 γ =19.0
Beam Angle(50%Imax): [C0/180]Total=68.4
[C90/270]Total=40.6
Field angle(10%Imax): [C0/180]Total=81.2
[C90/270]Total=65.0
Maximum s/h(1/2): C0_180=1.21 C90_270=0.60
Maximum s/h(1/4): C0_180=1.01 C90_270=0.66
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 96.54%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.297%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1938.621	0.000	0	.000%	.000%
1.0	1941.258	1.856	1.856	.096%	.099%
2.0	1947.516	5.582	7.438	.287%	.397%
3.0	1956.938	9.338	16.776	.481%	.894%
4.0	1967.168	13.135	29.911	.676%	1.595%
5.0	1976.273	16.964	46.876	.873%	2.499%
6.0	1985.414	20.820	67.696	1.072%	3.609%
7.0	1991.602	24.685	92.381	1.271%	4.926%
8.0	1996.348	28.541	120.922	1.469%	6.447%
9.0	1996.805	32.362	153.284	1.666%	8.173%
10.0	1994.238	36.117	189.402	1.859%	10.098%
11.0	1986.363	39.774	229.176	2.047%	12.219%
12.0	1973.461	43.287	272.463	2.228%	14.527%
13.0	1955.004	46.621	319.084	2.400%	17.013%
14.0	1931.695	49.749	368.833	2.561%	19.665%
15.0	1905.891	52.684	421.517	2.712%	22.474%
16.0	1869.968	55.327	476.844	2.848%	25.424%
17.0	1834.713	57.692	534.536	2.970%	28.500%
18.0	1791.946	59.796	594.332	3.078%	31.688%
19.0	1746.197	61.556	655.888	3.169%	34.970%
20.0	1696.068	63.003	718.891	3.243%	38.329%
21.0	1652.945	64.308	783.199	3.310%	41.758%
22.0	1606.416	65.498	848.697	3.371%	45.250%
23.0	1553.245	66.298	914.995	3.413%	48.785%
24.0	1493.821	66.620	981.615	3.429%	52.337%
25.0	1431.914	66.525	1048.14	3.424%	55.884%
26.0	1367.030	66.069	1114.209	3.401%	59.407%
27.0	1299.224	65.230	1179.44	3.358%	62.885%
28.0	1223.378	63.867	1243.307	3.287%	66.290%
29.0	1144.913	61.961	1305.268	3.189%	69.594%
30.0	1066.609	59.711	1364.978	3.074%	72.777%
31.0	984.959	57.092	1422.071	2.939%	75.821%
32.0	897.216	53.922	1475.993	2.776%	78.696%
33.0	814.511	50.428	1526.421	2.596%	81.385%
34.0	725.643	46.610	1573.03	2.399%	83.870%
35.0	643.605	42.524	1615.554	2.189%	86.137%
36.0	558.766	38.284	1653.838	1.971%	88.178%
37.0	484.780	34.035	1687.873	1.752%	89.993%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	408.452	29.815	1717.687	1.535%	91.583%
39.0	336.512	25.428	1743.115	1.309%	92.938%
40.0	273.104	21.261	1764.376	1.094%	94.072%
41.0	212.861	17.305	1781.681	.891%	94.995%
42.0	157.767	13.466	1795.147	.693%	95.713%
43.0	114.071	10.070	1805.217	.518%	96.249%
44.0	83.029	7.439	1812.656	.383%	96.646%
45.0	57.435	5.398	1818.054	.278%	96.934%
46.0	40.718	3.839	1821.892	.198%	97.139%
47.0	32.491	2.912	1824.804	.150%	97.294%
48.0	26.863	2.399	1827.204	.124%	97.422%
49.0	22.138	2.012	1829.216	.104%	97.529%
50.0	19.030	1.716	1830.932	.088%	97.621%
51.0	17.191	1.532	1832.465	.079%	97.702%
52.0	15.919	1.421	1833.885	.073%	97.778%
53.0	14.938	1.342	1835.228	.069%	97.850%
54.0	14.214	1.285	1836.513	.066%	97.918%
55.0	13.630	1.243	1837.756	.064%	97.984%
56.0	13.152	1.210	1838.966	.062%	98.049%
57.0	12.814	1.187	1840.153	.061%	98.112%
58.0	12.480	1.170	1841.323	.060%	98.175%
59.0	12.199	1.154	1842.476	.059%	98.236%
60.0	12.020	1.144	1843.621	.059%	98.297%
61.0	11.714	1.133	1844.753	.058%	98.357%
62.0	11.556	1.121	1845.875	.058%	98.417%
63.0	11.440	1.118	1846.993	.058%	98.477%
64.0	11.419	1.122	1848.115	.058%	98.537%
65.0	11.370	1.128	1849.242	.058%	98.597%
66.0	11.355	1.134	1850.376	.058%	98.657%
67.0	11.327	1.141	1851.517	.059%	98.718%
68.0	11.204	1.141	1852.658	.059%	98.779%
69.0	11.229	1.144	1853.803	.059%	98.840%
70.0	11.173	1.151	1854.953	.059%	98.901%
71.0	11.116	1.152	1856.105	.059%	98.963%
72.0	11.039	1.152	1857.257	.059%	99.024%
73.0	10.976	1.151	1858.408	.059%	99.086%
74.0	10.867	1.148	1859.557	.059%	99.147%
75.0	10.737	1.141	1860.698	.059%	99.208%

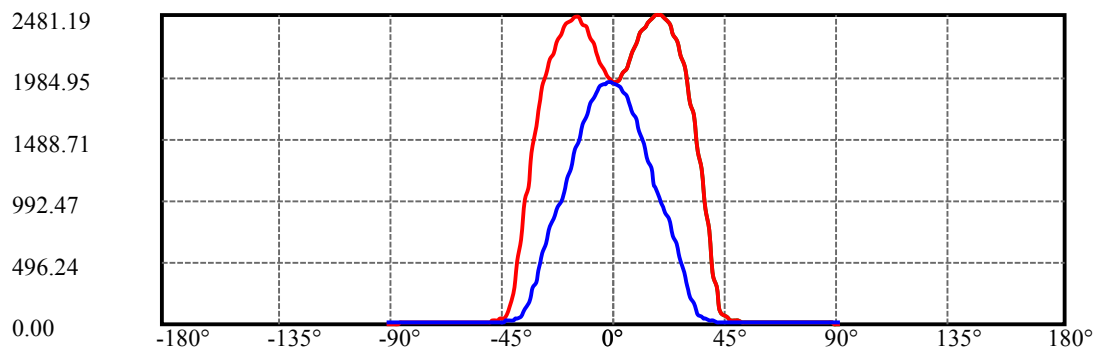
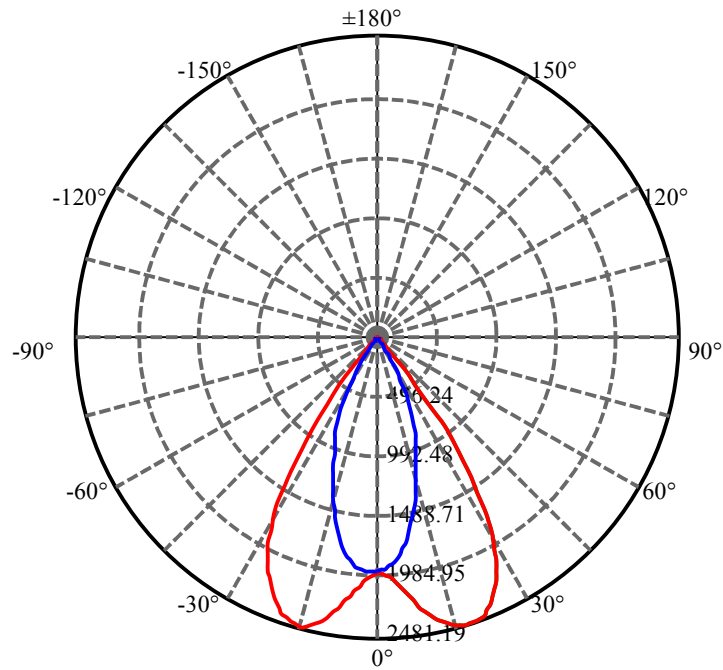
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.663	1.136	1861.834	.058%	99.268%
77.0	10.564	1.132	1862.966	.058%	99.329%
78.0	10.248	1.114	1864.08	.057%	99.388%
79.0	10.132	1.095	1865.175	.056%	99.446%
80.0	9.784	1.074	1866.249	.055%	99.504%
81.0	9.545	1.045	1867.294	.054%	99.559%
82.0	9.218	1.017	1868.311	.052%	99.614%
83.0	8.972	0.989	1869.3	.051%	99.666%
84.0	8.691	0.962	1870.263	.050%	99.718%
85.0	8.402	0.933	1871.195	.048%	99.767%
86.0	8.276	0.912	1872.107	.047%	99.816%
87.0	8.128	0.898	1873.005	.046%	99.864%
88.0	7.773	0.871	1873.876	.045%	99.910%
89.0	7.668	0.846	1874.722	.044%	99.955%
90.0	7.611	0.838	1875.56	.043%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1364.98	70.26%	72.78%
0-40	1764.38	90.82%	94.07%
0-60	1843.62	94.90%	98.30%
0-90	1874.72	96.50%	99.96%
0-120	1874.72	96.50%	99.96%
0-180	1875.56	96.54%	100.00%
60-90	32.25	1.66%	1.72%
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%
0-32.48	1500.45	77.23%	80.00%

ZONAL LUMEN SUMMARY

0-10	189.40
10-20	529.49
20-30	646.09
30-40	399.40
40-50	66.56
50-60	12.69
60-70	11.33
70-80	11.30
80-90	8.47
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:

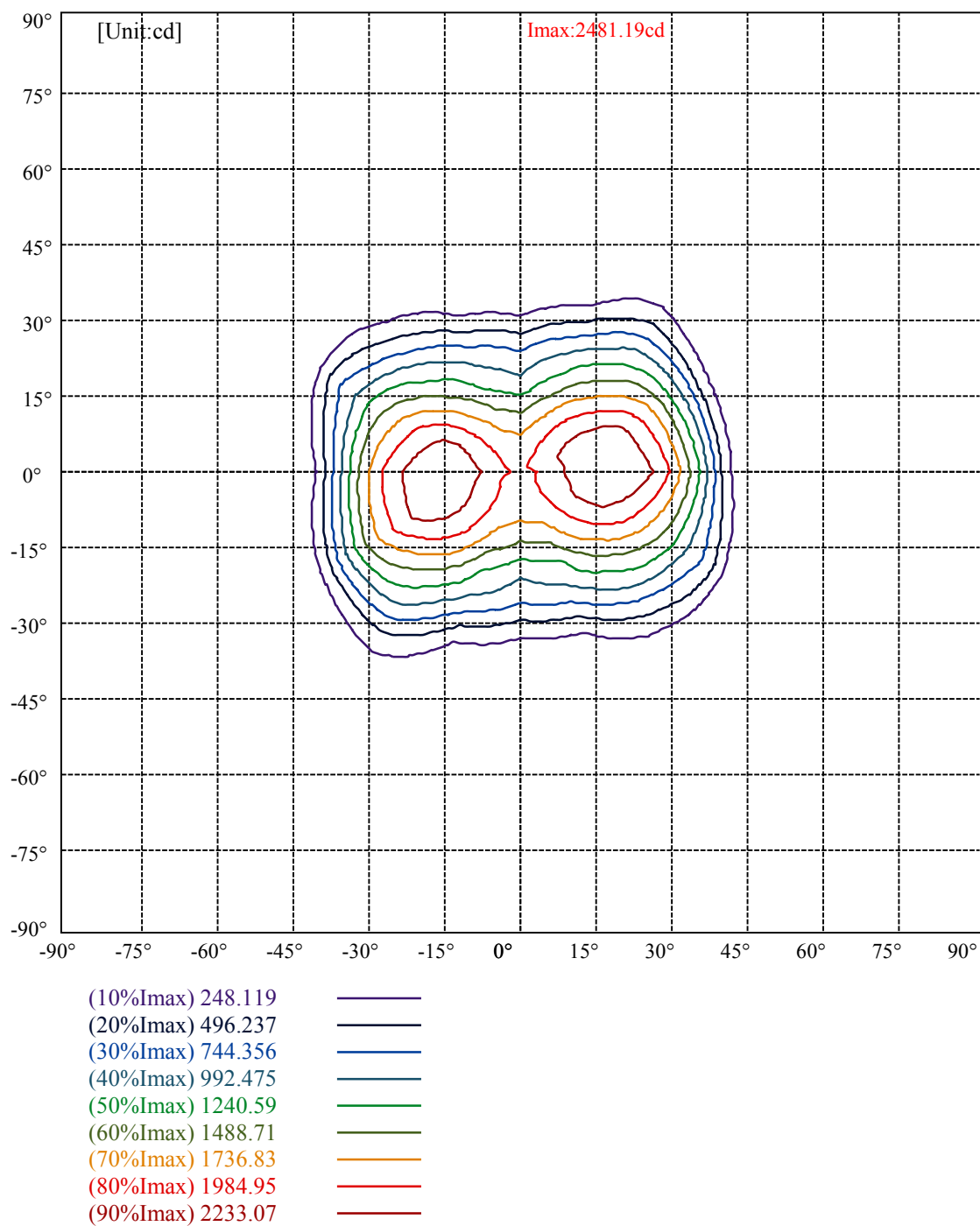
C90/C270:

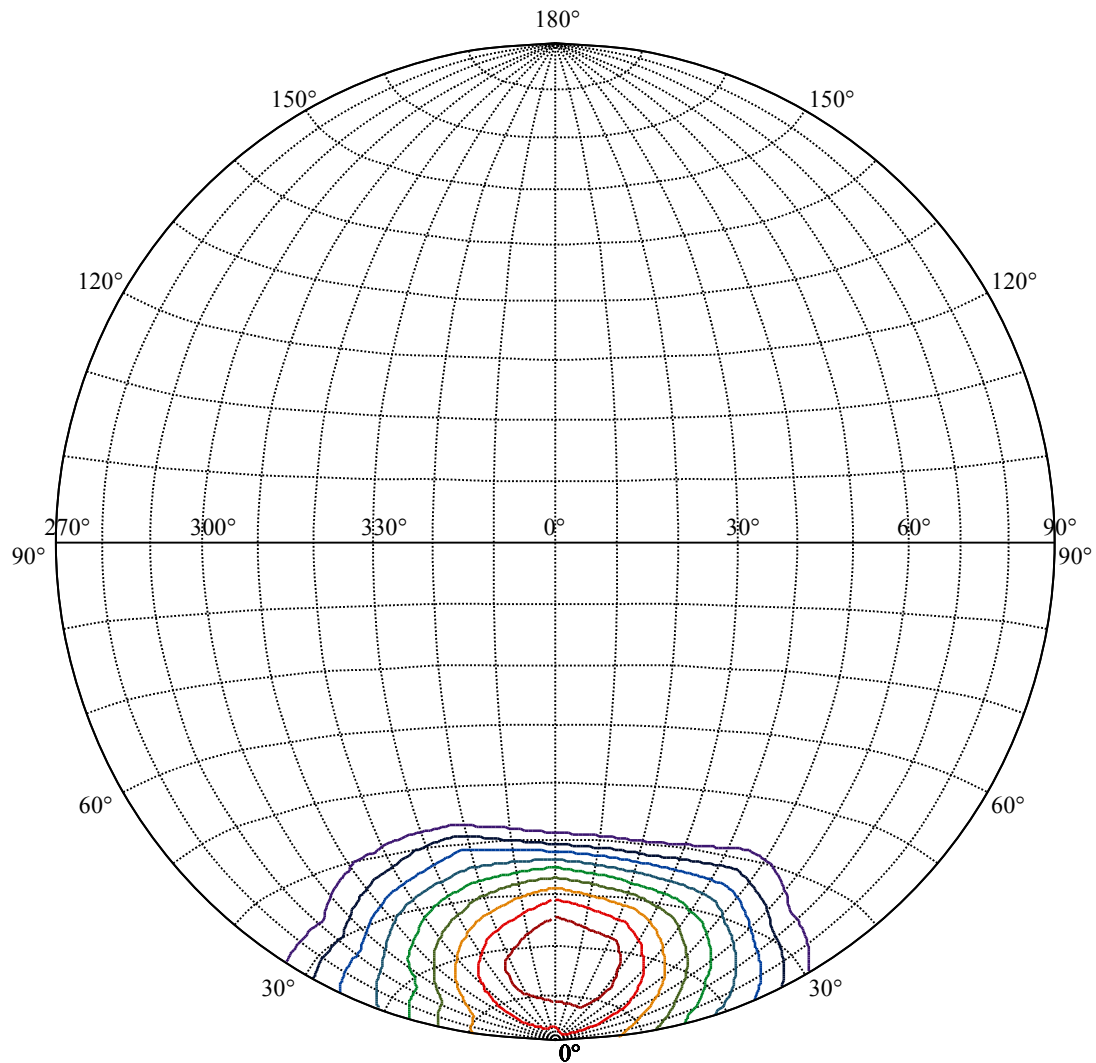
Field angle(10%Imax):C0/180Left:58.9 Right:22.3

:C90/270Left:32.6 Right:32.5

Beam Angle(50%Imax):C0/180Left:52.4 Right:16.1

:C90/270Left:20.3 Right:20.2





House

[Unit:cd]

Road

Imax:2481.19

(10%Imax) 248.119

(20%Imax) 496.237

(30%Imax) 744.356

(40%Imax) 992.475

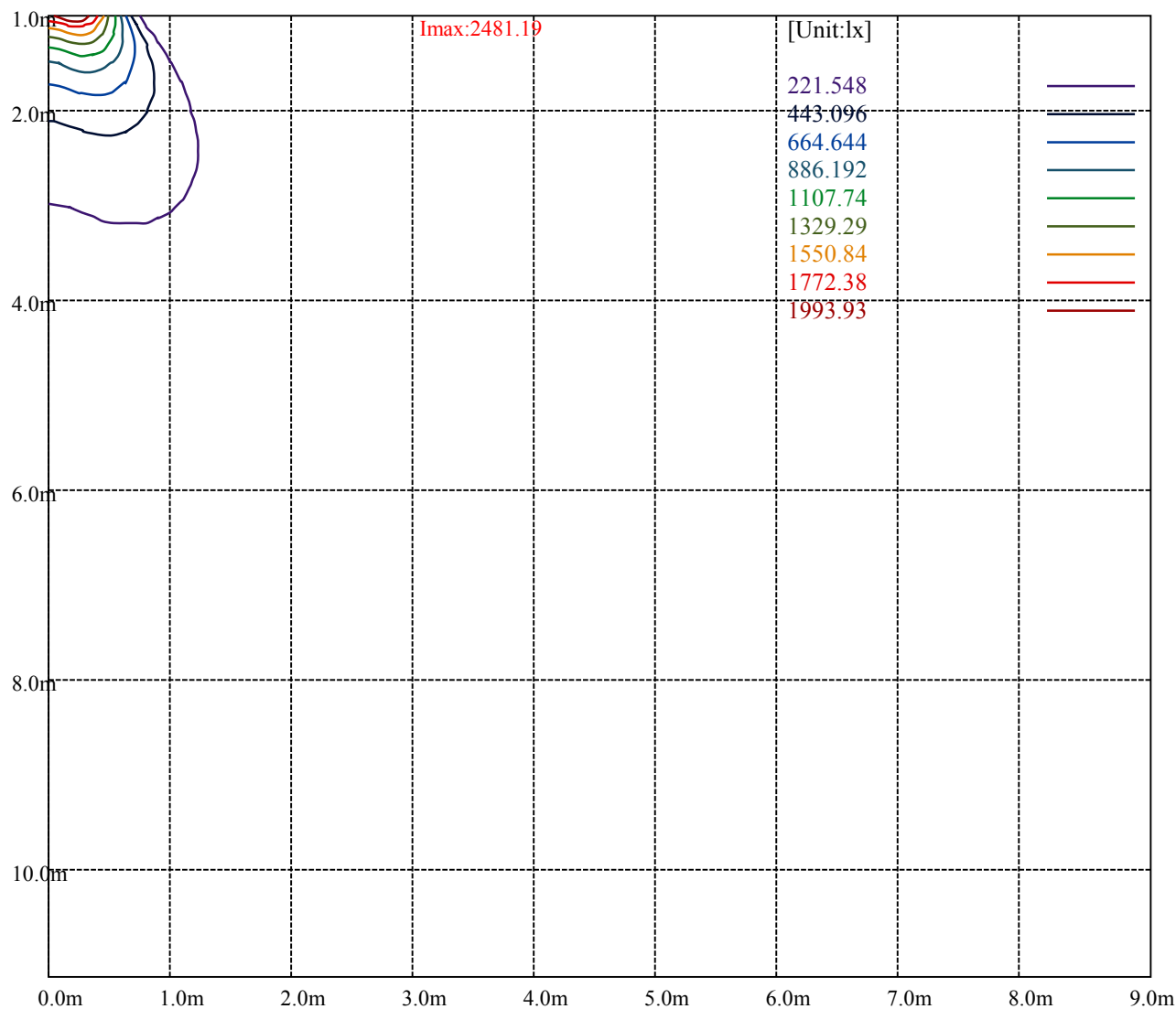
(50%Imax) 1240.59

(60%Imax) 1488.71

(70%Imax) 1736.83

(80%Imax) 1984.95

(90%Imax) 2233.07



Luminance Table

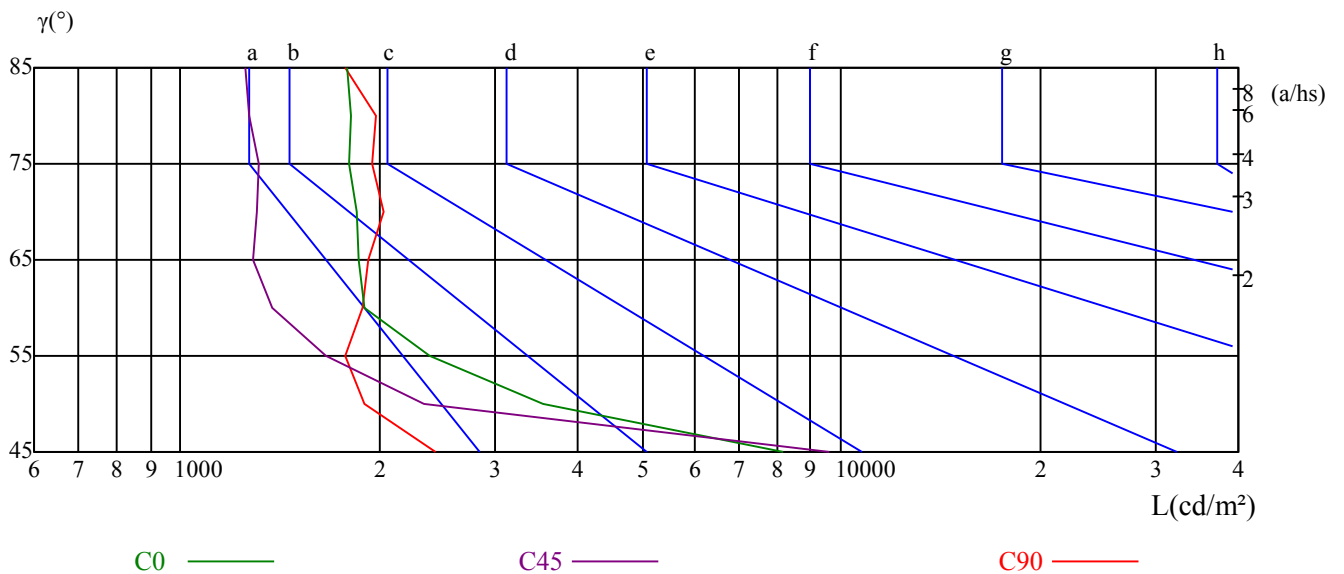
γ	45	50	55	60	65	70	75	80	85
C0	8153	3537	2384	1903	1863	1853	1806	1811	1783
C45	9599	2332	1665	1375	1283	1303	1311	1272	1256
C90	2431	1899	1782	1885	1918	2029	1951	1979	1771

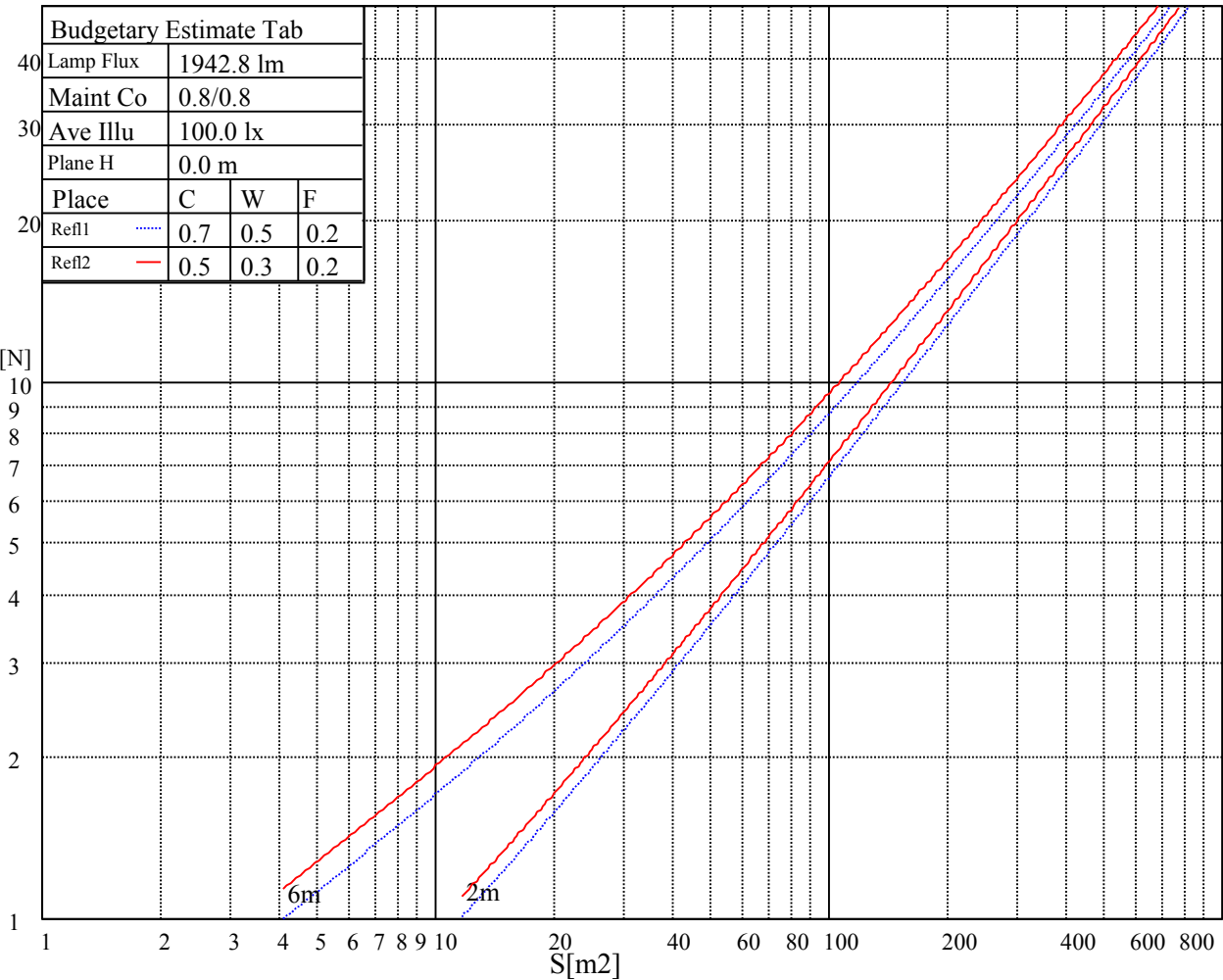
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4873	5554	4484	6886	8573	7184	16854	19034	17207

Glare Table

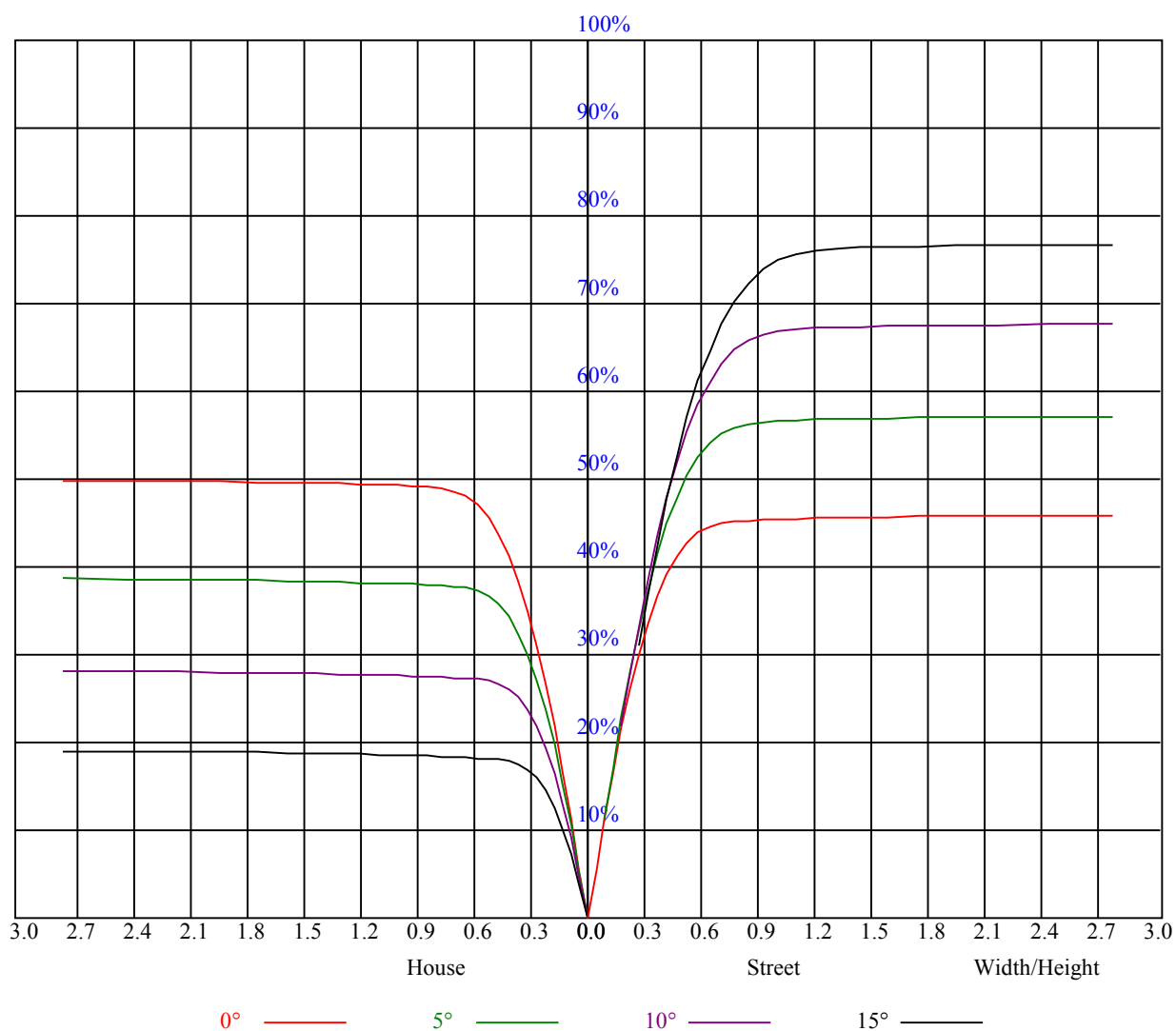
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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 RHOFC=20 CU															
0	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.03	1.03	1.03	0.99	0.99	0.99	0.97
1	1.07	1.04	1.02	1.05	1.02	1.00	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.93	0.92	0.90
2	0.99	0.95	0.92	0.98	0.94	0.91	0.94	0.91	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.84
3	0.93	0.88	0.84	0.91	0.87	0.83	0.89	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.79	0.78
4	0.87	0.81	0.77	0.85	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.74	0.73
5	0.81	0.75	0.71	0.80	0.75	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.68
6	0.76	0.70	0.66	0.75	0.70	0.66	0.74	0.69	0.66	0.73	0.68	0.65	0.71	0.68	0.65	0.63
7	0.72	0.66	0.62	0.71	0.66	0.62	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.59
8	0.68	0.62	0.58	0.67	0.62	0.58	0.66	0.61	0.57	0.65	0.61	0.57	0.64	0.60	0.57	0.56
9	0.64	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.52
10	0.60	0.55	0.51	0.60	0.55	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.58	0.54	0.51	0.49



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	1944.00	1939.50	1953.00	1980.56	2013.19	2048.63	2101.50	2145.94	2194.31
22.5	1942.88	1965.94	1999.69	2027.81	2063.25	2108.81	2149.88	2192.63	2238.75
45.0	1946.25	1964.25	1980.56	1999.69	2017.69	2031.75	2049.75	2069.44	2081.25
67.5	1933.31	1934.44	1932.75	1937.81	1935.56	1923.75	1911.94	1890.56	1861.88
90.0	1929.94	1920.38	1909.69	1888.88	1864.69	1835.44	1791.00	1747.69	1701.56
112.5	1933.88	1927.13	1918.13	1906.31	1891.13	1864.69	1833.19	1803.38	1767.94
135.0	1938.38	1938.94	1939.50	1940.06	1940.63	1944.56	1945.13	1942.31	1933.88
157.5	1940.63	1946.25	1958.63	1973.81	2002.50	2028.94	2060.44	2087.44	2116.69
180.0	1944.00	1954.69	1980.56	2014.31	2055.94	2092.50	2140.88	2189.25	2250.00
202.5	1942.88	1937.81	1941.75	1958.63	1981.69	2017.13	2053.13	2090.25	2127.94
225.0	1946.25	1939.50	1937.81	1943.44	1953.56	1965.38	1980.56	1997.44	2011.50
247.5	1933.31	1935.00	1930.50	1931.63	1927.69	1920.94	1906.88	1891.69	1867.50
270.0	1929.94	1935.56	1935.56	1932.75	1923.75	1909.13	1885.50	1850.63	1817.44
292.5	1933.88	1937.25	1939.50	1933.88	1926.56	1916.44	1901.81	1874.81	1846.13
315.0	1938.38	1940.06	1946.81	1954.69	1965.38	1977.75	1984.50	1985.06	1985.63
337.5	1940.06	1943.44	1955.81	1986.75	2011.50	2034.56	2070.56	2107.13	2139.19
360.0	1944.00	1939.50	1953.00	1980.56	2013.19	2048.63	2101.50	2145.94	2194.31
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2252.81	2297.81	2339.44	2372.63	2394.56	2424.94	2454.75	2471.63	2478.94
22.5	2278.69	2309.63	2326.50	2341.13	2369.81	2382.75	2382.19	2376.00	2368.69
45.0	2089.69	2090.81	2090.25	2079.00	2057.06	2022.19	1992.38	1957.50	1917.00
67.5	1829.81	1797.19	1756.69	1713.38	1663.31	1609.31	1558.69	1496.81	1428.75
90.0	1643.06	1577.81	1519.88	1450.69	1375.88	1315.13	1240.88	1119.49	1094.85
112.5	1716.19	1670.63	1621.69	1564.31	1505.81	1446.19	1384.31	1316.81	1256.06
135.0	1922.06	1908.00	1888.31	1866.38	1842.19	1803.94	1766.81	1719.00	1672.31
157.5	2150.44	2185.31	2208.38	2225.25	2243.25	2240.44	2238.19	2231.44	2205.56
180.0	2295.56	2346.75	2381.06	2408.63	2439.56	2462.06	2465.44	2457.00	2439.00
202.5	2172.94	2221.88	2263.50	2306.81	2334.94	2358.56	2379.94	2393.44	2397.38
225.0	2023.31	2030.63	2039.06	2044.13	2047.50	2041.88	2033.44	2017.69	1993.50
247.5	1842.75	1811.81	1770.75	1735.31	1693.13	1632.94	1580.06	1527.75	1465.31
270.0	1767.94	1716.19	1661.63	1603.13	1525.50	1461.38	1395.00	1318.50	1242.00
292.5	1809.56	1758.94	1716.19	1662.19	1594.13	1539.00	1482.19	1407.38	1353.38
315.0	1984.50	1981.69	1970.44	1954.69	1940.06	1913.06	1884.94	1853.44	1799.44
337.5	2169.56	2202.75	2228.06	2247.75	2253.38	2253.38	2255.06	2255.63	2243.25
360.0	2252.81	2297.81	2339.44	2372.63	2394.56	2424.94	2454.75	2471.63	2478.94
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2477.81	2481.19	2471.06	2448.00	2422.13	2386.69	2334.38	2281.50	2226.94
22.5	2359.13	2343.94	2306.81	2266.88	2232.00	2159.44	2091.94	2030.63	1953.00
45.0	1861.88	1800.00	1748.25	1690.31	1628.44	1573.88	1515.94	1447.31	1395.56
67.5	1373.63	1320.19	1253.81	1199.81	1155.38	1096.88	1047.94	988.88	916.88
90.0	1023.13	976.28	936.39	890.78	843.92	788.01	710.89	646.59	577.80
112.5	1190.81	1135.69	1076.63	1037.81	1000.69	952.31	891.56	831.38	759.38
135.0	1611.00	1548.00	1491.75	1436.06	1382.63	1323.56	1251.56	1195.31	1122.08
157.5	2176.31	2123.44	2073.38	2034.56	1972.13	1906.88	1840.50	1762.88	1695.94
180.0	2424.94	2405.25	2372.63	2326.50	2285.44	2237.06	2170.69	2120.63	2063.81
202.5	2377.13	2351.25	2326.50	2298.38	2270.25	2235.38	2187.56	2131.88	2081.25
225.0	1959.19	1917.56	1872.00	1822.50	1755.56	1686.94	1623.38	1557.00	1496.81
247.5	1399.50	1344.38	1283.06	1224.56	1175.06	1121.85	1092.88	1043.10	972.00
270.0	1176.19	1099.13	1029.94	983.25	938.25	900.00	847.69	786.38	723.38
292.5	1287.00	1211.06	1121.06	1107.28	1064.42	1027.07	978.86	902.31	835.54
315.0	1755.56	1703.81	1629.56	1578.38	1526.63	1463.06	1394.44	1330.31	1264.50
337.5	2217.94	2178.00	2144.25	2102.06	2049.75	1992.94	1920.94	1854.56	1787.63
360.0	2477.81	2481.19	2471.06	2448.00	2422.13	2386.69	2334.38	2281.50	2226.94

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	2159.44	2079.56	2002.50	1883.25	1773.00	1674.56	1519.88	1393.88	1253.25
22.5	1871.44	1794.38	1670.06	1568.81	1457.44	1307.81	1197.56	1088.44	941.63
45.0	1339.31	1275.75	1206.56	1117.01	1083.49	1013.51	939.99	848.03	763.59
67.5	834.19	760.50	672.75	591.19	507.38	417.38	342.56	288.56	208.07
90.0	506.14	414.79	344.76	281.76	218.87	165.38	123.36	83.87	56.03
112.5	672.19	594.56	515.81	429.75	349.88	285.19	221.12	167.01	122.57
135.0	1084.78	1029.71	954.06	870.19	790.37	704.25	625.56	556.43	490.61
157.5	1629.00	1543.50	1490.63	1432.13	1343.81	1263.38	1182.38	1087.88	1000.69
180.0	1998.00	1907.44	1803.94	1704.38	1589.06	1438.31	1314.56	1110.32	998.16
202.5	2003.06	1929.94	1862.44	1780.31	1701.00	1605.38	1495.69	1386.56	1278.56
225.0	1432.13	1370.25	1316.25	1272.38	1210.50	1161.56	1109.25	1020.38	959.63
247.5	913.44	840.15	740.25	675.11	599.12	494.61	430.26	356.79	276.92
270.0	653.63	565.88	494.44	424.69	339.19	290.81	220.22	173.53	120.54
292.5	765.28	688.89	591.98	513.11	435.43	344.64	279.17	221.29	165.04
315.0	1211.06	1162.13	1100.25	1033.31	951.19	870.75	796.50	712.13	627.75
337.5	1714.50	1616.63	1551.94	1488.38	1409.63	1317.94	1234.13	1115.21	1034.66
360.0	2159.44	2079.56	2002.50	1883.25	1773.00	1674.56	1519.88	1393.88	1253.25
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	1073.25	918.56	752.63	539.44	387.56	291.94	143.21	89.61	70.03
22.5	816.19	684.56	505.13	380.81	294.19	172.97	106.26	68.34	54.79
45.0	669.26	581.57	504.56	437.57	357.30	288.11	220.78	151.82	109.86
67.5	146.31	105.19	71.27	45.73	39.38	34.20	28.29	23.57	21.32
90.0	44.94	39.71	35.21	28.24	24.92	22.73	20.87	18.90	17.61
112.5	80.55	55.07	43.99	38.42	33.36	26.16	23.18	21.38	19.63
135.0	407.42	341.10	277.37	213.47	156.83	115.48	83.87	59.51	43.26
157.5	933.75	862.88	797.06	715.50	618.75	519.19	381.38	284.63	162.73
180.0	842.06	683.55	510.24	353.03	239.91	141.58	89.44	63.45	50.63
202.5	1111.44	1023.02	907.65	766.46	611.21	478.80	348.92	242.49	166.84
225.0	892.69	803.81	711.00	638.44	538.31	463.50	402.75	330.19	284.06
247.5	208.24	158.74	111.04	74.36	46.91	37.35	33.13	28.52	24.13
270.0	85.05	58.89	45.17	39.77	35.44	31.16	26.89	24.64	22.50
292.5	114.41	76.78	50.34	41.34	36.51	31.44	26.72	23.46	21.26
315.0	556.88	484.31	393.75	323.44	290.81	192.04	139.39	101.53	71.83
337.5	957.83	878.74	818.83	748.18	658.29	559.13	449.21	293.12	187.99
360.0	1073.25	918.56	752.63	539.44	387.56	291.94	143.21	89.61	70.03
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	55.46	42.36	33.75	28.63	26.04	23.68	21.43	18.96	17.61
22.5	42.69	34.43	27.23	24.24	21.66	19.63	18.17	17.44	15.81
45.0	76.95	46.13	32.57	25.26	20.93	18.68	17.10	15.75	14.96
67.5	19.29	17.89	16.71	15.58	14.57	13.89	13.22	12.66	12.21
90.0	16.54	15.36	14.57	13.89	13.28	12.71	12.32	11.93	11.70
112.5	17.94	16.82	15.86	14.91	14.01	13.39	12.94	12.38	11.98
135.0	32.85	28.07	23.68	20.31	18.17	16.82	15.64	14.74	14.01
157.5	96.81	56.19	46.24	38.53	29.31	22.73	19.80	17.66	16.65
180.0	40.16	32.79	26.44	23.46	21.83	19.01	17.61	16.31	15.24
202.5	98.49	66.04	52.65	41.34	33.53	27.62	23.40	21.32	19.01
225.0	198.00	142.09	101.59	70.37	42.53	30.15	23.91	20.59	18.34
247.5	21.38	19.63	17.83	16.65	15.64	14.57	13.89	13.33	12.83
270.0	20.87	19.35	18.00	17.04	16.14	15.24	14.63	14.12	13.73
292.5	19.63	18.23	16.82	15.86	15.08	14.18	13.61	13.11	12.77
315.0	48.71	35.16	27.73	24.41	21.04	18.56	16.99	16.03	15.02
337.5	113.18	60.98	48.21	39.32	30.49	23.63	20.42	18.39	17.16
360.0	55.46	42.36	33.75	28.63	26.04	23.68	21.43	18.96	17.61

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	16.43	15.58	14.96	14.12	13.39	12.83	12.04	11.70	11.53
22.5	14.85	14.23	13.84	13.39	12.99	12.09	11.87	11.64	11.14
45.0	14.12	13.22	12.66	12.09	11.42	11.03	10.74	10.35	10.18
67.5	11.76	11.53	11.25	11.08	10.97	10.91	10.91	10.97	10.97
90.0	11.59	11.64	11.19	11.48	11.19	11.03	11.93	11.03	11.08
112.5	11.70	11.42	11.31	11.25	11.19	11.19	11.25	11.31	11.36
135.0	13.22	12.60	12.09	11.64	11.25	10.97	10.63	10.41	10.24
157.5	15.69	14.68	14.06	13.67	13.39	13.11	12.54	11.64	11.14
180.0	14.68	14.06	13.39	12.77	12.04	11.70	11.53	11.25	11.08
202.5	17.44	16.20	15.13	14.46	13.89	13.39	12.77	12.32	11.93
225.0	16.99	15.86	14.96	14.29	13.61	12.99	12.38	11.81	11.36
247.5	12.32	12.04	11.98	12.04	12.15	12.26	12.43	12.60	12.77
270.0	13.67	13.84	13.78	13.84	13.89	13.89	14.06	13.89	14.18
292.5	12.60	12.66	12.71	12.83	12.99	13.05	13.16	13.28	13.33
315.0	14.40	13.73	13.05	12.60	12.15	11.76	11.42	11.25	11.14
337.5	15.98	14.79	14.06	13.50	13.16	12.99	12.66	11.98	11.48
360.0	16.43	15.58	14.96	14.12	13.39	12.83	12.04	11.70	11.53
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.31	11.31	11.31	11.25	11.19	11.03	10.91	10.69	10.29
22.5	10.97	10.91	10.86	10.86	10.69	10.52	10.29	10.24	9.96
45.0	10.01	9.90	9.79	9.68	9.68	9.68	9.62	9.62	9.56
67.5	11.03	11.08	11.14	11.19	11.31	11.36	11.42	11.42	11.42
90.0	12.21	11.70	11.64	11.93	12.04	10.58	11.87	11.70	11.93
112.5	11.48	11.53	11.59	11.64	11.76	11.81	11.87	11.87	11.87
135.0	10.18	10.13	10.01	10.01	10.01	10.07	10.13	10.13	10.13
157.5	10.80	10.46	10.29	10.18	10.07	9.96	9.84	9.79	9.68
180.0	11.08	11.14	11.25	11.14	10.97	10.86	10.63	10.29	10.18
202.5	11.53	11.25	10.97	10.74	10.63	10.46	10.29	10.24	10.13
225.0	11.14	10.80	10.63	10.46	10.41	10.41	10.41	10.46	10.46
247.5	12.88	12.99	13.16	13.28	13.33	13.44	13.50	13.44	13.44
270.0	12.77	14.18	14.06	14.18	14.06	14.12	13.95	13.95	14.06
292.5	13.44	13.50	13.61	13.73	13.78	13.78	13.84	13.84	13.78
315.0	11.08	11.08	11.08	11.08	11.14	11.14	11.14	11.19	11.19
337.5	11.14	10.74	10.52	10.35	10.18	10.07	9.96	9.90	9.79
360.0	11.31	11.31	11.31	11.25	11.19	11.03	10.91	10.69	10.29
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.13	10.01	9.84	9.79	9.68	9.62	9.51	9.28	9.11
22.5	9.73	9.56	9.39	9.23	9.17	9.00	8.89	8.83	8.72
45.0	9.51	9.39	9.34	9.28	9.06	8.94	8.78	8.66	8.55
67.5	11.36	11.36	11.31	11.25	11.19	11.03	10.80	10.52	10.18
90.0	11.93	12.15	11.19	10.58	11.42	11.81	10.18	11.53	9.96
112.5	11.87	11.76	11.70	11.59	11.53	11.42	11.31	11.08	10.86
135.0	10.07	10.01	10.01	9.96	9.79	9.23	8.61	8.44	8.38
157.5	9.51	9.39	9.34	9.28	9.17	9.11	8.94	8.83	8.66
180.0	10.07	9.90	9.84	9.73	9.62	9.51	9.28	9.06	8.94
202.5	9.90	9.84	9.73	9.56	9.51	9.39	9.28	9.17	9.11
225.0	10.52	10.52	10.52	10.46	10.24	10.18	10.07	9.79	9.06
247.5	13.50	13.50	13.44	13.39	13.22	13.11	12.54	11.81	10.80
270.0	13.89	13.84	13.95	13.73	13.44	13.50	13.11	12.99	12.83
292.5	13.73	13.67	13.61	13.50	13.39	13.22	13.05	12.83	12.49
315.0	11.19	11.14	11.14	11.03	10.91	10.74	10.58	10.35	10.13
337.5	9.73	9.56	9.51	9.45	9.28	9.23	9.06	8.94	8.78
360.0	10.13	10.01	9.84	9.79	9.68	9.62	9.51	9.28	9.11

Nata 2-2322-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	8.89	8.78	8.61	8.44	8.21	7.99	7.76	7.59	7.43		
22.5	8.55	8.44	8.27	8.16	7.82	7.71	7.54	7.37	7.31		
45.0	8.49	8.44	8.38	8.04	7.93	7.88	7.76	7.59	7.59		
67.5	9.51	9.06	8.94	8.61	8.27	8.16	8.10	7.99	7.88		
90.0	10.29	9.23	9.11	8.33	8.16	8.04	7.99	7.93	7.93		
112.5	10.41	9.45	9.00	8.94	8.21	8.10	8.04	7.99	7.82		
135.0	8.27	8.21	8.21	7.99	7.88	7.82	7.71	7.59	7.48		
157.5	8.49	8.33	8.27	8.10	7.76	7.65	7.54	7.43	7.26		
180.0	8.83	8.55	8.38	8.16	7.88	7.65	7.54	7.37	7.14		
202.5	8.94	8.89	8.78	8.61	8.49	8.33	7.99	7.82	7.65		
225.0	8.72	8.55	8.44	8.38	8.27	8.16	8.10	7.99	7.88		
247.5	10.24	9.84	9.17	9.00	9.06	9.06	9.00	8.16	8.10		
270.0	12.43	12.15	11.70	11.19	10.01	9.68	9.68	8.16	8.04		
292.5	12.15	11.64	10.86	9.96	9.56	9.56	9.06	8.10	7.99		
315.0	9.79	9.39	9.00	8.83	8.78	8.66	8.61	7.82	7.76		
337.5	8.72	8.55	8.44	8.33	8.16	7.99	7.65	7.48	7.43		
360.0	8.89	8.78	8.61	8.44	8.21	7.99	7.76	7.59	7.43		
C/ γ (°)	90.0										
0.0	7.20										
22.5	7.31										
45.0	7.59										
67.5	7.88										
90.0	7.93										
112.5	7.82										
135.0	7.48										
157.5	7.20										
180.0	7.14										
202.5	7.59										
225.0	7.76										
247.5	8.04										
270.0	8.04										
292.5	7.93										
315.0	7.65										
337.5	7.20										
360.0	7.20										