



IES ROAD REPORT

PHOTOMETRIC FILENAME : GM-RND5-TUN-WH_IESNA2002.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] Best Test Service Shenzhen co;led

[TESTDATE] 17 July 2018

[ISSUEDATE] 2018-07-17

[NEARFIELD]

[LAMPPOSITION]

[OTHER] GO-R5000_V2 SYSTEM

[MANUFAC]

[LUMINAIRE] GM-RND5-TUN-WH

[LAMP] GM-RND5-TUN-WH

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	614.33 (1 lamp)
Total Lamp Lumens	614.33
Luminaire Lumens	614
Downward Total Efficiency	100 %
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	9.9325
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	212.22
Maximum Candela Angle	202.5H 3V
Maximum Candela (<90 Degrees Vertical)	212.22
Maximum Candela Angle (<90 Degrees Vertical)	202.5H 3V
Maximum Candela At 90 Degrees Vertical	2.47 (0.4% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	31.43 (5.1% Lamp Lumens)
Cutoff Classification (deprecated)	Cutoff

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	82.2	13.4	13.4
FM - Front-Medium (30-60)	155.2	25.3	25.3
FH - Front-High (60-80)	55.4	9.0	9.0
FVH - Front-Very High (80-90)	4.1	0.7	0.7
BL - Back-Low (0-30)	83.4	13.6	13.6
BM - Back-Medium (30-60)	162.9	26.5	26.5
BH - Back-High (60-80)	63.8	10.4	10.4
BVH - Back-Very High (80-90)	7.1	1.2	1.2
UL - Uplight-Low (90-100)	< 0.05	0.0	0.0
UH - Uplight-High (100-180)	0.1	0.0	0.0
Total	614.2	100.1	100.0
BUG Rating	B0-U1-G0		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	212.02	212.02	212.02	212.02	212.02	212.02	212.02	212.02	212.02	212.02
1	211.87	211.84	211.84	211.84	211.91	211.91	212.02	212.02	212.08	212.17
2	211.64	211.61	211.58	211.58	211.73	211.73	211.90	211.99	212.08	212.20
3	211.35	211.29	211.20	211.23	211.49	211.55	211.75	211.87	212.05	212.22
4	210.99	210.90	210.78	210.87	211.12	211.23	211.52	211.67	211.96	212.08
5	210.58	210.45	210.30	210.40	210.76	210.90	211.25	211.40	211.78	211.92
6	210.11	209.96	209.81	209.84	210.33	210.47	210.81	211.11	211.46	211.69
7	209.53	209.32	209.17	209.19	209.77	209.97	210.43	210.81	211.16	211.33
8	208.92	208.71	208.53	208.55	209.10	209.38	209.87	210.36	210.74	211.00
9	208.22	208.00	207.79	207.84	208.44	208.78	209.33	209.80	210.28	210.52
10	207.47	207.14	206.95	207.06	207.70	208.06	208.73	209.24	209.76	210.00
11	206.64	206.24	206.08	206.16	206.89	207.26	208.03	208.57	209.12	209.47
12	205.68	205.33	205.15	205.26	206.05	206.53	207.21	207.87	208.45	208.80
13	204.76	204.33	204.08	204.19	205.07	205.61	206.34	207.07	207.73	208.01
14	203.71	203.24	202.97	203.09	203.98	204.64	205.43	206.23	206.89	207.30
15	202.61	202.08	201.86	202.01	202.91	203.61	204.49	205.26	206.00	206.47
16	201.40	200.85	200.63	200.75	201.77	202.50	203.46	204.26	205.03	205.57
17	200.17	199.64	199.35	199.51	200.60	201.32	202.30	203.22	204.05	204.56
18	198.87	198.31	197.91	198.15	199.32	200.10	201.10	202.07	202.99	203.47
19	197.49	196.84	196.46	196.70	197.96	198.76	199.88	200.87	201.87	202.43
20	196.04	195.35	195.03	195.21	196.52	197.39	198.54	199.62	200.65	201.18
21	194.59	193.81	193.40	193.60	195.07	195.97	197.17	198.36	199.38	199.92
22	193.02	192.20	191.78	192.04	193.52	194.46	195.74	196.99	198.03	198.59
23	191.33	190.54	190.09	190.31	191.85	192.87	194.20	195.53	196.57	197.22
24	189.67	188.82	188.37	188.58	190.23	191.33	192.72	194.04	195.15	195.76
25	187.81	187.01	186.59	186.78	188.37	189.50	191.11	192.44	193.62	194.26
26	185.98	185.15	184.69	184.91	186.51	187.68	189.29	191.16	192.07	192.76
27	184.11	183.27	182.76	182.97	184.64	185.85	187.46	189.24	190.27	191.00
28	182.09	181.21	180.69	180.97	182.70	183.98	185.63	187.33	188.47	189.23
29	180.09	179.16	178.63	178.93	180.68	182.04	183.70	185.35	186.67	187.46
30	177.93	176.93	176.44	176.78	178.56	179.97	181.71	183.38	184.83	185.62
31	175.86	174.78	174.23	174.57	176.44	177.88	179.69	181.42	182.86	183.72
32	173.66	172.55	172.00	172.30	174.23	175.69	177.55	179.38	180.87	181.71
33	171.34	170.20	169.64	170.01	171.98	173.49	175.44	177.25	178.87	179.69
34	169.00	167.89	167.31	167.62	169.66	171.22	173.22	175.08	176.72	177.60
35	166.58	165.41	164.84	165.14	167.33	168.93	170.95	172.89	174.56	175.45
36	164.15	162.95	162.35	162.67	164.86	166.50	168.61	170.65	172.30	173.17
37	161.59	160.32	159.74	160.11	162.32	164.02	166.20	168.28	169.99	170.89
38	159.03	157.74	157.12	157.47	159.76	161.48	163.74	165.84	167.56	168.48
39	156.41	155.08	154.47	154.83	157.11	158.87	161.23	163.39	165.14	166.08
40	153.64	152.31	151.69	152.12	154.45	156.31	158.68	160.88	162.69	163.68
41	150.94	149.65	148.96	149.38	151.75	153.66	156.02	158.28	160.07	161.18
42	148.03	146.75	146.14	146.52	148.97	150.90	153.34	155.64	157.53	158.57
43	145.23	143.89	143.20	143.60	146.12	148.14	150.61	152.98	154.92	155.94
44	142.30	140.87	140.26	140.65	143.18	145.23	147.79	150.19	152.16	153.22
45	139.29	137.84	137.22	137.68	140.29	142.36	144.93	147.39	149.37	150.49
46	136.32	134.85	134.20	134.67	137.31	139.39	142.01	144.52	146.54	147.66
47	133.19	131.72	131.00	131.54	134.23	136.38	139.05	141.59	143.69	144.84
48	130.15	128.57	127.88	128.44	131.13	133.32	136.00	138.63	140.79	141.93
49	126.86	125.30	124.60	125.16	127.95	130.18	132.98	135.62	137.83	138.98
50	123.61	122.04	121.32	121.84	124.71	127.03	129.91	132.59	134.79	135.95
51	120.31	118.69	117.92	118.51	121.37	123.72	126.66	129.44	131.66	132.87
52	116.95	115.33	114.57	115.11	118.05	120.44	123.41	126.26	128.51	129.73
53	113.62	111.98	111.21	111.79	114.67	117.06	120.10	123.01	125.26	126.48
54	110.10	108.43	107.77	108.26	111.24	113.70	116.80	119.67	121.99	123.25
55	106.74	105.06	104.27	104.85	107.83	110.28	113.45	116.39	118.73	119.97
56	103.18	101.54	100.76	101.35	104.31	106.86	110.01	113.00	115.38	116.65
57	99.68	97.99	97.18	97.75	100.83	103.42	106.60	109.61	112.00	113.34

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CANDELA TABULATION - (Cont.)

58	96.11	94.38	93.57	94.21	97.22	99.85	103.08	106.15	108.58	109.89
59	92.46	90.76	89.95	90.55	93.68	96.30	99.59	102.68	105.11	106.45
60	88.97	87.18	86.35	86.91	90.03	92.70	95.98	99.16	101.61	102.94
61	85.35	83.51	82.69	83.28	86.48	89.08	92.44	95.58	98.10	99.43
62	81.69	79.84	79.03	79.64	82.76	85.49	88.86	92.05	94.55	95.88
63	78.04	76.18	75.37	76.00	79.12	81.82	85.20	88.41	90.97	92.31
64	74.39	72.55	71.72	72.31	75.46	78.20	81.62	84.84	87.36	88.77
65	70.73	68.86	68.01	68.63	71.74	74.56	77.97	81.23	83.76	85.11
66	67.00	65.14	64.31	64.91	68.09	70.89	74.34	77.63	80.18	81.53
67	63.42	61.53	60.68	61.29	64.38	67.19	70.69	73.97	76.51	77.81
68	59.73	57.86	57.00	57.55	60.70	63.56	67.00	70.28	72.86	74.16
69	56.15	54.28	53.39	53.95	57.07	59.92	63.39	66.67	69.20	70.56
70	52.50	50.66	49.80	50.37	53.38	56.21	59.73	63.02	65.54	66.84
71	48.90	47.08	46.22	46.76	49.81	52.66	56.12	59.44	61.95	63.30
72	45.35	43.51	42.70	43.18	46.20	49.08	52.52	55.79	58.30	59.59
73	41.82	39.99	39.15	39.64	42.68	45.54	48.93	52.19	54.71	55.99
74	38.40	36.55	35.71	36.22	39.13	41.96	45.37	48.59	51.06	52.32
75	34.91	33.14	32.31	32.76	35.68	38.45	41.86	45.05	47.48	48.77
76	31.54	29.84	29.02	29.46	32.30	35.02	38.35	41.52	43.96	45.20
77	28.27	26.56	25.77	26.22	28.92	31.65	34.93	38.05	40.43	41.68
78	25.02	23.37	22.61	23.03	25.72	28.37	31.57	34.67	37.01	38.25
79	21.89	20.26	19.54	19.95	22.54	25.16	28.29	31.30	33.59	34.83
80	18.74	17.20	16.53	16.91	19.54	22.01	25.04	27.99	30.26	31.42
81	15.77	14.29	13.63	14.03	16.54	19.01	21.94	24.79	26.98	28.14
82	12.79	11.38	10.82	11.21	13.55	16.02	18.92	21.74	23.79	24.90
83	9.98	8.63	8.30	8.55	10.79	13.03	15.90	18.69	20.70	21.75
84	7.41	6.11	5.80	6.11	8.13	10.26	12.89	15.63	17.62	18.74
85	4.85	3.59	3.29	3.69	5.62	7.62	10.11	12.58	14.54	15.72
86	2.28	1.38	1.18	1.59	3.29	5.11	7.39	9.76	11.67	12.71
87	0.45	0.22	0.19	0.27	1.27	2.77	4.85	7.03	8.86	9.87
88	0.06	0.01	0.00	0.00	0.20	0.85	2.53	4.46	6.19	7.21
89	0.00	0.00	0.00	0.00	0.00	0.13	0.58	2.12	3.68	4.62
90	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.39	1.45	2.29
91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.23	0.48
92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01
97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
106	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
112	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.00
113	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.01
114	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01
115	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.04
116	0.01	0.00	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01
117	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01
118	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01

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119	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02
120	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
121	0.01	0.01	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02
122	0.01	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.01	0.02
123	0.01	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02
124	0.01	0.02	0.02	0.03	0.03	0.02	0.02	0.03	0.03	0.03
125	0.01	0.02	0.02	0.03	0.03	0.02	0.03	0.02	0.02	0.03
126	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.03
127	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03
128	0.02	0.03	0.02	0.03	0.03	0.04	0.03	0.03	0.03	0.03
129	0.02	0.03	0.02	0.02	0.04	0.03	0.03	0.03	0.03	0.04
130	0.02	0.03	0.02	0.02	0.04	0.03	0.03	0.03	0.03	0.04
131	0.02	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04
132	0.02	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.04
133	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.05
134	0.03	0.03	0.03	0.03	0.05	0.04	0.04	0.04	0.04	0.05
135	0.03	0.03	0.04	0.02	0.05	0.04	0.04	0.04	0.04	0.04
136	0.03	0.04	0.04	0.03	0.05	0.04	0.04	0.04	0.04	0.04
137	0.03	0.04	0.03	0.04	0.05	0.04	0.04	0.04	0.04	0.05
138	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05
139	0.03	0.04	0.04	0.03	0.05	0.04	0.04	0.04	0.04	0.04
140	0.03	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04
141	0.03	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.03
142	0.03	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.03
143	0.04	0.04	0.05	0.05	0.05	0.04	0.05	0.05	0.04	0.03
144	0.04	0.05	0.04	0.05	0.05	0.04	0.04	0.05	0.04	0.04
145	0.05	0.04	0.03	0.05	0.04	0.04	0.05	0.05	0.05	0.04
146	0.04	0.04	0.04	0.05	0.04	0.05	0.05	0.05	0.05	0.04
147	0.05	0.04	0.06	0.05	0.04	0.04	0.05	0.05	0.05	0.04
148	0.04	0.05	0.06	0.05	0.03	0.05	0.05	0.05	0.05	0.04
149	0.04	0.05	0.05	0.05	0.03	0.05	0.05	0.05	0.05	0.04
150	0.05	0.05	0.05	0.05	0.03	0.05	0.05	0.05	0.05	0.04
151	0.05	0.05	0.05	0.05	0.03	0.05	0.05	0.05	0.05	0.03
152	0.04	0.05	0.05	0.05	0.03	0.05	0.05	0.05	0.05	0.02
153	0.05	0.05	0.05	0.05	0.03	0.05	0.05	0.05	0.05	0.02
154	0.05	0.05	0.05	0.05	0.03	0.05	0.05	0.05	0.06	0.01
155	0.05	0.05	0.05	0.05	0.03	0.05	0.05	0.05	0.05	0.01
156	0.04	0.07	0.05	0.05	0.03	0.04	0.05	0.05	0.05	0.01
157	0.05	0.05	0.05	0.05	0.03	0.04	0.05	0.05	0.05	0.01
158	0.05	0.05	0.05	0.05	0.03	0.04	0.05	0.05	0.05	0.01
159	0.05	0.05	0.06	0.06	0.03	0.03	0.05	0.05	0.05	0.01
160	0.06	0.06	0.06	0.05	0.03	0.03	0.05	0.05	0.05	0.01
161	0.06	0.06	0.06	0.05	0.03	0.03	0.05	0.05	0.05	0.01
162	0.05	0.06	0.06	0.06	0.03	0.03	0.05	0.05	0.05	0.02
163	0.05	0.05	0.06	0.06	0.03	0.03	0.05	0.05	0.05	0.03
164	0.05	0.06	0.06	0.06	0.03	0.03	0.05	0.05	0.05	0.04
165	0.05	0.06	0.06	0.05	0.03	0.03	0.05	0.05	0.05	0.05
166	0.06	0.06	0.06	0.06	0.03	0.03	0.05	0.05	0.04	0.04
167	0.05	0.06	0.09	0.06	0.03	0.03	0.05	0.05	0.03	0.02
168	0.06	0.07	0.06	0.06	0.04	0.03	0.05	0.05	0.03	0.02
169	0.06	0.07	0.06	0.06	0.04	0.03	0.04	0.05	0.03	0.01
170	0.06	0.06	0.06	0.06	0.04	0.04	0.04	0.04	0.04	0.01
171	0.06	0.06	0.06	0.06	0.04	0.04	0.04	0.04	0.04	0.02
172	0.06	0.06	0.06	0.05	0.05	0.04	0.05	0.04	0.03	0.02
173	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.03
174	0.05	0.06	0.06	0.06	0.05	0.06	0.04	0.05	0.04	0.04
175	0.05	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.04
176	0.05	0.05	0.05	0.04	0.03	0.03	0.04	0.04	0.04	0.03
177	0.02	0.05	0.03	0.03	0.02	0.02	0.02	0.03	0.02	0.01
178	0.00	0.00	0.00	0.02	0.01	0.01	0.01	0.00	0.00	0.01
179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES ROAD REPORT
PHOTOMETRIC FILENAME : GM-RND5-TUN-WH_IESNA2002.IES

CANDELA TABULATION - (Cont.)

180 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	212.02	212.02	212.02	212.02	212.02	212.02	212.02
1	212.14	212.11	212.05	211.99	211.96	211.88	211.87
2	212.17	212.11	212.02	211.91	211.88	211.70	211.64
3	212.16	212.11	211.97	211.76	211.70	211.44	211.35
4	212.05	211.99	211.82	211.59	211.50	211.20	210.99
5	211.90	211.86	211.59	211.32	211.14	210.86	210.58
6	211.69	211.60	211.33	210.98	210.68	210.35	210.11
7	211.39	211.27	210.95	210.53	210.26	209.89	209.53
8	210.98	210.92	210.54	210.07	209.74	209.28	208.92
9	210.61	210.55	210.05	209.52	209.12	208.52	208.22
10	210.11	210.05	209.46	208.93	208.49	207.89	207.47
11	209.53	209.40	208.81	208.27	207.78	207.12	206.64
12	208.94	208.79	208.12	207.47	206.98	206.28	205.68
13	208.21	208.06	207.30	206.67	206.12	205.37	204.76
14	207.44	207.26	206.44	205.78	205.16	204.41	203.71
15	206.61	206.45	205.52	204.79	204.21	203.34	202.61
16	205.68	205.49	204.54	203.81	203.11	202.18	201.40
17	204.73	204.51	203.50	202.71	201.97	200.97	200.17
18	203.70	203.48	202.39	201.48	200.73	199.68	198.87
19	202.60	202.32	201.21	200.27	199.46	198.35	197.49
20	201.34	201.12	199.95	198.98	198.10	197.02	196.04
21	200.11	199.85	198.63	197.57	196.63	195.55	194.59
22	198.78	198.55	197.29	196.17	195.20	194.06	193.02
23	197.41	197.12	195.78	194.70	193.66	192.38	191.33
24	196.00	195.77	194.28	193.14	192.04	190.70	189.67
25	194.47	194.26	192.71	191.57	190.38	189.05	187.81
26	193.00	192.76	191.09	189.91	188.71	187.20	185.98
27	191.24	190.88	189.39	188.15	186.94	185.41	184.11
28	189.47	189.00	187.57	186.30	184.97	183.45	182.09
29	187.70	187.34	185.71	184.43	183.06	181.52	180.09
30	185.84	185.45	183.80	182.43	181.05	179.41	177.93
31	183.92	183.58	181.80	180.41	178.94	177.32	175.86
32	181.92	181.54	179.79	178.37	176.89	175.18	173.66
33	179.93	179.53	177.68	176.19	174.68	172.92	171.34
34	177.82	177.44	175.55	174.06	172.44	170.62	169.00
35	175.68	175.26	173.31	171.75	170.03	168.23	166.58
36	173.45	172.99	171.03	169.41	167.69	165.90	164.15
37	171.10	170.65	168.67	167.01	165.28	163.35	161.59
38	168.77	168.35	166.28	164.57	162.76	160.77	159.03
39	166.34	165.93	163.83	162.09	160.26	158.20	156.41
40	163.94	163.49	161.26	159.55	157.63	155.48	153.64
41	161.42	160.94	158.77	156.94	154.96	152.81	150.94
42	158.89	158.39	156.11	154.22	152.27	150.00	148.03
43	156.26	155.75	153.36	151.51	149.48	147.27	145.23
44	153.52	152.96	150.58	148.71	146.62	144.35	142.30
45	150.80	150.22	147.80	145.84	143.73	141.37	139.29
46	147.95	147.40	144.94	142.95	140.83	138.45	136.32
47	145.16	144.54	142.00	139.90	137.78	135.33	133.19
48	142.19	141.61	139.12	137.02	134.75	132.32	130.15
49	139.30	138.66	136.05	133.91	131.63	129.06	126.86
50	136.25	135.66	132.94	130.78	128.42	125.93	123.61
51	133.12	132.51	129.83	127.55	125.15	122.57	120.31
52	129.98	129.34	126.57	124.31	121.88	119.28	116.95
53	126.81	126.11	123.38	121.08	118.62	115.98	113.62
54	123.51	122.87	120.06	117.69	115.18	112.51	110.10
55	120.30	119.61	116.78	114.42	111.81	109.12	106.74

IES ROAD REPORT
PHOTOMETRIC FILENAME : GM-RND5-TUN-WH_IESNA2002.IES

CANDELA TABULATION - (Cont.)

56	116.95	116.23	113.35	110.97	108.35	105.56	103.18
57	113.60	112.90	109.92	107.48	104.88	102.04	99.68
58	110.14	109.40	106.42	104.05	101.42	98.62	96.11
59	106.70	105.95	102.88	100.51	97.83	94.93	92.46
60	103.15	102.40	99.42	96.96	94.29	91.46	88.97
61	99.65	98.84	95.82	93.35	90.66	87.79	85.35
62	96.12	95.32	92.29	89.77	87.09	84.16	81.69
63	92.50	91.72	88.66	86.15	83.43	80.54	78.04
64	88.96	88.12	85.00	82.47	79.76	76.91	74.39
65	85.27	84.43	81.34	78.78	76.09	73.27	70.73
66	81.68	80.81	77.68	75.10	72.40	69.54	67.00
67	77.96	77.12	74.01	71.50	68.78	65.96	63.42
68	74.30	73.40	70.30	67.82	65.07	62.24	59.73
69	70.66	69.76	66.63	64.15	61.45	58.65	56.15
70	66.95	66.07	62.97	60.47	57.83	55.00	52.50
71	63.39	62.42	59.30	56.81	54.16	51.38	48.90
72	59.70	58.73	55.62	53.21	50.57	47.83	45.35
73	56.04	55.06	51.97	49.55	46.95	44.26	41.82
74	52.39	51.39	48.38	46.04	43.46	40.79	38.40
75	48.78	47.77	44.76	42.47	39.92	37.29	34.91
76	45.19	44.19	41.29	39.00	36.50	33.91	31.54
77	41.66	40.67	37.80	35.52	33.08	30.55	28.27
78	38.20	37.19	34.38	32.18	29.78	27.25	25.02
79	34.79	33.79	31.01	28.86	26.48	24.04	21.89
80	31.43	30.45	27.69	25.57	23.26	20.86	18.74
81	28.13	27.17	24.53	22.46	20.18	17.81	15.77
82	24.84	23.95	21.36	19.35	17.13	14.79	12.79
83	21.74	20.91	18.33	16.39	14.20	11.91	9.98
84	18.75	17.87	15.40	13.49	11.34	9.12	7.41
85	15.77	14.84	12.56	10.69	8.55	6.50	4.85
86	12.79	12.02	9.80	8.14	6.00	3.90	2.28
87	9.98	9.29	7.19	5.60	3.47	1.58	0.45
88	7.34	6.68	4.97	3.07	1.23	0.25	0.06
89	4.81	4.23	2.76	0.96	0.21	0.01	0.00
90	2.47	1.98	0.55	0.15	0.00	0.00	0.00
91	0.59	0.34	0.08	0.00	0.00	0.00	0.00
92	0.09	0.03	0.00	0.00	0.00	0.00	0.00
93	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	0.00	0.00	0.00	0.00	0.00	0.00	0.01

IES ROAD REPORT
PHOTOMETRIC FILENAME : GM-RND5-TUN-WH_IESNA2002.IES

CANDELA TABULATION - (Cont.)

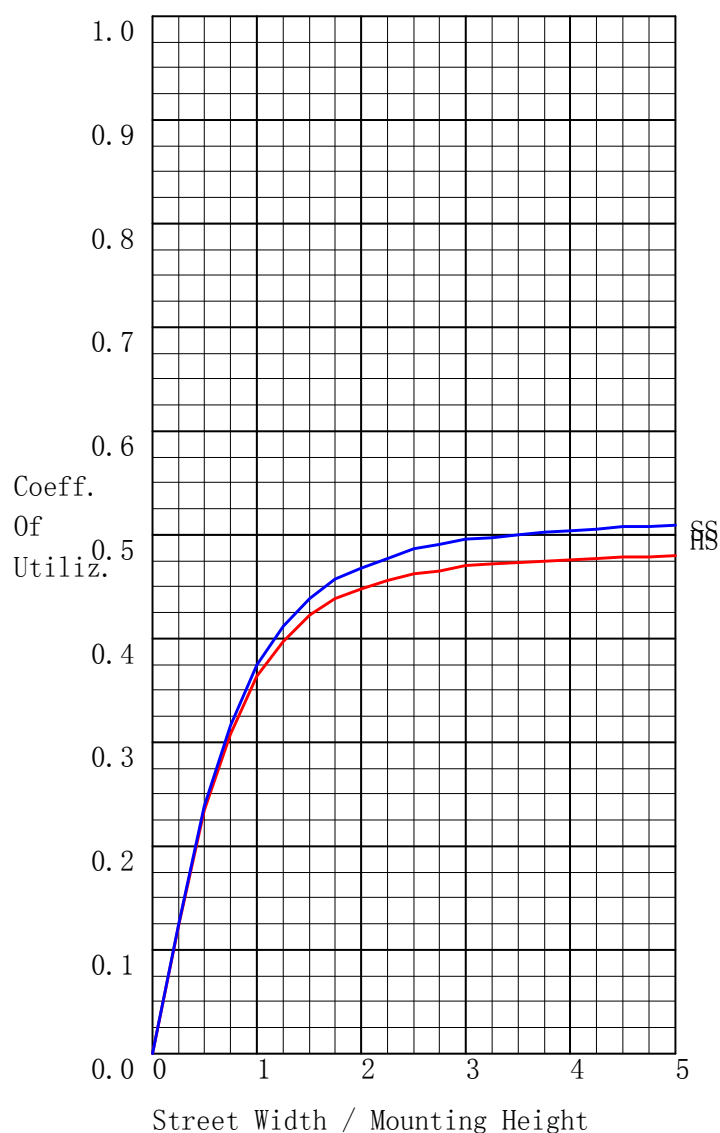
117	0.00	0.00	0.00	0.00	0.00	0.00	0.01
118	0.00	0.00	0.00	0.00	0.00	0.01	0.01
119	0.00	0.00	0.00	0.00	0.00	0.01	0.01
120	0.00	0.00	0.00	0.00	0.00	0.01	0.01
121	0.00	0.00	0.00	0.00	0.01	0.01	0.01
122	0.01	0.01	0.00	0.00	0.01	0.01	0.01
123	0.01	0.00	0.00	0.00	0.01	0.01	0.01
124	0.01	0.00	0.00	0.00	0.01	0.02	0.01
125	0.01	0.01	0.00	0.00	0.01	0.02	0.01
126	0.01	0.00	0.00	0.00	0.01	0.02	0.01
127	0.01	0.01	0.00	0.00	0.02	0.02	0.02
128	0.02	0.01	0.00	0.01	0.02	0.02	0.02
129	0.02	0.01	0.00	0.01	0.02	0.02	0.02
130	0.01	0.01	0.00	0.01	0.02	0.02	0.02
131	0.00	0.01	0.01	0.01	0.02	0.02	0.02
132	0.02	0.01	0.01	0.01	0.02	0.02	0.02
133	0.02	0.01	0.01	0.01	0.03	0.02	0.03
134	0.02	0.01	0.01	0.01	0.03	0.03	0.03
135	0.02	0.01	0.02	0.01	0.03	0.03	0.03
136	0.02	0.02	0.01	0.01	0.03	0.02	0.03
137	0.02	0.02	0.01	0.01	0.03	0.02	0.03
138	0.02	0.02	0.01	0.02	0.03	0.03	0.03
139	0.01	0.02	0.02	0.01	0.00	0.03	0.03
140	0.02	0.02	0.01	0.01	0.01	0.03	0.03
141	0.02	0.02	0.02	0.01	0.02	0.03	0.03
142	0.02	0.02	0.02	0.02	0.02	0.03	0.03
143	0.02	0.02	0.02	0.03	0.01	0.03	0.04
144	0.02	0.02	0.01	0.02	0.04	0.03	0.04
145	0.02	0.02	0.02	0.02	0.02	0.04	0.05
146	0.02	0.02	0.02	0.03	0.02	0.04	0.04
147	0.02	0.01	0.02	0.02	0.02	0.04	0.05
148	0.03	0.02	0.03	0.03	0.02	0.04	0.04
149	0.03	0.02	0.03	0.03	0.02	0.04	0.04
150	0.03	0.03	0.03	0.03	0.01	0.04	0.05
151	0.03	0.04	0.03	0.05	0.02	0.05	0.05
152	0.02	0.02	0.03	0.03	0.02	0.06	0.04
153	0.01	0.03	0.04	0.03	0.05	0.05	0.05
154	0.02	0.03	0.03	0.03	0.03	0.05	0.05
155	0.02	0.03	0.04	0.03	0.03	0.05	0.05
156	0.03	0.02	0.04	0.03	0.03	0.05	0.04
157	0.02	0.01	0.03	0.04	0.02	0.04	0.05
158	0.02	0.02	0.04	0.03	0.03	0.05	0.05
159	0.03	0.03	0.03	0.04	0.03	0.05	0.05
160	0.02	0.03	0.03	0.03	0.02	0.05	0.06
161	0.02	0.03	0.04	0.03	0.03	0.05	0.06
162	0.02	0.03	0.04	0.04	0.02	0.05	0.05
163	0.02	0.03	0.04	0.04	0.02	0.05	0.05
164	0.02	0.03	0.04	0.04	0.02	0.05	0.05
165	0.02	0.03	0.04	0.04	0.02	0.04	0.05
166	0.02	0.03	0.04	0.04	0.02	0.04	0.06
167	0.02	0.03	0.04	0.04	0.03	0.04	0.05
168	0.02	0.03	0.04	0.04	0.03	0.04	0.06
169	0.02	0.03	0.04	0.04	0.03	0.03	0.06
170	0.03	0.03	0.04	0.04	0.03	0.03	0.06
171	0.03	0.03	0.04	0.04	0.02	0.03	0.06
172	0.03	0.03	0.04	0.04	0.02	0.02	0.06
173	0.03	0.03	0.04	0.03	0.02	0.02	0.06
174	0.03	0.03	0.04	0.04	0.02	0.02	0.05
175	0.02	0.03	0.04	0.03	0.02	0.02	0.05
176	0.00	0.02	0.03	0.03	0.02	0.02	0.05
177	0.01	0.00	0.03	0.02	0.02	0.02	0.02

IES ROAD REPORT
PHOTOMETRIC FILENAME : GM-RND5-TUN-WH_IESNA2002.IES

CANDELA TABULATION - (Cont.)

178	0.01	0.00	0.00	0.00	0.01	0.01	0.00
179	0.00	0.00	0.00	0.00	0.01	0.01	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00

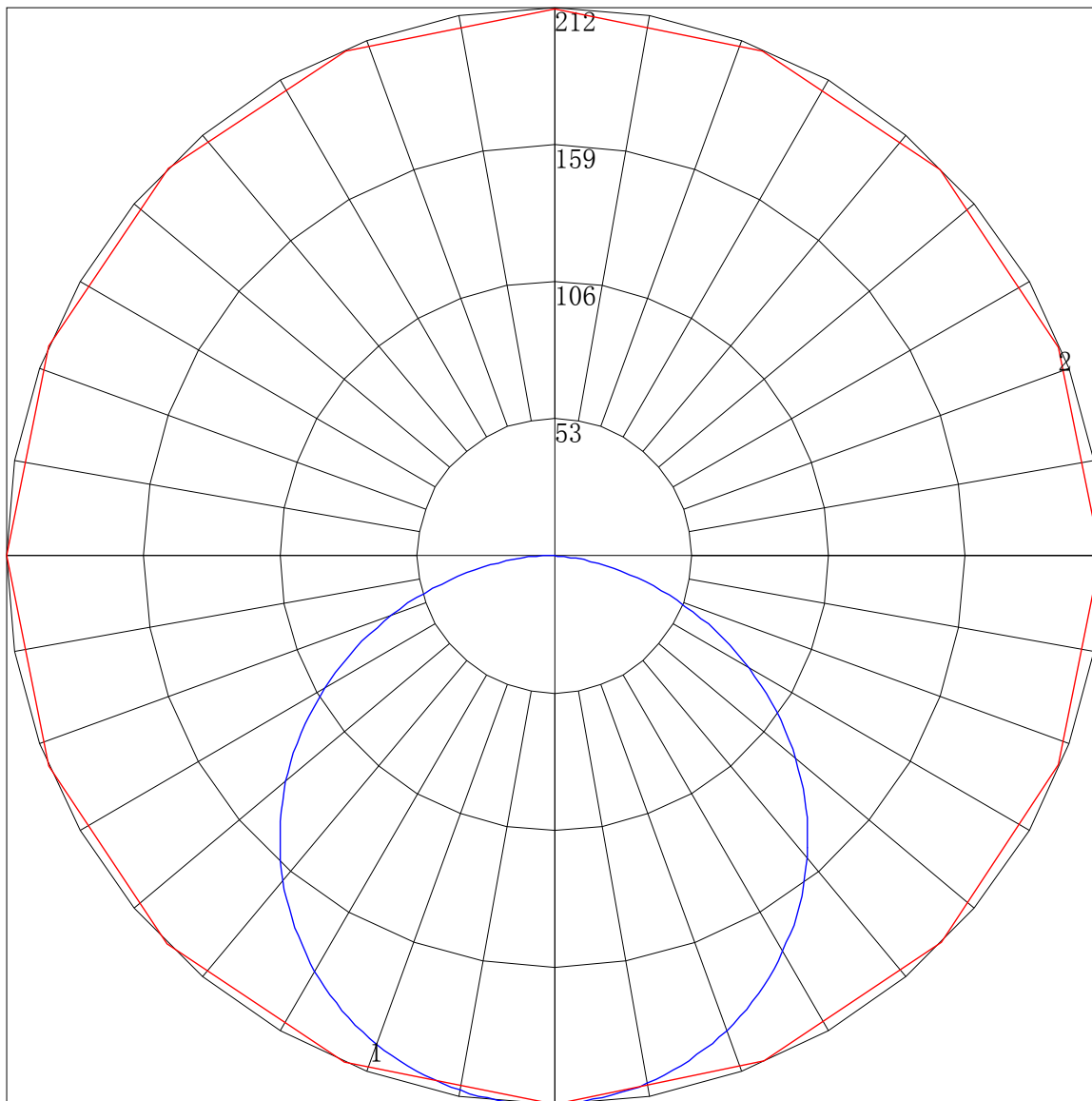
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

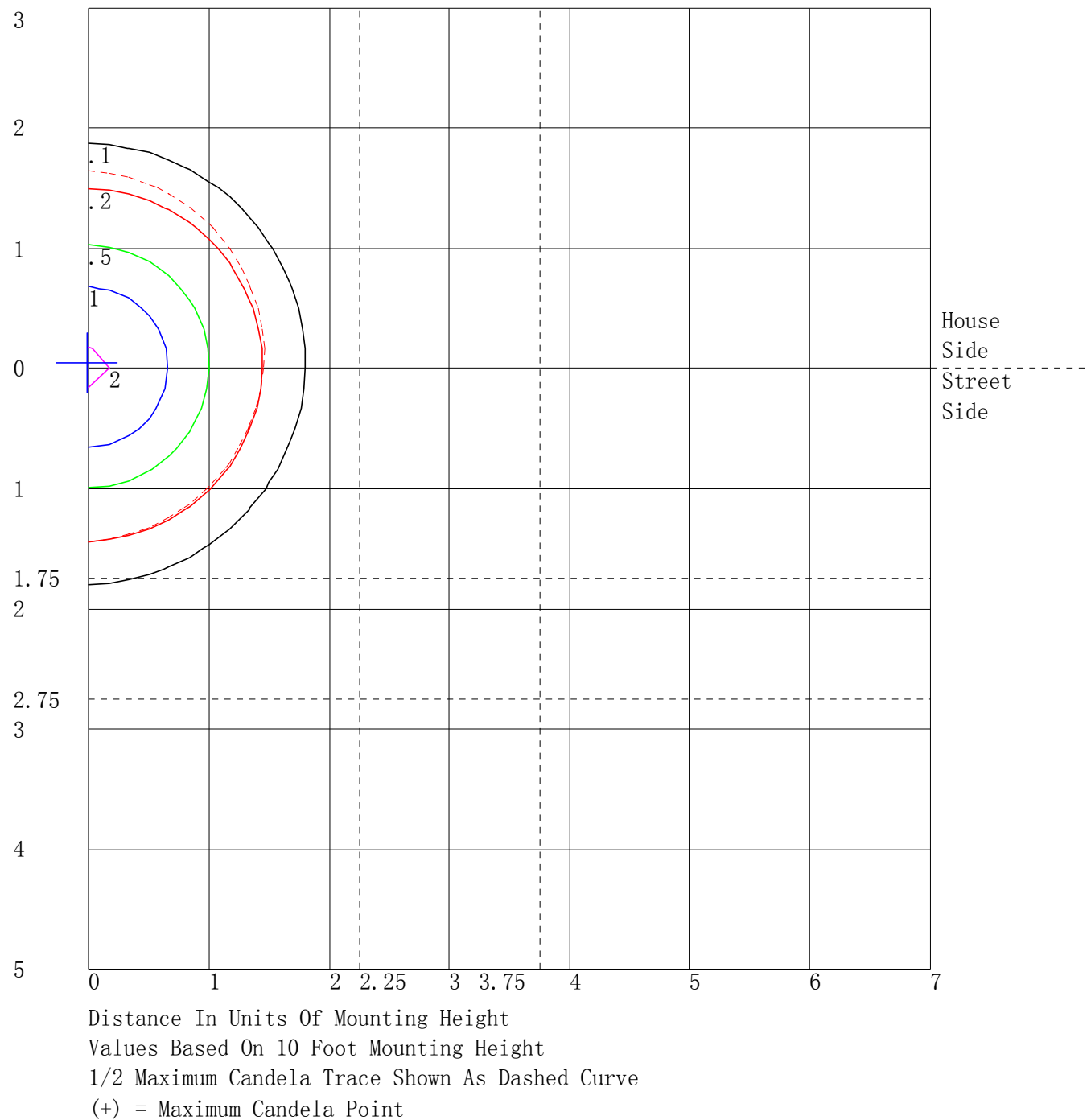
	Lumens	Percent Of Lamp
Downward Street Side	296.9	48.3
Downward House Side	317.3	51.7
Downward Total	614.2	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	614.4	100.0

POLAR GRAPH

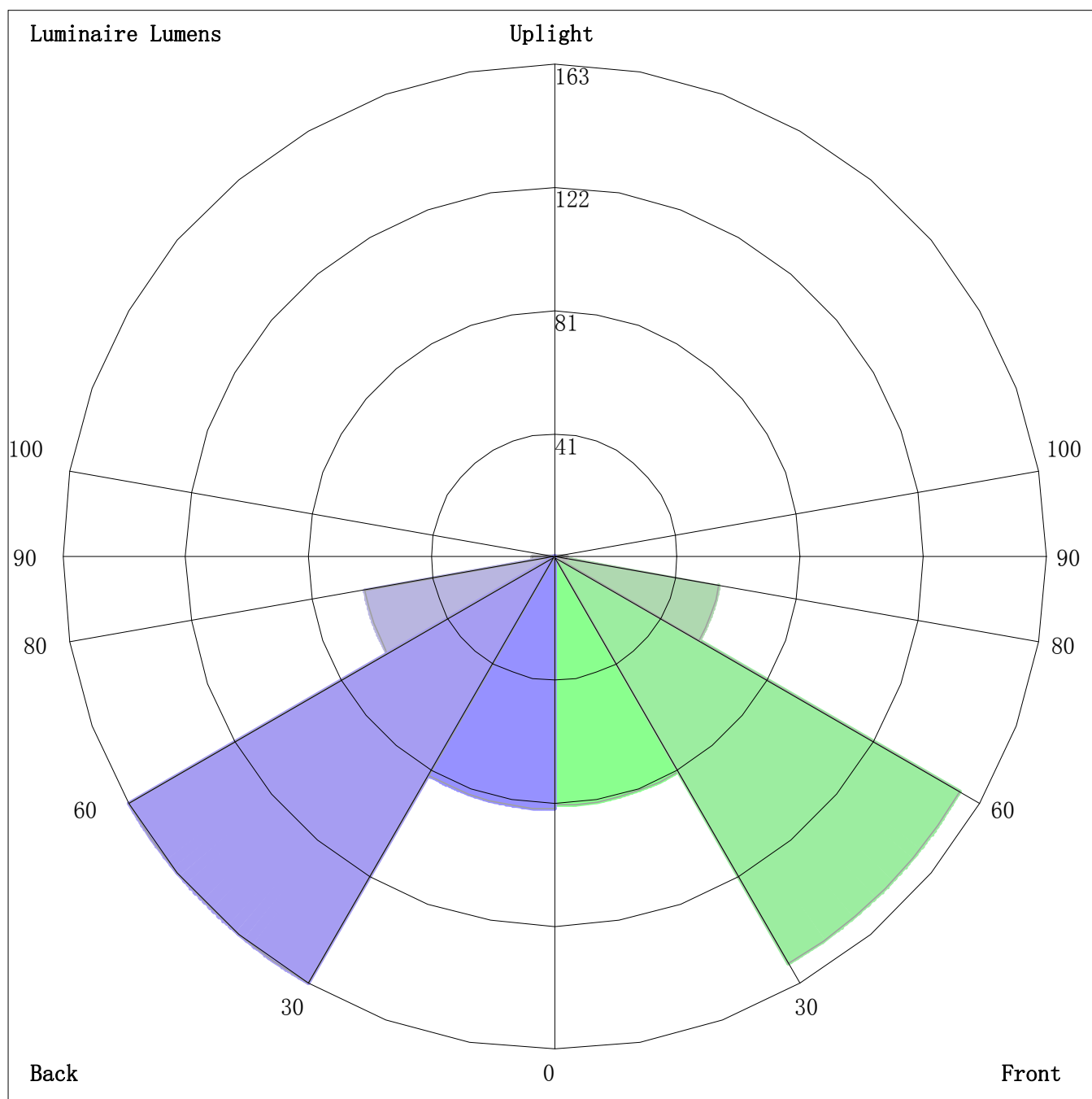


Maximum Candela = 212.22 Located At Horizontal Angle = 202.5, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (202.5 - 22.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=82.2, Medium=155.2, High=55.4, Very High=4.1
Back: Low=83.4, Medium=162.9, High=63.8, Very High=7.1
Uplight: Low=0.0, High=0.1

BUG Rating : B0-U1-G0