



IES ROAD REPORT

PHOTOMETRIC FILENAME : GM-RND8-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-RND8-TUN-WH

[LAMP] GM-RND8-TUN-WH

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	950.05 (1 lamp)
Total Lamp Lumens	950.05
Luminaire Lumens	950
Downward Total Efficiency	100 %
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	13.4326
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	326.42
Maximum Candela Angle	270H 2V
Maximum Candela (<90 Degrees Vertical)	326.42
Maximum Candela Angle (<90 Degrees Vertical)	270H 2V
Maximum Candela At 90 Degrees Vertical	4.17 (0.4% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	48.34 (5.1% Lamp Lumens)
Cutoff Classification (deprecated)	Cutoff

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	127.8	13.5	13.5
FM - Front-Medium (30-60)	247.7	26.1	26.1
FH - Front-High (60-80)	95.2	10.0	10.0
FVH - Front-Very High (80-90)	9.9	1.0	1.0
BL - Back-Low (0-30)	127.1	13.4	13.4
BM - Back-Medium (30-60)	243.4	25.6	25.6
BH - Back-High (60-80)	90.6	9.5	9.5
BVH - Back-Very High (80-90)	8.3	0.9	0.9
UL - Uplight-Low (90-100)	0.1	0.0	0.0
UH - Uplight-High (100-180)	< 0.05	0.0	0.0
Total	950.1	100.0	100.0
BUG Rating	B1-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	326.18	326.18	326.18	326.18	326.18	326.18	326.18	326.18	326.18	326.18
1	326.21	326.15	325.98	326.00	325.95	325.83	325.80	325.86	326.03	326.09
2	326.18	325.95	325.71	325.62	325.64	325.48	325.54	325.60	325.80	325.92
3	326.01	325.68	325.30	325.16	325.20	324.97	325.09	325.20	325.44	325.67
4	325.66	325.31	324.81	324.62	324.61	324.43	324.44	324.62	324.94	325.32
5	325.28	324.86	324.30	323.92	323.88	323.68	323.82	324.03	324.41	324.88
6	324.77	324.23	323.67	323.22	323.19	322.96	323.05	323.28	323.72	324.25
7	324.19	323.45	322.89	322.36	322.32	322.07	322.10	322.31	322.92	323.51
8	323.46	322.72	321.84	321.39	321.29	321.03	321.09	321.48	322.15	322.83
9	322.69	321.81	320.86	320.31	320.30	319.90	319.99	320.44	321.16	322.02
10	321.71	320.71	319.80	319.04	319.03	318.70	318.79	319.27	320.09	320.98
11	320.80	319.74	318.68	317.77	317.70	317.35	317.49	317.95	318.94	319.98
12	319.66	318.54	317.34	316.43	316.36	315.97	316.06	316.66	317.60	318.69
13	318.42	317.10	315.90	314.91	314.96	314.41	314.62	315.17	316.25	317.34
14	317.06	315.73	314.48	313.26	313.21	312.87	313.08	313.62	314.70	316.00
15	315.54	314.22	312.82	311.62	311.55	311.10	311.32	311.94	313.17	314.49
16	314.04	312.54	311.07	309.82	309.82	309.39	309.42	310.14	311.39	312.87
17	312.40	310.83	309.25	307.94	307.94	307.36	307.51	308.26	309.58	311.14
18	310.69	309.04	307.37	305.95	305.89	305.37	305.49	306.29	307.73	309.30
19	308.74	307.01	305.23	303.80	303.79	303.23	303.42	304.16	305.61	307.31
20	306.77	304.97	303.20	301.59	301.56	300.93	301.09	302.00	303.52	305.29
21	304.72	302.80	300.97	299.34	299.23	298.54	298.78	299.69	301.26	303.18
22	302.52	300.49	298.52	296.92	296.83	296.26	296.34	297.30	298.90	300.85
23	300.27	298.19	296.10	294.40	294.31	293.62	293.75	294.79	296.50	298.66
24	297.87	295.71	293.61	291.75	291.76	290.92	291.11	292.14	293.96	296.24
25	295.34	293.16	290.90	289.02	289.00	288.25	288.38	289.43	291.34	293.64
26	292.87	290.60	288.19	286.24	286.13	285.36	285.52	286.64	288.64	290.96
27	290.12	287.78	285.37	283.31	283.20	282.36	282.58	283.82	285.83	288.34
28	287.38	284.88	282.45	280.38	280.18	279.26	279.62	280.83	282.83	285.33
29	284.52	281.95	279.46	277.19	276.97	276.25	276.51	277.65	279.87	282.47
30	281.53	278.90	276.30	274.06	273.90	273.04	273.18	274.47	276.64	279.29
31	278.41	275.65	273.03	270.84	270.63	269.61	269.86	271.18	273.38	276.25
32	275.29	272.44	269.62	267.29	267.22	266.24	266.48	267.78	270.08	272.97
33	272.01	269.18	266.22	263.81	263.64	262.74	262.90	264.27	266.76	269.65
34	268.46	265.63	262.72	260.20	259.99	259.01	259.30	260.70	263.16	266.19
35	265.10	262.08	259.10	256.61	256.44	255.39	255.62	256.99	259.56	262.69
36	261.55	258.41	255.29	252.81	252.71	251.57	251.75	253.26	255.80	259.05
37	257.87	254.76	251.57	248.94	248.73	247.65	247.82	249.33	252.06	255.31
38	254.11	250.82	247.59	244.98	244.84	243.68	243.89	245.51	248.13	251.49
39	250.35	246.98	243.62	240.89	240.86	239.67	239.82	241.40	244.20	247.77
40	246.41	243.06	239.66	236.78	236.62	235.44	235.62	237.31	240.23	243.76
41	242.43	238.89	235.41	232.58	232.48	231.32	231.43	233.11	236.00	239.63
42	238.30	234.78	231.28	228.29	228.25	226.98	227.16	228.93	231.86	235.52
43	234.03	230.44	226.97	223.96	223.77	222.51	222.73	224.43	227.49	231.25
44	229.81	226.10	222.55	219.57	219.27	218.09	218.39	220.09	223.19	226.95
45	225.44	221.65	218.05	214.94	214.90	213.56	213.71	215.57	218.67	222.45
46	220.95	217.18	213.49	210.38	210.31	208.96	209.09	210.92	214.15	218.04
47	216.52	212.63	208.91	205.67	205.57	204.25	204.44	206.21	209.51	213.49
48	211.80	207.91	204.07	200.94	200.92	199.48	199.65	201.60	204.88	208.80
49	207.17	203.18	199.33	196.03	196.09	194.75	194.95	196.71	200.06	204.04
50	202.41	198.32	194.39	191.14	191.04	189.67	189.83	191.67	195.26	199.35
51	197.57	193.47	189.46	186.22	186.00	184.59	184.72	186.63	190.18	194.45
52	192.63	188.48	184.37	181.13	180.95	179.50	179.61	181.59	185.11	189.40
53	187.68	183.42	179.41	176.01	175.76	174.39	174.54	176.49	180.03	184.35
54	182.67	178.35	174.24	170.78	170.59	169.18	169.33	171.23	174.89	179.30
55	177.56	173.12	169.00	165.56	165.40	163.97	164.05	166.02	169.72	174.20
56	172.40	167.98	163.69	160.28	160.00	158.53	158.74	160.74	164.39	168.91
57	167.06	162.55	158.37	154.80	154.69	153.22	153.34	155.51	159.06	163.66

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CANDELA TABULATION - (Cont.)

58	161.74	157.21	152.97	149.47	149.21	147.80	147.90	149.86	153.61	158.27
59	156.37	151.81	147.56	143.96	143.74	142.31	142.43	144.50	148.26	152.92
60	150.91	146.31	141.97	138.55	138.30	136.76	136.86	138.89	142.62	147.39
61	145.44	140.84	136.44	132.89	132.75	131.24	131.36	133.40	137.18	141.97
62	139.80	135.24	130.94	127.46	127.15	125.66	125.77	127.75	131.57	136.34
63	134.29	129.66	125.34	121.81	121.54	120.06	120.11	122.15	125.96	130.75
64	128.64	123.97	119.70	116.22	115.94	114.44	114.50	116.53	120.30	125.11
65	122.95	118.30	114.11	110.59	110.31	108.80	108.81	110.83	114.64	119.51
66	117.43	112.76	108.46	105.03	104.67	103.14	103.24	105.23	109.00	113.89
67	111.48	106.94	102.79	99.33	99.06	97.55	97.56	99.50	103.27	108.25
68	106.04	101.46	97.26	93.73	93.48	91.98	92.01	93.93	97.73	102.61
69	100.23	95.69	91.57	88.19	87.87	86.33	86.33	88.23	91.97	96.92
70	94.63	90.16	86.07	83.80	82.34	80.79	80.78	82.71	86.48	91.34
71	88.94	84.40	80.52	77.71	76.78	75.30	75.33	77.11	80.82	85.59
72	83.11	78.90	74.97	71.58	71.32	69.79	69.78	71.64	75.29	80.16
73	77.61	73.41	69.43	66.19	65.84	64.40	64.42	66.11	69.70	74.45
74	72.12	67.91	64.12	60.83	60.60	59.09	59.06	60.83	64.34	69.14
75	66.67	62.49	58.71	55.54	55.26	53.88	53.76	55.36	58.84	63.52
76	61.27	57.15	53.50	50.35	50.05	48.65	48.63	50.26	53.64	58.22
77	55.93	51.96	48.36	45.26	44.97	43.60	43.56	45.06	48.31	52.85
78	50.75	46.83	43.29	40.28	39.97	38.61	38.59	40.09	43.30	47.78
79	45.63	41.86	38.42	35.41	35.08	33.82	33.76	35.21	38.29	42.59
80	40.54	36.87	33.51	30.64	30.29	29.10	29.03	30.48	33.55	37.81
81	35.81	32.19	28.87	26.00	25.72	24.60	24.59	25.94	28.75	32.91
82	31.00	27.54	24.32	21.49	21.35	20.29	20.33	21.65	24.31	28.29
83	26.48	23.06	19.89	17.12	16.98	15.98	16.06	17.37	20.10	23.69
84	22.07	18.72	15.67	12.95	12.61	11.67	11.81	13.09	15.89	19.51
85	17.81	14.61	11.56	8.92	8.58	7.72	7.92	9.25	11.68	15.33
86	13.71	10.62	8.03	5.34	4.81	4.08	4.36	5.66	7.94	11.15
87	9.83	7.26	4.49	1.77	1.47	0.96	1.29	2.45	4.48	7.41
88	6.65	3.92	0.96	0.11	0.06	0.01	0.04	0.17	1.47	3.92
89	3.49	0.57	0.02	0.00	0.00	0.00	0.00	0.00	0.07	1.06
90	0.32	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
91	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
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	0.00	0.00	0.00	0.00
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	0.00	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	0.00
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	0.00	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	0.00	0.00	0.00
113	0.00	0.00	0.00	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	0.00	0.00	0.00
115	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00
117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

119	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
156	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
157	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
158	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
159	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
161	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
168	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
169	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00
171	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.00	0.00	0.00
172	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.00	0.00	0.00
173	0.00	0.00	0.00	0.00	0.03	0.03	0.04	0.00	0.00	0.00
174	0.00	0.00	0.00	0.01	0.04	0.04	0.04	0.00	0.00	0.00
175	0.00	0.00	0.00	0.01	0.04	0.04	0.04	0.01	0.00	0.00
176	0.00	0.00	0.00	0.02	0.05	0.04	0.04	0.03	0.01	0.01
177	0.00	0.00	0.00	0.02	0.03	0.03	0.02	0.03	0.02	0.02
178	0.01	0.01	0.01	0.01	0.01	0.02	0.00	0.02	0.01	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-RND8-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. Angles 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	326.18	326.18	326.18	326.18	326.18	326.18	326.18
1	326.21	326.32	326.27	326.27	326.36	326.30	326.21
2	326.12	326.35	326.42	326.19	326.25	326.22	326.18
3	325.97	326.29	326.27	326.21	326.22	326.16	326.01
4	325.70	326.08	326.07	326.13	326.10	325.84	325.66
5	325.32	325.82	325.89	325.87	325.81	325.52	325.28
6	324.84	325.55	325.51	325.55	325.43	325.17	324.77
7	324.31	325.01	325.01	325.07	325.01	324.72	324.19
8	323.62	324.42	324.46	324.52	324.38	324.02	323.46
9	322.87	323.69	323.75	323.88	323.76	323.31	322.69
10	321.92	322.89	322.92	323.11	323.00	322.49	321.71
11	320.89	322.00	322.17	322.23	322.05	321.51	320.80
12	319.80	320.95	321.16	321.30	321.04	320.41	319.66
13	318.58	319.87	320.06	320.22	319.99	319.25	318.42
14	317.29	318.61	318.83	319.00	318.74	318.01	317.06
15	315.97	317.26	317.45	317.62	317.50	316.64	315.54
16	314.31	315.83	315.99	316.25	315.99	315.19	314.04
17	312.73	314.32	314.48	314.76	314.46	313.60	312.40
18	311.00	312.64	312.83	313.07	312.84	311.88	310.69
19	309.16	310.90	311.14	311.43	311.11	310.05	308.74
20	307.20	309.12	309.28	309.64	309.24	308.16	306.77
21	305.15	307.18	307.37	307.69	307.25	306.14	304.72
22	303.14	305.12	305.33	305.69	305.25	304.05	302.52
23	300.85	302.92	303.20	303.65	303.13	301.92	300.27
24	298.44	300.67	300.91	301.35	300.84	299.56	297.87
25	295.97	298.35	298.67	299.03	298.53	297.22	295.34
26	293.49	295.87	296.22	296.61	296.11	294.75	292.87
27	290.87	293.23	293.59	294.07	293.53	292.15	290.12
28	288.04	290.66	290.99	291.42	290.88	289.40	287.38
29	285.30	287.91	288.18	288.63	288.12	286.57	284.52
30	282.29	284.96	285.32	285.72	285.18	283.62	281.53
31	279.23	281.90	282.30	282.87	282.18	280.55	278.41
32	276.09	278.93	279.23	279.82	279.14	277.47	275.29
33	272.86	275.71	276.11	276.61	276.05	274.25	272.01
34	269.47	272.45	272.85	273.43	272.71	271.00	268.46
35	266.02	269.16	269.51	270.10	269.37	267.59	265.10
36	262.52	265.79	266.08	266.62	265.95	264.04	261.55
37	258.89	262.15	262.56	263.21	262.40	260.46	257.87
38	255.26	258.51	258.90	259.52	258.75	256.75	254.11
39	251.42	254.76	255.11	255.80	254.98	252.97	250.35
40	247.48	250.99	251.40	251.98	251.18	249.14	246.41
41	243.49	247.10	247.47	248.07	247.24	245.17	242.43
42	239.50	243.10	243.36	244.17	243.30	241.21	238.30
43	235.21	238.92	239.32	240.03	239.22	237.04	234.03
44	231.04	234.73	235.16	235.81	234.96	232.87	229.81
45	226.69	230.46	230.86	231.63	230.74	228.60	225.44
46	222.31	226.12	226.56	227.26	226.27	224.04	220.95
47	217.70	221.71	222.12	222.90	221.91	219.62	216.52
48	213.31	217.23	217.58	218.37	217.48	215.16	211.80
49	208.52	212.69	213.08	213.80	212.79	210.43	207.17
50	203.86	208.00	208.36	209.20	208.18	205.72	202.41
51	199.11	203.29	203.65	204.38	203.41	200.97	197.57
52	194.32	198.54	198.77	199.63	198.54	196.13	192.63
53	189.24	193.72	193.94	194.70	193.72	191.17	187.68
54	184.16	188.58	188.88	189.79	188.69	186.19	182.67
55	179.08	183.45	183.99	184.78	183.73	181.11	177.56

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

56	173.83	178.32	178.90	179.68	178.54	176.03	172.40
57	168.68	173.18	173.67	174.51	173.40	170.75	167.06
58	163.34	167.95	168.43	169.33	168.19	165.50	161.74
59	158.06	162.65	163.09	163.91	162.74	160.13	156.37
60	152.55	157.19	157.80	158.64	157.49	154.74	150.91
61	147.15	151.80	152.37	153.15	152.00	149.27	145.44
62	141.56	146.32	146.91	147.76	146.52	143.69	139.80
63	136.15	140.83	141.46	142.22	141.00	138.19	134.29
64	130.50	135.31	135.78	136.68	135.44	132.56	128.64
65	125.00	129.75	130.28	131.15	129.89	126.91	122.95
66	119.30	124.07	124.65	125.58	124.27	121.41	117.43
67	113.66	118.51	119.04	119.90	118.58	115.59	111.48
68	108.06	112.88	113.36	114.27	112.94	110.00	106.04
69	102.36	107.13	107.84	108.70	107.37	104.18	100.23
70	96.74	101.56	102.13	103.00	101.60	98.58	94.63
71	91.07	95.93	96.56	97.36	96.00	92.90	88.94
72	85.57	90.27	90.93	91.72	90.35	87.29	83.11
73	79.83	84.63	85.41	86.16	84.77	81.70	77.61
74	74.48	79.16	79.84	80.61	79.21	76.11	72.12
75	68.82	73.57	74.27	75.07	73.66	70.52	66.67
76	63.57	68.12	68.71	69.53	68.10	65.07	61.27
77	58.06	62.66	63.32	64.09	62.71	59.68	55.93
78	52.92	57.39	58.06	58.80	57.40	54.41	50.75
79	47.65	52.10	52.77	53.53	52.16	49.23	45.63
80	42.69	47.00	47.58	48.34	46.98	44.10	40.54
81	37.68	41.91	42.54	43.27	41.97	39.22	35.81
82	32.93	36.98	37.55	38.30	37.05	34.33	31.00
83	28.11	32.15	32.72	33.43	32.17	29.66	26.48
84	23.62	27.46	28.00	28.71	27.57	25.13	22.07
85	19.37	23.03	23.46	24.14	23.10	20.74	17.81
86	15.13	18.60	18.91	19.61	18.73	16.51	13.71
87	10.88	14.18	14.65	15.34	14.52	12.50	9.83
88	7.01	10.07	10.49	11.21	10.45	8.60	6.65
89	3.51	6.22	7.11	7.68	7.11	5.19	3.49
90	0.66	2.64	3.75	4.17	3.79	1.79	0.32
91	0.00	0.25	0.38	0.65	0.47	0.14	0.01
92	0.00	0.00	0.01	0.01	0.01	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	0.00

IES ROAD REPORT
PHOTOMETRIC FILENAME : GM-RND8-TUN-WH_IESNA2002.IES

CANDELA TABULATION - (Cont.)

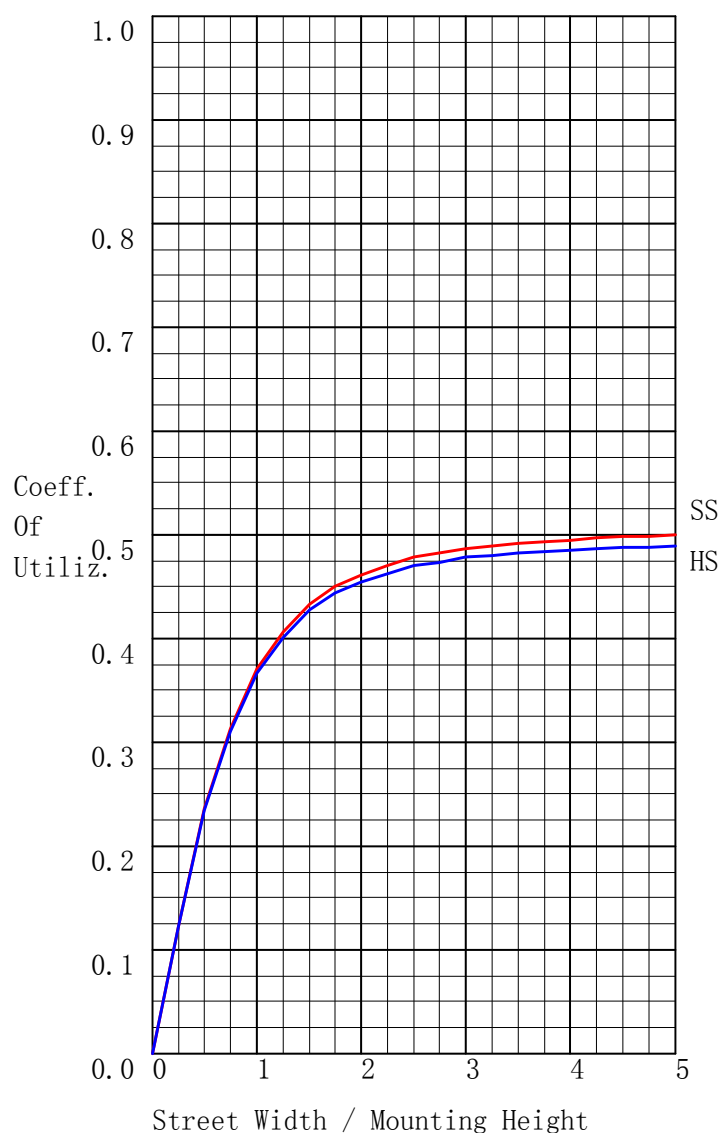
117	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	0.00	0.00	0.00	0.00	0.00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

IES ROAD REPORT
PHOTOMETRIC FILENAME : GM-RND8-TUN-WH_IESNA2002.IES

CANDELA TABULATION - (Cont.)

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

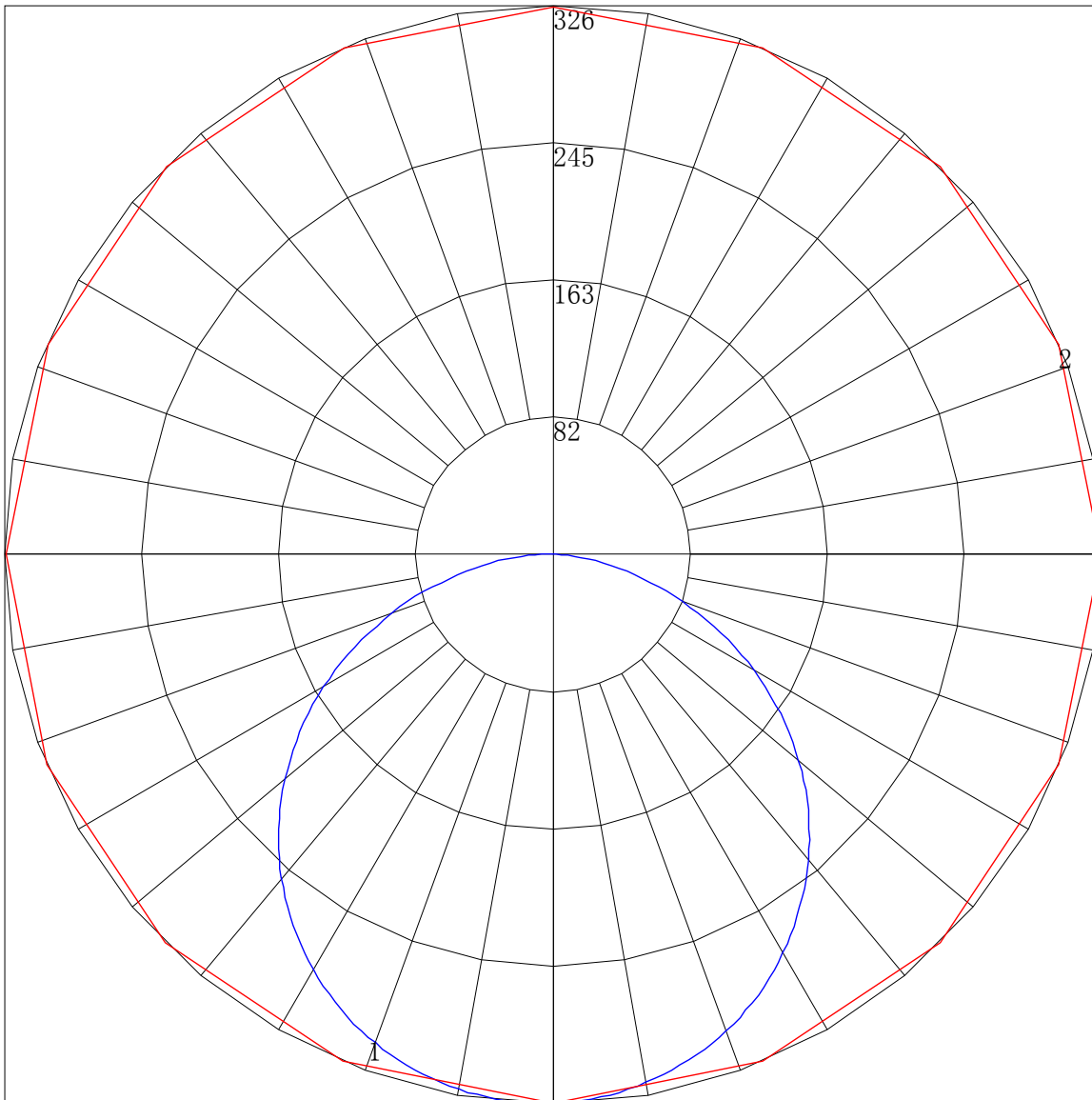
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Lamp
Downward Street Side	480.6	50.6
Downward House Side	469.3	49.4
Downward Total	949.9	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.0	0.0
Upward Total	0.1	0.0
Total Flux	950.0	100.0

POLAR GRAPH

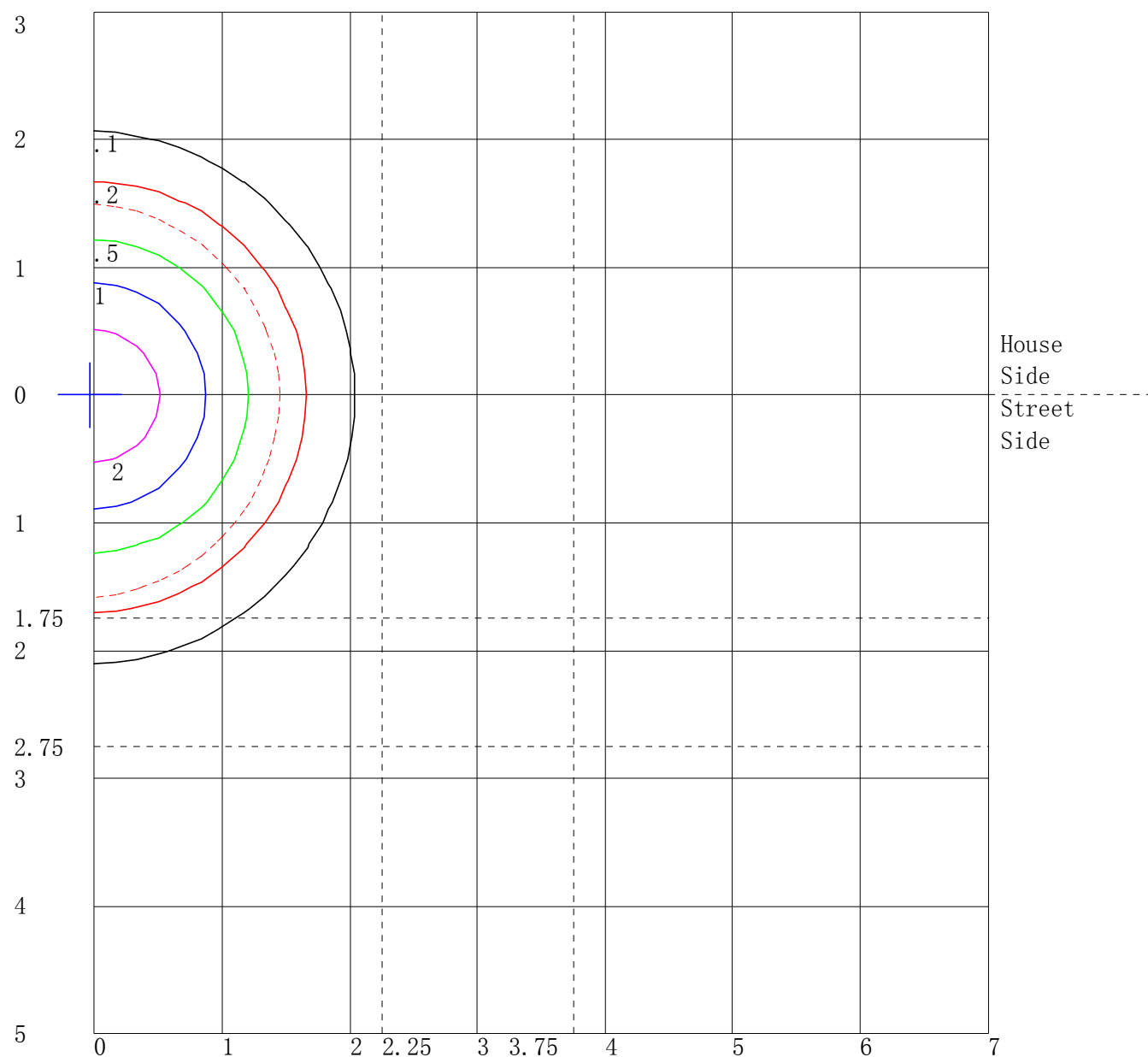


Maximum Candela = 326.42 Located At Horizontal Angle = 270, Vertical Angle = 2

1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)

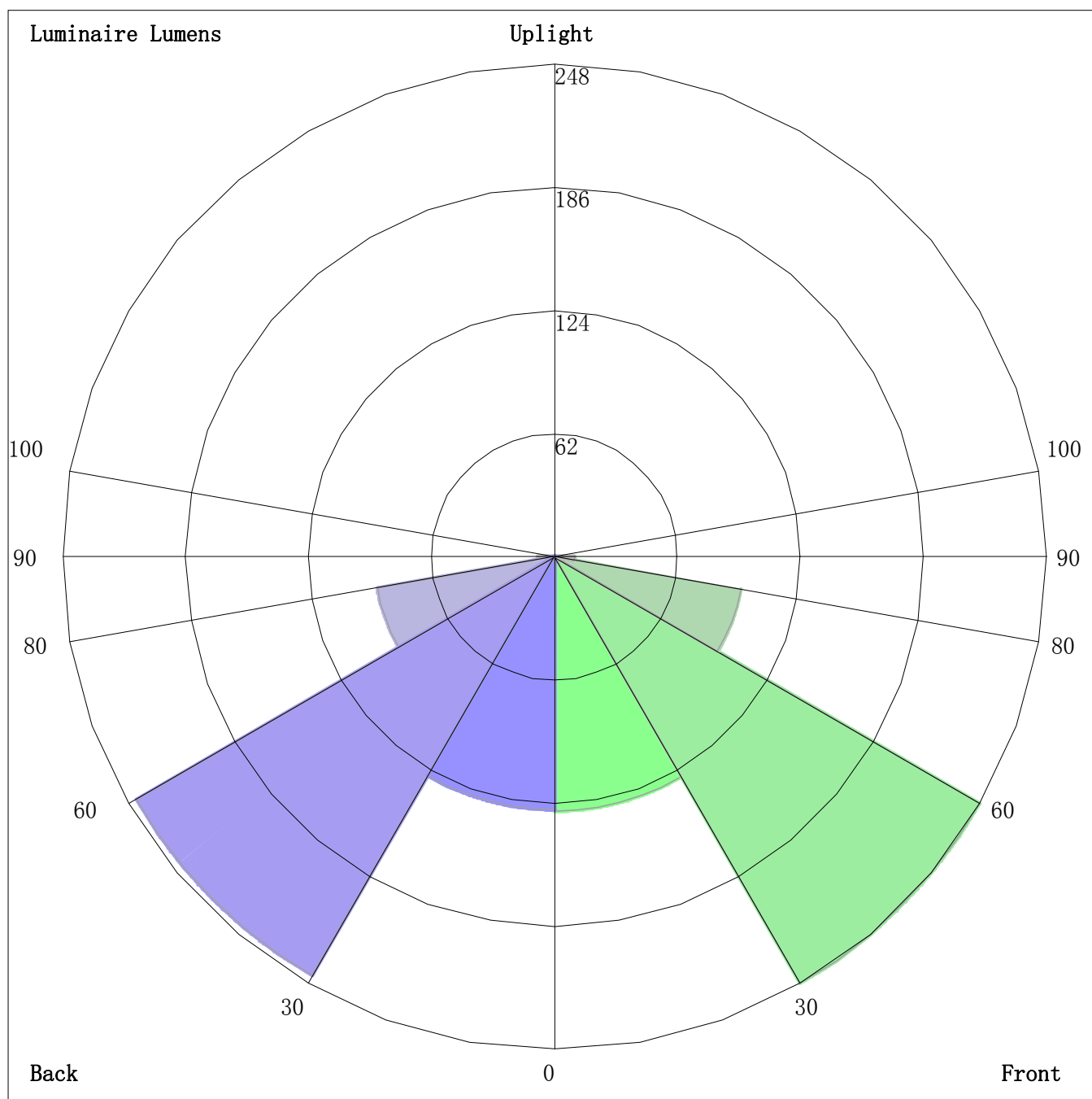
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
 Values Based On 10 Foot Mounting Height
 1/2 Maximum Candela Trace Shown As Dashed Curve
 (+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=127.8, Medium=247.7, High=95.2, Very High=9.9
Back: Low=127.1, Medium=243.4, High=90.6, Very High=8.3
Uplight: Low=0.1, High=0.0

BUG Rating : B1-U1-G0