



Brandon Industries, Inc.
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IES ROAD REPORT
PHOTOMETRIC FILENAME : AGA1-100WMH.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14059
[TESTLAB] LUMINAIRE TESTING LABORATORY, INC.
[ISSUEDATE] 10-08-2008
[MANUFAC] BRANDON INDUSTRIES, INC.
[LUMCAT] 100WMH-AGA1
[LUMINAIRE] CAST ALUMINUM HOUSING, SPUN SEMI-SPECULAR ALUMINUM BASE,
[MORE] CLEAR PATTERNED PLASTIC ENCLOSURE WITH SPUN SEMI-SPECULAR
[MORE] ALUMINUM TOP REFLECTOR.
[LAMP] ONE CLEAR VBD M90 100 WATT ED17 PULSE START METAL HALIDE LAMP
[MORE] RATED AT 9000 LUMENS.
[LAMPCAT] PHILIPS MH100/U/M/PS

CHARACTERISTICS

IES Classification	Type V
Longitudinal Classification	Long
Cutoff Classification	Non-Cutoff
Total Rated Lamp Lumens	9000
Maximum Candela	951.64
Maximum Candela Angle	0H 83.5V
Maximum Candela At 90 Degrees Vertical	918.34 (10.20% Lamp Lms)
Maximum Candela At 80 Degrees Vertical	951.64 (10.57% Lamp Lms)
Downward Total Efficiency	53.3%

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CANDELA TABULATION

Vert. Angles **Horizontal Angles**

	<u>0</u>
0	158.78
0.5	162.42
1	165.99
1.5	169.04
2	171.79
2.5	173.88
3	175.86
3.5	177.59
4	179.47
4.5	181.38
5	183.33
5.5	185.47
6	187.62
6.5	190.07
7	192.6
7.5	195.42
8	198.24
8.5	201.26
9	204.22
9.5	206.92
10	209.45
10.5	211.75
11	213.99
11.5	216.1
12	218.12
12.5	219.98
13	221.94
13.5	223.67
14	225.28
14.5	226.92
15	228.31
15.5	229.7
16	231.07
16.5	232.39
17	233.83
17.5	235.14
18	236.53
18.5	237.94
19	239.59
19.5	241.18
20	242.97
20.5	244.83
21	246.91
21.5	249.07
22	251.41
22.5	253.98
23	256.69
23.5	259.9
24	263.37
24.5	267.46
25	272.28
25.5	278.32
26	285.77

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CANDELA TABULATION - (Cont.)

26.5	295.13
27	306.74
27.5	320.01
28	335.46
28.5	352.31
29	371.16
29.5	391.68
30	412.86
30.5	434.1
31	455.53
31.5	476.43
32	496
32.5	514.9
33	531.86
33.5	548.01
34	562.91
34.5	576.45
35	589.93
35.5	603.63
36	616.5
36.5	628.43
37	640.78
37.5	652.62
38	664.26
38.5	674.5
39	682
39.5	688.54
40	694.14
40.5	700.16
41	706.94
41.5	714.02
42	719.58
42.5	724.18
43	728.27
43.5	731.57
44	735.99
44.5	740.78
45	746.87
45.5	752.41
46	758.76
46.5	765.18
47	771.16
47.5	776.64
48	780.11
48.5	783.51
49	786.44
49.5	788.95
50	791.11
50.5	793.79
51	796.19
51.5	797.56
52	798.25
52.5	799.67
53	801.68
53.5	803.78
54	806.05

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CANDELA TABULATION - (Cont.)

54.5	808.55
55	810.81
55.5	813.19
56	816.64
56.5	821.58
57	826.4
57.5	833.28
58	840.7
58.5	847.85
59	854.01
59.5	858.79
60	863.15
60.5	866.97
61	870.58
61.5	873.49
62	877.39
62.5	880.04
63	882.28
63.5	884.52
64	886.61
64.5	889.57
65	892.94
65.5	897.17
66	900.58
66.5	903.01
67	904.11
67.5	905.98
68	907.38
68.5	909.42
69	911.39
69.5	913.95
70	918.51
70.5	921.9
71	924.1
71.5	925.58
72	927.46
72.5	930.46
73	932.43
73.5	933.47
74	933.13
74.5	932.04
75	931.08
75.5	931.01
76	931.64
76.5	932.41
77	934.74
77.5	937.59
78	941.12
78.5	943.13
79	945.17
79.5	945.98
80	946.03
80.5	946.54
81	947.33
81.5	948.01
82	948.31

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CANDELA TABULATION - (Cont.)

82.5	949.54
83	950.87
83.5	951.64
84	951.46
84.5	950.52
85	947.38
85.5	943.43
86	939.24
86.5	934.58
87	930.12
87.5	926.52
88	923.79
88.5	922.85
89	921.34
89.5	919.82
90	918.34
90.5	916.68
91	914.44
91.5	911.88
92	908.78
92.5	906.62
93	906.15
93.5	906.79
94	909.01
94.5	911.9
95	915.21
95.5	918.03
96	919.85
96.5	921.05
97	922.23
97.5	923.31
98	923.36
98.5	922.73
99	920.6
99.5	917.67
100	913.82
100.5	909.32
101	903.35
101.5	896.33
102	888.96
102.5	880.74
103	871.5
103.5	861.32
104	849.99
104.5	837.38
105	824.16
105.5	809.73
106	794.59
106.5	778.25
107	759.53
107.5	738.04
108	713.88
108.5	686.66
109	654.63
109.5	617.56
110	576.18

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CANDELA TABULATION - (Cont.)

110.5	530.34
111	482.11
111.5	431.54
112	380.43
112.5	331.66
113	286.25
113.5	244.63
114	208.85
114.5	178.6
115	153.18
115.5	132.82
116	116.67
116.5	103.58
117	93.38
117.5	84.93
118	77.89
118.5	72.2
119	67.49
119.5	63.33
120	59.91
120.5	57.03
121	54.4
121.5	52.16
122	50.14
122.5	48.36
123	46.79
123.5	45.42
124	44.15
124.5	42.95
125	41.85
125.5	40.84
126	39.96
126.5	39.02
127	38.24
127.5	37.43
128	36.75
128.5	35.98
129	35.29
129.5	34.67
130	34
130.5	33.35
131	32.78
131.5	32.19
132	31.58
132.5	31.06
133	30.49
133.5	29.93
134	29.4
134.5	28.83
135	28.33
135.5	27.76
136	27.21
136.5	26.61
137	26.11
137.5	25.53
138	24.94

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CANDELA TABULATION - (Cont.)

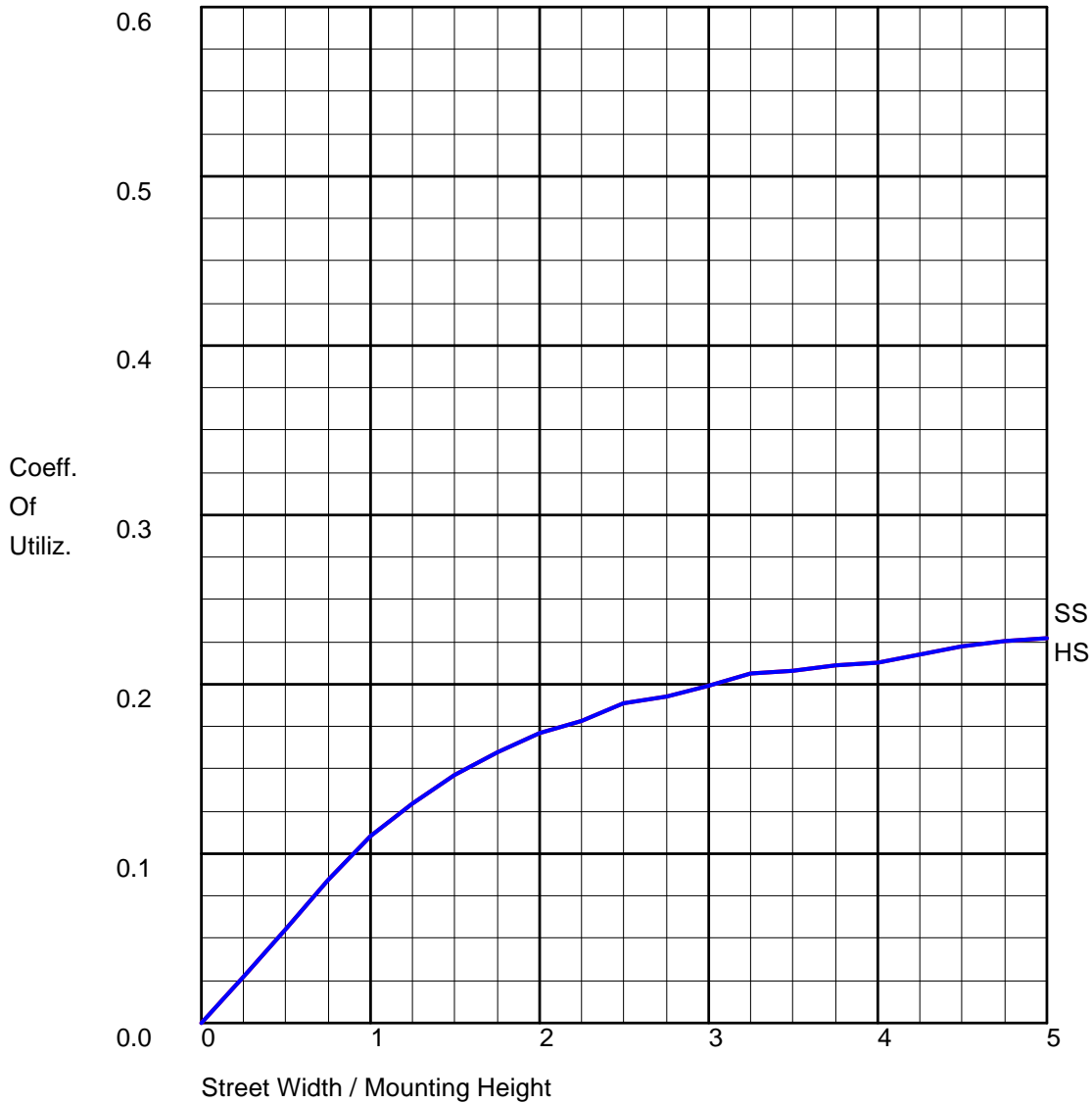
138.5	24.36
139	23.76
139.5	23.11
140	22.46
140.5	21.84
141	21.22
141.5	20.53
142	19.78
142.5	19.02
143	18.3
143.5	17.51
144	16.77
144.5	15.96
145	15.25
145.5	14.39
146	13.63
146.5	12.8
147	12.07
147.5	11.3
148	10.59
148.5	9.89
149	9.23
149.5	8.53
150	7.95
150.5	7.34
151	6.77
151.5	6.22
152	5.69
152.5	5.17
153	4.71
153.5	4.25
154	3.82
154.5	3.39
155	3.01
155.5	2.56
156	2.18
156.5	1.82
157	1.49
157.5	1.19
158	0.83
158.5	0.56
159	0.34
159.5	0.18
160	0.05
160.5	0
161	0
161.5	0
162	0
162.5	0
163	0
163.5	0
164	0
164.5	0
165	0
165.5	0
166	0

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CANDELA TABULATION - (Cont.)

166.5	0
167	0
167.5	0
168	0
168.5	0
169	0
169.5	0
170	0
170.5	0
171	0
171.5	0
172	0
172.5	0
173	0
173.5	0
174	0
174.5	0
175	0
175.5	0
176	0
176.5	0
177	0
177.5	0
178	0
178.5	0
179	0
179.5	0
180	0

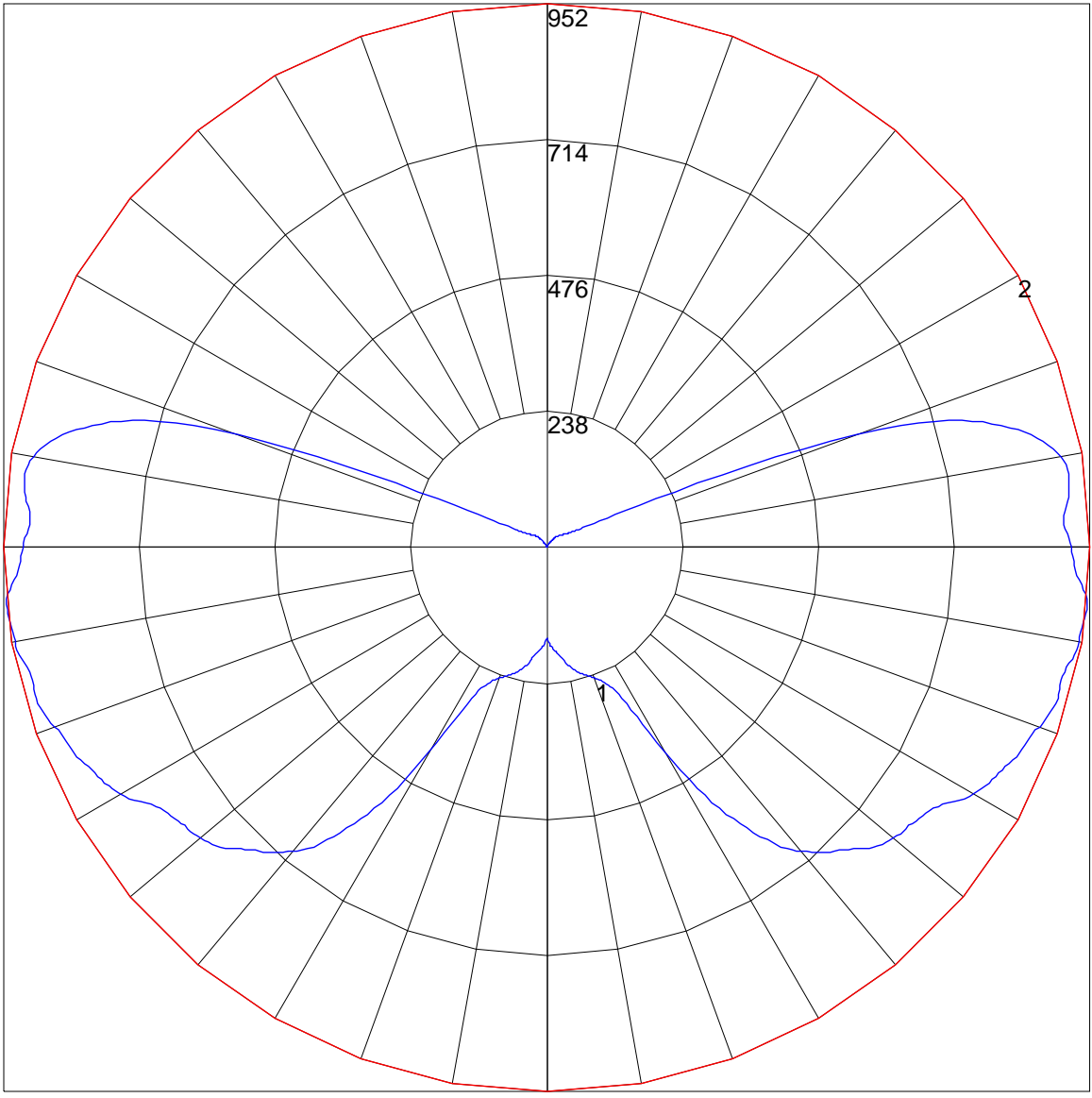
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

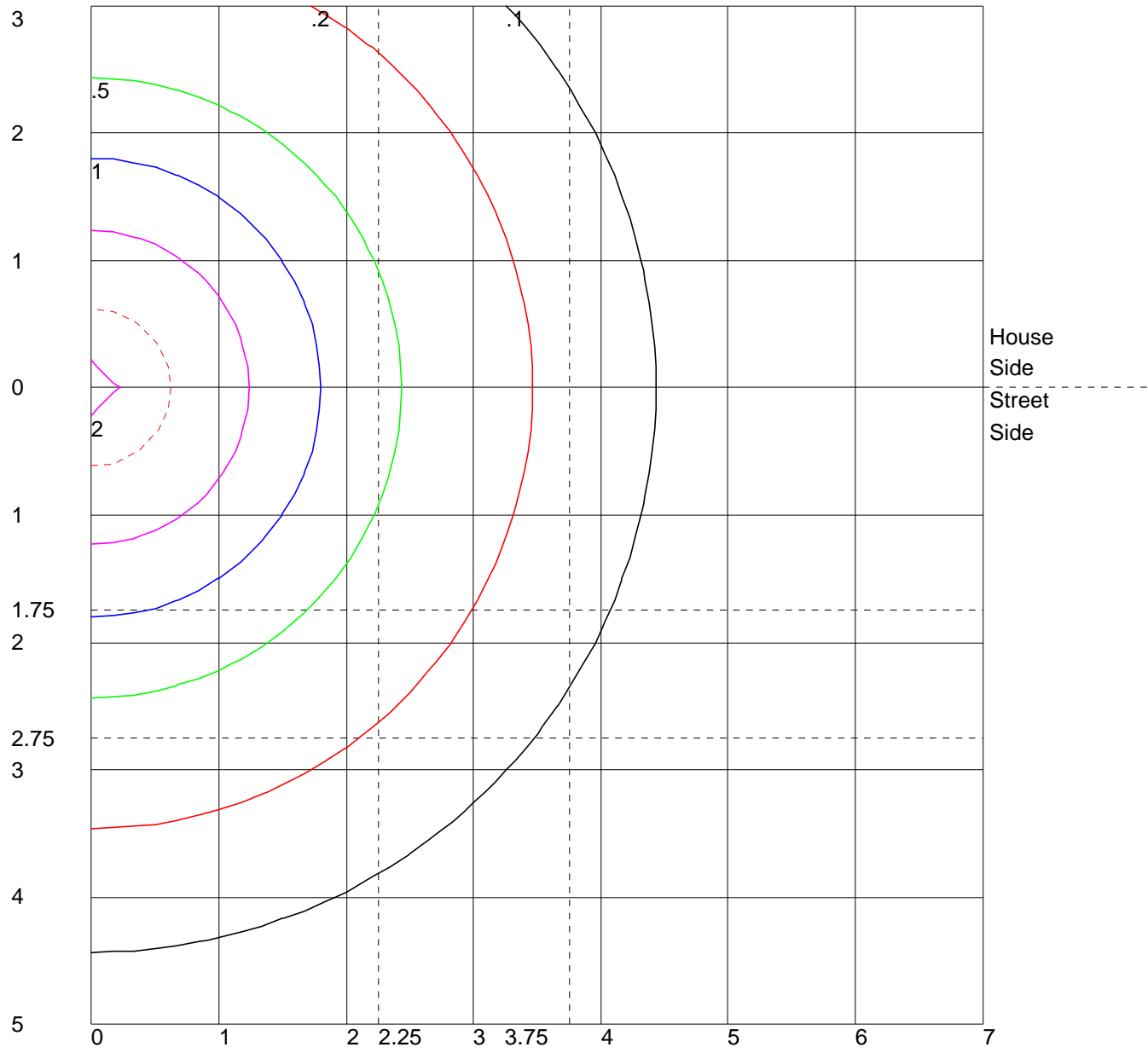
	Lumens	Percent Of Lamp
Downward Street Side	2400.5	26.7
Downward House Side	2400.5	26.7
Downward Total	4801.0	53.3
Upward Street Side	1070.0	11.9
Upward House Side	1070.0	11.9
Upward Total	2140.0	23.8
Total Flux	6941.0	77.1

POLAR GRAPH



Maximum Candela = 951.64 Located At Horizontal Angle = 0, Vertical Angle = 83.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (83.5) (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