

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : H-4120 100W MH.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
[TEST] 19989  
[MANUFAC]HI-LITE MANUFACTURING - RAILROAD  
[LUMCAT]H-4120  
[LUMINAIRE]WITH GALVANIZED INTERIOR AND CLEAR RIBBED GLASS JAR LENS  
[LAMP]ONE VENTURE 100 WATT MH LAMP  
[LAMPCAT]MH100W/U. LUMEN RATING = 9000 LMS.  
[OTHER]LAMP OPERATING AT 100 WATTS

**CHARACTERISTICS**

IES Classification	Type V
Longitudinal Classification	Very Short
Cutoff Classification	Cutoff
Total Rated Lamp Lumens	9000
Maximum Candela	2431.3
Maximum Candela Angle	0H 5V
Maximum Candela At 90 Degrees Vertical	27.3 (0.30% Lamp Lms)
Maximum Candela At 80 Degrees Vertical	860.3 (9.56% Lamp Lms)
Downward Total Efficiency	69.6%

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**CANDELA TABULATION**

**Vert.      Horizontal Angles**  
**Angles**

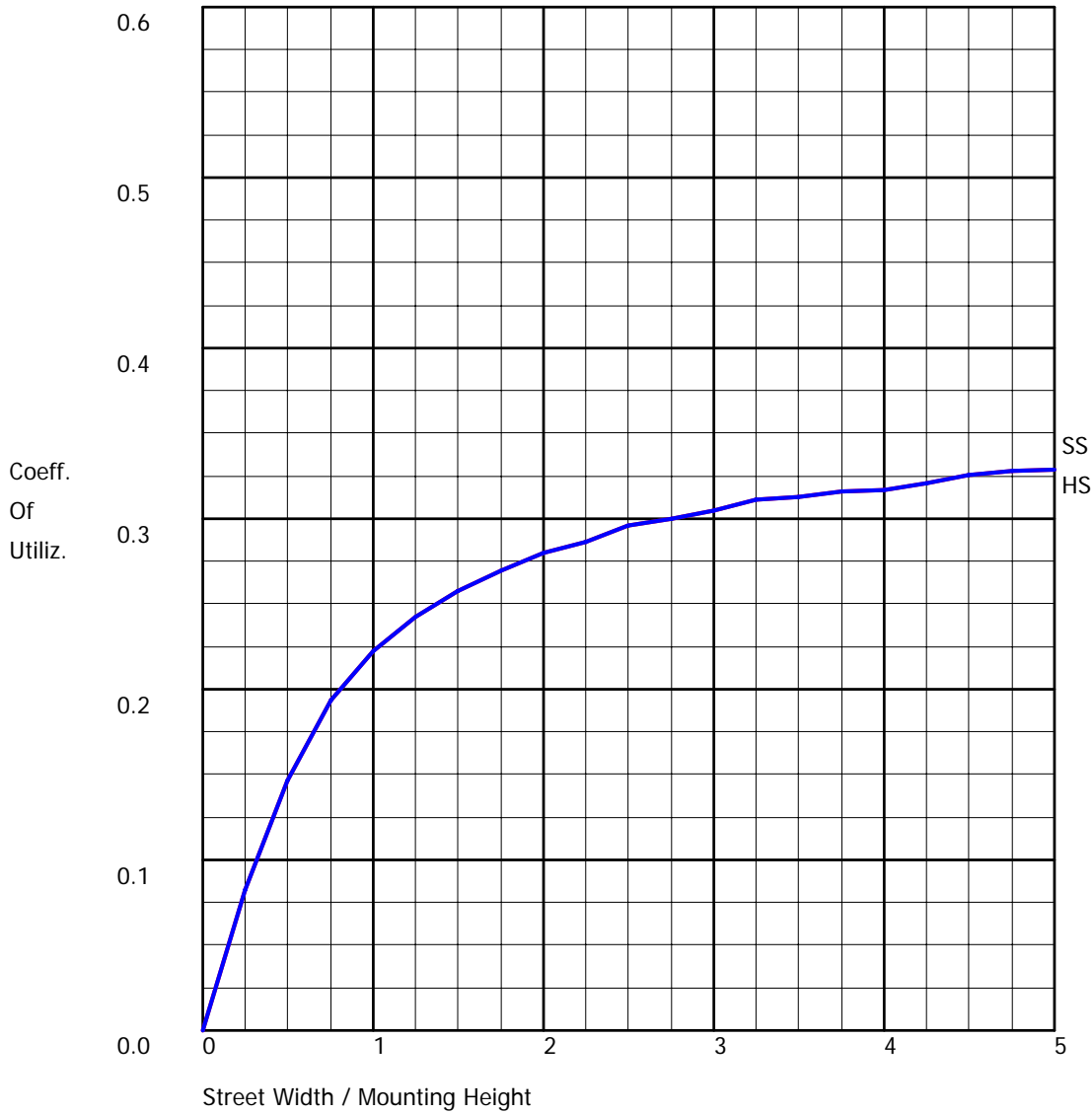
	<u>0</u>
<b>0</b>	2385.9
<b>2.5</b>	2420.7
<b>5</b>	2431.3
<b>7.5</b>	2351.1
<b>10</b>	2274.5
<b>12.5</b>	2190.7
<b>15</b>	2073.6
<b>17.5</b>	1950.9
<b>20</b>	1867.4
<b>22.5</b>	1825
<b>25</b>	1761.8
<b>27.5</b>	1671.1
<b>30</b>	1567.5
<b>32.5</b>	1454.8
<b>35</b>	1356.2
<b>37.5</b>	1270.4
<b>40</b>	1206.2
<b>42.5</b>	1164
<b>45</b>	1088.2
<b>47.5</b>	964.9
<b>50</b>	853.6
<b>52.5</b>	791.8
<b>55</b>	763.8
<b>57.5</b>	756.3
<b>60</b>	765.7
<b>62.5</b>	782.3
<b>65</b>	804.2
<b>67.5</b>	829.8
<b>70</b>	850.4
<b>72.5</b>	857.2
<b>75</b>	859.9
<b>77.5</b>	859.6
<b>80</b>	860.3
<b>82.5</b>	848.3
<b>85</b>	659.6
<b>87.5</b>	149.2
<b>90</b>	27.3
<b>92.5</b>	9.4
<b>95</b>	5.2
<b>97.5</b>	3.6
<b>100</b>	2.9
<b>102.5</b>	0.3
<b>105</b>	0
<b>107.5</b>	0
<b>110</b>	0
<b>112.5</b>	0
<b>115</b>	0
<b>117.5</b>	0
<b>120</b>	0
<b>122.5</b>	0
<b>125</b>	0
<b>127.5</b>	0
<b>130</b>	0

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CANDELA TABULATION - (Cont.)

132.5	0
135	0
137.5	0
140	0
142.5	0
145	0
147.5	0
150	0
152.5	0
155	0
157.5	0
160	0
162.5	0
165	0
167.5	0
170	0
172.5	0
175	0
177.5	0
180	0

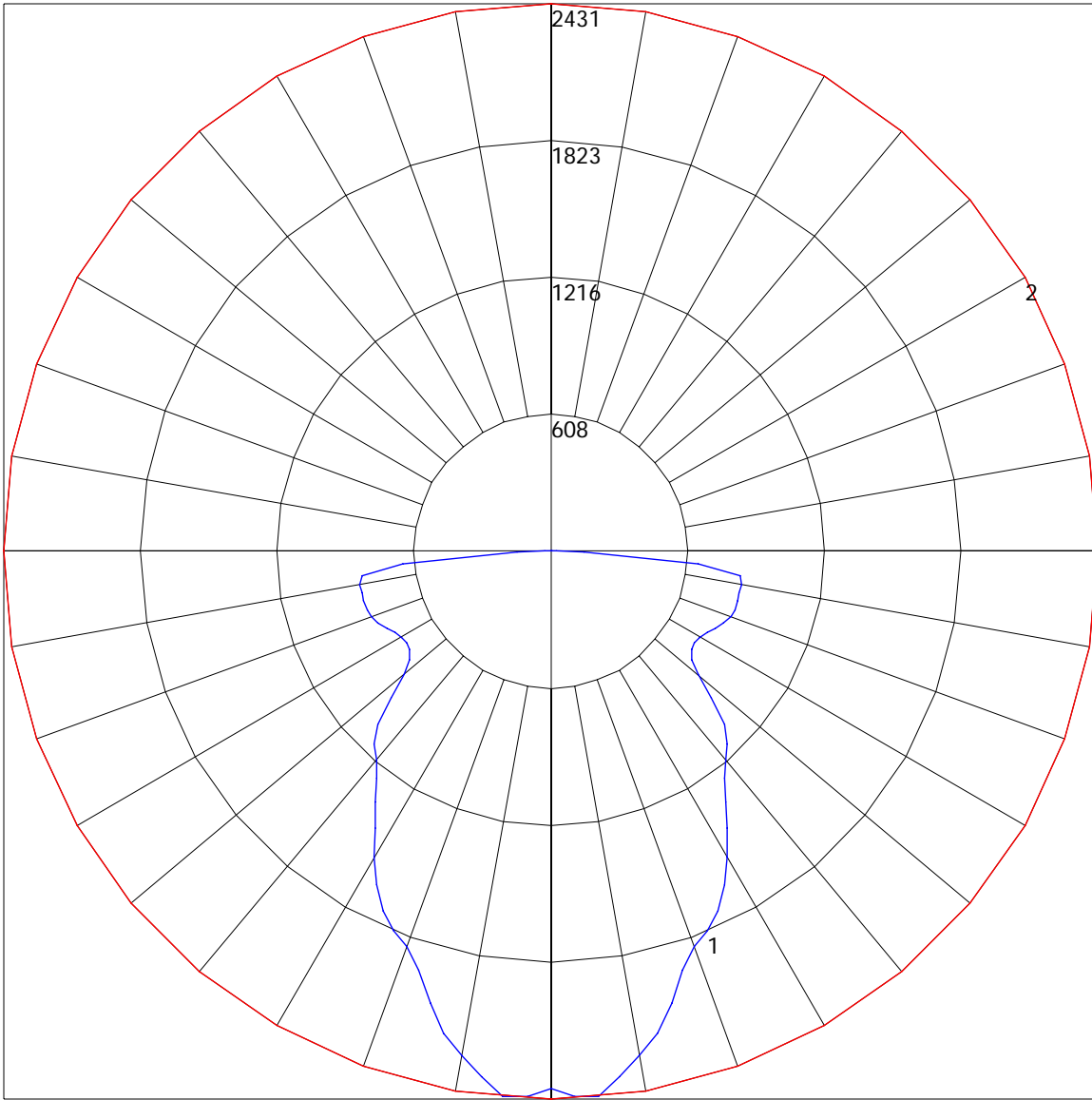
**COEFFICIENTS OF UTILIZATION**



**FLUX DISTRIBUTION**

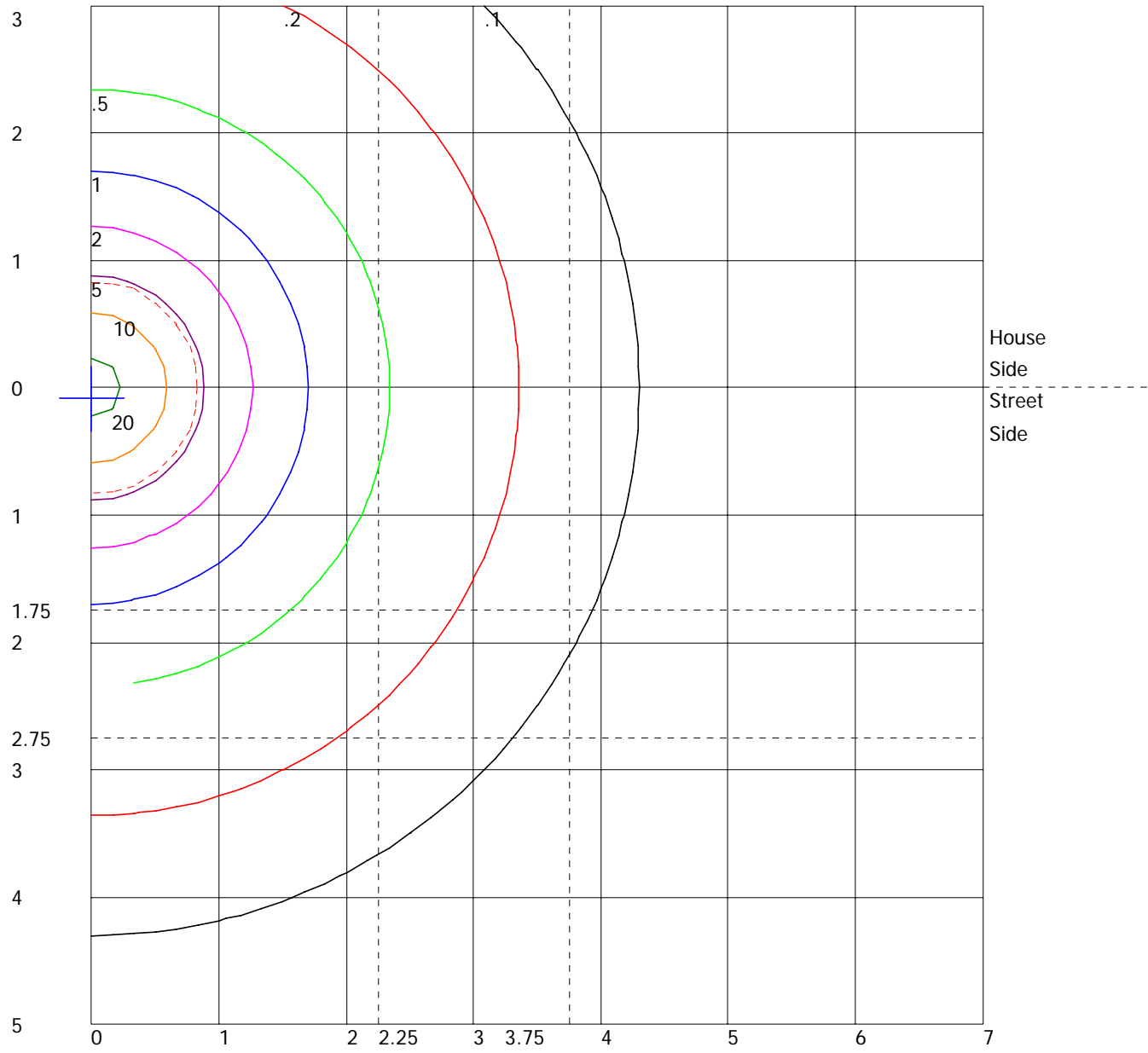
	Lumens	Percent Of Lamp
Downward Street Side	3131.0	34.8
Downward House Side	3131.0	34.8
Downward Total	6262.0	69.6
Upward Street Side	4.8	0.1
Upward House Side	4.8	0.1
Upward Total	9.6	0.1
<b>Total Flux</b>	<b>6271.6</b>	<b>69.7</b>

POLAR GRAPH



Maximum Candela = 2431.3 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (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