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**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : CNC1-175WMH.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 14072  
[TESTLAB] LUMINAIRE TESTING LABORATORY, INC.  
[ISSUEDATE] 10-20-2008  
[MANUFAC] BRANDON INDUSTRIES  
[LUMCAT] 175WMH-CNC1  
[LUMINAIRE] CAST ALUMINUM HOUSING, SPUN SEMI-SPECULAR ALUMINUM BASE,  
[MORE] CLEAR PRISMATIC PLASTIC REFRACTOR WITH SPUN SEMI-SPECULAR  
[MORE] ALUMINUM TOP REFLECTOR.  
[LAMP] ONE CLEAR VBD M152/M137 175 WATT ED28 PULSE START METAL HALIDE  
[MORE] LAMP RATED AT 16,000 LUMENS.  
[LAMPCAT] PHILIPS MS175/BU/PS

**CHARACTERISTICS**

IES Classification	Type V
Longitudinal Classification	Short
Cutoff Classification	Cutoff
Total Rated Lamp Lumens	16000
Maximum Candela	3255
Maximum Candela Angle	0H 58V
Maximum Candela At 90 Degrees Vertical	398.1 (2.49% Lamp Lms)
Maximum Candela At 80 Degrees Vertical	496.9 (3.11% Lamp Lms)
Downward Total Efficiency	48.3%

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>
	<u>0</u>
<b>0</b>	172.6
<b>0.5</b>	175.8
<b>1</b>	179.2
<b>1.5</b>	182.8
<b>2</b>	186.5
<b>2.5</b>	190.3
<b>3</b>	194.2
<b>3.5</b>	198.1
<b>4</b>	202.3
<b>4.5</b>	206.9
<b>5</b>	211.8
<b>5.5</b>	217.2
<b>6</b>	223
<b>6.5</b>	229.6
<b>7</b>	236.4
<b>7.5</b>	243.6
<b>8</b>	250.5
<b>8.5</b>	257.4
<b>9</b>	263.8
<b>9.5</b>	270.2
<b>10</b>	277.3
<b>10.5</b>	284.7
<b>11</b>	292.6
<b>11.5</b>	301
<b>12</b>	309.4
<b>12.5</b>	317.1
<b>13</b>	324.3
<b>13.5</b>	330.3
<b>14</b>	335.9
<b>14.5</b>	341.3
<b>15</b>	346.2
<b>15.5</b>	351.1
<b>16</b>	356.1
<b>16.5</b>	361.1
<b>17</b>	366.3
<b>17.5</b>	372.2
<b>18</b>	378.3
<b>18.5</b>	384.6
<b>19</b>	391.2
<b>19.5</b>	397.5
<b>20</b>	404
<b>20.5</b>	410.5
<b>21</b>	417.3
<b>21.5</b>	424.3
<b>22</b>	431.4
<b>22.5</b>	438.6
<b>23</b>	446.1
<b>23.5</b>	454.5
<b>24</b>	464.1
<b>24.5</b>	477
<b>25</b>	492.6
<b>25.5</b>	507.4
<b>26</b>	521

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>26.5</b>	535
<b>27</b>	548.8
<b>27.5</b>	562.2
<b>28</b>	576
<b>28.5</b>	588
<b>29</b>	599.9
<b>29.5</b>	612
<b>30</b>	624.7
<b>30.5</b>	638.4
<b>31</b>	652.2
<b>31.5</b>	664.2
<b>32</b>	674
<b>32.5</b>	683.3
<b>33</b>	692.6
<b>33.5</b>	702.4
<b>34</b>	712.8
<b>34.5</b>	725.1
<b>35</b>	741.3
<b>35.5</b>	761.5
<b>36</b>	783.9
<b>36.5</b>	808.5
<b>37</b>	833
<b>37.5</b>	857.9
<b>38</b>	882.5
<b>38.5</b>	906.6
<b>39</b>	928.5
<b>39.5</b>	946.9
<b>40</b>	961.7
<b>40.5</b>	977
<b>41</b>	992.5
<b>41.5</b>	1005.2
<b>42</b>	1016.3
<b>42.5</b>	1026.5
<b>43</b>	1039.6
<b>43.5</b>	1054.6
<b>44</b>	1074.8
<b>44.5</b>	1101.3
<b>45</b>	1131.3
<b>45.5</b>	1167.3
<b>46</b>	1210
<b>46.5</b>	1258.3
<b>47</b>	1309.7
<b>47.5</b>	1367.1
<b>48</b>	1426.3
<b>48.5</b>	1490.8
<b>49</b>	1562.8
<b>49.5</b>	1644.8
<b>50</b>	1733.3
<b>50.5</b>	1835.4
<b>51</b>	1950.5
<b>51.5</b>	2073.8
<b>52</b>	2206.9
<b>52.5</b>	2343.5
<b>53</b>	2480.2
<b>53.5</b>	2615.7
<b>54</b>	2741.7

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : CNC1-175WMH.IES**

**CANDELA TABULATION - (Cont.)**

<b>54.5</b>	2848.2
<b>55</b>	2944.9
<b>55.5</b>	3033.9
<b>56</b>	3112.6
<b>56.5</b>	3177
<b>57</b>	3220.4
<b>57.5</b>	3247.4
<b>58</b>	3255
<b>58.5</b>	3249.9
<b>59</b>	3233.7
<b>59.5</b>	3208.4
<b>60</b>	3174.9
<b>60.5</b>	3127.4
<b>61</b>	3059.1
<b>61.5</b>	2969.3
<b>62</b>	2865.8
<b>62.5</b>	2750.9
<b>63</b>	2631
<b>63.5</b>	2507.3
<b>64</b>	2375.6
<b>64.5</b>	2245.5
<b>65</b>	2125.4
<b>65.5</b>	2012.7
<b>66</b>	1905.8
<b>66.5</b>	1807.7
<b>67</b>	1718.9
<b>67.5</b>	1646.5
<b>68</b>	1576.7
<b>68.5</b>	1507.1
<b>69</b>	1442.4
<b>69.5</b>	1376.3
<b>70</b>	1306.5
<b>70.5</b>	1232.8
<b>71</b>	1157.7
<b>71.5</b>	1080.1
<b>72</b>	1008.3
<b>72.5</b>	939.6
<b>73</b>	875.6
<b>73.5</b>	820.2
<b>74</b>	771.7
<b>74.5</b>	729.6
<b>75</b>	692.5
<b>75.5</b>	660.7
<b>76</b>	632
<b>76.5</b>	607.1
<b>77</b>	585
<b>77.5</b>	565.6
<b>78</b>	548.8
<b>78.5</b>	533.8
<b>79</b>	520.1
<b>79.5</b>	507.9
<b>80</b>	496.9
<b>80.5</b>	486.5
<b>81</b>	477.3
<b>81.5</b>	468.8
<b>82</b>	461.3

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	454.9
<b>83</b>	449.2
<b>83.5</b>	444.4
<b>84</b>	440.4
<b>84.5</b>	437.1
<b>85</b>	433.9
<b>85.5</b>	430.7
<b>86</b>	427.7
<b>86.5</b>	424.4
<b>87</b>	420.6
<b>87.5</b>	416.4
<b>88</b>	412.1
<b>88.5</b>	407.9
<b>89</b>	404
<b>89.5</b>	400.9
<b>90</b>	398.1
<b>90.5</b>	396.3
<b>91</b>	395.2
<b>91.5</b>	394.7
<b>92</b>	394.2
<b>92.5</b>	394.2
<b>93</b>	394.1
<b>93.5</b>	393.3
<b>94</b>	391.6
<b>94.5</b>	388.8
<b>95</b>	385
<b>95.5</b>	379.5
<b>96</b>	372.4
<b>96.5</b>	364.2
<b>97</b>	355.3
<b>97.5</b>	346.4
<b>98</b>	337.3
<b>98.5</b>	328.7
<b>99</b>	321.2
<b>99.5</b>	315
<b>100</b>	309
<b>100.5</b>	304.1
<b>101</b>	300
<b>101.5</b>	296.5
<b>102</b>	293.3
<b>102.5</b>	290.1
<b>103</b>	287.3
<b>103.5</b>	284.6
<b>104</b>	282.5
<b>104.5</b>	280.8
<b>105</b>	279.5
<b>105.5</b>	278.5
<b>106</b>	277.8
<b>106.5</b>	277.8
<b>107</b>	277.9
<b>107.5</b>	278.5
<b>108</b>	279.4
<b>108.5</b>	280.7
<b>109</b>	282.3
<b>109.5</b>	284.1
<b>110</b>	286

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>110.5</b>	287.6
<b>111</b>	289.3
<b>111.5</b>	290.4
<b>112</b>	291.3
<b>112.5</b>	291.5
<b>113</b>	291.5
<b>113.5</b>	290.9
<b>114</b>	289.9
<b>114.5</b>	288.6
<b>115</b>	287.2
<b>115.5</b>	285.3
<b>116</b>	283.5
<b>116.5</b>	281.7
<b>117</b>	279.3
<b>117.5</b>	276.9
<b>118</b>	274.4
<b>118.5</b>	272.5
<b>119</b>	270.3
<b>119.5</b>	268.4
<b>120</b>	266.3
<b>120.5</b>	264.4
<b>121</b>	262.8
<b>121.5</b>	260.7
<b>122</b>	258.2
<b>122.5</b>	255.4
<b>123</b>	252.7
<b>123.5</b>	249.9
<b>124</b>	246.5
<b>124.5</b>	242.7
<b>125</b>	238.6
<b>125.5</b>	234.3
<b>126</b>	229.9
<b>126.5</b>	225
<b>127</b>	219.9
<b>127.5</b>	214.6
<b>128</b>	209.7
<b>128.5</b>	204.6
<b>129</b>	199.8
<b>129.5</b>	195.1
<b>130</b>	190.9
<b>130.5</b>	186.8
<b>131</b>	183.3
<b>131.5</b>	179.9
<b>132</b>	176.9
<b>132.5</b>	174.4
<b>133</b>	172
<b>133.5</b>	170
<b>134</b>	168
<b>134.5</b>	166.1
<b>135</b>	164.4
<b>135.5</b>	162.7
<b>136</b>	160.7
<b>136.5</b>	158.5
<b>137</b>	156.3
<b>137.5</b>	153.8
<b>138</b>	151.1

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : CNC1-175WMH.IES**

**CANDELA TABULATION - (Cont.)**

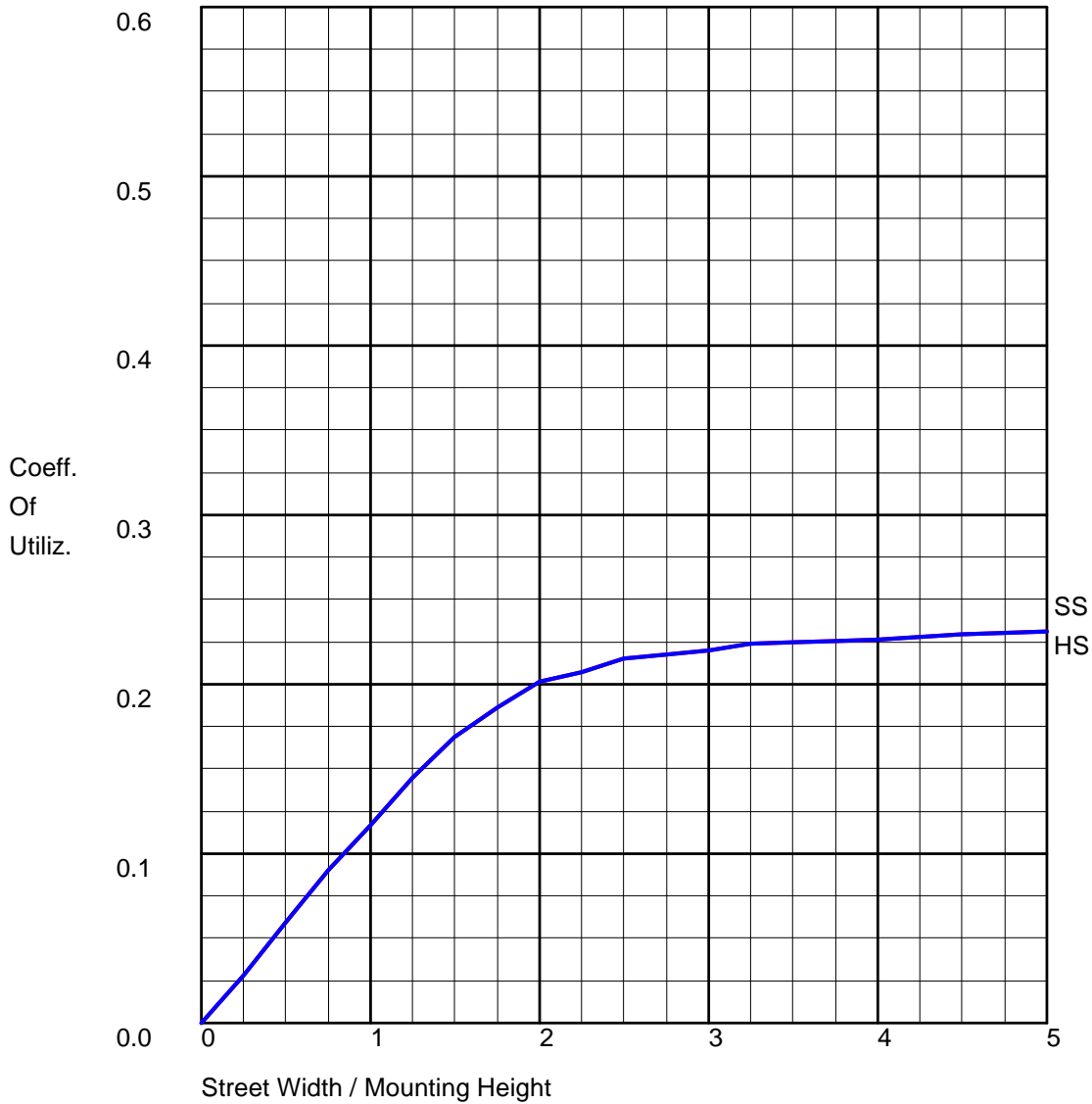
<b>138.5</b>	148.1
<b>139</b>	145
<b>139.5</b>	141.8
<b>140</b>	138.5
<b>140.5</b>	135.2
<b>141</b>	131.9
<b>141.5</b>	128.5
<b>142</b>	125.3
<b>142.5</b>	121.9
<b>143</b>	118.6
<b>143.5</b>	115.2
<b>144</b>	112
<b>144.5</b>	108.6
<b>145</b>	105.2
<b>145.5</b>	102
<b>146</b>	98.7
<b>146.5</b>	95.5
<b>147</b>	92.4
<b>147.5</b>	89.5
<b>148</b>	86.6
<b>148.5</b>	83.9
<b>149</b>	81.2
<b>149.5</b>	78.7
<b>150</b>	76.1
<b>150.5</b>	73.7
<b>151</b>	71.3
<b>151.5</b>	69.2
<b>152</b>	67
<b>152.5</b>	64.8
<b>153</b>	62.8
<b>153.5</b>	60.7
<b>154</b>	58.6
<b>154.5</b>	56.7
<b>155</b>	54.8
<b>155.5</b>	52.9
<b>156</b>	51.1
<b>156.5</b>	49.3
<b>157</b>	47.5
<b>157.5</b>	45.8
<b>158</b>	44.2
<b>158.5</b>	42.5
<b>159</b>	40.8
<b>159.5</b>	39.3
<b>160</b>	37.5
<b>160.5</b>	35.7
<b>161</b>	33.9
<b>161.5</b>	32
<b>162</b>	30
<b>162.5</b>	27.9
<b>163</b>	25.7
<b>163.5</b>	23.3
<b>164</b>	20.9
<b>164.5</b>	18.4
<b>165</b>	16
<b>165.5</b>	13.7
<b>166</b>	11.3

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : CNC1-175WMH.IES**

**CANDELA TABULATION - (Cont.)**

166.5	9.1
167	7.1
167.5	5.2
168	3.7
168.5	2.5
169	1.5
169.5	0.8
170	0.3
170.5	0.1
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

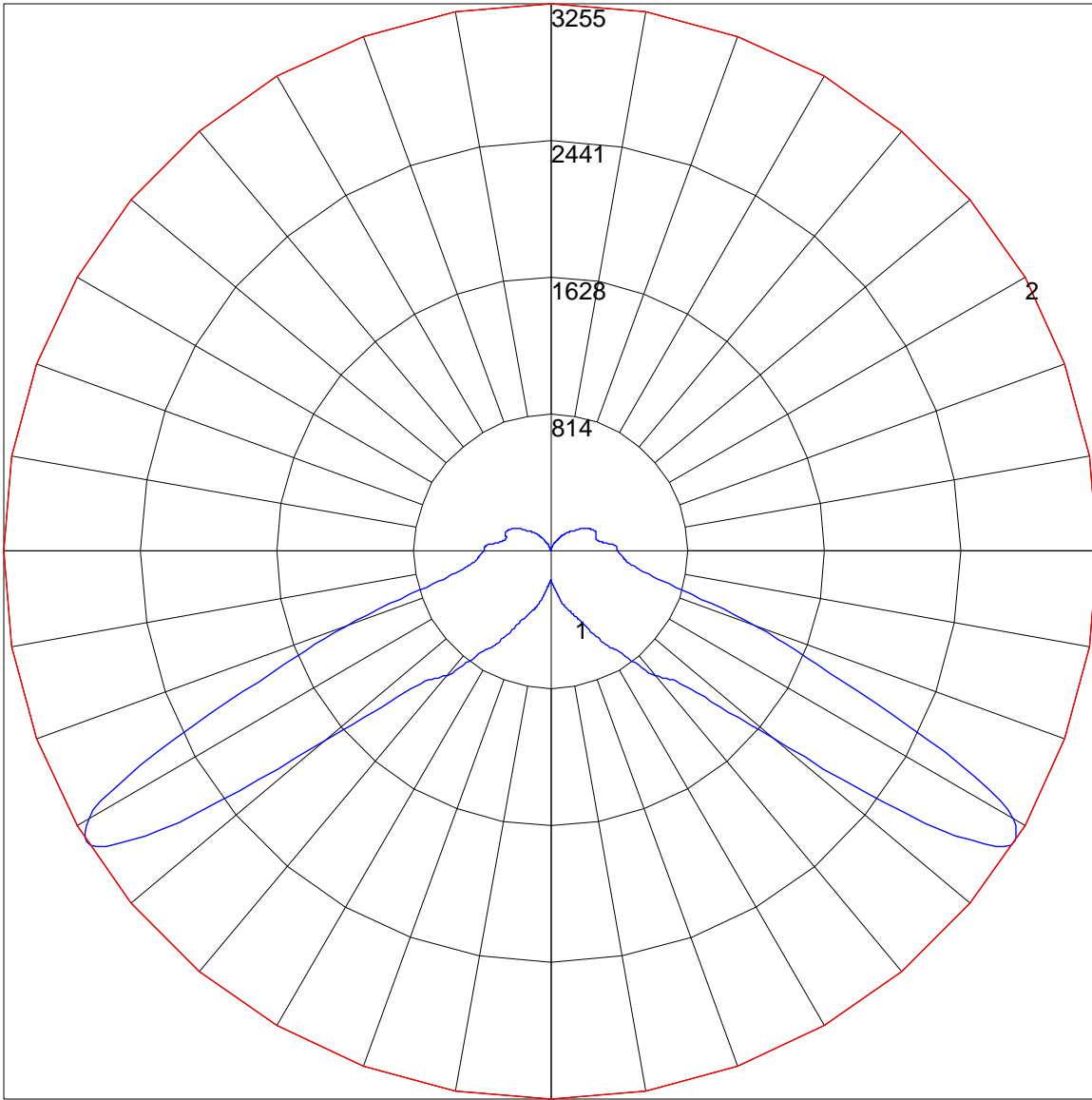
**COEFFICIENTS OF UTILIZATION**



**FLUX DISTRIBUTION**

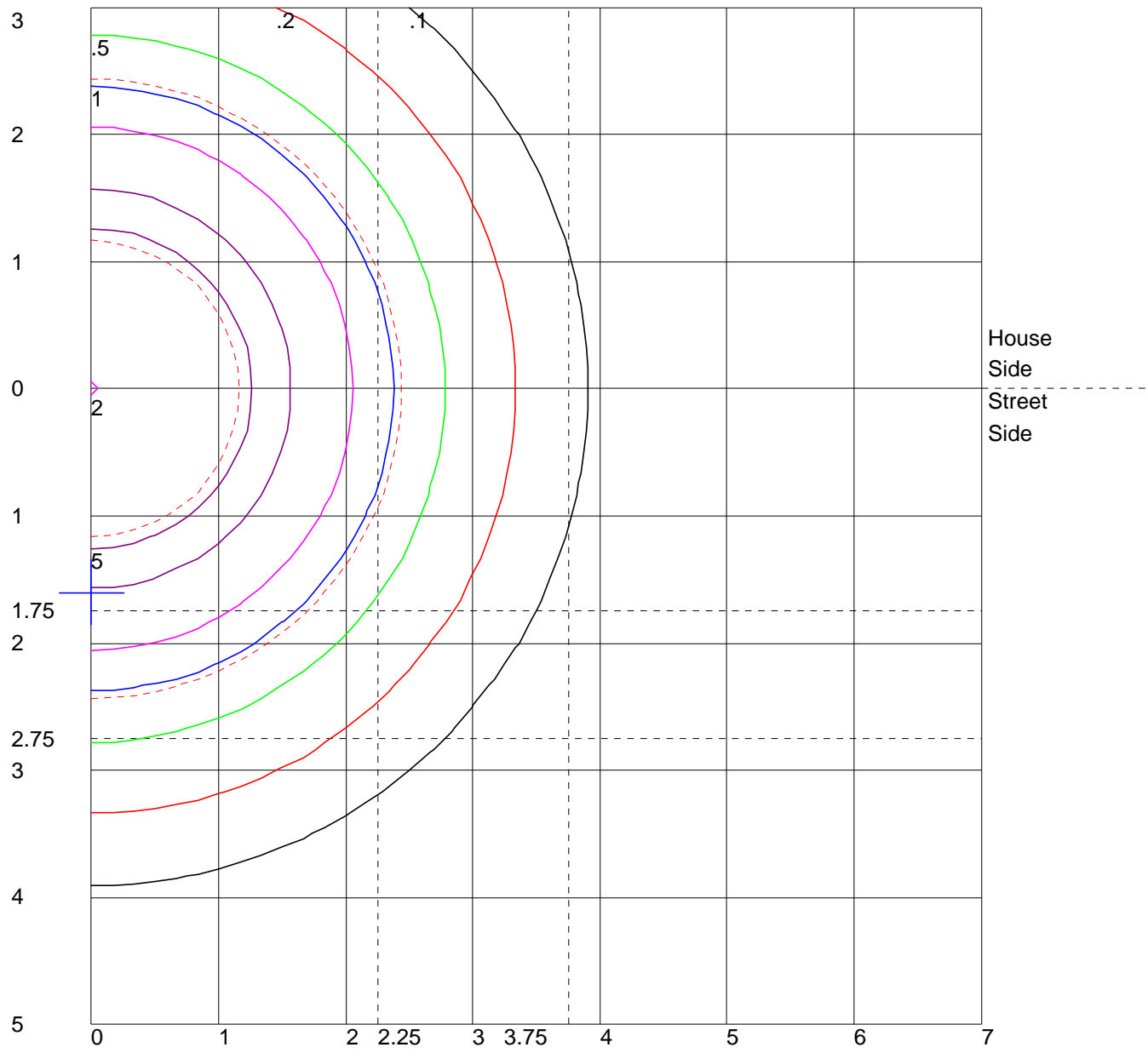
	Lumens	Percent Of Lamp
Downward Street Side	3867.1	24.2
Downward House Side	3867.1	24.2
Downward Total	7734.2	48.3
Upward Street Side	712.8	4.5
Upward House Side	712.8	4.5
Upward Total	1425.6	8.9
<b>Total Flux</b>	<b>9159.8</b>	<b>57.2</b>

POLAR GRAPH



Maximum Candela = 3255 Located At Horizontal Angle = 0, Vertical Angle = 58  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (58) (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