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## IES ROAD REPORT

PHOTOMETRIC FILENAME : CNC1-250WHPS.IES

## DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 14074

[TESTLAB] LUMINAIRE TESTING LABORATORY, INC.

[ISSUEDATE] 10-20-2008

[MANUFAC] BRANDON INDUSTRIES

[LUMCAT] 250WHPS-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 S50 150 WATT ET18 HPS LAMP RATED AT 27,500

[MORE] LUMENS.

[LAMPCAT] PHILIPS C250S50/ALTO

## CHARACTERISTICS

IES Classification	Type V
Longitudinal Classification	Short
Cutoff Classification	Semi-Cutoff
Total Rated Lamp Lumens	27500
Maximum Candela	4058.9
Maximum Candela Angle	0H 58.5V
Maximum Candela At 90 Degrees Vertical	711.6 (2.59% Lamp Lms)
Maximum Candela At 80 Degrees Vertical	812.8 (2.96% Lamp Lms)
Downward Total Efficiency	40.9%

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**CANDELA TABULATION**

**Vert. Horizontal Angles**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>
	<u>0</u>
<b>0</b>	342.6
<b>0.5</b>	349.8
<b>1</b>	356.9
<b>1.5</b>	364.1
<b>2</b>	371.9
<b>2.5</b>	379.8
<b>3</b>	387.6
<b>3.5</b>	395.6
<b>4</b>	403.9
<b>4.5</b>	412.8
<b>5</b>	422.5
<b>5.5</b>	432.9
<b>6</b>	444.5
<b>6.5</b>	457.4
<b>7</b>	471.7
<b>7.5</b>	485.9
<b>8</b>	500.3
<b>8.5</b>	514.1
<b>9</b>	526.9
<b>9.5</b>	539.1
<b>10</b>	552.3
<b>10.5</b>	566.5
<b>11</b>	582.5
<b>11.5</b>	601
<b>12</b>	619
<b>12.5</b>	636.5
<b>13</b>	651.6
<b>13.5</b>	664.5
<b>14</b>	675.3
<b>14.5</b>	685.7
<b>15</b>	694.6
<b>15.5</b>	703.4
<b>16</b>	711.6
<b>16.5</b>	719.1
<b>17</b>	726.6
<b>17.5</b>	734.6
<b>18</b>	743
<b>18.5</b>	751.4
<b>19</b>	760.6
<b>19.5</b>	769.8
<b>20</b>	779.1
<b>20.5</b>	788.5
<b>21</b>	798.2
<b>21.5</b>	807.5
<b>22</b>	817.8
<b>22.5</b>	827.9
<b>23</b>	839.5
<b>23.5</b>	852.6
<b>24</b>	867.2
<b>24.5</b>	882.8
<b>25</b>	899.7
<b>25.5</b>	915.6
<b>26</b>	930.1

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**CANDELA TABULATION - (Cont.)**

<b>26.5</b>	945
<b>27</b>	960.6
<b>27.5</b>	978.1
<b>28</b>	996.3
<b>28.5</b>	1016.6
<b>29</b>	1037.5
<b>29.5</b>	1060.3
<b>30</b>	1082.4
<b>30.5</b>	1105.4
<b>31</b>	1128.7
<b>31.5</b>	1148.9
<b>32</b>	1167.3
<b>32.5</b>	1185
<b>33</b>	1203.3
<b>33.5</b>	1223.3
<b>34</b>	1247
<b>34.5</b>	1273.7
<b>35</b>	1302.8
<b>35.5</b>	1333.8
<b>36</b>	1366.8
<b>36.5</b>	1400.3
<b>37</b>	1434.5
<b>37.5</b>	1467.4
<b>38</b>	1499.5
<b>38.5</b>	1532.4
<b>39</b>	1566
<b>39.5</b>	1598.8
<b>40</b>	1633.7
<b>40.5</b>	1669.9
<b>41</b>	1709.4
<b>41.5</b>	1753.8
<b>42</b>	1802.7
<b>42.5</b>	1857.4
<b>43</b>	1917.1
<b>43.5</b>	1980.7
<b>44</b>	2047.1
<b>44.5</b>	2120.1
<b>45</b>	2196.7
<b>45.5</b>	2279.4
<b>46</b>	2368.4
<b>46.5</b>	2460.3
<b>47</b>	2549.2
<b>47.5</b>	2639.4
<b>48</b>	2724.4
<b>48.5</b>	2805.4
<b>49</b>	2887.4
<b>49.5</b>	2965.1
<b>50</b>	3041.7
<b>50.5</b>	3116
<b>51</b>	3189.4
<b>51.5</b>	3259.2
<b>52</b>	3327.7
<b>52.5</b>	3395.6
<b>53</b>	3465.8
<b>53.5</b>	3538.8
<b>54</b>	3615

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

<b>54.5</b>	3692.6
<b>55</b>	3769.2
<b>55.5</b>	3841.3
<b>56</b>	3906.8
<b>56.5</b>	3963.1
<b>57</b>	4007.1
<b>57.5</b>	4038.1
<b>58</b>	4057.3
<b>58.5</b>	4058.9
<b>59</b>	4040.7
<b>59.5</b>	4000.9
<b>60</b>	3939.3
<b>60.5</b>	3858.2
<b>61</b>	3759.3
<b>61.5</b>	3649
<b>62</b>	3528
<b>62.5</b>	3396.1
<b>63</b>	3253.6
<b>63.5</b>	3106
<b>64</b>	2953.2
<b>64.5</b>	2804.1
<b>65</b>	2662.8
<b>65.5</b>	2524.6
<b>66</b>	2400.4
<b>66.5</b>	2283.8
<b>67</b>	2171.1
<b>67.5</b>	2065.2
<b>68</b>	1965.3
<b>68.5</b>	1864.9
<b>69</b>	1774.8
<b>69.5</b>	1691.9
<b>70</b>	1612.5
<b>70.5</b>	1536.8
<b>71</b>	1464.2
<b>71.5</b>	1393.4
<b>72</b>	1326.5
<b>72.5</b>	1265
<b>73</b>	1207.8
<b>73.5</b>	1157.1
<b>74</b>	1111
<b>74.5</b>	1069.3
<b>75</b>	1032.3
<b>75.5</b>	999.8
<b>76</b>	970.4
<b>76.5</b>	943.7
<b>77</b>	919.2
<b>77.5</b>	897
<b>78</b>	877
<b>78.5</b>	859
<b>79</b>	841.7
<b>79.5</b>	826.5
<b>80</b>	812.8
<b>80.5</b>	800.8
<b>81</b>	790.1
<b>81.5</b>	780.7
<b>82</b>	772.6

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

<b>82.5</b>	765.5
<b>83</b>	759.3
<b>83.5</b>	753.7
<b>84</b>	749.5
<b>84.5</b>	746.4
<b>85</b>	743.8
<b>85.5</b>	741.6
<b>86</b>	739.8
<b>86.5</b>	738.2
<b>87</b>	736.1
<b>87.5</b>	733.3
<b>88</b>	729.9
<b>88.5</b>	726
<b>89</b>	721.6
<b>89.5</b>	716.7
<b>90</b>	711.6
<b>90.5</b>	705.7
<b>91</b>	699
<b>91.5</b>	691.6
<b>92</b>	684.2
<b>92.5</b>	676
<b>93</b>	667.5
<b>93.5</b>	658.8
<b>94</b>	649.5
<b>94.5</b>	640.3
<b>95</b>	630.6
<b>95.5</b>	620.9
<b>96</b>	611
<b>96.5</b>	601.4
<b>97</b>	591.3
<b>97.5</b>	581.4
<b>98</b>	571
<b>98.5</b>	560.4
<b>99</b>	550.4
<b>99.5</b>	541.2
<b>100</b>	532.6
<b>100.5</b>	525.1
<b>101</b>	518.8
<b>101.5</b>	513.5
<b>102</b>	509
<b>102.5</b>	505.1
<b>103</b>	501.7
<b>103.5</b>	498.7
<b>104</b>	496.3
<b>104.5</b>	494.7
<b>105</b>	493.3
<b>105.5</b>	492.6
<b>106</b>	492.3
<b>106.5</b>	492.7
<b>107</b>	493.6
<b>107.5</b>	494.9
<b>108</b>	497
<b>108.5</b>	499.4
<b>109</b>	502.5
<b>109.5</b>	505.9
<b>110</b>	509.5

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

<b>110.5</b>	512.7
<b>111</b>	515.5
<b>111.5</b>	518.3
<b>112</b>	520.4
<b>112.5</b>	522.4
<b>113</b>	524.1
<b>113.5</b>	525.8
<b>114</b>	526.8
<b>114.5</b>	527.8
<b>115</b>	528.3
<b>115.5</b>	528.5
<b>116</b>	528.3
<b>116.5</b>	527.6
<b>117</b>	526.8
<b>117.5</b>	525.2
<b>118</b>	523.3
<b>118.5</b>	520.9
<b>119</b>	518.3
<b>119.5</b>	515.8
<b>120</b>	512.7
<b>120.5</b>	509.3
<b>121</b>	505.7
<b>121.5</b>	501.3
<b>122</b>	496.2
<b>122.5</b>	490.8
<b>123</b>	485
<b>123.5</b>	478.8
<b>124</b>	472.2
<b>124.5</b>	465.5
<b>125</b>	458.3
<b>125.5</b>	450.7
<b>126</b>	442.9
<b>126.5</b>	435.2
<b>127</b>	427.1
<b>127.5</b>	419.5
<b>128</b>	411.9
<b>128.5</b>	404.4
<b>129</b>	397
<b>129.5</b>	389.9
<b>130</b>	382.9
<b>130.5</b>	376.5
<b>131</b>	370.3
<b>131.5</b>	364.4
<b>132</b>	358.6
<b>132.5</b>	353.1
<b>133</b>	347.7
<b>133.5</b>	342.2
<b>134</b>	336.9
<b>134.5</b>	331.7
<b>135</b>	326.6
<b>135.5</b>	321.3
<b>136</b>	316
<b>136.5</b>	310.2
<b>137</b>	304.5
<b>137.5</b>	298.4
<b>138</b>	292.1

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

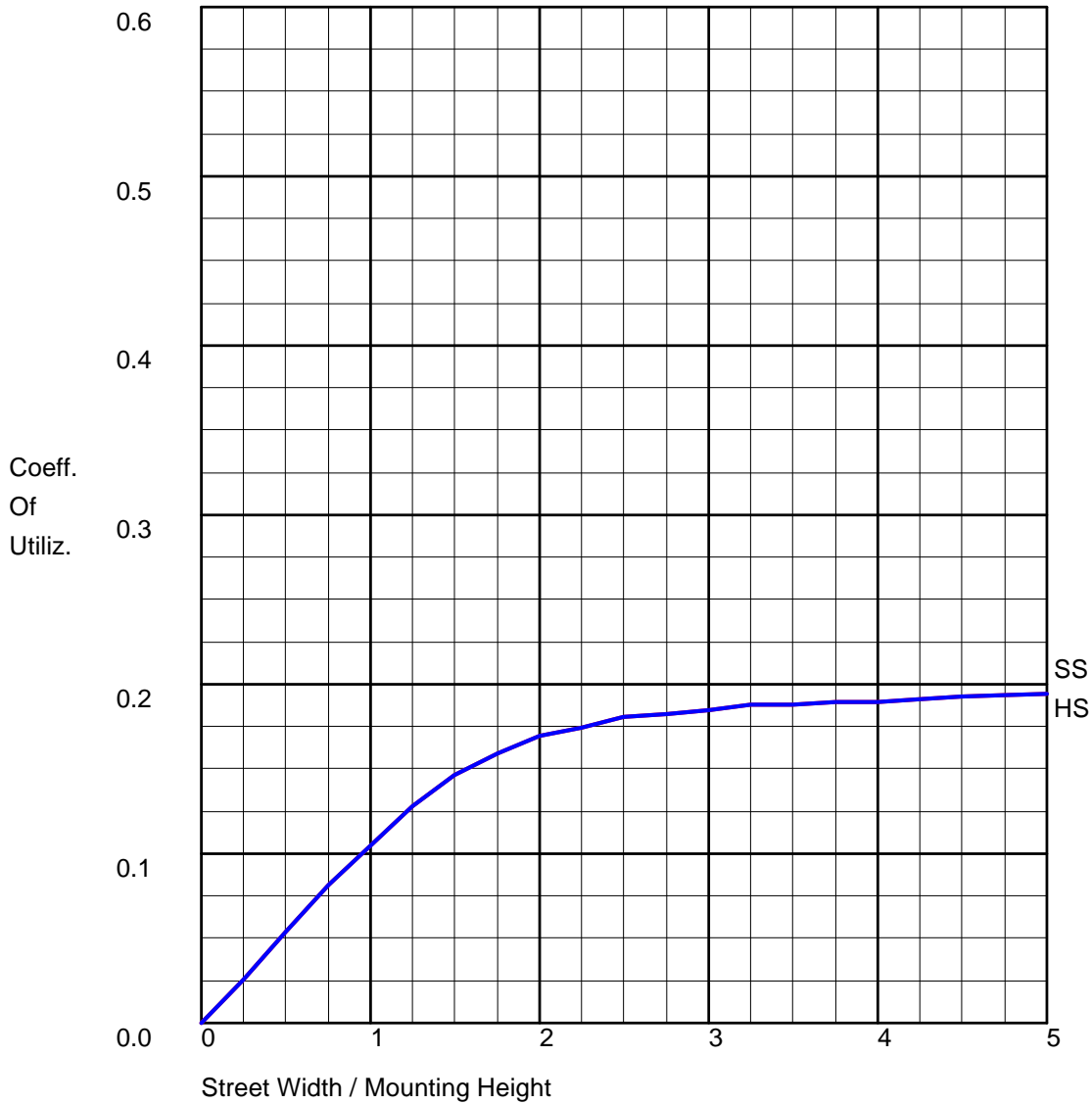
<b>138.5</b>	285.4
<b>139</b>	278.6
<b>139.5</b>	271.8
<b>140</b>	264.8
<b>140.5</b>	257.9
<b>141</b>	250.9
<b>141.5</b>	244.1
<b>142</b>	237.3
<b>142.5</b>	230.8
<b>143</b>	224.1
<b>143.5</b>	217.6
<b>144</b>	211
<b>144.5</b>	204.6
<b>145</b>	198.1
<b>145.5</b>	191.8
<b>146</b>	185.6
<b>146.5</b>	179.6
<b>147</b>	173.9
<b>147.5</b>	168.4
<b>148</b>	163.1
<b>148.5</b>	158
<b>149</b>	153.3
<b>149.5</b>	148.5
<b>150</b>	144.1
<b>150.5</b>	139.8
<b>151</b>	135.6
<b>151.5</b>	131.6
<b>152</b>	127.8
<b>152.5</b>	124.1
<b>153</b>	120.5
<b>153.5</b>	117.1
<b>154</b>	113.6
<b>154.5</b>	110.3
<b>155</b>	107.2
<b>155.5</b>	104
<b>156</b>	101
<b>156.5</b>	98
<b>157</b>	95
<b>157.5</b>	92
<b>158</b>	89.1
<b>158.5</b>	86.1
<b>159</b>	83.2
<b>159.5</b>	80.2
<b>160</b>	77
<b>160.5</b>	73.6
<b>161</b>	69.9
<b>161.5</b>	66.1
<b>162</b>	62.1
<b>162.5</b>	57.8
<b>163</b>	53.2
<b>163.5</b>	48.5
<b>164</b>	43.8
<b>164.5</b>	38.9
<b>165</b>	34.1
<b>165.5</b>	29.4
<b>166</b>	24.9

IES ROAD REPORT  
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CANDELA TABULATION - (Cont.)

166.5	20.5
167	16.4
167.5	12.3
168	9
168.5	6.4
169	4.1
169.5	2.2
170	0.9
170.5	0.2
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

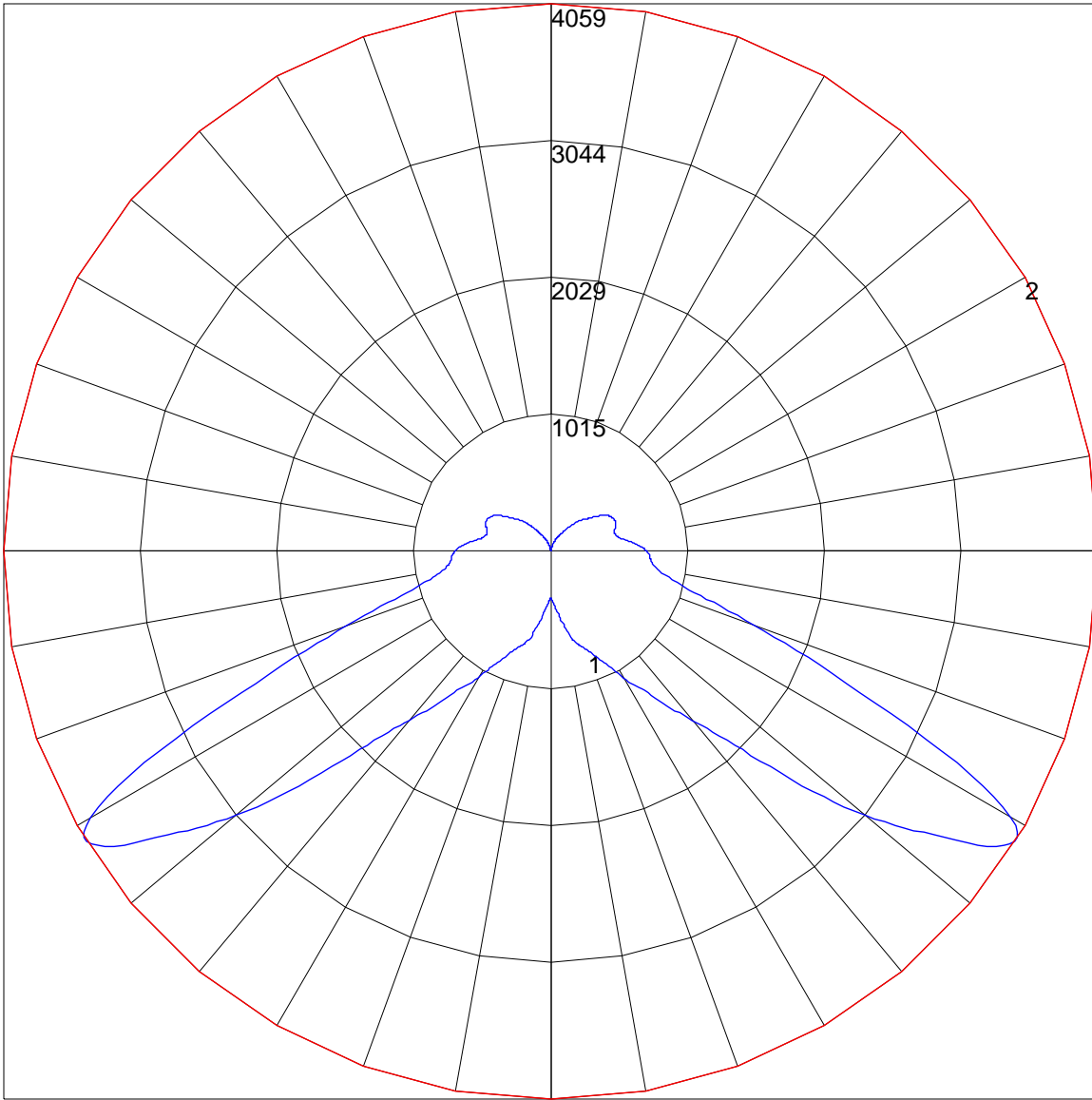
**COEFFICIENTS OF UTILIZATION**



**FLUX DISTRIBUTION**

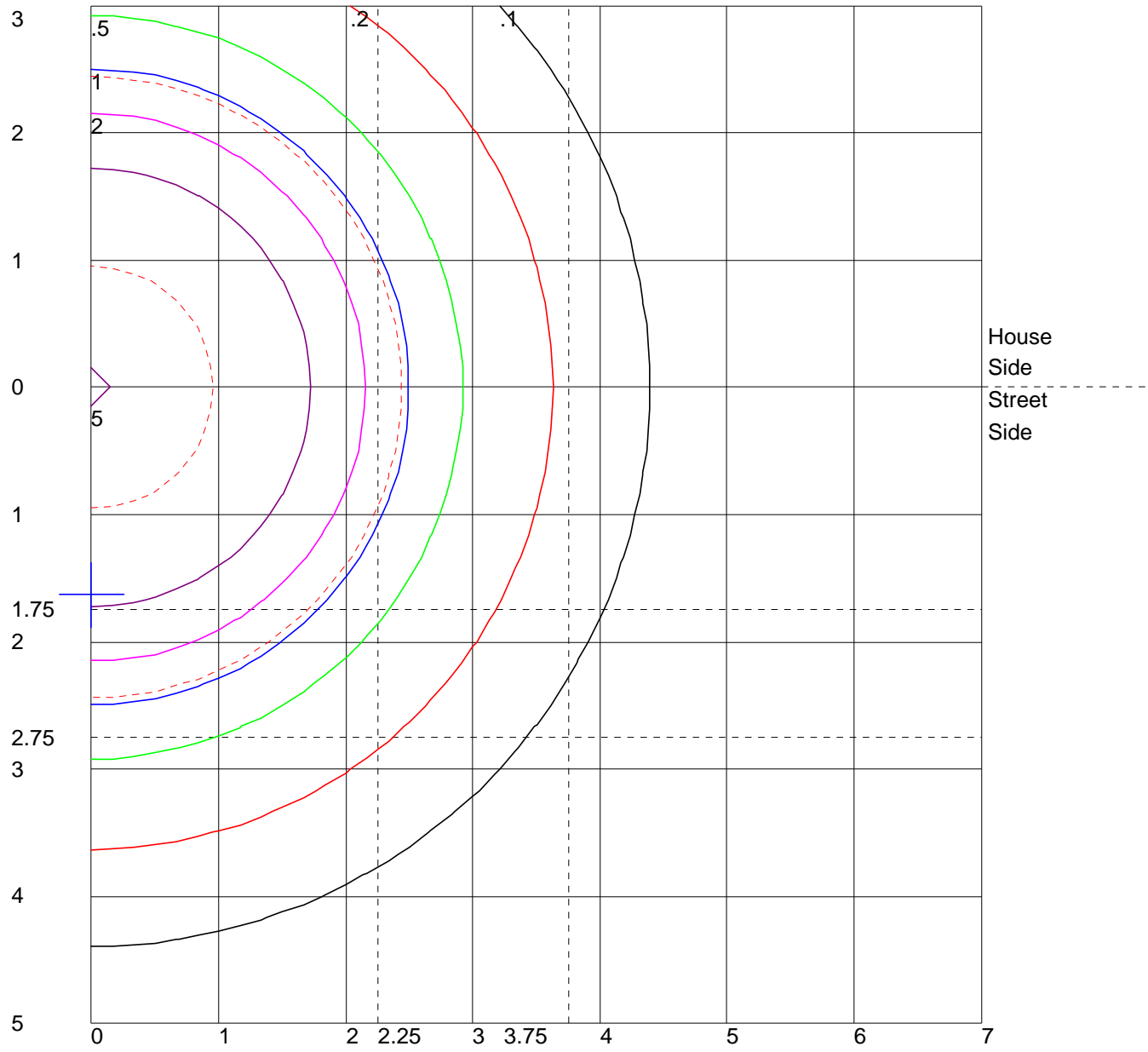
	Lumens	Percent Of Lamp
Downward Street Side	5625.1	20.5
Downward House Side	5625.1	20.5
Downward Total	11250.2	40.9
Upward Street Side	1293.7	4.7
Upward House Side	1293.7	4.7
Upward Total	2587.4	9.4
<b>Total Flux</b>	<b>13837.6</b>	<b>50.3</b>

POLAR GRAPH



Maximum Candela = 4058.9 Located At Horizontal Angle = 0, Vertical Angle = 58.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (58.5) (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