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**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : CNC1-100WHPS.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 14070  
[TESTLAB] LUMINAIRE TESTING LABORATORY, INC.  
[ISSUEDATE] 10-31-2008  
[MANUFAC] BRANDON INDUSTRIES  
[LUMCAT] 100WHPS-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 S54 100 WATT B17 HPS LAMP RATED AT 9500 LUMENS  
[LAMPCAT] PHILIPS CS100S54/M

**CHARACTERISTICS**

IES Classification	Type V
Longitudinal Classification	Long
Cutoff Classification	Non-Cutoff
Total Rated Lamp Lumens	9500
Maximum Candela	2978.7
Maximum Candela Angle	0H 77V
Maximum Candela At 90 Degrees Vertical	279.3 (2.94% Lamp Lms)
Maximum Candela At 80 Degrees Vertical	2549.1 (26.83% Lamp Lms)
Downward Total Efficiency	59.3%

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>
	<u>0</u>
<b>0</b>	76.4
<b>0.5</b>	77.9
<b>1</b>	79.2
<b>1.5</b>	80.6
<b>2</b>	82.1
<b>2.5</b>	83.6
<b>3</b>	85.2
<b>3.5</b>	86.9
<b>4</b>	88.5
<b>4.5</b>	90.1
<b>5</b>	91.9
<b>5.5</b>	94.1
<b>6</b>	96.4
<b>6.5</b>	98.5
<b>7</b>	100.9
<b>7.5</b>	103.5
<b>8</b>	106.3
<b>8.5</b>	109
<b>9</b>	111.6
<b>9.5</b>	114.1
<b>10</b>	117.5
<b>10.5</b>	121.4
<b>11</b>	125.2
<b>11.5</b>	128.2
<b>12</b>	130.3
<b>12.5</b>	131.8
<b>13</b>	133.2
<b>13.5</b>	134.4
<b>14</b>	135.4
<b>14.5</b>	136.3
<b>15</b>	137.4
<b>15.5</b>	138.4
<b>16</b>	139.8
<b>16.5</b>	141.1
<b>17</b>	142.8
<b>17.5</b>	144.4
<b>18</b>	146.1
<b>18.5</b>	148.1
<b>19</b>	150.1
<b>19.5</b>	152.1
<b>20</b>	153.9
<b>20.5</b>	155.5
<b>21</b>	157.2
<b>21.5</b>	159
<b>22</b>	161.3
<b>22.5</b>	163.5
<b>23</b>	166
<b>23.5</b>	168.8
<b>24</b>	171.3
<b>24.5</b>	173.4
<b>25</b>	175.7
<b>25.5</b>	178.2
<b>26</b>	181.2

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**CANDELA TABULATION - (Cont.)**

<b>26.5</b>	184.5
<b>27</b>	188.4
<b>27.5</b>	192.7
<b>28</b>	196.9
<b>28.5</b>	201.1
<b>29</b>	205.6
<b>29.5</b>	210.6
<b>30</b>	215
<b>30.5</b>	218.4
<b>31</b>	221.1
<b>31.5</b>	224.1
<b>32</b>	227.2
<b>32.5</b>	229.9
<b>33</b>	232.4
<b>33.5</b>	234.8
<b>34</b>	237.4
<b>34.5</b>	240.1
<b>35</b>	243.7
<b>35.5</b>	248.2
<b>36</b>	253.5
<b>36.5</b>	259.1
<b>37</b>	264.7
<b>37.5</b>	269.5
<b>38</b>	273.5
<b>38.5</b>	276.3
<b>39</b>	278.1
<b>39.5</b>	279.8
<b>40</b>	282.1
<b>40.5</b>	284.5
<b>41</b>	288.3
<b>41.5</b>	294.1
<b>42</b>	302
<b>42.5</b>	312
<b>43</b>	323.5
<b>43.5</b>	335.1
<b>44</b>	346.9
<b>44.5</b>	359.8
<b>45</b>	373.1
<b>45.5</b>	387
<b>46</b>	400.9
<b>46.5</b>	414.1
<b>47</b>	426.3
<b>47.5</b>	437.8
<b>48</b>	448.4
<b>48.5</b>	458.6
<b>49</b>	467.7
<b>49.5</b>	473.1
<b>50</b>	475.2
<b>50.5</b>	476.3
<b>51</b>	477.2
<b>51.5</b>	478.5
<b>52</b>	480.9
<b>52.5</b>	483.8
<b>53</b>	487.3
<b>53.5</b>	492.3
<b>54</b>	498

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

<b>54.5</b>	507.3
<b>55</b>	520.3
<b>55.5</b>	534.5
<b>56</b>	547.2
<b>56.5</b>	559.9
<b>57</b>	574
<b>57.5</b>	589.2
<b>58</b>	606.6
<b>58.5</b>	624.4
<b>59</b>	640.8
<b>59.5</b>	656.9
<b>60</b>	673.7
<b>60.5</b>	689.9
<b>61</b>	705.8
<b>61.5</b>	725
<b>62</b>	746.5
<b>62.5</b>	767.4
<b>63</b>	784.4
<b>63.5</b>	799.7
<b>64</b>	811.6
<b>64.5</b>	819.4
<b>65</b>	826.8
<b>65.5</b>	835.8
<b>66</b>	847
<b>66.5</b>	861.8
<b>67</b>	886.8
<b>67.5</b>	920
<b>68</b>	957.9
<b>68.5</b>	1000
<b>69</b>	1049.8
<b>69.5</b>	1116.2
<b>70</b>	1210.2
<b>70.5</b>	1333.8
<b>71</b>	1478.3
<b>71.5</b>	1639.8
<b>72</b>	1810
<b>72.5</b>	1991.7
<b>73</b>	2181.2
<b>73.5</b>	2363.8
<b>74</b>	2533.3
<b>74.5</b>	2683.7
<b>75</b>	2802.8
<b>75.5</b>	2889.9
<b>76</b>	2945.4
<b>76.5</b>	2972.2
<b>77</b>	2978.7
<b>77.5</b>	2969.9
<b>78</b>	2938.9
<b>78.5</b>	2883.7
<b>79</b>	2795.9
<b>79.5</b>	2682.1
<b>80</b>	2549.1
<b>80.5</b>	2399.1
<b>81</b>	2239.7
<b>81.5</b>	2061.5
<b>82</b>	1859.4

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	1651.3
<b>83</b>	1449.6
<b>83.5</b>	1247.3
<b>84</b>	1059.2
<b>84.5</b>	891.9
<b>85</b>	747.5
<b>85.5</b>	634.8
<b>86</b>	547.7
<b>86.5</b>	479.4
<b>87</b>	427.5
<b>87.5</b>	387.5
<b>88</b>	355.2
<b>88.5</b>	329.5
<b>89</b>	308.3
<b>89.5</b>	292
<b>90</b>	279.3
<b>90.5</b>	268.6
<b>91</b>	259.6
<b>91.5</b>	251.8
<b>92</b>	245.1
<b>92.5</b>	238.9
<b>93</b>	233.3
<b>93.5</b>	228
<b>94</b>	223
<b>94.5</b>	218.1
<b>95</b>	213.4
<b>95.5</b>	208.8
<b>96</b>	203.9
<b>96.5</b>	199
<b>97</b>	194.3
<b>97.5</b>	190.3
<b>98</b>	186.3
<b>98.5</b>	182.3
<b>99</b>	178.2
<b>99.5</b>	174.2
<b>100</b>	170.4
<b>100.5</b>	166.9
<b>101</b>	163.9
<b>101.5</b>	161.2
<b>102</b>	159
<b>102.5</b>	156.9
<b>103</b>	154.9
<b>103.5</b>	153
<b>104</b>	151.3
<b>104.5</b>	149.5
<b>105</b>	148
<b>105.5</b>	146.7
<b>106</b>	145.4
<b>106.5</b>	144.2
<b>107</b>	143.1
<b>107.5</b>	142.4
<b>108</b>	142
<b>108.5</b>	142
<b>109</b>	142.4
<b>109.5</b>	142.7
<b>110</b>	142.5

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

<b>110.5</b>	141.8
<b>111</b>	140.6
<b>111.5</b>	139.1
<b>112</b>	137.4
<b>112.5</b>	135.7
<b>113</b>	133.7
<b>113.5</b>	131.7
<b>114</b>	129.6
<b>114.5</b>	127.4
<b>115</b>	125.3
<b>115.5</b>	122.7
<b>116</b>	119.8
<b>116.5</b>	116.8
<b>117</b>	114.2
<b>117.5</b>	112.2
<b>118</b>	110.2
<b>118.5</b>	108.1
<b>119</b>	106.2
<b>119.5</b>	104.6
<b>120</b>	103.2
<b>120.5</b>	101.6
<b>121</b>	99.5
<b>121.5</b>	97.1
<b>122</b>	95
<b>122.5</b>	92.9
<b>123</b>	90.8
<b>123.5</b>	88.4
<b>124</b>	86.2
<b>124.5</b>	84.5
<b>125</b>	82.8
<b>125.5</b>	80.8
<b>126</b>	78.9
<b>126.5</b>	77.1
<b>127</b>	75.6
<b>127.5</b>	74.3
<b>128</b>	73
<b>128.5</b>	71.8
<b>129</b>	70.7
<b>129.5</b>	69.5
<b>130</b>	68.3
<b>130.5</b>	67.2
<b>131</b>	66.1
<b>131.5</b>	65.1
<b>132</b>	64.1
<b>132.5</b>	63.2
<b>133</b>	62.2
<b>133.5</b>	61.3
<b>134</b>	60.5
<b>134.5</b>	59.8
<b>135</b>	59.1
<b>135.5</b>	58.6
<b>136</b>	58.1
<b>136.5</b>	57.8
<b>137</b>	57.4
<b>137.5</b>	57.1
<b>138</b>	56.8

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

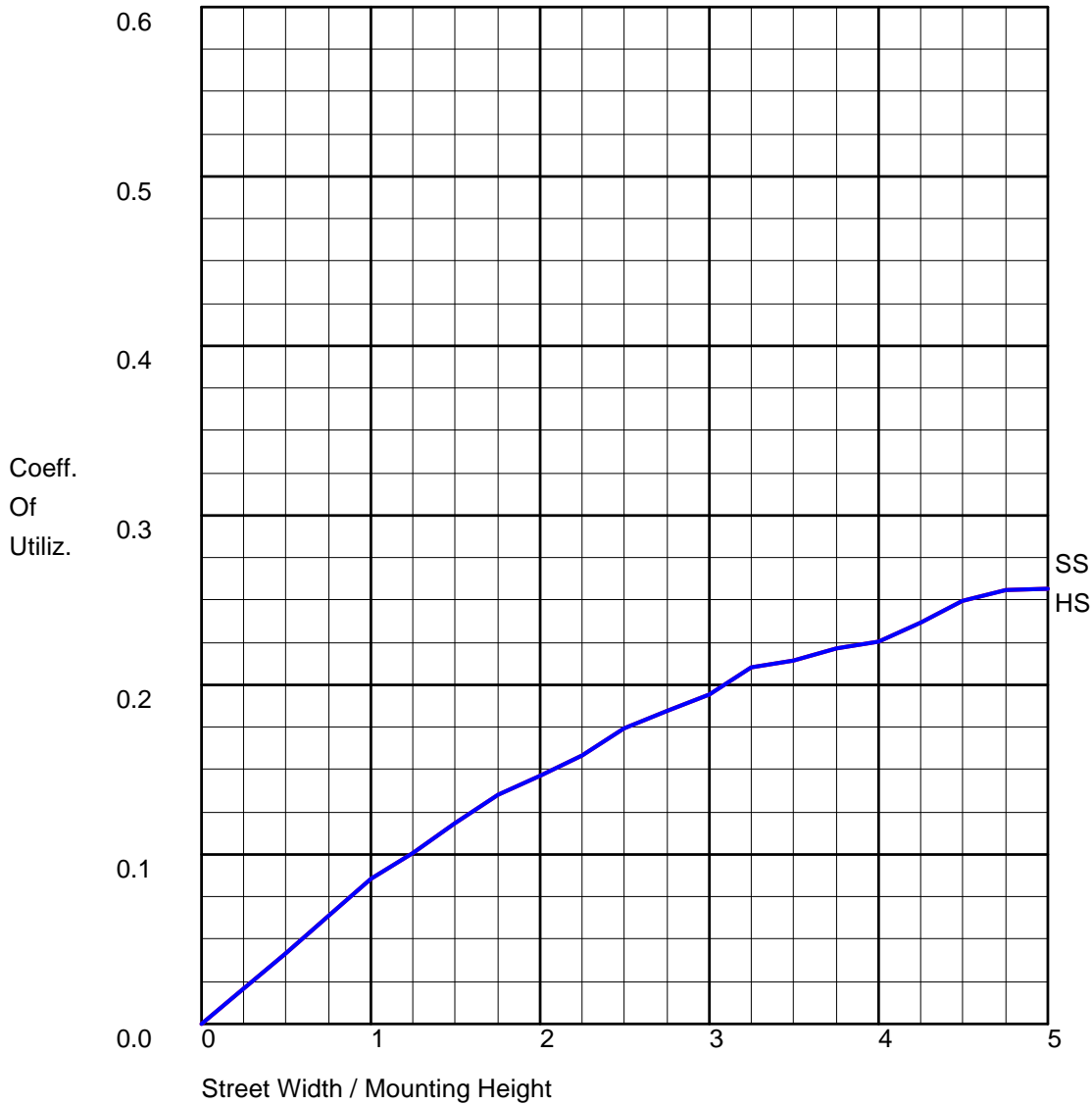
<b>138.5</b>	56.4
<b>139</b>	56
<b>139.5</b>	55.6
<b>140</b>	55.2
<b>140.5</b>	54.7
<b>141</b>	54.2
<b>141.5</b>	53.6
<b>142</b>	53
<b>142.5</b>	52.3
<b>143</b>	51.5
<b>143.5</b>	50.6
<b>144</b>	49.6
<b>144.5</b>	48.4
<b>145</b>	47.1
<b>145.5</b>	45.7
<b>146</b>	44.3
<b>146.5</b>	42.9
<b>147</b>	41.3
<b>147.5</b>	39.8
<b>148</b>	38.3
<b>148.5</b>	36.8
<b>149</b>	35.4
<b>149.5</b>	34
<b>150</b>	32.7
<b>150.5</b>	31.4
<b>151</b>	30.2
<b>151.5</b>	28.9
<b>152</b>	27.9
<b>152.5</b>	26.8
<b>153</b>	25.8
<b>153.5</b>	24.9
<b>154</b>	24
<b>154.5</b>	23.2
<b>155</b>	22.4
<b>155.5</b>	21.7
<b>156</b>	20.9
<b>156.5</b>	20.3
<b>157</b>	19.5
<b>157.5</b>	18.8
<b>158</b>	18.1
<b>158.5</b>	17.3
<b>159</b>	16.7
<b>159.5</b>	16
<b>160</b>	15.4
<b>160.5</b>	14.7
<b>161</b>	14
<b>161.5</b>	13.3
<b>162</b>	12.5
<b>162.5</b>	11.8
<b>163</b>	11.1
<b>163.5</b>	10.4
<b>164</b>	9.5
<b>164.5</b>	8.7
<b>165</b>	7.9
<b>165.5</b>	7
<b>166</b>	6

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

<b>166.5</b>	<b>5.1</b>
<b>167</b>	<b>4.1</b>
<b>167.5</b>	<b>3.1</b>
<b>168</b>	<b>2.2</b>
<b>168.5</b>	<b>1.5</b>
<b>169</b>	<b>0.7</b>
<b>169.5</b>	<b>0.2</b>
<b>170</b>	<b>0</b>
<b>170.5</b>	<b>0</b>
<b>171</b>	<b>0</b>
<b>171.5</b>	<b>0</b>
<b>172</b>	<b>0</b>
<b>172.5</b>	<b>0</b>
<b>173</b>	<b>0</b>
<b>173.5</b>	<b>0</b>
<b>174</b>	<b>0</b>
<b>174.5</b>	<b>0</b>
<b>175</b>	<b>0</b>
<b>175.5</b>	<b>0</b>
<b>176</b>	<b>0</b>
<b>176.5</b>	<b>0</b>
<b>177</b>	<b>0</b>
<b>177.5</b>	<b>0</b>
<b>178</b>	<b>0</b>
<b>178.5</b>	<b>0</b>
<b>179</b>	<b>0</b>
<b>179.5</b>	<b>0</b>
<b>180</b>	<b>0</b>

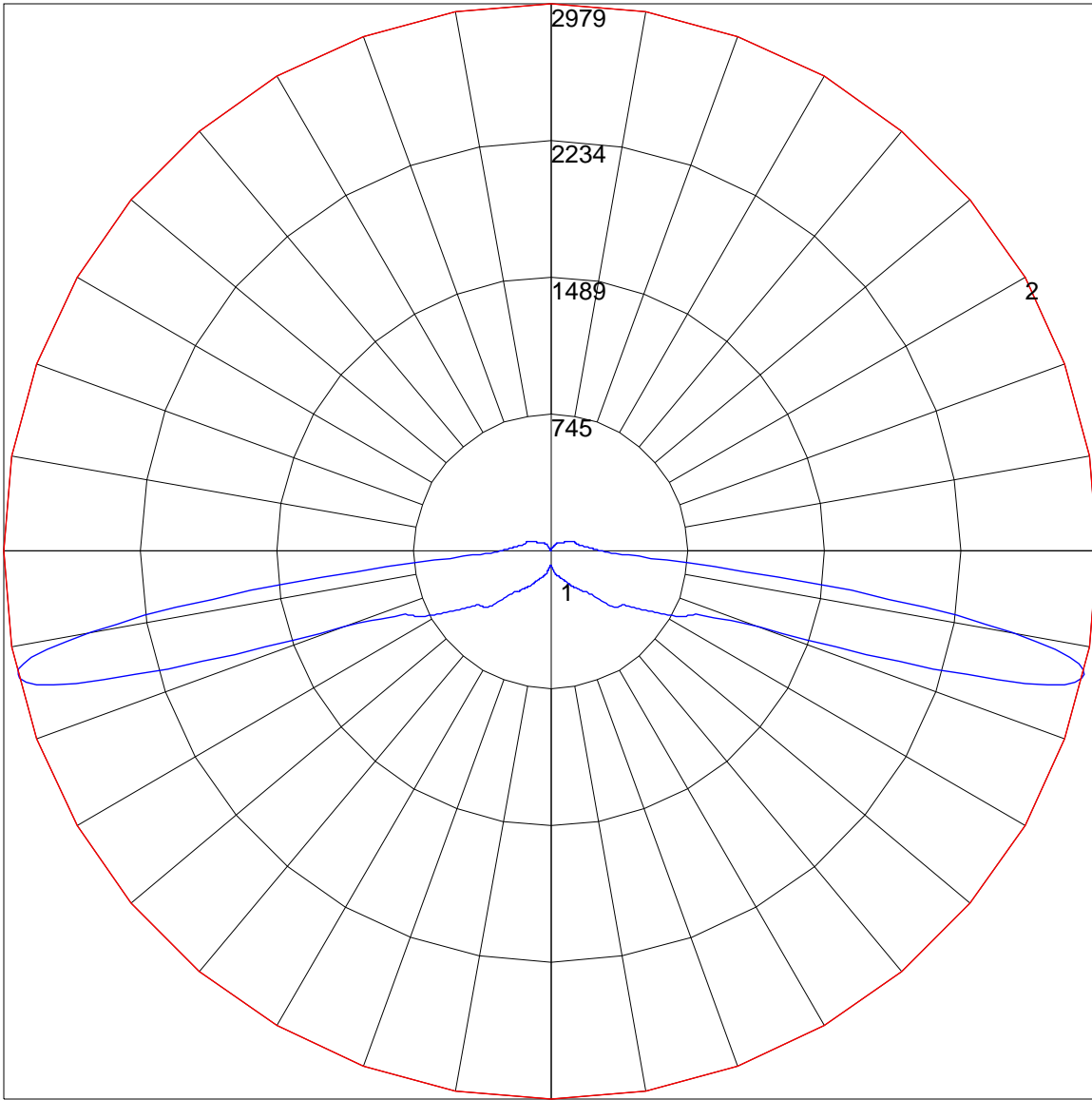
**COEFFICIENTS OF UTILIZATION**



**FLUX DISTRIBUTION**

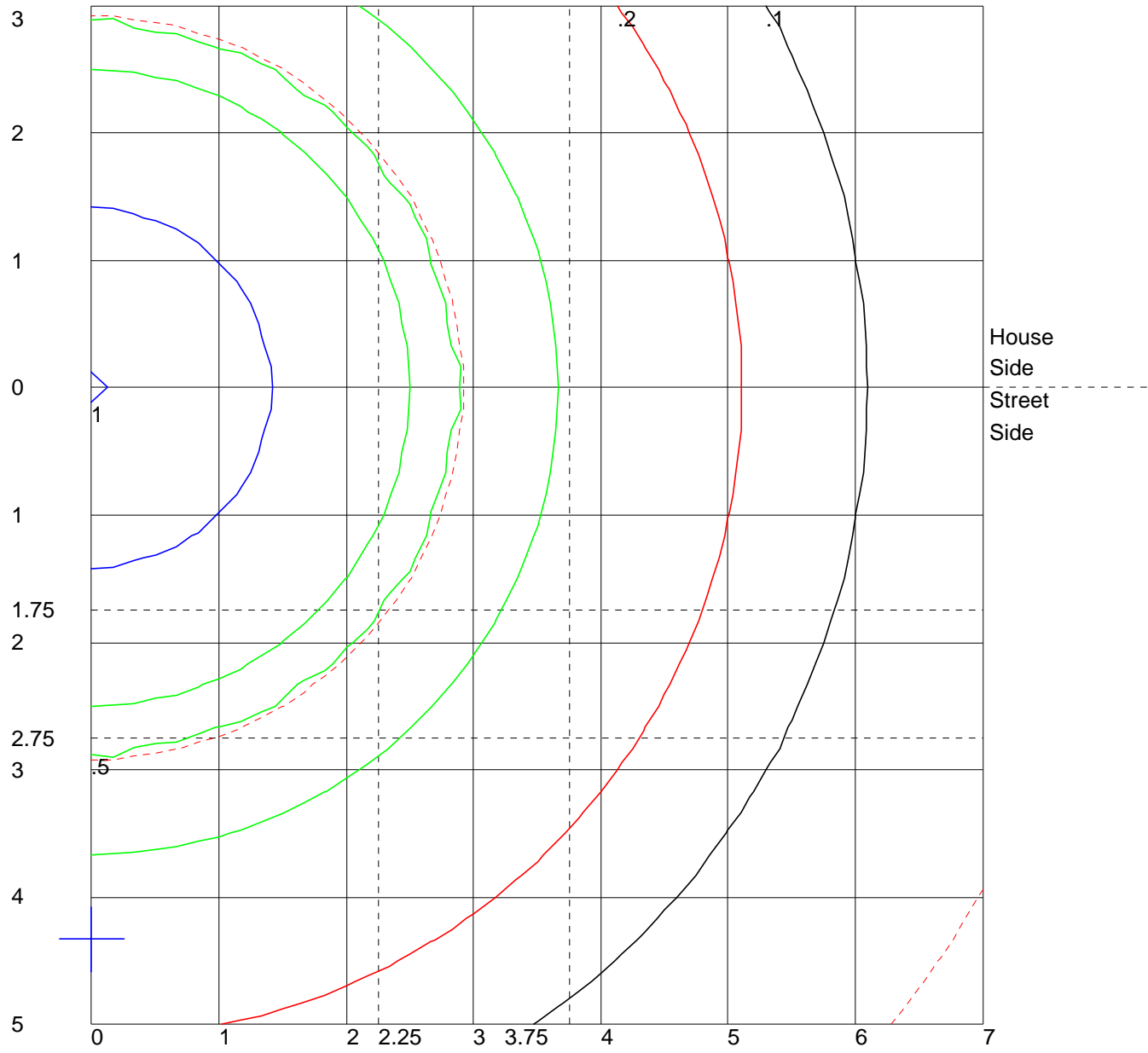
	Lumens	Percent Of Lamp
Downward Street Side	2818.5	29.7
Downward House Side	2818.5	29.7
Downward Total	5637.0	59.3
Upward Street Side	341.7	3.6
Upward House Side	341.7	3.6
Upward Total	683.4	7.2
<b>Total Flux</b>	<b>6320.4</b>	<b>66.5</b>

POLAR GRAPH



Maximum Candela = 2978.7 Located At Horizontal Angle = 0, Vertical Angle = 77  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (77) (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