



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : WPTZS-L15-840-T5-DIM-UNV.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN FROM Q2016030501 scaled from 22w 5K  
[TESTLAB] QSSI  
[ISSUE DATE] 04-20-2026  
[MANUFAC] H.E. WILLIAMS, INC.  
[MORE] CARTHAGE, MO. 64836  
[LUMCAT] WPTZS-L15-840-T5-DIM-UNV  
[LUMINAIRE] LED WALL PACK, TYPE V OPTICS, CLEAR GLASS LENS  
[LAMPCAT] SAMSUNG 561B LEDs  
[LAMP] 14 SAMSUNG 561B LEDs

**CHARACTERISTICS**

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1556
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	15.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	599.778
Maximum Candela Angle	10H 5V
Maximum Candela (<90 Degrees Vertical)	599.778
Maximum Candela Angle (<90 Degrees Vertical)	10H 5V
Maximum Candela At 90 Degrees Vertical	.749 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	22.118 (1.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	238.8	N.A.	15.3
FM - Front-Medium (30-60)	431.2	N.A.	27.7
FH - Front-High (60-80)	115.2	N.A.	7.4
FVH - Front-Very High (80-90)	3.2	N.A.	0.2
BL - Back-Low (0-30)	230.1	N.A.	14.8
BM - Back-Medium (30-60)	430.3	N.A.	27.7
BH - Back-High (60-80)	93.5	N.A.	6.0
BVH - Back-Very High (80-90)	3.0	N.A.	0.2
UL - Uplight-Low (90-100)	0.6	N.A.	0.0
UH - Uplight-High (100-180)	10.4	N.A.	0.7
Total	1556.3	N.A.	100.0
BUG Rating	B1-U2-G0		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
<b>0.0</b>	591.380	591.380	591.380	591.380	591.380	591.380	591.380	591.380	591.380	591.380
<b>2.5</b>	596.383	598.880	592.240	592.339	587.197	590.342	589.244	596.882	590.892	584.351
<b>5.0</b>	597.133	599.778	595.185	593.338	586.048	590.592	589.343	595.884	588.495	582.753
<b>7.5</b>	597.432	598.330	594.836	592.739	587.896	589.444	589.643	593.088	586.398	580.457
<b>10.0</b>	597.032	598.780	589.943	589.543	586.148	587.147	588.146	589.343	584.101	578.060
<b>12.5</b>	594.786	595.635	588.994	585.499	583.302	583.452	585.799	585.350	581.005	575.514
<b>15.0</b>	590.791	590.342	585.849	583.752	580.057	576.812	581.854	580.656	577.111	571.919
<b>17.5</b>	583.552	583.152	583.902	582.503	577.061	569.922	577.311	575.714	571.819	567.675
<b>20.0</b>	578.360	576.911	579.857	577.461	571.120	563.531	571.919	570.521	565.728	562.582
<b>22.5</b>	575.963	577.061	576.662	571.569	563.581	558.239	565.129	564.330	558.039	558.888
<b>25.0</b>	561.434	571.170	572.967	565.279	556.641	550.550	554.245	557.789	547.754	553.246
<b>27.5</b>	548.802	555.793	561.185	558.638	547.055	540.764	547.055	547.654	536.221	545.208
<b>30.0</b>	544.558	546.905	547.654	546.356	537.569	531.078	536.171	533.125	525.537	534.773
<b>32.5</b>	526.435	532.826	532.676	537.918	528.582	522.641	524.887	524.787	515.052	524.637
<b>35.0</b>	468.269	471.914	508.261	528.282	518.846	511.008	512.106	513.105	502.969	508.861
<b>37.5</b>	395.276	405.411	441.958	497.128	509.310	499.474	495.580	495.929	488.141	491.386
<b>40.0</b>	370.512	372.259	370.961	426.331	497.727	492.434	484.895	480.801	473.512	471.165
<b>42.5</b>	349.442	358.829	360.327	365.519	449.547	473.012	467.870	469.019	458.734	454.440
<b>45.0</b>	343.800	345.748	346.447	346.796	372.009	450.595	451.045	456.686	435.567	432.072
<b>47.5</b>	341.055	328.273	335.163	331.918	331.019	423.185	430.275	425.432	400.318	394.827
<b>50.0</b>	314.293	313.544	318.687	319.686	315.192	356.232	387.237	391.431	379.598	372.159
<b>52.5</b>	290.428	296.170	302.161	299.914	302.111	306.205	356.732	368.115	360.327	352.688
<b>55.0</b>	272.154	277.697	278.296	279.444	284.936	280.443	333.116	340.755	334.314	326.476
<b>57.5</b>	249.587	256.727	263.617	265.714	268.011	261.270	288.730	301.562	292.575	290.128
<b>60.0</b>	229.417	233.361	238.104	241.649	244.944	240.750	225.223	267.911	268.909	258.474
<b>62.5</b>	209.745	211.143	213.290	217.035	219.781	208.397	194.767	243.696	238.953	229.716
<b>65.0</b>	173.647	181.836	185.231	195.216	193.768	180.188	172.349	213.889	206.051	197.662
<b>67.5</b>	147.635	152.029	156.373	158.619	154.875	155.924	147.336	170.352	170.352	161.615
<b>70.0</b>	105.397	119.826	123.870	129.861	128.713	128.513	119.127	117.330	127.815	128.164
<b>72.5</b>	67.053	70.598	77.587	92.316	98.557	99.406	87.972	79.285	90.818	84.777
<b>75.0</b>	47.980	48.979	53.123	51.875	69.199	67.452	55.669	48.380	58.016	53.972
<b>77.5</b>	29.607	29.957	30.805	34.100	36.097	39.892	35.099	32.253	35.199	34.899
<b>80.0</b>	14.179	14.579	17.624	20.171	21.668	21.319	22.118	19.771	21.918	21.269
<b>82.5</b>	6.690	8.388	9.187	10.135	11.933	11.633	11.334	10.934	11.334	12.582
<b>85.0</b>	3.744	3.645	3.944	4.094	4.793	4.993	5.642	5.392	5.841	6.341
<b>87.5</b>	0.849	0.799	0.899	0.899	1.448	1.348	1.897	1.947	2.246	2.596
<b>90.0</b>	0.350	0.299	0.350	0.350	0.350	0.299	0.350	0.350	0.400	0.599
<b>92.5</b>	0.299	0.299	0.299	0.299	0.350	0.350	0.350	0.350	0.400	0.599
<b>95.0</b>	0.350	0.350	0.350	0.350	0.400	0.400	0.400	0.400	0.449	0.599
<b>97.5</b>	0.350	0.350	0.350	0.350	0.400	0.400	0.400	0.449	0.400	0.649
<b>100.0</b>	0.400	0.400	0.400	0.400	0.400	0.449	0.449	0.449	0.499	0.649
<b>102.5</b>	0.400	0.400	0.400	0.449	0.499	0.499	0.499	0.499	0.499	0.699
<b>105.0</b>	0.449	0.449	0.449	0.499	0.499	0.499	0.550	0.550	0.550	0.699
<b>107.5</b>	0.499	0.499	0.499	0.499	0.499	0.550	0.550	0.599	0.599	0.749
<b>110.0</b>	0.499	0.499	0.499	0.550	0.550	0.550	0.599	0.599	0.649	0.749
<b>112.5</b>	0.499	0.550	0.550	0.599	0.550	0.599	0.649	0.649	0.699	0.799
<b>115.0</b>	0.550	0.550	0.599	0.599	0.649	0.599	0.649	0.649	0.699	0.799
<b>117.5</b>	0.599	0.599	0.599	0.649	0.599	0.699	0.699	0.699	0.749	0.849
<b>120.0</b>	0.649	0.649	0.649	0.649	0.699	0.699	0.699	0.699	0.699	0.849
<b>122.5</b>	0.699	0.649	0.699	0.699	0.699	0.749	0.749	0.749	0.799	0.899
<b>125.0</b>	0.749	0.749	0.749	0.799	0.799	0.799	0.799	0.849	0.849	0.948
<b>127.5</b>	0.849	0.849	0.849	0.899	0.899	0.899	0.899	0.948	0.999	1.098
<b>130.0</b>	0.999	0.999	0.999	0.999	0.999	1.049	1.049	1.049	1.098	1.248

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**CANDELA TABULATION - (Cont.)**

132.5	1.098	1.098	1.098	1.098	1.148	1.199	1.248	1.248	1.298	1.448
135.0	1.248	1.298	1.298	1.298	1.348	1.348	1.448	1.448	1.448	1.648
137.5	1.498	1.498	1.498	1.548	1.548	1.548	1.597	1.648	1.698	1.848
140.0	1.698	1.698	1.698	1.747	1.797	1.797	1.848	1.897	1.947	2.097
142.5	1.947	1.997	1.997	2.047	2.047	2.097	2.097	2.147	2.197	2.396
145.0	2.297	2.347	2.297	2.347	2.396	2.396	2.446	2.546	2.596	2.746
147.5	2.646	2.746	2.696	2.696	2.746	2.846	2.896	2.946	2.996	3.095
150.0	3.095	3.095	3.146	3.195	3.195	3.245	3.345	3.445	3.595	3.445
152.5	3.645	3.595	3.645	3.744	3.844	3.944	3.994	4.144	4.244	3.944
155.0	4.344	4.344	4.493	4.444	4.543	4.643	4.843	5.043	5.143	4.493
157.5	5.093	5.093	5.143	5.192	5.392	5.542	5.692	5.792	6.041	5.093
160.0	5.792	5.792	5.891	5.942	6.141	6.291	6.441	6.591	6.790	5.742
162.5	6.441	6.441	6.541	6.591	6.740	6.890	7.040	7.190	7.389	6.341
165.0	6.940	7.040	7.090	7.190	7.289	7.389	7.539	7.689	7.889	6.890
167.5	7.339	7.389	7.439	7.539	7.639	7.788	7.889	8.039	8.188	7.389
170.0	7.639	7.589	7.689	7.689	7.839	7.938	8.039	8.188	8.338	7.788
172.5	7.739	7.788	7.788	7.839	7.938	7.988	8.088	8.238	8.288	7.988
175.0	7.839	7.889	7.889	7.889	7.988	8.039	8.138	8.188	8.238	8.188
177.5	7.889	7.938	7.988	7.988	8.088	8.138	8.188	8.238	8.288	8.288
180.0	8.106	8.106	8.106	8.106	8.106	8.106	8.106	8.106	8.106	8.106

Vert. Angles	Horizontal Angles									
	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0.0	591.380	591.380	591.380	591.380	591.380	591.380	591.380	591.380	591.380	591.380
2.5	595.984	594.187	590.791	588.645	590.292	587.846	586.947	585.699	592.788	593.937
5.0	591.640	590.392	587.896	585.699	587.147	589.194	580.307	583.852	587.746	588.894
7.5	587.646	586.648	584.301	582.104	585.100	585.399	573.117	579.707	583.053	581.505
10.0	584.201	582.204	579.508	577.261	581.256	578.360	568.474	574.066	578.360	577.811
12.5	579.907	575.264	574.216	570.122	575.464	567.376	569.872	569.373	571.669	572.368
15.0	575.264	571.719	569.373	562.382	565.728	560.885	566.926	563.681	558.239	562.382
17.5	570.471	564.630	563.681	563.981	562.233	552.447	554.644	552.198	552.847	554.894
20.0	561.984	556.442	552.247	564.280	548.203	540.864	539.316	542.761	550.850	544.708
22.5	552.348	552.297	540.864	556.491	539.267	536.371	531.877	531.527	547.354	535.222
25.0	540.714	539.216	530.379	543.860	532.826	527.433	532.427	520.543	542.112	527.433
27.5	528.133	526.735	524.738	523.939	524.188	518.996	515.800	511.956	506.863	513.853
30.0	517.848	512.955	513.404	511.507	516.050	501.471	491.985	495.480	487.342	493.833
32.5	508.611	500.573	504.567	504.467	501.222	486.793	491.736	487.442	476.757	483.398
35.0	496.629	488.241	493.083	493.982	475.109	479.653	479.653	472.414	475.709	466.922
37.5	482.848	475.309	483.297	473.063	456.587	465.473	460.331	454.689	463.027	453.541
40.0	469.418	463.576	468.769	450.295	448.099	448.049	436.965	439.612	436.416	434.618
42.5	454.290	445.153	448.798	441.808	443.356	425.332	422.436	422.186	404.463	417.643
45.0	433.919	428.328	433.870	422.886	419.291	405.561	399.270	401.616	402.415	399.020
47.5	398.421	407.908	413.549	400.468	391.980	385.390	379.349	377.551	370.162	374.805
50.0	370.312	376.253	378.250	382.594	372.359	365.719	358.579	342.652	337.110	343.950
52.5	347.545	350.840	339.906	362.573	355.683	338.808	303.609	277.397	275.100	279.993
55.0	323.580	326.825	316.191	331.967	328.123	288.880	241.849	221.228	213.540	218.782
57.5	285.835	296.020	297.867	292.325	288.631	224.674	203.055	194.318	196.615	196.115
60.0	257.326	255.329	269.509	265.814	222.726	187.228	179.489	170.003	165.959	165.659
62.5	231.414	226.871	238.154	228.468	161.865	163.962	152.179	145.289	143.092	141.943
65.0	200.259	199.160	200.808	155.873	139.996	135.403	126.266	118.378	116.281	116.581
67.5	162.913	163.562	159.917	123.221	112.037	103.699	100.104	92.715	90.668	88.022
70.0	124.669	125.418	115.233	96.410	85.875	74.791	72.694	66.603	65.605	67.003
72.5	86.824	89.370	76.389	69.199	62.060	52.324	48.330	45.933	43.387	44.935
75.0	54.920	59.514	50.776	49.878	42.438	35.598	28.609	25.912	23.865	25.014
77.5	34.850	30.556	30.456	31.154	26.512	20.520	17.724	17.424	16.227	16.676

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**CANDELA TABULATION - (Cont.)**

80.0	21.169	18.973	18.773	17.424	15.228	13.980	12.782	11.933	11.583	11.233
82.5	11.383	11.882	11.334	10.385	8.937	7.988	6.740	6.490	6.091	6.091
85.0	5.841	5.692	5.192	5.242	4.344	4.194	3.894	3.645	3.994	3.345
87.5	2.097	2.546	2.396	2.097	2.047	1.597	1.448	1.348	1.298	1.548
90.0	0.550	0.649	0.699	0.649	0.699	0.649	0.749	0.699	0.699	0.699
92.5	0.599	0.649	0.649	0.649	0.649	0.699	0.699	0.749	0.699	0.699
95.0	0.649	0.649	0.699	0.699	0.699	0.749	0.749	0.749	0.799	0.749
97.5	0.649	0.699	0.699	0.749	0.749	0.749	0.799	0.799	0.799	0.849
100.0	0.649	0.699	0.749	0.749	0.799	0.749	0.849	0.849	0.849	0.849
102.5	0.699	0.749	0.799	0.799	0.849	0.849	0.849	0.849	0.899	0.899
105.0	0.699	0.799	0.799	0.849	0.849	0.849	0.899	0.899	0.899	0.899
107.5	0.749	0.799	0.849	0.899	0.899	0.899	0.948	0.948	0.948	0.948
110.0	0.799	0.849	0.849	0.899	0.899	0.948	0.899	0.948	0.948	0.948
112.5	0.799	0.899	0.899	0.899	0.899	0.948	0.948	0.948	0.948	0.999
115.0	0.849	0.849	0.899	0.899	0.948	0.948	0.948	0.948	0.999	0.999
117.5	0.849	0.849	0.899	0.899	0.948	0.948	0.999	0.948	0.948	0.948
120.0	0.849	0.899	0.899	0.948	0.948	0.948	0.948	0.948	0.999	0.999
122.5	0.899	0.948	0.948	0.999	0.999	0.999	0.999	0.999	1.049	1.049
125.0	0.948	0.999	1.049	1.049	1.049	1.098	1.098	1.098	1.098	1.098
127.5	1.098	1.148	1.148	1.199	1.199	1.248	1.248	1.298	1.248	1.248
130.0	1.248	1.348	1.348	1.348	1.448	1.448	1.498	1.448	1.498	1.498
132.5	1.498	1.498	1.548	1.548	1.597	1.597	1.698	1.698	1.648	1.698
135.0	1.698	1.747	1.797	1.797	1.848	1.848	1.897	1.947	1.947	1.947
137.5	1.947	1.997	2.047	2.097	2.097	2.147	2.147	2.147	2.197	2.197
140.0	2.197	2.246	2.347	2.347	2.347	2.446	2.446	2.497	2.497	2.497
142.5	2.446	2.546	2.646	2.696	2.696	2.746	2.796	2.796	2.796	2.846
145.0	2.846	2.896	2.996	2.996	3.045	3.146	3.146	3.195	3.146	3.195
147.5	3.146	3.245	3.295	3.395	3.445	3.495	3.545	3.545	3.595	3.595
150.0	3.545	3.645	3.694	3.795	3.894	3.944	3.994	3.994	3.994	4.044
152.5	3.994	4.144	4.194	4.294	4.394	4.543	4.543	4.593	4.593	4.543
155.0	4.593	4.743	4.793	4.893	4.993	5.143	5.143	5.143	5.192	5.192
157.5	5.192	5.342	5.392	5.542	5.592	5.592	5.742	5.692	5.742	5.742
160.0	5.792	5.942	5.942	6.091	6.141	6.091	6.241	6.241	6.291	6.291
162.5	6.441	6.441	6.541	6.591	6.690	6.640	6.740	6.740	6.790	6.790
165.0	6.940	6.990	7.040	7.090	7.139	7.139	7.190	7.190	7.240	7.240
167.5	7.389	7.389	7.489	7.489	7.539	7.539	7.589	7.589	7.589	7.639
170.0	7.788	7.739	7.788	7.839	7.839	7.839	7.889	7.839	7.889	7.889
172.5	7.988	7.988	8.039	8.039	8.039	7.988	7.988	7.988	7.988	8.039
175.0	8.188	8.138	8.088	8.088	8.088	8.039	7.988	7.938	7.988	8.039
177.5	8.238	8.188	8.138	8.088	8.039	7.988	7.938	7.938	7.938	8.039
180.0	8.106	8.106	8.106	8.106	8.106	8.106	8.106	8.106	8.106	8.106

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

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0.0	591.380	591.380	591.380	591.380	591.380	591.380	591.380	591.380	591.380	591.380
2.5	590.841	590.592	587.497	582.204	586.547	594.436	592.539	585.799	598.380	594.735
5.0	585.299	590.641	584.900	575.564	584.600	589.992	591.091	584.750	594.236	592.938
7.5	582.404	587.396	577.511	571.070	581.854	584.600	587.946	582.004	590.292	590.242
10.0	576.612	580.157	569.422	567.425	576.911	580.107	584.600	577.261	586.098	587.696
12.5	576.862	572.967	564.280	562.033	570.720	574.515	580.407	574.814	582.154	588.445
15.0	570.971	565.928	557.440	554.844	562.832	566.926	575.514	570.571	578.060	583.302
17.5	555.942	555.093	549.252	551.848	554.045	560.585	568.724	565.828	570.920	580.057
20.0	540.964	544.309	544.509	546.855	541.163	550.500	560.435	560.785	561.984	573.417
22.5	533.225	533.974	534.873	537.419	530.879	541.414	552.247	548.503	551.099	565.878
25.0	530.879	525.187	526.485	529.980	516.499	531.628	540.065	534.573	540.165	555.892

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : WPTZS-L15-840-T5-DIM-UNV.IES**

**CANDELA TABULATION - (Cont.)**

27.5	513.105	512.605	517.148	520.543	506.614	520.194	523.689	522.641	526.735	542.911
30.0	493.233	500.822	507.563	501.721	494.581	505.915	510.209	511.856	515.650	529.380
32.5	486.993	488.291	486.892	488.790	477.956	487.841	498.226	498.525	504.467	516.649
35.0	471.714	471.864	465.873	476.807	463.177	472.363	482.749	481.451	489.589	501.172
37.5	457.935	456.936	444.105	462.727	447.699	455.987	466.272	464.076	471.914	485.594
40.0	441.009	441.608	435.717	434.818	433.470	435.417	440.809	443.455	447.649	463.376
42.5	414.797	417.394	424.283	412.800	415.646	405.411	407.109	405.860	418.142	437.814
45.0	395.276	404.163	400.718	399.570	394.527	372.309	382.144	380.447	385.690	403.763
47.5	373.806	377.601	375.904	374.156	370.961	351.938	358.829	357.081	362.973	376.153
50.0	353.287	350.890	351.938	336.361	338.857	333.066	327.724	321.583	333.416	350.491
52.5	313.195	326.176	328.373	308.651	308.302	297.018	290.827	288.730	295.421	311.647
55.0	243.895	286.634	299.015	280.942	272.904	263.268	263.118	264.266	270.158	275.799
57.5	198.761	225.422	257.176	257.026	239.103	236.556	237.355	238.204	242.447	250.386
60.0	173.898	172.799	196.315	214.838	212.641	206.649	209.995	210.794	215.487	222.127
62.5	147.536	142.143	141.844	179.439	180.538	176.993	180.987	182.834	185.780	184.582
65.0	119.127	114.633	116.630	124.220	149.383	147.436	151.280	152.229	154.775	141.395
67.5	92.815	89.320	89.020	93.315	116.630	115.882	118.378	120.225	127.215	109.291
70.0	66.354	65.005	64.956	67.452	74.492	86.125	84.178	86.774	94.213	82.730
72.5	44.486	44.685	44.985	47.381	47.381	57.117	52.224	52.524	58.565	53.473
75.0	24.914	29.108	30.456	31.654	29.357	34.300	34.001	34.749	37.695	34.150
77.5	15.877	17.125	18.922	20.021	20.071	19.272	22.268	21.419	21.069	22.617
80.0	10.934	12.382	11.983	11.733	13.380	13.031	14.779	14.179	13.281	13.580
82.5	6.441	6.940	7.090	7.689	8.088	7.739	8.488	8.238	8.039	7.639
85.0	3.445	3.595	3.595	3.445	3.694	3.545	3.944	4.094	3.795	3.994
87.5	1.248	1.199	1.398	1.498	1.398	1.148	1.098	1.098	0.849	1.049
90.0	0.699	0.699	0.699	0.649	0.649	0.649	0.599	0.499	0.499	0.499
92.5	0.699	0.699	0.699	0.749	0.699	0.699	0.649	0.550	0.499	0.499
95.0	0.749	0.749	0.749	0.749	0.749	0.749	0.699	0.599	0.550	0.550
97.5	0.799	0.799	0.849	0.799	0.799	0.749	0.749	0.599	0.599	0.550
100.0	0.849	0.899	0.899	0.899	0.849	0.849	0.799	0.649	0.599	0.599
102.5	0.899	0.899	0.948	0.899	0.899	0.899	0.849	0.649	0.649	0.649
105.0	0.899	0.948	0.948	0.948	0.948	0.948	0.899	0.749	0.699	0.699
107.5	0.948	0.999	0.948	0.999	0.999	0.948	0.899	0.749	0.699	0.699
110.0	0.948	0.999	0.999	0.999	0.999	0.948	0.899	0.799	0.749	0.749
112.5	0.999	0.999	0.999	1.049	0.999	0.999	0.948	0.799	0.799	0.749
115.0	0.999	0.999	0.999	1.049	1.049	0.999	0.999	0.849	0.799	0.749
117.5	0.999	0.999	1.049	1.049	0.999	0.999	0.999	0.849	0.849	0.799
120.0	0.999	1.049	1.049	1.049	0.999	0.999	0.999	0.899	0.849	0.799
122.5	1.049	1.098	1.049	1.098	1.049	1.049	1.049	0.948	0.899	0.899
125.0	1.148	1.098	1.148	1.148	1.148	1.148	1.148	1.049	0.999	0.948
127.5	1.298	1.248	1.298	1.298	1.298	1.248	1.248	1.098	1.098	1.049
130.0	1.498	1.498	1.498	1.498	1.548	1.448	1.448	1.248	1.199	1.199
132.5	1.747	1.648	1.698	1.698	1.698	1.648	1.648	1.398	1.398	1.298
135.0	1.947	1.947	1.947	1.897	1.897	1.848	1.797	1.548	1.548	1.498
137.5	2.197	2.246	2.197	2.147	2.197	2.147	2.047	1.747	1.698	1.698
140.0	2.497	2.497	2.396	2.497	2.396	2.396	2.297	1.997	1.997	1.897
142.5	2.796	2.846	2.796	2.746	2.696	2.646	2.596	2.347	2.297	2.246
145.0	3.146	3.146	3.095	3.095	3.045	3.045	2.946	2.696	2.546	2.546
147.5	3.595	3.545	3.495	3.495	3.445	3.345	3.295	3.095	2.996	2.946
150.0	3.994	3.994	3.944	3.894	3.844	3.795	3.694	3.595	3.545	3.395
152.5	4.543	4.493	4.394	4.394	4.394	4.244	4.194	4.294	4.144	4.044
155.0	5.192	5.093	5.143	5.043	5.043	4.793	4.793	5.143	4.943	4.893
157.5	5.792	5.742	5.742	5.692	5.642	5.492	5.442	6.091	5.942	5.642
160.0	6.341	6.291	6.291	6.241	6.241	6.141	6.091	6.690	6.591	6.341
162.5	6.840	6.790	6.790	6.790	6.790	6.690	6.740	7.389	7.190	6.990
165.0	7.339	7.289	7.240	7.289	7.240	7.240	7.190	7.839	7.639	7.489

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : WPTZS-L15-840-T5-DIM-UNV.IES**

**CANDELA TABULATION - (Cont.)**

167.5	7.589	7.639	7.589	7.639	7.639	7.639	7.639	8.088	7.938	7.788
170.0	7.889	7.938	7.938	7.938	7.938	8.039	7.988	8.188	7.988	7.938
172.5	7.988	8.039	8.088	8.138	8.138	8.138	8.188	8.138	7.988	7.889
175.0	8.039	8.088	8.138	8.188	8.238	8.288	8.288	8.088	7.938	7.889
177.5	8.039	8.088	8.188	8.238	8.238	8.338	8.388	8.238	8.138	7.988
180.0	8.106	8.106	8.106	8.106	8.106	8.106	8.106	8.106	8.106	8.106

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

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	591.380	591.380	591.380	591.380	591.380	591.380	591.380
2.5	596.533	589.543	593.837	587.197	592.988	585.299	596.383
5.0	597.082	589.643	592.988	587.147	593.987	585.599	597.133
7.5	595.734	588.345	590.791	587.047	593.937	585.799	597.432
10.0	593.039	585.399	590.742	586.897	592.289	585.200	597.032
12.5	589.244	581.954	588.744	585.799	589.194	584.551	594.786
15.0	584.201	577.811	585.948	584.501	584.650	583.902	590.791
17.5	575.564	572.668	581.505	583.203	577.461	582.853	583.552
20.0	568.824	565.328	573.916	578.759	571.719	578.409	578.360
22.5	560.186	557.290	572.618	567.924	568.074	572.967	575.963
25.0	550.750	546.855	563.331	559.337	565.578	560.935	561.434
27.5	542.512	535.072	551.748	547.405	553.945	554.095	548.802
30.0	531.278	524.987	538.717	535.072	536.021	543.860	544.558
32.5	516.899	519.445	517.398	526.235	519.795	523.939	526.435
35.0	502.769	508.411	507.762	513.654	482.399	459.582	468.269
37.5	487.541	492.684	494.282	466.772	417.293	395.675	395.276
40.0	470.616	475.109	465.823	391.182	372.409	370.761	370.512
42.5	446.501	455.238	412.501	351.689	355.384	359.528	349.442
45.0	424.234	414.198	348.144	336.611	342.702	349.542	343.800
47.5	383.393	356.881	319.785	324.628	332.966	336.112	341.055
50.0	354.635	303.959	304.608	314.393	315.491	315.691	314.293
52.5	313.794	290.478	289.329	294.472	298.516	294.622	290.428
55.0	256.228	264.266	271.905	277.547	275.749	277.297	272.154
57.5	211.343	235.208	255.029	255.779	251.984	255.678	249.587
60.0	189.824	203.554	226.172	233.062	230.814	231.214	229.417
62.5	166.957	181.886	193.269	207.298	205.302	205.751	209.745
65.0	143.691	155.823	161.466	181.836	177.542	177.092	173.647
67.5	119.027	125.268	133.955	148.035	148.185	147.436	147.635
70.0	94.313	100.254	104.249	108.592	114.384	113.785	105.397
72.5	64.156	72.844	77.288	74.542	67.601	68.051	67.053
75.0	39.343	48.180	45.683	42.488	44.136	46.333	47.980
77.5	26.661	23.916	26.561	26.861	27.860	28.558	29.607
80.0	14.878	14.679	15.477	15.677	14.429	13.630	14.179
82.5	8.088	8.138	8.238	7.839	7.988	7.788	6.690
85.0	3.744	3.795	3.445	3.545	3.295	3.395	3.744
87.5	1.049	0.999	0.849	0.849	0.799	0.799	0.849
90.0	0.449	0.449	0.400	0.350	0.350	0.350	0.350
92.5	0.499	0.449	0.400	0.400	0.350	0.350	0.299
95.0	0.499	0.499	0.449	0.400	0.400	0.350	0.350
97.5	0.550	0.499	0.449	0.449	0.400	0.350	0.350
100.0	0.550	0.550	0.499	0.449	0.400	0.400	0.400
102.5	0.599	0.550	0.550	0.499	0.449	0.400	0.400
105.0	0.649	0.599	0.550	0.550	0.449	0.449	0.449
107.5	0.649	0.599	0.599	0.499	0.499	0.499	0.499
110.0	0.699	0.699	0.599	0.599	0.550	0.499	0.499
112.5	0.699	0.699	0.649	0.599	0.550	0.550	0.499

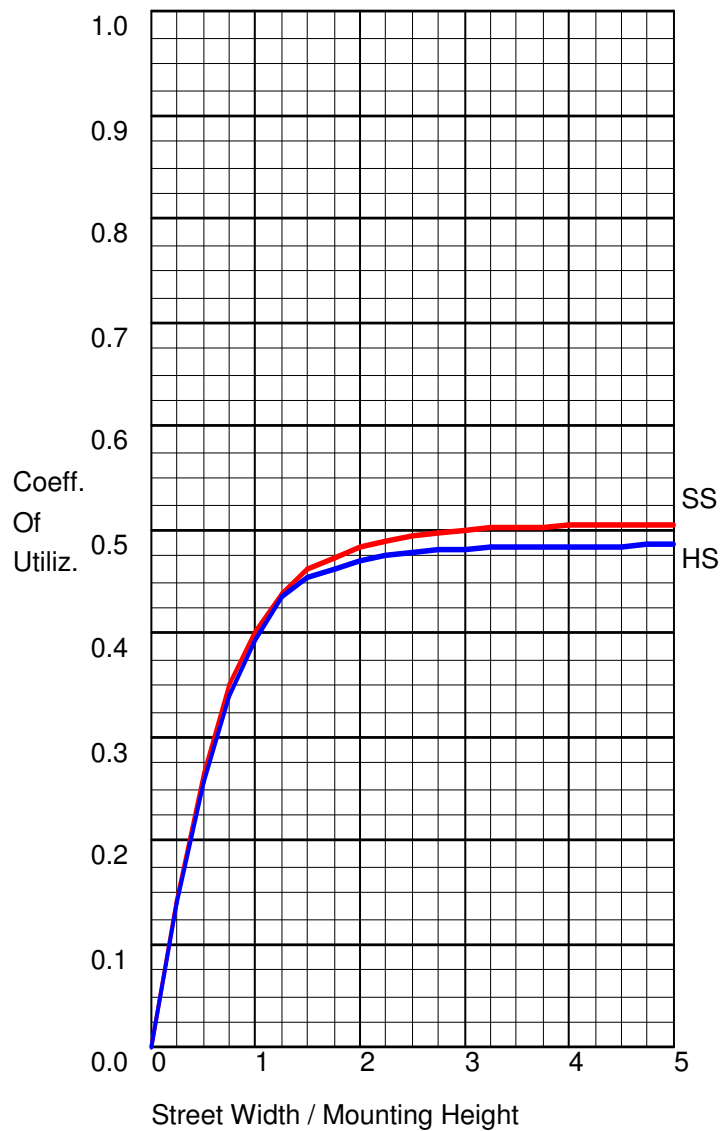
**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : WPTZS-L15-840-T5-DIM-UNV.IES**

**CANDELA TABULATION - (Cont.)**

115.0	0.699	0.699	0.699	0.599	0.599	0.550	0.550
117.5	0.749	0.699	0.749	0.649	0.599	0.599	0.599
120.0	0.799	0.749	0.749	0.699	0.649	0.649	0.649
122.5	0.849	0.799	0.799	0.699	0.699	0.699	0.699
125.0	0.899	0.899	0.849	0.799	0.749	0.799	0.749
127.5	0.999	0.948	0.948	0.849	0.849	0.849	0.849
130.0	1.098	1.098	1.049	1.049	0.999	0.948	0.999
132.5	1.298	1.199	1.148	1.148	1.148	1.098	1.098
135.0	1.448	1.398	1.348	1.348	1.298	1.298	1.248
137.5	1.597	1.597	1.548	1.498	1.498	1.498	1.498
140.0	1.848	1.797	1.747	1.747	1.747	1.698	1.698
142.5	2.147	2.097	2.047	1.997	1.997	1.947	1.947
145.0	2.497	2.396	2.396	2.347	2.297	2.347	2.297
147.5	2.796	2.746	2.746	2.696	2.646	2.646	2.646
150.0	3.345	3.245	3.146	3.146	3.095	3.095	3.095
152.5	3.894	3.844	3.795	3.645	3.645	3.545	3.645
155.0	4.643	4.543	4.493	4.344	4.344	4.344	4.344
157.5	5.442	5.342	5.242	5.093	5.093	5.192	5.093
160.0	6.191	6.091	5.991	5.792	5.792	5.742	5.792
162.5	6.790	6.640	6.591	6.490	6.441	6.391	6.441
165.0	7.339	7.240	7.139	6.990	6.990	6.940	6.940
167.5	7.639	7.589	7.489	7.389	7.339	7.339	7.339
170.0	7.739	7.739	7.639	7.589	7.589	7.589	7.639
172.5	7.788	7.788	7.739	7.689	7.689	7.689	7.739
175.0	7.788	7.788	7.788	7.788	7.788	7.788	7.839
177.5	7.889	7.889	7.889	7.839	7.889	7.889	7.889
180.0	8.106	8.106	8.106	8.106	8.106	8.106	8.106



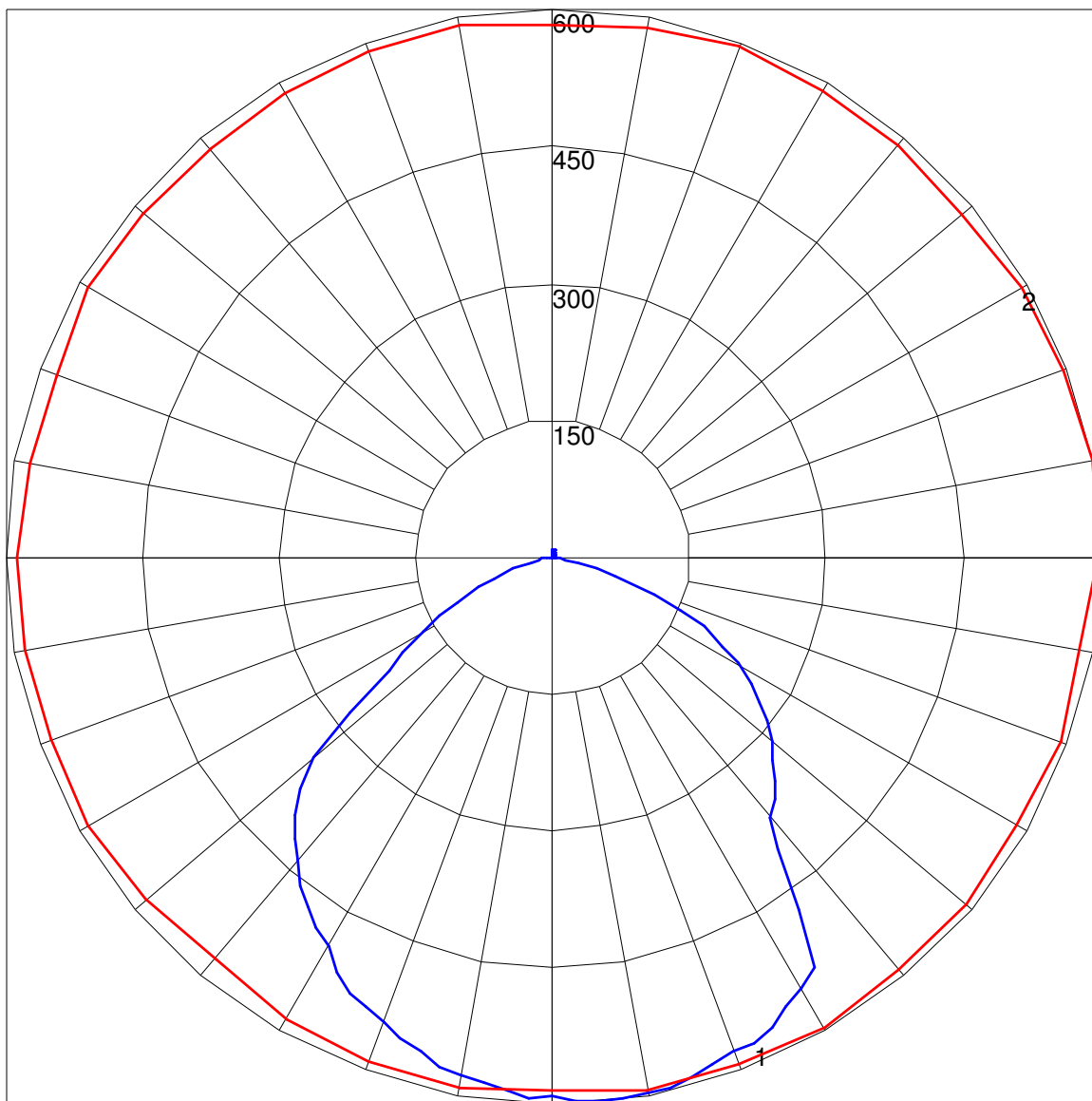
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

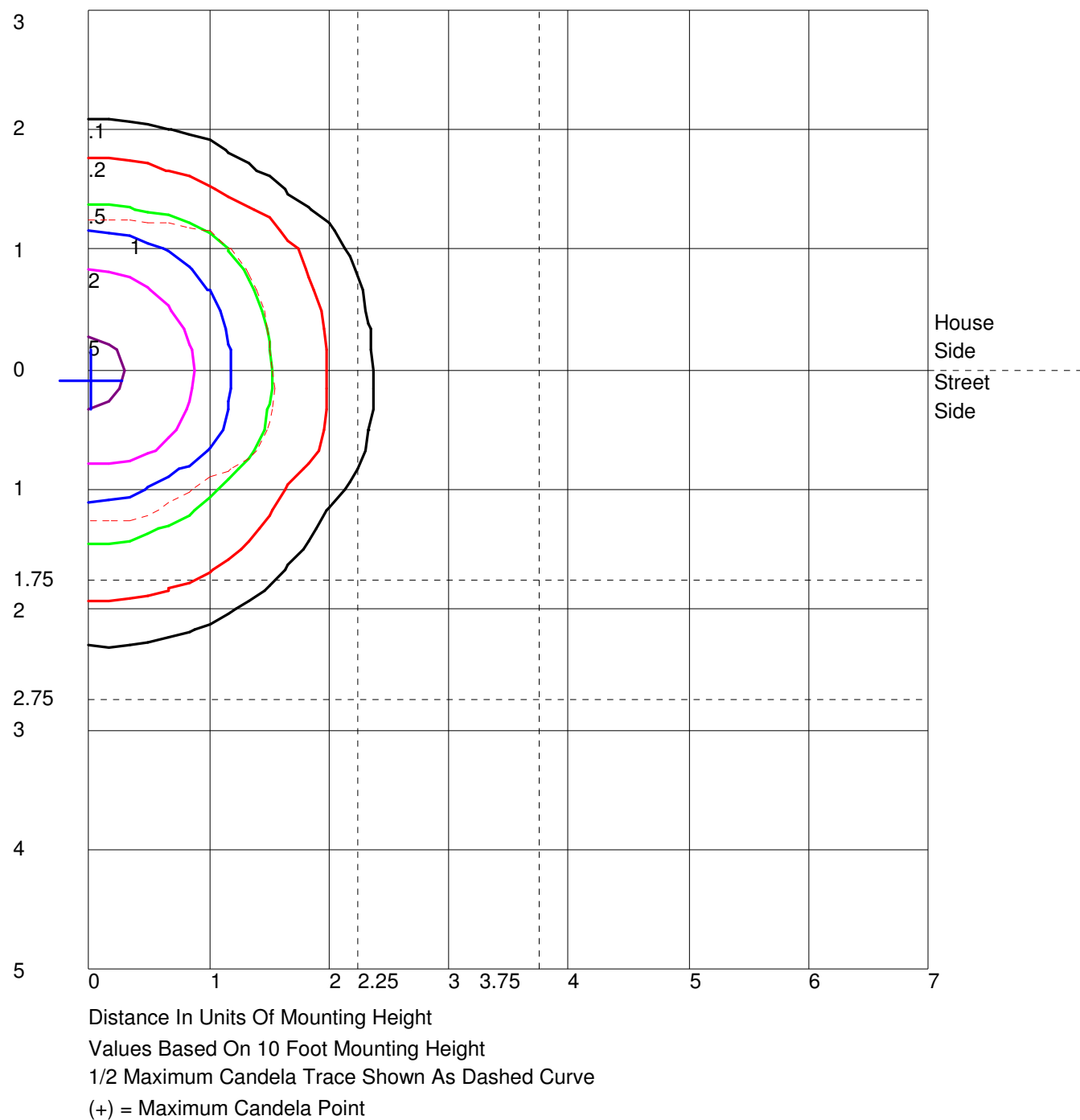
	Lumens	Percent Of Luminaire
Downward Street Side	788.3	50.7
Downward House Side	756.9	48.6
Downward Total	1545.2	99.3
Upward Street Side	5.0	0.3
Upward House Side	6.0	0.4
Upward Total	11.0	0.7
Total Flux	1556.2	100.0

POLAR GRAPH

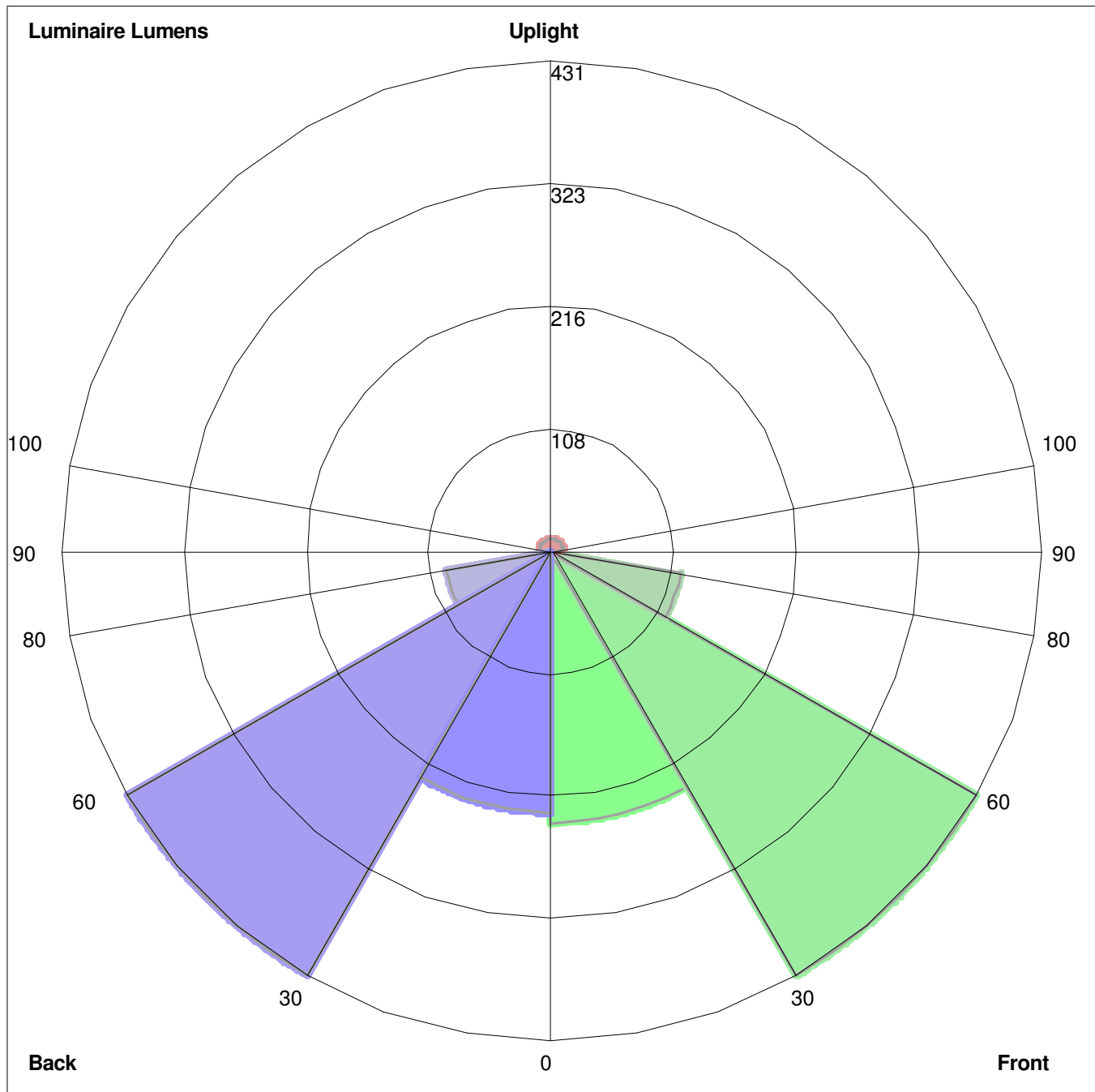


Maximum Candela = 599.778 Located At Horizontal Angle = 10, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=238.8, Medium=431.2, High=115.2, Very High=3.2  
Back: Low=230.1, Medium=430.3, High=93.5, Very High=3.0  
Uplight: Low=0.6, High=10.4

BUG Rating : B1-U2-G0