



IES ROAD REPORT

PHOTOMETRIC FILENAME : WPTZS-L15-850-T5-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM Q2016030501 scaled from 22w

[TESTLAB] QSSI

[ISSUEDATE] 04-20-2026

[MANUFAC] H.E. WILLIAMS, INC.

[MORE] CARTHAGE, MO. 64836

[LUMCAT] WPTZS-L15-850-T5-DIM-UNV

[LUMINAIRE] LED WALL PACK WITH 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	1621
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	15.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	624.769
Maximum Candela Angle	10H 5V
Maximum Candela (<90 Degrees Vertical)	624.769
Maximum Candela Angle (<90 Degrees Vertical)	10H 5V
Maximum Candela At 90 Degrees Vertical	.78 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	23.039 (1.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : WPTZS-L15-850-T5-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	248.7	N.A.	15.3
FM - Front-Medium (30-60)	449.1	N.A.	27.7
FH - Front-High (60-80)	120.0	N.A.	7.4
FVH - Front-Very High (80-90)	3.3	N.A.	0.2
BL - Back-Low (0-30)	239.7	N.A.	14.8
BM - Back-Medium (30-60)	448.3	N.A.	27.7
BH - Back-High (60-80)	97.4	N.A.	6.0
BVH - Back-Very High (80-90)	3.1	N.A.	0.2
UL - Uplight-Low (90-100)	0.7	N.A.	0.0
UH - Uplight-High (100-180)	10.8	N.A.	0.7
Total	1621.1	N.A.	100.0
BUG Rating	B1-U2-G0		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	616.021	616.021	616.021	616.021	616.021	616.021	616.021	616.021	616.021	616.021
2.5	621.233	623.833	616.916	617.020	611.663	614.940	613.796	621.752	615.512	608.699
5.0	622.013	624.769	619.985	618.060	610.467	615.200	613.899	620.713	613.015	607.035
7.5	622.325	623.261	619.621	617.436	612.392	614.004	614.212	617.800	610.831	604.642
10.0	621.909	623.729	614.524	614.107	610.571	611.611	612.652	613.899	608.439	602.146
12.5	619.569	620.453	613.536	609.895	607.607	607.763	610.207	609.739	605.214	599.494
15.0	615.408	614.940	610.259	608.075	604.226	600.846	606.098	604.850	601.158	595.749
17.5	607.867	607.450	608.231	606.774	601.106	593.669	601.366	599.702	595.645	591.328
20.0	602.458	600.949	604.018	601.522	594.917	587.012	595.749	594.292	589.300	586.023
22.5	599.962	601.106	600.690	595.385	587.064	581.499	588.676	587.844	581.291	582.175
25.0	584.827	594.968	596.841	588.832	579.835	573.489	577.339	581.031	570.577	576.298
27.5	571.669	578.951	584.567	581.915	569.849	563.296	569.849	570.473	558.563	567.925
30.0	567.248	569.693	570.473	569.121	559.968	553.206	558.511	555.339	547.434	557.055
32.5	548.370	555.027	554.871	560.331	550.606	544.417	546.757	546.654	536.512	546.497
35.0	487.781	491.577	529.439	550.294	540.464	532.300	533.444	534.484	523.926	530.063
37.5	411.746	422.303	460.373	517.841	530.531	520.286	516.229	516.593	508.480	511.860
40.0	385.950	387.770	386.418	444.095	518.466	512.953	505.099	500.835	493.242	490.797
42.5	364.002	373.780	375.340	380.749	468.278	492.721	487.364	488.561	477.847	473.375
45.0	358.125	360.154	360.882	361.246	387.510	469.370	469.838	475.715	453.716	450.075
47.5	355.265	341.951	349.128	345.748	344.812	440.818	448.203	443.158	416.998	411.278
50.0	327.389	326.609	331.965	333.006	328.325	371.075	403.372	407.741	395.415	387.666
52.5	302.529	308.510	314.751	312.411	314.699	318.964	371.596	383.453	375.340	367.383
55.0	283.494	289.267	289.891	291.087	296.808	292.128	346.996	354.953	348.244	340.079
57.5	259.987	267.424	274.601	276.785	279.178	272.156	300.761	314.127	304.765	302.217
60.0	238.976	243.084	248.025	251.718	255.150	250.782	234.607	279.073	280.114	269.244
62.5	218.485	219.941	222.177	226.078	228.938	217.081	202.882	253.850	248.909	239.288
65.0	180.883	189.413	192.948	203.350	201.842	187.696	179.531	222.801	214.636	205.898
67.5	153.787	158.364	162.888	165.228	161.328	162.420	153.475	177.450	177.450	168.349
70.0	109.788	124.818	129.031	135.272	134.076	133.868	124.091	122.219	133.140	133.504
72.5	69.846	73.539	80.820	96.162	102.663	103.548	91.638	82.588	94.602	88.309
75.0	49.980	51.020	55.336	54.036	72.083	70.263	57.989	50.396	60.433	56.220
77.5	30.840	31.205	32.089	35.521	37.601	41.554	36.562	33.597	36.665	36.354
80.0	14.770	15.186	18.359	21.011	22.571	22.207	23.039	20.595	22.831	22.155
82.5	6.969	8.737	9.570	10.557	12.430	12.118	11.806	11.390	11.806	13.106
85.0	3.900	3.797	4.108	4.265	4.992	5.201	5.877	5.617	6.085	6.605
87.5	0.884	0.832	0.936	0.936	1.508	1.404	1.976	2.028	2.340	2.704
90.0	0.364	0.312	0.364	0.364	0.364	0.312	0.364	0.364	0.416	0.624
92.5	0.312	0.312	0.312	0.312	0.364	0.364	0.364	0.364	0.416	0.624
95.0	0.364	0.364	0.364	0.364	0.416	0.416	0.416	0.416	0.468	0.624
97.5	0.364	0.364	0.364	0.364	0.416	0.416	0.416	0.468	0.416	0.676
100.0	0.416	0.416	0.416	0.416	0.416	0.468	0.468	0.468	0.520	0.676
102.5	0.416	0.416	0.416	0.468	0.520	0.520	0.520	0.520	0.520	0.728
105.0	0.468	0.468	0.468	0.520	0.520	0.520	0.572	0.572	0.572	0.728
107.5	0.520	0.520	0.520	0.520	0.520	0.572	0.572	0.624	0.624	0.780
110.0	0.520	0.520	0.520	0.572	0.572	0.572	0.624	0.624	0.676	0.780
112.5	0.520	0.572	0.572	0.624	0.572	0.624	0.676	0.676	0.728	0.832
115.0	0.572	0.572	0.624	0.624	0.676	0.624	0.676	0.676	0.728	0.832
117.5	0.624	0.624	0.624	0.676	0.624	0.728	0.728	0.728	0.780	0.884
120.0	0.676	0.676	0.676	0.676	0.728	0.728	0.728	0.728	0.728	0.884
122.5	0.728	0.676	0.728	0.728	0.728	0.780	0.780	0.780	0.832	0.936
125.0	0.780	0.780	0.780	0.832	0.832	0.832	0.832	0.884	0.884	0.988
127.5	0.884	0.884	0.884	0.936	0.936	0.936	0.936	0.988	1.040	1.144
130.0	1.040	1.040	1.040	1.040	1.040	1.092	1.092	1.092	1.144	1.300

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CANDELA TABULATION - (Cont.)

132.5	1.144	1.144	1.144	1.144	1.196	1.248	1.300	1.300	1.352	1.508
135.0	1.300	1.352	1.352	1.352	1.404	1.404	1.508	1.508	1.508	1.716
137.5	1.560	1.560	1.560	1.612	1.612	1.612	1.664	1.716	1.768	1.925
140.0	1.768	1.768	1.768	1.820	1.872	1.872	1.925	1.976	2.028	2.184
142.5	2.028	2.080	2.080	2.133	2.133	2.184	2.184	2.236	2.288	2.496
145.0	2.393	2.444	2.393	2.444	2.496	2.496	2.548	2.652	2.704	2.861
147.5	2.756	2.861	2.809	2.809	2.861	2.964	3.017	3.069	3.120	3.224
150.0	3.224	3.224	3.277	3.329	3.329	3.380	3.485	3.588	3.745	3.588
152.5	3.797	3.745	3.797	3.900	4.005	4.108	4.161	4.316	4.421	4.108
155.0	4.524	4.524	4.681	4.629	4.733	4.837	5.045	5.253	5.357	4.681
157.5	5.305	5.305	5.357	5.409	5.617	5.773	5.929	6.033	6.293	5.305
160.0	6.033	6.033	6.137	6.189	6.397	6.553	6.709	6.865	7.073	5.981
162.5	6.709	6.709	6.813	6.865	7.021	7.177	7.333	7.489	7.697	6.605
165.0	7.229	7.333	7.385	7.489	7.593	7.697	7.853	8.009	8.217	7.177
167.5	7.645	7.697	7.749	7.853	7.957	8.113	8.217	8.374	8.529	7.697
170.0	7.957	7.905	8.009	8.009	8.166	8.269	8.374	8.529	8.685	8.113
172.5	8.061	8.113	8.113	8.166	8.269	8.321	8.425	8.581	8.634	8.321
175.0	8.166	8.217	8.217	8.217	8.321	8.374	8.477	8.529	8.581	8.529
177.5	8.217	8.269	8.321	8.321	8.425	8.477	8.529	8.581	8.634	8.634
180.0	8.443	8.443	8.443	8.443	8.443	8.443	8.443	8.443	8.443	8.443

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	616.021	616.021	616.021	616.021	616.021	616.021	616.021	616.021	616.021	616.021
2.5	620.816	618.944	615.408	613.171	614.888	612.339	611.403	610.103	617.488	618.685
5.0	616.292	614.992	612.392	610.103	611.611	613.744	604.486	608.179	612.235	613.431
7.5	612.131	611.091	608.647	606.359	609.479	609.791	596.997	603.862	607.347	605.735
10.0	608.543	606.463	603.654	601.314	605.475	602.458	592.160	597.985	602.458	601.886
12.5	604.070	599.234	598.141	593.877	599.442	591.016	593.616	593.096	595.489	596.217
15.0	599.234	595.541	593.096	585.815	589.300	584.256	590.548	587.168	581.499	585.815
17.5	594.241	588.156	587.168	587.480	585.660	575.466	577.754	575.206	575.882	578.015
20.0	585.400	579.627	575.258	587.791	571.045	563.400	561.788	565.376	573.802	567.405
22.5	575.362	575.310	563.400	579.679	561.736	558.719	554.039	553.674	570.161	557.523
25.0	563.244	561.684	552.478	566.521	555.027	549.410	554.611	542.233	564.700	549.410
27.5	550.138	548.682	546.602	545.769	546.029	540.621	537.292	533.287	527.983	535.264
30.0	539.425	534.328	534.796	532.819	537.552	522.366	512.485	516.125	507.648	514.409
32.5	529.803	521.430	525.591	525.486	522.106	507.076	512.225	507.752	496.622	503.539
35.0	517.321	508.584	513.629	514.565	494.906	499.638	499.638	492.098	495.530	486.377
37.5	502.967	495.114	503.435	492.774	475.611	484.868	479.511	473.635	482.320	472.439
40.0	488.977	482.892	488.301	469.058	466.770	466.718	455.172	457.929	454.600	452.727
42.5	473.219	463.701	467.497	460.217	461.829	443.054	440.037	439.777	421.315	435.045
45.0	451.999	446.175	451.948	440.506	436.761	422.459	415.906	418.350	419.183	415.646
47.5	415.022	424.904	430.780	417.154	408.313	401.448	395.155	393.283	385.585	390.422
50.0	385.741	391.931	394.011	398.535	387.874	380.957	373.519	356.929	351.156	358.281
52.5	362.026	365.458	354.069	377.680	370.503	352.925	316.259	288.955	286.563	291.660
55.0	337.062	340.443	329.365	345.799	341.795	300.917	251.926	230.446	222.438	227.898
57.5	297.744	308.354	310.278	304.505	300.657	234.035	211.516	202.414	204.807	204.286
60.0	268.048	265.968	280.738	276.890	232.006	195.029	186.968	177.086	172.874	172.562
62.5	241.056	236.323	248.077	237.987	168.609	170.793	158.520	151.343	149.054	147.858
65.0	208.603	207.459	209.175	162.368	145.830	141.045	131.527	123.310	121.126	121.438
67.5	169.701	170.377	166.581	128.355	116.706	108.020	104.275	96.579	94.446	91.690
70.0	129.864	130.643	120.034	100.427	89.454	77.908	75.723	69.378	68.338	69.795
72.5	90.441	93.094	79.572	72.083	64.646	54.504	50.344	47.847	45.194	46.807
75.0	57.208	61.993	52.892	51.956	44.207	37.081	29.801	26.992	24.859	26.056
77.5	36.302	31.829	31.725	32.453	27.616	21.375	18.463	18.150	16.903	17.371

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CANDELA TABULATION - (Cont.)

80.0	22.051	19.763	19.555	18.150	15.862	14.562	13.314	12.430	12.066	11.701
82.5	11.858	12.378	11.806	10.817	9.310	8.321	7.021	6.761	6.345	6.345
85.0	6.085	5.929	5.409	5.460	4.524	4.369	4.056	3.797	4.161	3.485
87.5	2.184	2.652	2.496	2.184	2.133	1.664	1.508	1.404	1.352	1.612
90.0	0.572	0.676	0.728	0.676	0.728	0.676	0.780	0.728	0.728	0.728
92.5	0.624	0.676	0.676	0.676	0.676	0.728	0.728	0.780	0.728	0.728
95.0	0.676	0.676	0.728	0.728	0.728	0.780	0.780	0.780	0.832	0.780
97.5	0.676	0.728	0.728	0.780	0.780	0.780	0.832	0.832	0.832	0.884
100.0	0.676	0.728	0.780	0.780	0.832	0.780	0.884	0.884	0.884	0.884
102.5	0.728	0.780	0.832	0.832	0.884	0.884	0.884	0.884	0.936	0.936
105.0	0.728	0.832	0.832	0.884	0.884	0.884	0.936	0.936	0.936	0.936
107.5	0.780	0.832	0.884	0.936	0.936	0.936	0.988	0.988	0.988	0.988
110.0	0.832	0.884	0.884	0.936	0.936	0.988	0.936	0.988	0.988	0.988
112.5	0.832	0.936	0.936	0.936	0.936	0.988	0.988	0.988	0.988	1.040
115.0	0.884	0.884	0.936	0.936	0.988	0.988	0.988	0.988	1.040	1.040
117.5	0.884	0.884	0.936	0.936	0.988	0.988	1.040	0.988	0.988	0.988
120.0	0.884	0.936	0.936	0.988	0.988	0.988	0.988	0.988	1.040	1.040
122.5	0.936	0.988	0.988	1.040	1.040	1.040	1.040	1.040	1.092	1.092
125.0	0.988	1.040	1.092	1.092	1.092	1.144	1.144	1.144	1.144	1.144
127.5	1.144	1.196	1.196	1.248	1.248	1.300	1.300	1.352	1.300	1.300
130.0	1.300	1.404	1.404	1.404	1.508	1.508	1.560	1.508	1.560	1.560
132.5	1.560	1.560	1.612	1.612	1.664	1.664	1.768	1.768	1.716	1.768
135.0	1.768	1.820	1.872	1.872	1.925	1.925	1.976	2.028	2.028	2.028
137.5	2.028	2.080	2.133	2.184	2.184	2.236	2.236	2.236	2.288	2.288
140.0	2.288	2.340	2.444	2.444	2.444	2.548	2.548	2.601	2.601	2.601
142.5	2.548	2.652	2.756	2.809	2.809	2.861	2.912	2.912	2.912	2.964
145.0	2.964	3.017	3.120	3.120	3.172	3.277	3.277	3.329	3.277	3.329
147.5	3.277	3.380	3.432	3.537	3.588	3.640	3.693	3.693	3.745	3.745
150.0	3.693	3.797	3.848	3.953	4.056	4.108	4.161	4.161	4.161	4.213
152.5	4.161	4.316	4.369	4.473	4.577	4.733	4.733	4.784	4.784	4.733
155.0	4.784	4.941	4.992	5.097	5.201	5.357	5.357	5.357	5.409	5.409
157.5	5.409	5.565	5.617	5.773	5.825	5.825	5.981	5.929	5.981	5.981
160.0	6.033	6.189	6.189	6.345	6.397	6.345	6.501	6.501	6.553	6.553
162.5	6.709	6.709	6.813	6.865	6.969	6.917	7.021	7.021	7.073	7.073
165.0	7.229	7.281	7.333	7.385	7.437	7.437	7.489	7.489	7.541	7.541
167.5	7.697	7.697	7.801	7.801	7.853	7.853	7.905	7.905	7.905	7.957
170.0	8.113	8.061	8.113	8.166	8.166	8.166	8.217	8.166	8.217	8.217
172.5	8.321	8.321	8.374	8.374	8.374	8.321	8.321	8.321	8.321	8.374
175.0	8.529	8.477	8.425	8.425	8.425	8.374	8.321	8.269	8.321	8.374
177.5	8.581	8.529	8.477	8.425	8.374	8.321	8.269	8.269	8.269	8.374
180.0	8.443	8.443	8.443	8.443	8.443	8.443	8.443	8.443	8.443	8.443

**Vert.
Angles**

Horizontal 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	616.021	616.021	616.021	616.021	616.021	616.021	616.021	616.021	616.021	616.021
2.5	615.460	615.200	611.976	606.463	610.987	619.204	617.228	610.207	623.313	619.516
5.0	609.687	615.252	609.271	599.545	608.959	614.575	615.720	609.115	618.996	617.644
7.5	606.671	611.871	601.574	594.865	606.098	608.959	612.444	606.254	614.888	614.835
10.0	600.638	604.330	593.148	591.068	600.949	604.278	608.959	601.314	610.519	612.184
12.5	600.898	596.841	587.791	585.451	594.500	598.453	604.591	598.765	606.411	612.963
15.0	594.761	589.508	580.666	577.962	586.284	590.548	599.494	594.345	602.146	607.607
17.5	579.106	578.222	572.137	574.842	577.130	583.943	592.420	589.404	594.709	604.226
20.0	563.504	566.989	567.197	569.641	563.712	573.438	583.787	584.151	585.400	597.309
22.5	555.443	556.223	557.159	559.812	552.999	563.972	575.258	571.357	574.062	589.456
25.0	552.999	547.070	548.422	552.062	538.020	553.779	562.568	556.847	562.672	579.054

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L15-850-T5-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.5	534.484	533.964	538.696	542.233	527.723	541.869	545.509	544.417	548.682	565.533
30.0	513.785	521.690	528.711	522.626	515.189	526.995	531.467	533.184	537.136	551.438
32.5	507.284	508.636	507.180	509.156	497.871	508.168	518.985	519.297	525.486	538.176
35.0	491.369	491.525	485.284	496.674	482.476	492.045	502.863	501.511	509.988	522.054
37.5	477.015	475.975	462.609	482.008	466.353	474.987	485.700	483.412	491.577	505.827
40.0	459.384	460.009	453.871	452.935	451.531	453.560	459.176	461.933	466.302	482.684
42.5	432.081	434.785	441.962	430.000	432.965	422.303	424.071	422.771	435.565	456.056
45.0	411.746	421.003	417.414	416.218	410.965	387.822	398.067	396.299	401.760	420.587
47.5	389.382	393.335	391.566	389.746	386.418	366.602	373.780	371.959	378.096	391.826
50.0	368.007	365.511	366.602	350.376	352.976	346.944	341.379	334.982	347.308	365.095
52.5	326.245	339.767	342.055	321.512	321.148	309.394	302.945	300.761	307.730	324.632
55.0	254.058	298.577	311.474	292.648	284.275	274.237	274.081	275.277	281.414	287.291
57.5	207.043	234.815	267.892	267.736	249.065	246.413	247.245	248.129	252.549	260.819
60.0	181.143	179.999	204.494	223.790	221.501	215.260	218.745	219.577	224.466	231.383
62.5	153.683	148.066	147.754	186.916	188.060	184.368	188.528	190.452	193.521	192.272
65.0	124.091	119.410	121.490	129.396	155.607	153.579	157.584	158.571	161.224	147.286
67.5	96.682	93.042	92.730	97.203	121.490	120.710	123.310	125.235	132.516	113.845
70.0	69.119	67.714	67.662	70.263	77.596	89.713	87.685	90.390	98.139	86.177
72.5	46.339	46.547	46.859	49.355	49.355	59.497	54.400	54.712	61.005	55.701
75.0	25.952	30.321	31.725	32.973	30.581	35.729	35.418	36.197	39.266	35.573
77.5	16.538	17.839	19.711	20.855	20.907	20.075	23.196	22.311	21.947	23.560
80.0	11.390	12.898	12.482	12.222	13.938	13.574	15.394	14.770	13.834	14.146
82.5	6.709	7.229	7.385	8.009	8.425	8.061	8.842	8.581	8.374	7.957
85.0	3.588	3.745	3.745	3.588	3.848	3.693	4.108	4.265	3.953	4.161
87.5	1.300	1.248	1.457	1.560	1.457	1.196	1.144	1.144	0.884	1.092
90.0	0.728	0.728	0.728	0.676	0.676	0.676	0.624	0.520	0.520	0.520
92.5	0.728	0.728	0.728	0.780	0.728	0.728	0.676	0.572	0.520	0.520
95.0	0.780	0.780	0.780	0.780	0.780	0.780	0.728	0.624	0.572	0.572
97.5	0.832	0.832	0.884	0.832	0.832	0.780	0.780	0.624	0.624	0.572
100.0	0.884	0.936	0.936	0.936	0.884	0.884	0.832	0.676	0.624	0.624
102.5	0.936	0.936	0.988	0.936	0.936	0.936	0.884	0.676	0.676	0.676
105.0	0.936	0.988	0.988	0.988	0.988	0.988	0.936	0.780	0.728	0.728
107.5	0.988	1.040	0.988	1.040	1.040	0.988	0.936	0.780	0.728	0.728
110.0	0.988	1.040	1.040	1.040	1.040	0.988	0.936	0.832	0.780	0.780
112.5	1.040	1.040	1.040	1.092	1.040	1.040	0.988	0.832	0.832	0.780
115.0	1.040	1.040	1.040	1.092	1.092	1.040	1.040	0.884	0.832	0.780
117.5	1.040	1.040	1.092	1.092	1.040	1.040	1.040	0.884	0.884	0.832
120.0	1.040	1.092	1.092	1.092	1.040	1.040	1.040	0.936	0.884	0.832
122.5	1.092	1.144	1.092	1.144	1.092	1.092	1.092	0.988	0.936	0.936
125.0	1.196	1.144	1.196	1.196	1.196	1.196	1.196	1.092	1.040	0.988
127.5	1.352	1.300	1.352	1.352	1.352	1.300	1.300	1.144	1.144	1.092
130.0	1.560	1.560	1.560	1.560	1.612	1.508	1.508	1.300	1.248	1.248
132.5	1.820	1.716	1.768	1.768	1.768	1.716	1.716	1.457	1.457	1.352
135.0	2.028	2.028	2.028	1.976	1.976	1.925	1.872	1.612	1.612	1.560
137.5	2.288	2.340	2.288	2.236	2.288	2.236	2.133	1.820	1.768	1.768
140.0	2.601	2.601	2.496	2.601	2.496	2.496	2.393	2.080	2.080	1.976
142.5	2.912	2.964	2.912	2.861	2.809	2.756	2.704	2.444	2.393	2.340
145.0	3.277	3.277	3.224	3.224	3.172	3.172	3.069	2.809	2.652	2.652
147.5	3.745	3.693	3.640	3.640	3.588	3.485	3.432	3.224	3.120	3.069
150.0	4.161	4.161	4.108	4.056	4.005	3.953	3.848	3.745	3.693	3.537
152.5	4.733	4.681	4.577	4.577	4.577	4.421	4.369	4.473	4.316	4.213
155.0	5.409	5.305	5.357	5.253	5.253	4.992	4.992	5.357	5.149	5.097
157.5	6.033	5.981	5.981	5.929	5.877	5.721	5.669	6.345	6.189	5.877
160.0	6.605	6.553	6.553	6.501	6.501	6.397	6.345	6.969	6.865	6.605
162.5	7.125	7.073	7.073	7.073	7.073	6.969	7.021	7.697	7.489	7.281
165.0	7.645	7.593	7.541	7.593	7.541	7.541	7.489	8.166	7.957	7.801

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L15-850-T5-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

167.5	7.905	7.957	7.905	7.957	7.957	7.957	7.957	8.425	8.269	8.113
170.0	8.217	8.269	8.269	8.269	8.269	8.374	8.321	8.529	8.321	8.269
172.5	8.321	8.374	8.425	8.477	8.477	8.477	8.529	8.477	8.321	8.217
175.0	8.374	8.425	8.477	8.529	8.581	8.634	8.634	8.425	8.269	8.217
177.5	8.374	8.425	8.529	8.581	8.581	8.685	8.737	8.581	8.477	8.321
180.0	8.443	8.443	8.443	8.443	8.443	8.443	8.443	8.443	8.443	8.443

Vert. Angles **Horizontal Angles**

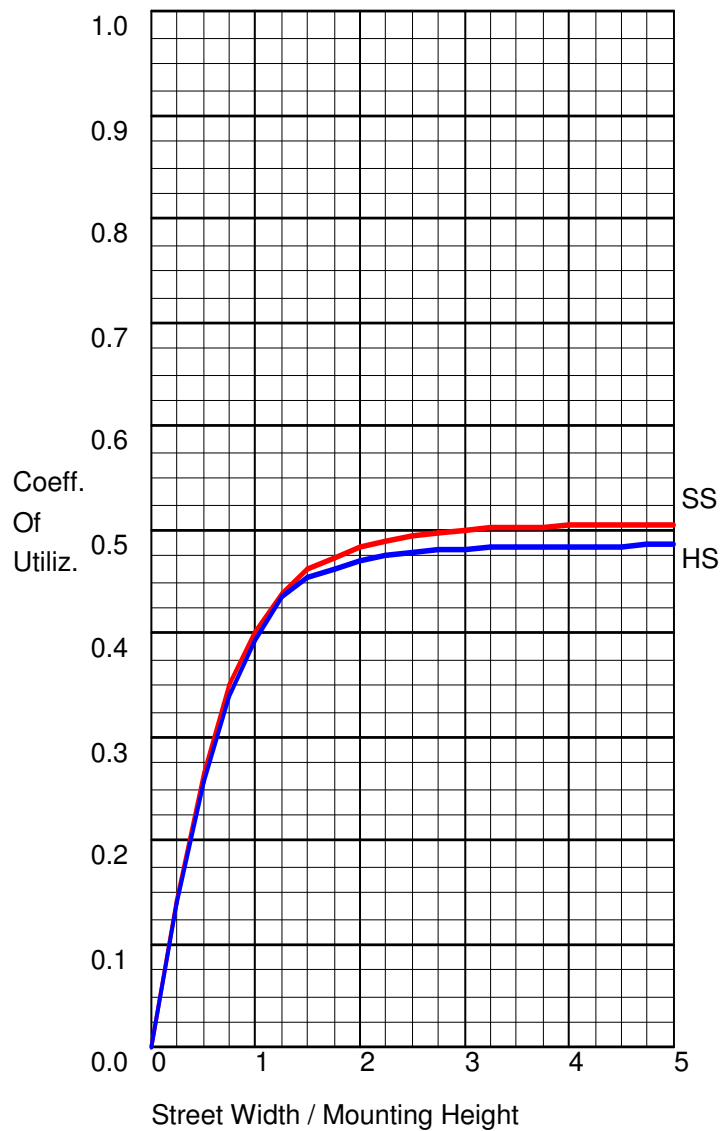
	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	616.021	616.021	616.021	616.021	616.021	616.021	616.021
2.5	621.389	614.107	618.580	611.663	617.696	609.687	621.233
5.0	621.961	614.212	617.696	611.611	618.736	609.999	622.013
7.5	620.557	612.860	615.408	611.508	618.685	610.207	622.325
10.0	617.749	609.791	615.356	611.351	616.968	609.583	621.909
12.5	613.796	606.203	613.275	610.207	613.744	608.907	619.569
15.0	608.543	601.886	610.363	608.855	609.011	608.231	615.408
17.5	599.545	596.529	605.735	607.503	601.522	607.139	607.867
20.0	592.525	588.884	597.829	602.874	595.541	602.510	602.458
22.5	583.527	580.511	596.477	591.588	591.744	596.841	599.962
25.0	573.697	569.641	586.804	582.643	589.144	584.307	584.827
27.5	565.117	557.367	574.738	570.213	577.026	577.182	571.669
30.0	553.414	546.862	561.164	557.367	558.355	566.521	567.248
32.5	538.436	541.089	538.957	548.162	541.453	545.769	548.370
35.0	523.718	529.595	528.919	535.056	502.499	478.732	487.781
37.5	507.856	513.212	514.877	486.220	434.681	412.162	411.746
40.0	490.225	494.906	485.232	407.481	387.926	386.209	385.950
42.5	465.106	474.206	429.688	366.342	370.192	374.508	364.002
45.0	441.910	431.456	362.650	350.636	356.981	364.106	358.125
47.5	399.367	371.751	333.109	338.154	346.840	350.117	355.265
50.0	369.411	316.624	317.300	327.493	328.637	328.845	327.389
52.5	326.868	302.581	301.385	306.742	310.954	306.898	302.529
55.0	266.904	275.277	283.234	289.111	287.239	288.851	283.494
57.5	220.149	245.009	265.656	266.436	262.483	266.332	259.987
60.0	197.734	212.036	235.596	242.772	240.432	240.848	238.976
62.5	173.914	189.464	201.322	215.936	213.856	214.324	218.485
65.0	149.679	162.316	168.193	189.413	184.940	184.471	180.883
67.5	123.987	130.488	139.537	154.203	154.359	153.579	153.787
70.0	98.243	104.432	108.593	113.117	119.150	118.526	109.788
72.5	66.830	75.879	80.508	77.648	70.418	70.887	69.846
75.0	40.982	50.188	47.587	44.258	45.975	48.263	49.980
77.5	27.772	24.912	27.668	27.980	29.020	29.748	30.840
80.0	15.498	15.291	16.122	16.330	15.030	14.198	14.770
82.5	8.425	8.477	8.581	8.166	8.321	8.113	6.969
85.0	3.900	3.953	3.588	3.693	3.432	3.537	3.900
87.5	1.092	1.040	0.884	0.884	0.832	0.832	0.884
90.0	0.468	0.468	0.416	0.364	0.364	0.364	0.364
92.5	0.520	0.468	0.416	0.416	0.364	0.364	0.312
95.0	0.520	0.520	0.468	0.416	0.416	0.364	0.364
97.5	0.572	0.520	0.468	0.468	0.416	0.364	0.364
100.0	0.572	0.572	0.520	0.468	0.416	0.416	0.416
102.5	0.624	0.572	0.572	0.520	0.468	0.416	0.416
105.0	0.676	0.624	0.572	0.572	0.468	0.468	0.468
107.5	0.676	0.624	0.624	0.520	0.520	0.520	0.520
110.0	0.728	0.728	0.624	0.624	0.572	0.520	0.520
112.5	0.728	0.728	0.676	0.624	0.572	0.572	0.520

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L15-850-T5-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

115.0	0.728	0.728	0.728	0.624	0.624	0.572	0.572
117.5	0.780	0.728	0.780	0.676	0.624	0.624	0.624
120.0	0.832	0.780	0.780	0.728	0.676	0.676	0.676
122.5	0.884	0.832	0.832	0.728	0.728	0.728	0.728
125.0	0.936	0.936	0.884	0.832	0.780	0.832	0.780
127.5	1.040	0.988	0.988	0.884	0.884	0.884	0.884
130.0	1.144	1.144	1.092	1.092	1.040	0.988	1.040
132.5	1.352	1.248	1.196	1.196	1.196	1.144	1.144
135.0	1.508	1.457	1.404	1.404	1.352	1.352	1.300
137.5	1.664	1.664	1.612	1.560	1.560	1.560	1.560
140.0	1.925	1.872	1.820	1.820	1.820	1.768	1.768
142.5	2.236	2.184	2.133	2.080	2.080	2.028	2.028
145.0	2.601	2.496	2.496	2.444	2.393	2.444	2.393
147.5	2.912	2.861	2.861	2.809	2.756	2.756	2.756
150.0	3.485	3.380	3.277	3.277	3.224	3.224	3.224
152.5	4.056	4.005	3.953	3.797	3.797	3.693	3.797
155.0	4.837	4.733	4.681	4.524	4.524	4.524	4.524
157.5	5.669	5.565	5.460	5.305	5.305	5.409	5.305
160.0	6.449	6.345	6.241	6.033	6.033	5.981	6.033
162.5	7.073	6.917	6.865	6.761	6.709	6.657	6.709
165.0	7.645	7.541	7.437	7.281	7.281	7.229	7.229
167.5	7.957	7.905	7.801	7.697	7.645	7.645	7.645
170.0	8.061	8.061	7.957	7.905	7.905	7.905	7.957
172.5	8.113	8.113	8.061	8.009	8.009	8.009	8.061
175.0	8.113	8.113	8.113	8.113	8.113	8.113	8.166
177.5	8.217	8.217	8.217	8.166	8.217	8.217	8.217
180.0	8.443	8.443	8.443	8.443	8.443	8.443	8.443

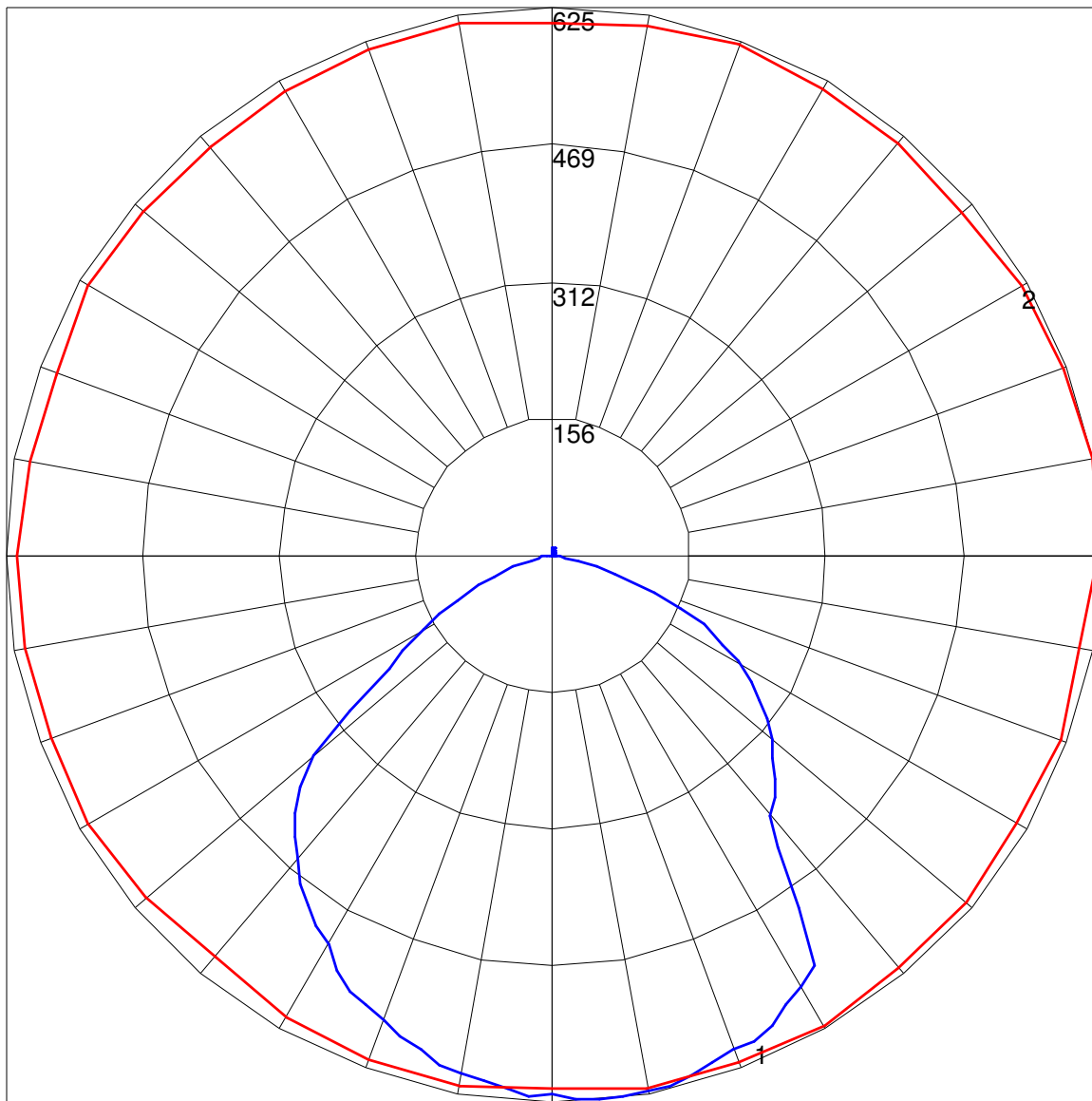
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

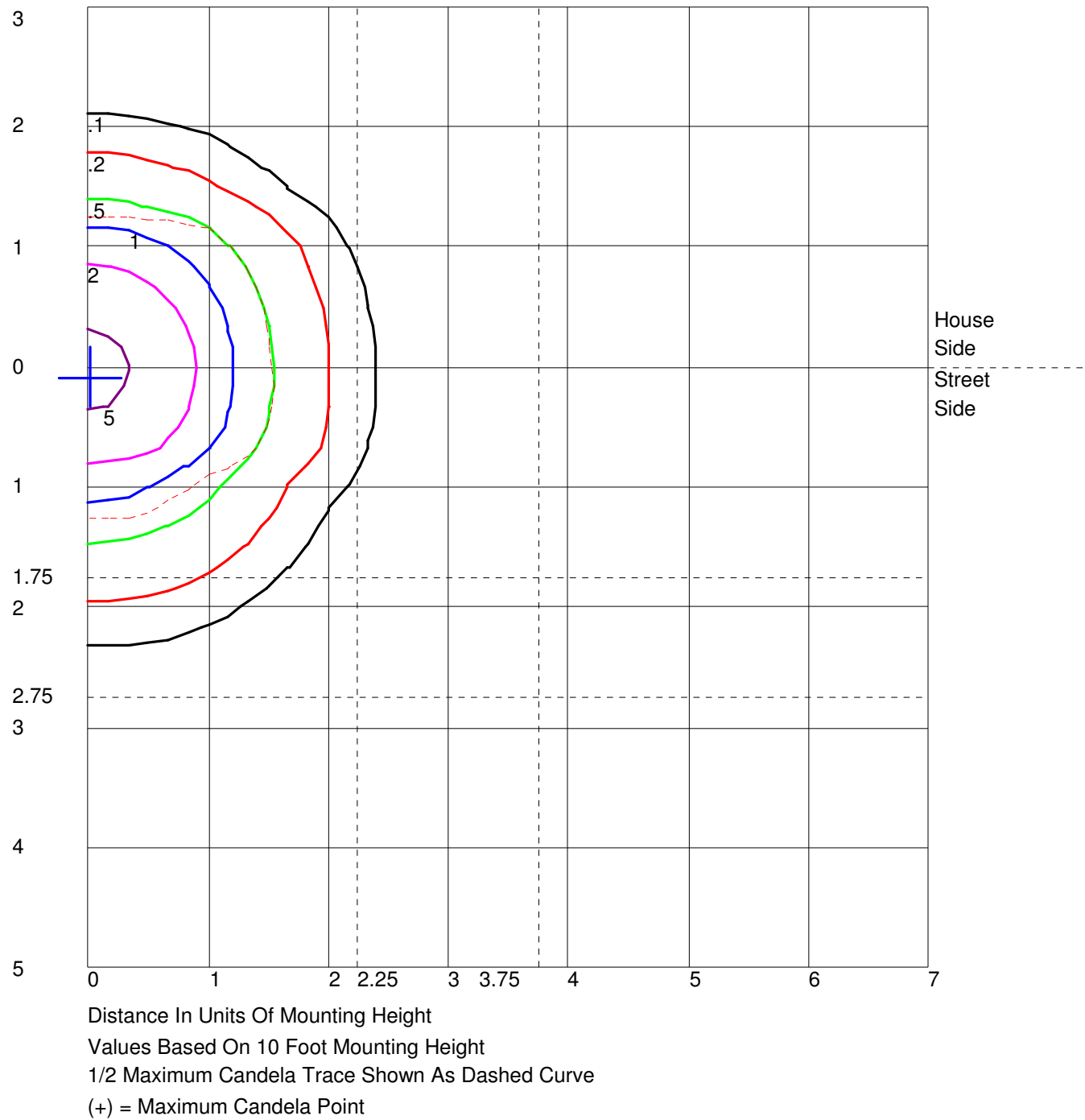
	Lumens	Percent Of Luminaire
Downward Street Side	821.1	50.7
Downward House Side	788.4	48.6
Downward Total	1609.5	99.3
Upward Street Side	5.2	0.3
Upward House Side	6.3	0.4
Upward Total	11.5	0.7
Total Flux	1621.0	100.0

POLAR GRAPH

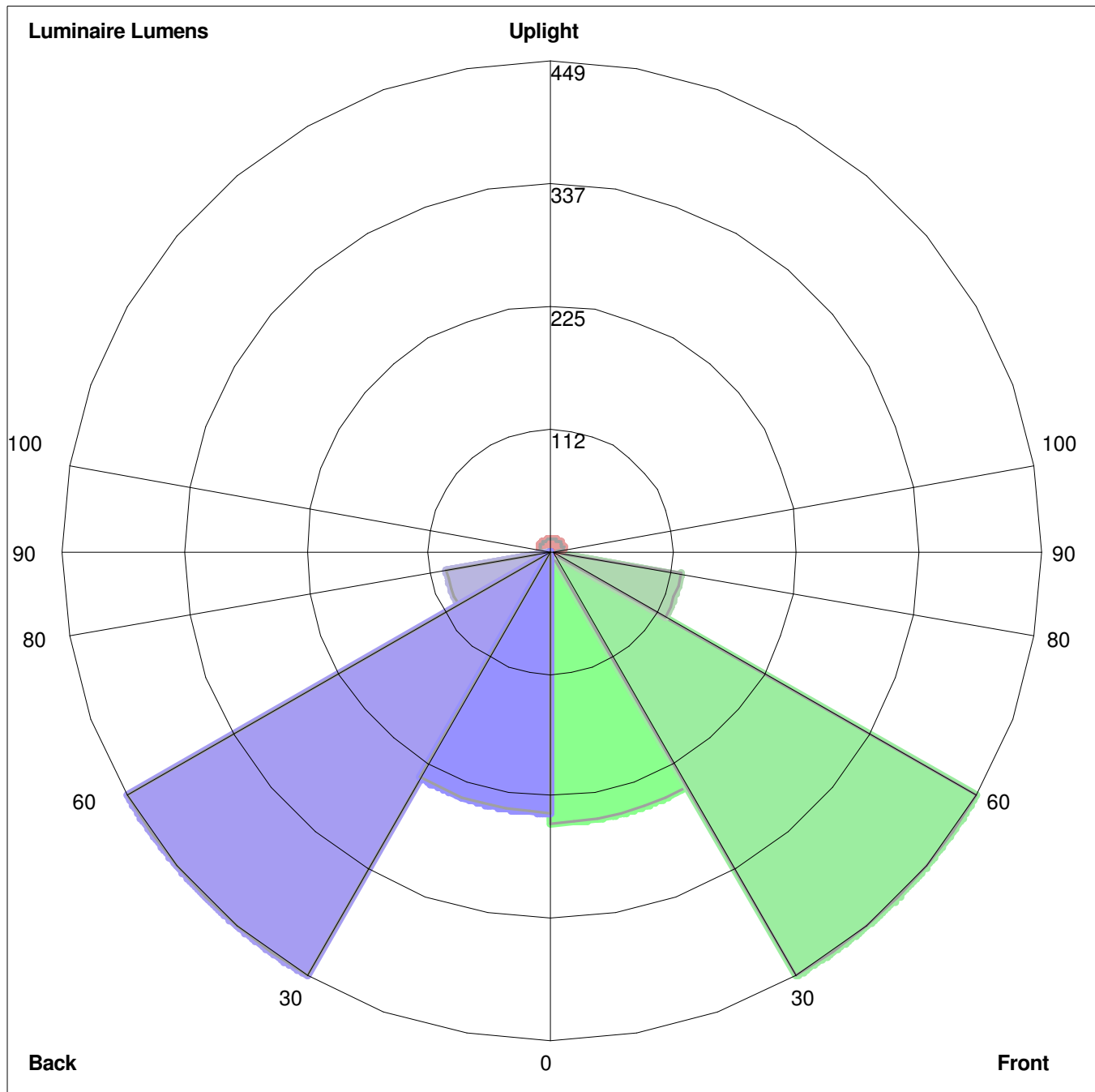


Maximum Candela = 624.769 Located At Horizontal Angle = 10, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=248.7, Medium=449.1, High=120.0, Very High=3.3
Back: Low=239.7, Medium=448.3, High=97.4, Very High=3.1
Uplight: Low=0.7, High=10.8

BUG Rating : B1-U2-G0