



IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L20-840-T5-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM Q2016030501 scaled from 5K
[TESTLAB] QSSI
[ISSUEDATE] 04/20/2026
[MANUFAC] H.E. WILLIAMS, INC.
[MORE] CARTHAGE, MO. 64836
[LUMCAT] WPTZS-L20-840-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	2334
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	23.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	899.668
Maximum Candela Angle	10H 5V
Maximum Candela (<90 Degrees Vertical)	899.668
Maximum Candela Angle (<90 Degrees Vertical)	10H 5V
Maximum Candela At 90 Degrees Vertical	1.123 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	33.177 (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)	358.2	N.A.	15.3
FM - Front-Medium (30-60)	646.8	N.A.	27.7
FH - Front-High (60-80)	172.7	N.A.	7.4
FVH - Front-Very High (80-90)	4.8	N.A.	0.2
BL - Back-Low (0-30)	345.1	N.A.	14.8
BM - Back-Medium (30-60)	645.5	N.A.	27.7
BH - Back-High (60-80)	140.3	N.A.	6.0
BVH - Back-Very High (80-90)	4.4	N.A.	0.2
UL - Uplight-Low (90-100)	0.9	N.A.	0.0
UH - Uplight-High (100-180)	15.6	N.A.	0.7
Total	2334.3	N.A.	100.0
BUG Rating	B1-U2-G0		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0.0	887.070	887.070	887.070	887.070	887.070	887.070	887.070	887.070	887.070	887.070
2.5	894.575	898.320	888.359	888.509	880.795	885.513	883.866	895.323	886.338	876.526
5.0	895.699	899.668	892.778	890.007	879.073	885.888	884.015	893.826	882.742	874.130
7.5	896.148	897.496	892.254	889.108	881.844	884.165	884.465	889.632	879.597	870.685
10.0	895.548	898.169	884.914	884.315	879.222	880.720	882.218	884.015	876.152	867.090
12.5	892.179	893.452	883.492	878.248	874.953	875.178	878.698	878.024	871.508	863.271
15.0	886.187	885.513	878.773	875.627	870.086	865.218	872.781	870.985	865.667	857.878
17.5	875.328	874.728	875.852	873.755	865.592	854.883	865.966	863.570	857.729	851.512
20.0	867.539	865.367	869.786	866.191	856.680	845.297	857.878	855.781	848.592	843.873
22.5	863.945	865.592	864.993	857.354	845.371	837.358	847.693	846.495	837.058	838.332
25.0	842.151	856.755	859.451	847.918	834.962	825.825	831.367	836.684	821.631	829.869
27.5	823.204	833.689	841.777	837.957	820.583	811.147	820.583	821.482	804.331	817.811
30.0	816.838	820.358	821.482	819.534	806.354	796.617	804.256	799.688	788.305	802.160
32.5	789.653	799.239	799.014	806.877	792.873	783.961	787.330	787.181	772.578	786.956
35.0	702.404	707.871	762.392	792.423	778.269	766.511	768.159	769.657	754.453	763.291
37.5	592.914	608.116	662.937	745.691	763.965	749.211	743.370	743.894	732.211	737.079
40.0	555.767	558.388	556.441	639.496	746.590	738.652	727.343	721.202	710.268	706.748
42.5	524.164	538.243	540.490	548.279	674.320	709.519	701.805	703.528	688.100	681.660
45.0	515.700	518.622	519.670	520.194	558.014	675.893	676.567	685.029	653.351	648.108
47.5	511.582	492.410	502.744	497.877	496.529	634.778	645.412	638.147	600.477	592.240
50.0	471.440	470.316	478.030	479.528	472.788	534.348	580.856	587.147	569.397	558.239
52.5	435.642	444.254	453.241	449.872	453.167	459.308	535.098	552.173	540.490	529.031
55.0	408.232	416.545	417.444	419.166	427.404	420.664	499.674	511.132	501.471	489.714
57.5	374.381	385.090	395.425	398.571	402.016	391.905	433.095	452.342	438.862	435.193
60.0	344.125	350.041	357.156	362.474	367.416	361.126	337.834	401.866	403.364	387.711
62.5	314.618	316.714	319.935	325.552	329.671	312.596	292.151	365.544	358.429	344.574
65.0	260.471	272.754	277.846	292.824	290.652	270.282	258.524	320.834	309.076	296.494
67.5	221.453	228.044	234.559	237.929	232.313	233.885	221.004	255.529	255.529	242.423
70.0	158.095	179.739	185.805	194.792	193.070	192.770	178.690	175.995	191.722	192.246
72.5	100.579	105.897	116.381	138.474	147.835	149.108	131.959	118.927	136.227	127.166
75.0	71.971	73.469	79.684	77.812	103.799	101.178	83.504	72.570	87.024	80.957
77.5	44.410	44.935	46.208	51.151	54.146	59.838	52.649	48.380	52.798	52.349
80.0	21.269	21.868	26.436	30.256	32.503	31.978	33.177	29.657	32.877	31.903
82.5	10.035	12.582	13.780	15.203	17.899	17.449	17.000	16.401	17.000	18.873
85.0	5.616	5.467	5.916	6.141	7.189	7.489	8.462	8.088	8.762	9.512
87.5	1.273	1.199	1.348	1.348	2.172	2.022	2.846	2.921	3.370	3.894
90.0	0.525	0.449	0.525	0.525	0.525	0.449	0.525	0.525	0.599	0.899
92.5	0.449	0.449	0.449	0.449	0.525	0.525	0.525	0.525	0.599	0.899
95.0	0.525	0.525	0.525	0.525	0.599	0.599	0.599	0.599	0.674	0.899
97.5	0.525	0.525	0.525	0.525	0.599	0.599	0.599	0.674	0.599	0.974
100.0	0.599	0.599	0.599	0.599	0.599	0.674	0.674	0.674	0.749	0.974
102.5	0.599	0.599	0.599	0.674	0.749	0.749	0.749	0.749	0.749	1.048
105.0	0.674	0.674	0.674	0.749	0.749	0.749	0.824	0.824	0.824	1.048
107.5	0.749	0.749	0.749	0.749	0.749	0.824	0.824	0.899	0.899	1.123
110.0	0.749	0.749	0.749	0.824	0.824	0.824	0.899	0.899	0.974	1.123
112.5	0.749	0.824	0.824	0.899	0.824	0.899	0.974	0.974	1.048	1.199
115.0	0.824	0.824	0.899	0.899	0.974	0.899	0.974	0.974	1.048	1.199
117.5	0.899	0.899	0.899	0.974	0.899	1.048	1.048	1.048	1.123	1.273
120.0	0.974	0.974	0.974	0.974	1.048	1.048	1.048	1.048	1.048	1.273
122.5	1.048	0.974	1.048	1.048	1.048	1.123	1.123	1.123	1.199	1.348
125.0	1.123	1.123	1.123	1.199	1.199	1.199	1.199	1.273	1.273	1.422
127.5	1.273	1.273	1.273	1.348	1.348	1.348	1.348	1.422	1.498	1.647
130.0	1.498	1.498	1.498	1.498	1.498	1.573	1.573	1.573	1.647	1.872

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CANDELA TABULATION - (Cont.)

132.5	1.647	1.647	1.647	1.647	1.722	1.798	1.872	1.872	1.947	2.172
135.0	1.872	1.947	1.947	1.947	2.022	2.022	2.172	2.172	2.172	2.472
137.5	2.247	2.247	2.247	2.321	2.321	2.321	2.396	2.472	2.546	2.771
140.0	2.546	2.546	2.546	2.621	2.696	2.696	2.771	2.846	2.921	3.146
142.5	2.921	2.995	2.995	3.071	3.071	3.146	3.146	3.220	3.295	3.595
145.0	3.445	3.520	3.445	3.520	3.595	3.595	3.669	3.820	3.894	4.119
147.5	3.969	4.119	4.045	4.045	4.119	4.269	4.344	4.419	4.493	4.643
150.0	4.643	4.643	4.718	4.793	4.793	4.868	5.018	5.167	5.392	5.167
152.5	5.467	5.392	5.467	5.616	5.767	5.916	5.992	6.216	6.366	5.916
155.0	6.515	6.515	6.740	6.666	6.815	6.965	7.265	7.564	7.714	6.740
157.5	7.639	7.639	7.714	7.788	8.088	8.313	8.538	8.687	9.062	7.639
160.0	8.687	8.687	8.837	8.912	9.212	9.436	9.661	9.886	10.186	8.613
162.5	9.661	9.661	9.811	9.886	10.110	10.335	10.560	10.785	11.083	9.512
165.0	10.409	10.560	10.634	10.785	10.934	11.083	11.308	11.533	11.833	10.335
167.5	11.009	11.083	11.159	11.308	11.459	11.683	11.833	12.058	12.282	11.083
170.0	11.459	11.383	11.533	11.533	11.758	11.908	12.058	12.282	12.507	11.683
172.5	11.608	11.683	11.683	11.758	11.908	11.982	12.133	12.357	12.432	11.982
175.0	11.758	11.833	11.833	11.833	11.982	12.058	12.207	12.282	12.357	12.282
177.5	11.833	11.908	11.982	11.982	12.133	12.207	12.282	12.357	12.432	12.432
180.0	12.159	12.159	12.159	12.159	12.159	12.159	12.159	12.159	12.159	12.159

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	887.070	887.070	887.070	887.070	887.070	887.070	887.070	887.070	887.070	887.070
2.5	893.976	891.280	886.187	882.967	885.439	881.768	880.421	878.548	889.183	890.906
5.0	887.460	885.588	881.844	878.548	880.720	883.791	870.460	875.778	881.619	883.341
7.5	881.469	879.972	876.452	873.157	877.650	878.099	859.676	869.561	874.579	872.258
10.0	876.301	873.306	869.261	865.892	871.884	867.539	852.711	861.099	867.539	866.716
12.5	869.861	862.897	861.324	855.183	863.196	851.064	854.807	854.059	857.504	858.552
15.0	862.897	857.579	854.059	843.574	848.592	841.328	850.390	845.522	837.358	843.574
17.5	855.706	846.944	845.522	845.971	843.350	828.671	831.966	828.296	829.270	832.341
20.0	842.975	834.662	828.371	846.420	822.305	811.296	808.975	814.142	826.275	817.063
22.5	828.521	828.446	811.296	834.737	808.900	804.556	797.816	797.291	821.032	802.834
25.0	811.071	808.824	795.569	815.790	799.239	791.150	798.640	780.815	813.168	791.150
27.5	792.199	790.102	787.106	785.908	786.282	778.494	773.701	767.934	760.295	770.780
30.0	776.772	769.432	770.106	767.260	774.075	752.207	737.978	743.220	731.012	740.749
32.5	762.917	750.859	756.851	756.700	751.832	730.189	737.603	731.163	715.136	725.096
35.0	744.943	732.361	739.625	740.973	712.664	719.479	719.479	708.621	713.563	700.382
37.5	724.272	712.964	724.946	709.594	684.880	698.210	690.496	682.034	694.541	680.312
40.0	704.127	695.364	703.154	675.443	672.148	672.073	655.447	659.417	654.624	651.927
42.5	681.435	667.729	673.196	662.712	665.034	637.998	633.654	633.280	606.694	626.465
45.0	650.879	642.491	650.805	634.329	628.936	608.341	598.904	602.424	603.623	598.530
47.5	597.631	611.861	620.324	600.702	587.970	578.085	569.023	566.327	555.243	562.208
50.0	555.468	564.380	567.375	573.891	558.539	548.578	537.868	513.978	505.665	515.925
52.5	521.318	526.260	509.859	543.860	533.525	508.211	455.413	416.096	412.651	419.990
55.0	485.370	490.237	474.286	497.951	492.185	433.320	362.773	331.842	320.310	328.173
57.5	428.752	444.029	446.801	438.488	432.946	337.011	304.583	291.477	294.922	294.172
60.0	385.989	382.994	404.263	398.721	334.089	280.842	269.234	255.004	248.939	248.489
62.5	347.121	340.306	357.230	342.702	242.797	245.942	228.268	217.933	214.638	212.915
65.0	300.389	298.740	301.212	233.810	209.995	203.105	189.400	177.567	174.422	174.871
67.5	244.370	245.343	239.876	184.831	168.056	155.549	150.157	139.073	136.002	132.033
70.0	187.003	188.126	172.849	144.615	128.813	112.187	109.041	99.905	98.407	100.504
72.5	130.236	134.055	114.584	103.799	93.090	78.486	72.495	68.900	65.080	67.402
75.0	82.380	89.271	76.164	74.817	63.657	53.397	42.913	38.869	35.798	37.521
77.5	52.274	45.834	45.683	46.732	39.768	30.781	26.587	26.137	24.340	25.014

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CANDELA TABULATION - (Cont.)

80.0	31.754	28.459	28.159	26.137	22.842	20.969	19.173	17.899	17.375	16.850
82.5	17.075	17.824	17.000	15.577	13.406	11.982	10.110	9.736	9.136	9.136
85.0	8.762	8.538	7.788	7.863	6.515	6.291	5.841	5.467	5.992	5.018
87.5	3.146	3.820	3.595	3.146	3.071	2.396	2.172	2.022	1.947	2.321
90.0	0.824	0.974	1.048	0.974	1.048	0.974	1.123	1.048	1.048	1.048
92.5	0.899	0.974	0.974	0.974	0.974	1.048	1.048	1.123	1.048	1.048
95.0	0.974	0.974	1.048	1.048	1.048	1.123	1.123	1.123	1.199	1.123
97.5	0.974	1.048	1.048	1.123	1.123	1.123	1.199	1.199	1.199	1.273
100.0	0.974	1.048	1.123	1.123	1.199	1.123	1.273	1.273	1.273	1.273
102.5	1.048	1.123	1.199	1.199	1.273	1.273	1.273	1.273	1.348	1.348
105.0	1.048	1.199	1.199	1.273	1.273	1.273	1.348	1.348	1.348	1.348
107.5	1.123	1.199	1.273	1.348	1.348	1.348	1.422	1.422	1.422	1.422
110.0	1.199	1.273	1.273	1.348	1.348	1.422	1.348	1.422	1.422	1.422
112.5	1.199	1.348	1.348	1.348	1.348	1.422	1.422	1.422	1.422	1.498
115.0	1.273	1.273	1.348	1.348	1.422	1.422	1.422	1.422	1.498	1.498
117.5	1.273	1.273	1.348	1.348	1.422	1.422	1.498	1.422	1.422	1.422
120.0	1.273	1.348	1.348	1.422	1.422	1.422	1.422	1.422	1.498	1.498
122.5	1.348	1.422	1.422	1.498	1.498	1.498	1.498	1.498	1.573	1.573
125.0	1.422	1.498	1.573	1.573	1.573	1.647	1.647	1.647	1.647	1.647
127.5	1.647	1.722	1.722	1.798	1.798	1.872	1.872	1.947	1.872	1.872
130.0	1.872	2.022	2.022	2.022	2.172	2.172	2.247	2.172	2.247	2.247
132.5	2.247	2.247	2.321	2.321	2.396	2.396	2.546	2.546	2.472	2.546
135.0	2.546	2.621	2.696	2.696	2.771	2.771	2.846	2.921	2.921	2.921
137.5	2.921	2.995	3.071	3.146	3.146	3.220	3.220	3.220	3.295	3.295
140.0	3.295	3.370	3.520	3.520	3.520	3.669	3.669	3.745	3.745	3.745
142.5	3.669	3.820	3.969	4.045	4.045	4.119	4.194	4.194	4.194	4.269
145.0	4.269	4.344	4.493	4.493	4.568	4.718	4.718	4.793	4.718	4.793
147.5	4.718	4.868	4.942	5.093	5.167	5.242	5.318	5.318	5.392	5.392
150.0	5.318	5.467	5.542	5.692	5.841	5.916	5.992	5.992	5.992	6.066
152.5	5.992	6.216	6.291	6.441	6.591	6.815	6.815	6.890	6.890	6.815
155.0	6.890	7.115	7.189	7.340	7.489	7.714	7.714	7.714	7.788	7.788
157.5	7.788	8.013	8.088	8.313	8.388	8.388	8.613	8.538	8.613	8.613
160.0	8.687	8.912	8.912	9.136	9.212	9.136	9.361	9.361	9.436	9.436
162.5	9.661	9.661	9.811	9.886	10.035	9.961	10.110	10.110	10.186	10.186
165.0	10.409	10.485	10.560	10.634	10.709	10.709	10.785	10.785	10.859	10.859
167.5	11.083	11.083	11.234	11.234	11.308	11.308	11.383	11.383	11.383	11.459
170.0	11.683	11.608	11.683	11.758	11.758	11.758	11.833	11.758	11.833	11.833
172.5	11.982	11.982	12.058	12.058	12.058	11.982	11.982	11.982	11.982	12.058
175.0	12.282	12.207	12.133	12.133	12.133	12.058	11.982	11.908	11.982	12.058
177.5	12.357	12.282	12.207	12.133	12.058	11.982	11.908	11.908	11.908	12.058
180.0	12.159	12.159	12.159	12.159	12.159	12.159	12.159	12.159	12.159	12.159

**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	887.070	887.070	887.070	887.070	887.070	887.070	887.070	887.070	887.070	887.070
2.5	886.262	885.888	881.245	873.306	879.821	891.654	888.808	878.698	897.570	892.103
5.0	877.949	885.962	877.351	863.345	876.901	884.989	886.636	877.126	891.355	889.407
7.5	873.606	881.094	866.266	856.605	872.781	876.901	881.919	873.006	885.439	885.363
10.0	864.918	870.235	854.133	851.138	865.367	870.160	876.901	865.892	879.147	881.544
12.5	865.293	859.451	846.420	843.050	856.081	861.773	870.610	862.222	873.231	882.667
15.0	856.456	848.891	836.160	832.265	844.249	850.390	863.271	855.857	867.090	874.953
17.5	833.913	832.640	823.878	827.772	831.068	840.878	853.085	848.742	856.380	870.086
20.0	811.446	816.463	816.763	820.283	811.745	825.750	840.653	841.178	842.975	860.125
22.5	799.837	800.961	802.309	806.129	796.318	812.120	828.371	822.755	826.649	848.817
25.0	796.318	787.780	789.727	794.970	774.749	797.441	810.097	801.860	810.248	833.838

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L20-840-T5-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.5	769.657	768.907	775.722	780.815	759.921	780.292	785.534	783.961	790.102	814.367
30.0	739.850	751.233	761.344	752.581	741.872	758.872	765.313	767.785	773.476	794.071
32.5	730.489	732.436	730.339	733.185	716.934	731.762	747.339	747.788	756.700	774.974
35.0	707.571	707.796	698.809	715.211	694.766	708.545	724.123	722.176	734.383	751.758
37.5	686.902	685.404	666.157	694.091	671.549	683.981	699.409	696.114	707.871	728.391
40.0	661.514	662.413	653.575	652.227	650.205	653.126	661.214	665.183	671.474	695.065
42.5	622.196	626.090	636.425	619.200	623.469	608.116	610.663	608.790	627.213	656.721
45.0	592.914	606.244	601.077	599.354	591.790	558.463	573.217	570.670	578.534	605.645
47.5	560.710	566.402	563.855	561.234	556.441	527.907	538.243	535.621	544.459	564.230
50.0	529.930	526.336	527.907	504.542	508.286	499.599	491.585	482.374	500.123	525.736
52.5	469.793	489.264	492.559	462.977	462.453	445.527	436.241	433.095	443.131	467.470
55.0	365.843	429.951	448.523	421.413	409.356	394.902	394.677	396.399	405.236	413.699
57.5	298.142	338.134	385.764	385.539	358.654	354.834	356.033	357.306	363.671	375.579
60.0	260.846	259.198	294.472	322.257	318.961	309.974	314.992	316.191	323.231	333.191
62.5	221.304	213.215	212.766	269.158	270.807	265.489	271.481	274.251	278.670	276.872
65.0	178.690	171.950	174.945	186.330	224.074	221.154	226.920	228.343	232.162	212.092
67.5	139.223	133.980	133.531	139.972	174.945	173.823	177.567	180.338	190.823	163.937
70.0	99.531	97.508	97.433	101.178	111.738	129.187	126.267	130.161	141.320	124.095
72.5	66.728	67.028	67.477	71.072	71.072	85.676	78.336	78.785	87.847	80.209
75.0	37.370	43.662	45.683	47.481	44.036	51.450	51.001	52.124	56.543	51.225
77.5	23.815	25.688	28.383	30.031	30.107	28.908	33.402	32.128	31.604	33.926
80.0	16.401	18.573	17.974	17.600	20.070	19.547	22.168	21.269	19.921	20.370
82.5	9.661	10.409	10.634	11.533	12.133	11.608	12.732	12.357	12.058	11.459
85.0	5.167	5.392	5.392	5.167	5.542	5.318	5.916	6.141	5.692	5.992
87.5	1.872	1.798	2.097	2.247	2.097	1.722	1.647	1.647	1.273	1.573
90.0	1.048	1.048	1.048	0.974	0.974	0.974	0.899	0.749	0.749	0.749
92.5	1.048	1.048	1.048	1.123	1.048	1.048	0.974	0.824	0.749	0.749
95.0	1.123	1.123	1.123	1.123	1.123	1.123	1.048	0.899	0.824	0.824
97.5	1.199	1.199	1.273	1.199	1.199	1.123	1.123	0.899	0.899	0.824
100.0	1.273	1.348	1.348	1.348	1.273	1.273	1.199	0.974	0.899	0.899
102.5	1.348	1.348	1.422	1.348	1.348	1.348	1.273	0.974	0.974	0.974
105.0	1.348	1.422	1.422	1.422	1.422	1.422	1.348	1.123	1.048	1.048
107.5	1.422	1.498	1.422	1.498	1.498	1.422	1.348	1.123	1.048	1.048
110.0	1.422	1.498	1.498	1.498	1.498	1.422	1.348	1.199	1.123	1.123
112.5	1.498	1.498	1.498	1.573	1.498	1.498	1.422	1.199	1.199	1.123
115.0	1.498	1.498	1.498	1.573	1.573	1.498	1.498	1.273	1.199	1.123
117.5	1.498	1.498	1.573	1.573	1.498	1.498	1.498	1.273	1.273	1.199
120.0	1.498	1.573	1.573	1.573	1.498	1.498	1.498	1.348	1.273	1.199
122.5	1.573	1.647	1.573	1.647	1.573	1.573	1.573	1.422	1.348	1.348
125.0	1.722	1.647	1.722	1.722	1.722	1.722	1.722	1.573	1.498	1.422
127.5	1.947	1.872	1.947	1.947	1.947	1.872	1.872	1.647	1.647	1.573
130.0	2.247	2.247	2.247	2.247	2.321	2.172	2.172	1.872	1.798	1.798
132.5	2.621	2.472	2.546	2.546	2.546	2.472	2.472	2.097	2.097	1.947
135.0	2.921	2.921	2.921	2.846	2.846	2.771	2.696	2.321	2.321	2.247
137.5	3.295	3.370	3.295	3.220	3.295	3.220	3.071	2.621	2.546	2.546
140.0	3.745	3.745	3.595	3.745	3.595	3.595	3.445	2.995	2.995	2.846
142.5	4.194	4.269	4.194	4.119	4.045	3.969	3.894	3.520	3.445	3.370
145.0	4.718	4.718	4.643	4.643	4.568	4.568	4.419	4.045	3.820	3.820
147.5	5.392	5.318	5.242	5.242	5.167	5.018	4.942	4.643	4.493	4.419
150.0	5.992	5.992	5.916	5.841	5.767	5.692	5.542	5.392	5.318	5.093
152.5	6.815	6.740	6.591	6.591	6.591	6.366	6.291	6.441	6.216	6.066
155.0	7.788	7.639	7.714	7.564	7.564	7.189	7.189	7.714	7.414	7.340
157.5	8.687	8.613	8.613	8.538	8.462	8.238	8.163	9.136	8.912	8.462
160.0	9.512	9.436	9.436	9.361	9.361	9.212	9.136	10.035	9.886	9.512
162.5	10.260	10.186	10.186	10.186	10.186	10.035	10.110	11.083	10.785	10.485
165.0	11.009	10.934	10.859	10.934	10.859	10.859	10.785	11.758	11.459	11.234

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L20-840-T5-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

167.5	11.383	11.459	11.383	11.459	11.459	11.459	11.459	12.133	11.908	11.683
170.0	11.833	11.908	11.908	11.908	11.908	12.058	11.982	12.282	11.982	11.908
172.5	11.982	12.058	12.133	12.207	12.207	12.207	12.282	12.207	11.982	11.833
175.0	12.058	12.133	12.207	12.282	12.357	12.432	12.432	12.133	11.908	11.833
177.5	12.058	12.133	12.282	12.357	12.357	12.507	12.582	12.357	12.207	11.982
180.0	12.159	12.159	12.159	12.159	12.159	12.159	12.159	12.159	12.159	12.159

Vert. Angles **Horizontal Angles**

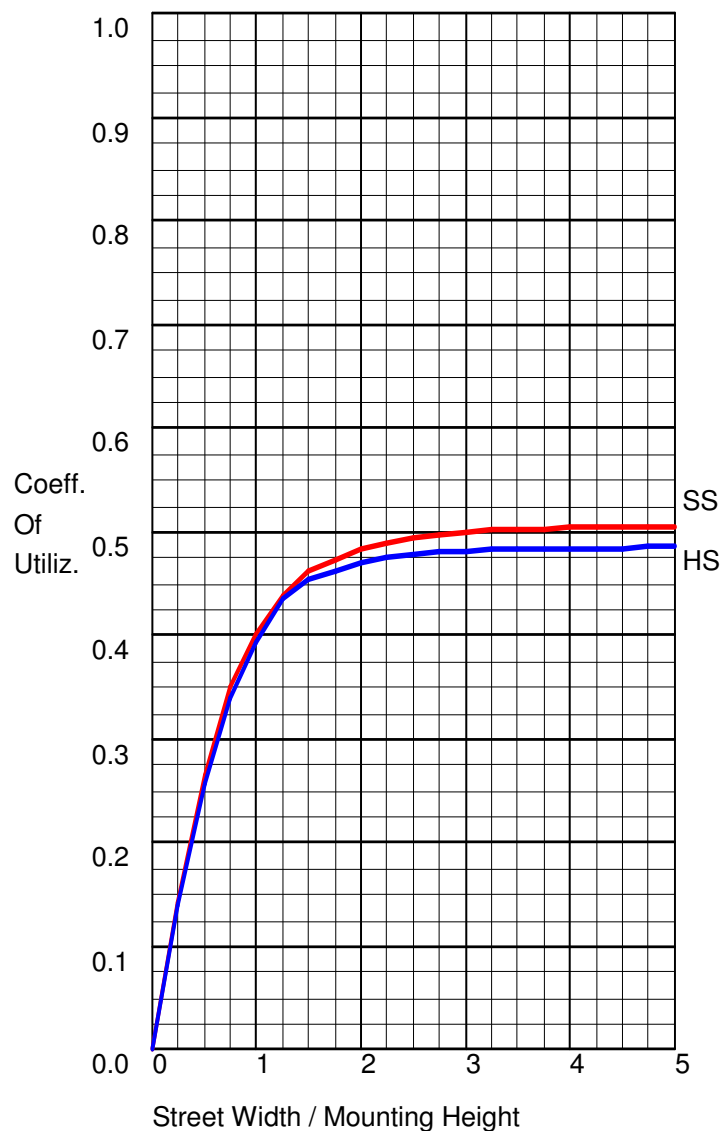
	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	887.070	887.070	887.070	887.070	887.070	887.070	887.070
2.5	894.800	884.315	890.755	880.795	889.482	877.949	894.575
5.0	895.623	884.465	889.482	880.720	890.980	878.399	895.699
7.5	893.601	882.518	886.187	880.571	890.906	878.698	896.148
10.0	889.558	878.099	886.113	880.346	888.434	877.799	895.548
12.5	883.866	872.932	883.116	878.698	883.791	876.826	892.179
15.0	876.301	866.716	878.922	876.751	876.975	875.852	886.187
17.5	863.345	859.002	872.258	874.804	866.191	874.280	875.328
20.0	853.236	847.993	860.874	868.139	857.579	867.614	867.539
22.5	840.279	835.936	858.927	851.887	852.112	859.451	863.945
25.0	826.124	820.283	844.997	839.006	848.367	841.403	842.151
27.5	813.768	802.609	827.623	821.107	830.917	831.142	823.204
30.0	796.917	787.481	808.076	802.609	804.031	815.790	816.838
32.5	775.348	779.168	776.098	789.353	779.692	785.908	789.653
35.0	754.154	762.617	761.644	770.480	723.598	689.374	702.404
37.5	731.312	739.026	741.423	700.157	625.940	593.513	592.914
40.0	705.924	712.664	698.735	586.773	558.613	556.142	555.767
42.5	669.752	682.857	618.751	527.533	533.076	539.292	524.164
45.0	636.351	621.297	522.216	504.916	514.053	524.313	515.700
47.5	575.089	535.322	479.678	486.942	499.449	504.168	511.582
50.0	531.952	455.938	456.912	471.590	473.237	473.537	471.440
52.5	470.691	435.717	433.994	441.708	447.774	441.933	435.642
55.0	384.342	396.399	407.857	416.320	413.624	415.946	408.232
57.5	317.014	352.813	382.544	383.668	377.976	383.518	374.381
60.0	284.736	305.331	339.258	349.592	346.222	346.821	344.125
62.5	250.436	272.829	289.904	310.948	307.952	308.626	314.618
65.0	215.537	233.735	242.199	272.754	266.313	265.639	260.471
67.5	178.541	187.902	200.933	222.052	222.277	221.154	221.453
70.0	141.469	150.382	156.373	162.889	171.576	170.677	158.095
72.5	96.235	109.266	115.932	111.813	101.402	102.077	100.579
75.0	59.015	72.270	68.525	63.732	66.204	69.499	71.971
77.5	39.991	35.873	39.842	40.291	41.789	42.837	44.410
80.0	22.317	22.019	23.216	23.516	21.643	20.446	21.269
82.5	12.133	12.207	12.357	11.758	11.982	11.683	10.035
85.0	5.616	5.692	5.167	5.318	4.942	5.093	5.616
87.5	1.573	1.498	1.273	1.273	1.199	1.199	1.273
90.0	0.674	0.674	0.599	0.525	0.525	0.525	0.525
92.5	0.749	0.674	0.599	0.599	0.525	0.525	0.449
95.0	0.749	0.749	0.674	0.599	0.599	0.525	0.525
97.5	0.824	0.749	0.674	0.674	0.599	0.525	0.525
100.0	0.824	0.824	0.749	0.674	0.599	0.599	0.599
102.5	0.899	0.824	0.824	0.749	0.674	0.599	0.599
105.0	0.974	0.899	0.824	0.824	0.674	0.674	0.674
107.5	0.974	0.899	0.899	0.749	0.749	0.749	0.749
110.0	1.048	1.048	0.899	0.899	0.824	0.749	0.749
112.5	1.048	1.048	0.974	0.899	0.824	0.824	0.749

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L20-840-T5-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

115.0	1.048	1.048	1.048	0.899	0.899	0.824	0.824
117.5	1.123	1.048	1.123	0.974	0.899	0.899	0.899
120.0	1.199	1.123	1.123	1.048	0.974	0.974	0.974
122.5	1.273	1.199	1.199	1.048	1.048	1.048	1.048
125.0	1.348	1.348	1.273	1.199	1.123	1.199	1.123
127.5	1.498	1.422	1.422	1.273	1.273	1.273	1.273
130.0	1.647	1.647	1.573	1.573	1.498	1.422	1.498
132.5	1.947	1.798	1.722	1.722	1.722	1.647	1.647
135.0	2.172	2.097	2.022	2.022	1.947	1.947	1.872
137.5	2.396	2.396	2.321	2.247	2.247	2.247	2.247
140.0	2.771	2.696	2.621	2.621	2.621	2.546	2.546
142.5	3.220	3.146	3.071	2.995	2.995	2.921	2.921
145.0	3.745	3.595	3.595	3.520	3.445	3.520	3.445
147.5	4.194	4.119	4.119	4.045	3.969	3.969	3.969
150.0	5.018	4.868	4.718	4.718	4.643	4.643	4.643
152.5	5.841	5.767	5.692	5.467	5.467	5.318	5.467
155.0	6.965	6.815	6.740	6.515	6.515	6.515	6.515
157.5	8.163	8.013	7.863	7.639	7.639	7.788	7.639
160.0	9.287	9.136	8.987	8.687	8.687	8.613	8.687
162.5	10.186	9.961	9.886	9.736	9.661	9.586	9.661
165.0	11.009	10.859	10.709	10.485	10.485	10.409	10.409
167.5	11.459	11.383	11.234	11.083	11.009	11.009	11.009
170.0	11.608	11.608	11.459	11.383	11.383	11.383	11.459
172.5	11.683	11.683	11.608	11.533	11.533	11.533	11.608
175.0	11.683	11.683	11.683	11.683	11.683	11.683	11.758
177.5	11.833	11.833	11.833	11.758	11.833	11.833	11.833
180.0	12.159	12.159	12.159	12.159	12.159	12.159	12.159

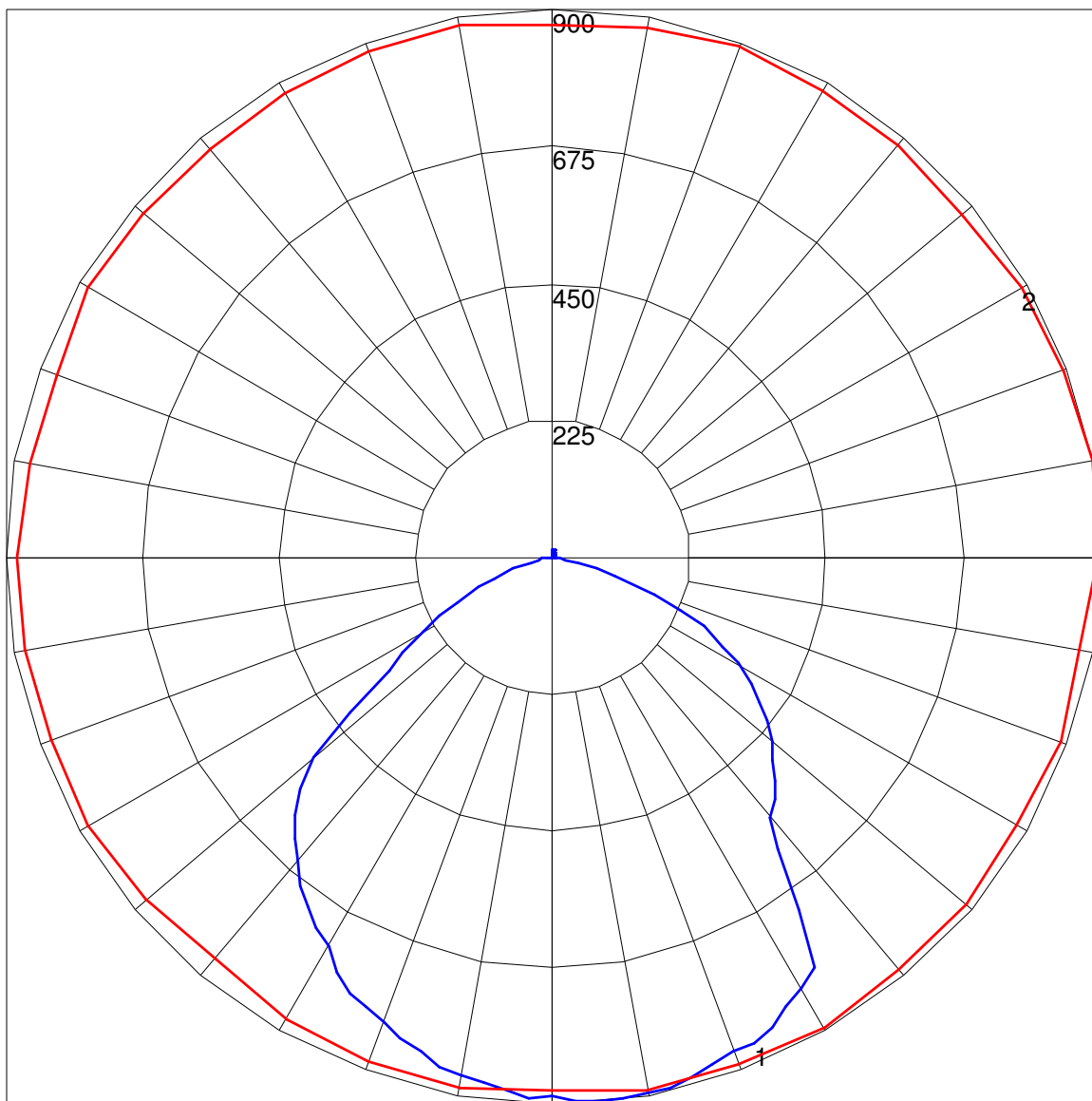
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

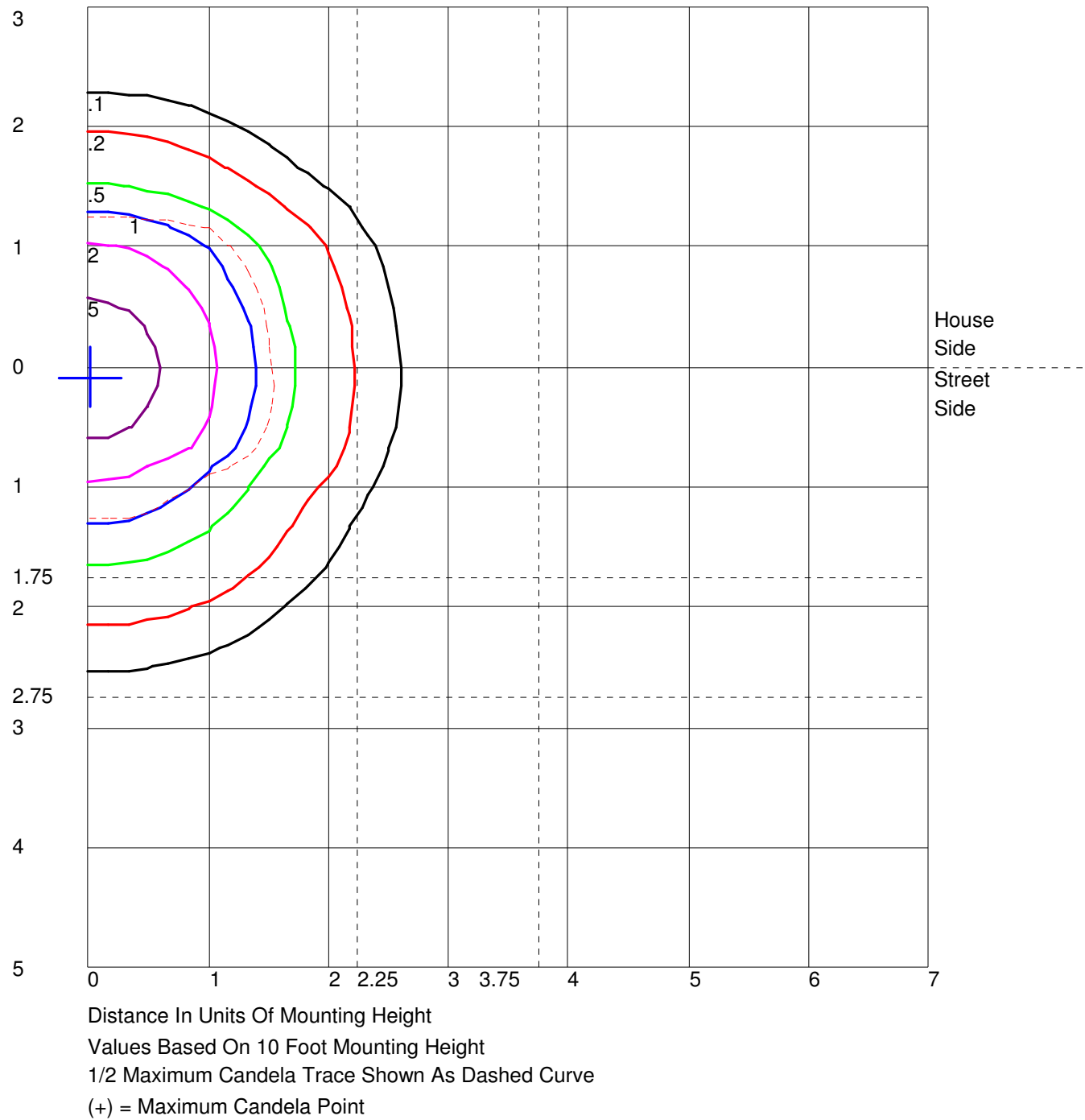
	Lumens	Percent Of Luminaire
Downward Street Side	1182.4	50.7
Downward House Side	1135.3	48.6
Downward Total	2317.7	99.3
Upward Street Side	7.5	0.3
Upward House Side	9.0	0.4
Upward Total	16.5	0.7
Total Flux	2334.2	100.0

POLAR GRAPH

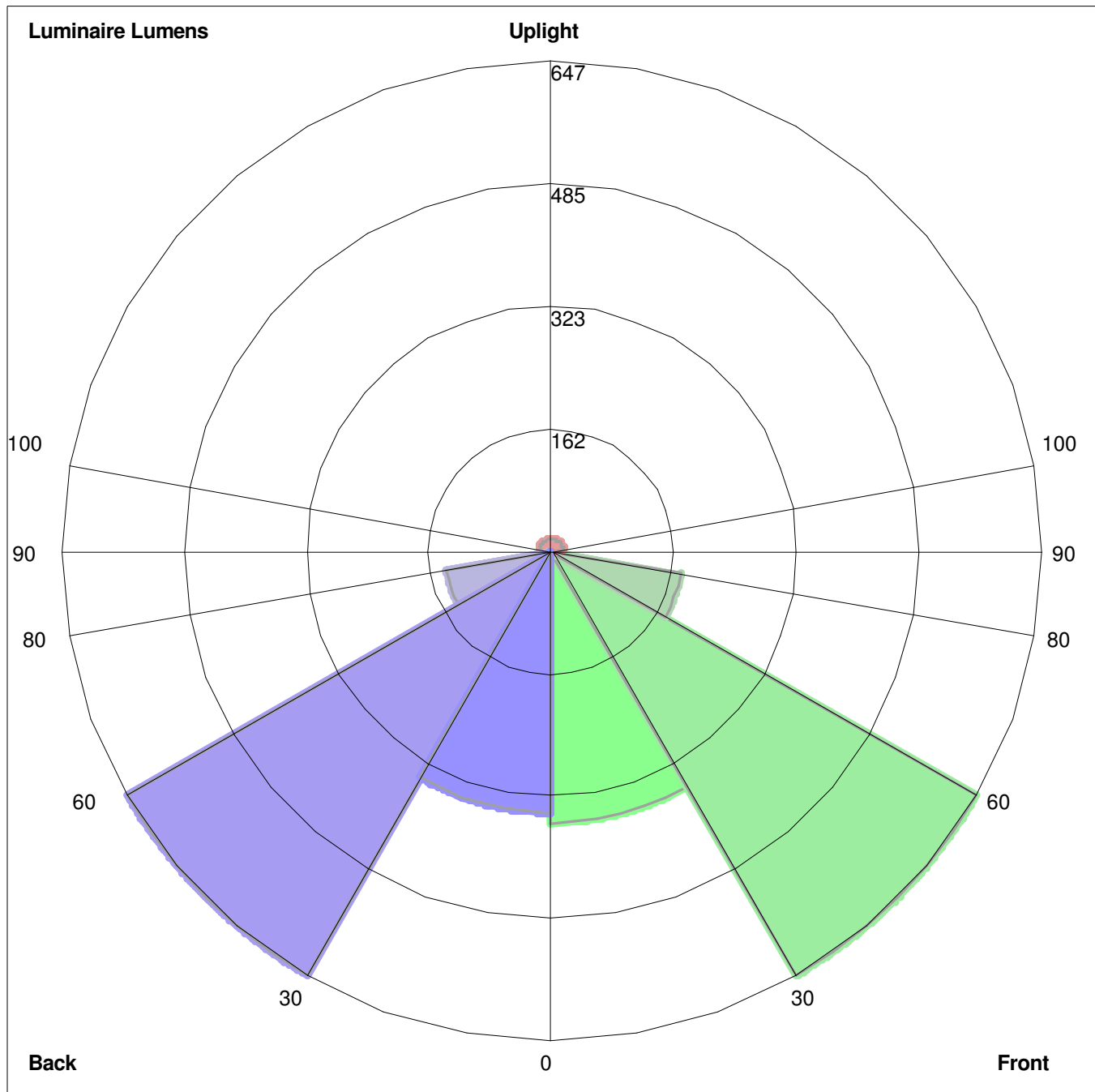


Maximum Candela = 899.668 Located At Horizontal Angle = 10, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=358.2, Medium=646.8, High=172.7, Very High=4.8
Back: Low=345.1, Medium=645.5, High=140.3, Very High=4.4
Uplight: Low=0.9, High=15.6

BUG Rating : B1-U2-G0