



IES ROAD REPORT

PHOTOMETRIC FILENAME : WPTZS-L20-840-T3-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM Q2016030802 scaled from 5K

[TESTLAB] QSSI

[ISSUEDATE] 04-20-2026

[MANUFAC] H.E. WILLIAMS, INC.

[MORE] CARTHAGE, MO. 64836

[LUMCAT] WPTZS-L20-840-T3-DIM-UNV

[LUMINAIRE] LED WALL PACK, TYPE III OPTICS, CLEAR GLASS LENS

[LAMPCAT] SAMSUNG 561B LEDS

[LAMP] 14 SAMSUNG 561B LEDS

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2079
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	23.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	866.191
Maximum Candela Angle	360H 32.5V
Maximum Candela (<90 Degrees Vertical)	866.191
Maximum Candela Angle (<90 Degrees Vertical)	360H 32.5V
Maximum Candela At 90 Degrees Vertical	1.947 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	175.395 (8.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : WPTZS-L20-840-T3-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	296.2	N.A.	14.2
FM - Front-Medium (30-60)	831.3	N.A.	40.0
FH - Front-High (60-80)	341.2	N.A.	16.4
FVH - Front-Very High (80-90)	7.6	N.A.	0.4
BL - Back-Low (0-30)	114.8	N.A.	5.5
BM - Back-Medium (30-60)	312.1	N.A.	15.0
BH - Back-High (60-80)	156.0	N.A.	7.5
BVH - Back-Very High (80-90)	6.5	N.A.	0.3
UL - Uplight-Low (90-100)	1.5	N.A.	0.1
UH - Uplight-High (100-180)	11.8	N.A.	0.6
Total	2079.0	N.A.	100.0
BUG Rating	B1-U2-G1		

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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	342.933	342.933	342.933	342.933	342.933	342.933	342.933	342.933	342.933	342.933
2.5	438.787	442.082	432.871	434.368	414.598	408.007	383.817	376.928	359.328	344.275
5.0	541.313	542.062	529.855	525.511	499.224	477.507	454.215	423.135	382.395	351.165
7.5	620.998	619.050	605.645	602.499	566.327	538.542	503.418	474.661	417.668	364.944
10.0	674.470	674.395	660.465	651.553	619.799	589.318	553.146	519.220	453.915	385.539
12.5	713.338	709.818	703.003	695.514	662.937	632.006	597.332	557.865	487.317	408.382
15.0	747.339	743.969	740.824	734.832	699.858	671.848	638.897	596.283	518.920	427.254
17.5	775.273	773.476	772.652	763.216	733.709	700.682	676.492	631.857	548.578	452.942
20.0	796.842	800.062	806.728	792.124	764.788	734.757	710.568	665.633	576.513	474.211
22.5	808.975	820.208	831.442	816.014	792.573	763.890	740.749	697.013	603.098	499.375
25.0	816.913	829.719	845.746	833.614	813.318	787.555	767.035	723.224	629.236	523.414
27.5	835.711	841.178	842.825	845.222	833.015	815.640	791.525	744.344	653.051	540.714
30.0	847.544	842.600	842.750	851.962	845.971	832.341	806.503	767.709	675.743	561.609
32.5	866.191	842.975	845.072	850.015	849.116	838.856	820.808	786.357	697.986	582.728
35.0	831.666	839.006	832.191	838.182	850.689	843.949	832.865	800.137	715.959	598.081
37.5	732.511	760.745	788.305	819.235	853.160	855.781	838.482	812.420	734.158	612.685
40.0	654.250	684.506	711.616	787.481	849.640	847.843	840.204	825.525	748.912	623.693
42.5	604.971	631.108	650.355	721.352	827.697	834.138	837.732	833.164	756.551	631.857
45.0	629.760	628.862	619.799	657.769	778.269	839.305	833.464	834.886	768.009	644.288
47.5	620.173	637.548	627.139	624.817	708.321	832.116	818.485	830.318	781.340	656.421
50.0	619.949	645.712	634.178	632.756	654.624	811.296	802.234	808.450	768.384	647.808
52.5	621.072	654.773	639.645	644.513	637.174	746.291	775.424	762.692	743.969	648.932
55.0	648.783	669.002	659.417	667.655	651.553	670.052	741.797	735.806	740.374	656.946
57.5	662.562	698.510	680.986	675.893	657.994	622.046	707.197	701.655	709.519	646.161
60.0	621.147	650.879	670.650	687.875	647.134	607.517	619.200	652.377	670.126	631.632
62.5	544.309	582.354	612.236	656.047	643.839	571.120	515.326	605.270	648.108	631.557
65.0	413.025	465.899	522.740	577.187	583.477	520.569	443.880	558.913	617.403	628.711
67.5	236.132	297.692	375.130	478.404	489.489	459.682	407.558	513.753	579.059	614.183
70.0	95.786	131.734	204.453	336.336	383.742	390.632	360.376	429.726	532.851	594.785
72.5	59.089	69.724	101.402	173.748	294.323	305.631	297.169	320.759	472.788	554.794
75.0	35.498	42.538	53.697	87.547	169.703	217.708	193.893	203.180	360.152	438.638
77.5	21.569	26.436	32.054	44.336	85.077	126.267	119.452	126.416	233.735	310.724
80.0	14.005	15.502	17.000	23.216	41.640	56.243	68.002	74.067	144.315	175.395
82.5	7.714	8.238	10.110	13.106	18.648	23.966	22.842	33.102	77.363	76.090
85.0	2.846	3.146	3.370	5.318	7.564	9.136	9.212	12.207	19.921	18.723
87.5	1.048	1.123	1.199	1.273	1.348	1.722	1.947	2.621	2.846	3.595
90.0	0.749	0.749	0.749	0.749	0.674	0.599	0.749	0.899	1.048	1.872
92.5	0.674	0.749	0.674	0.674	0.674	0.674	0.749	0.899	1.123	1.798
95.0	0.749	0.674	0.674	0.674	0.674	0.674	0.749	0.974	1.123	1.872
97.5	0.674	0.674	0.674	0.674	0.599	0.674	0.824	1.048	1.199	1.947
100.0	0.599	0.674	0.674	0.674	0.674	0.674	0.824	1.048	1.199	1.947
102.5	0.599	0.674	0.599	0.674	0.749	0.824	0.899	1.048	1.273	1.947
105.0	0.599	0.599	0.674	0.749	0.749	0.824	0.899	1.123	1.348	1.872
107.5	0.674	0.599	0.674	0.674	0.674	0.824	0.899	1.123	1.348	1.872
110.0	0.525	0.525	0.674	0.674	0.749	0.749	0.974	1.123	1.348	1.872
112.5	0.449	0.599	0.674	0.674	0.674	0.824	0.974	1.123	1.348	1.798
115.0	0.374	0.599	0.674	0.674	0.749	0.824	0.974	1.123	1.348	1.798
117.5	0.374	0.525	0.599	0.674	0.674	0.749	0.899	1.199	1.348	1.798
120.0	0.374	0.525	0.599	0.674	0.674	0.749	0.899	1.123	1.348	1.722
122.5	0.374	0.525	0.599	0.674	0.749	0.749	0.899	1.123	1.422	1.722
125.0	0.374	0.599	0.674	0.674	0.749	0.824	0.974	1.123	1.422	1.872
127.5	0.449	0.599	0.674	0.749	0.749	0.824	0.974	1.199	1.498	1.947
130.0	0.449	0.599	0.674	0.749	0.749	0.899	1.048	1.348	1.573	2.022

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CANDELA TABULATION - (Cont.)

132.5	0.525	0.599	0.749	0.749	0.824	0.974	1.123	1.422	1.647	2.022
135.0	0.599	0.599	0.749	0.824	0.974	1.048	1.199	1.422	1.722	2.172
137.5	0.599	0.749	0.824	0.899	0.974	1.123	1.273	1.573	1.872	2.247
140.0	0.749	0.824	0.974	0.974	1.123	1.273	1.422	1.722	1.947	2.396
142.5	0.824	0.899	1.048	1.123	1.273	1.422	1.647	1.872	2.172	2.546
145.0	0.974	1.048	1.199	1.348	1.498	1.647	1.872	2.172	2.396	2.696
147.5	1.199	1.199	1.498	1.498	1.722	1.872	2.247	2.472	2.696	2.921
150.0	1.498	1.573	1.722	1.872	2.172	2.321	2.546	2.771	3.146	3.220
152.5	1.947	2.022	2.247	2.321	2.621	2.846	3.146	3.370	3.745	3.445
155.0	2.621	2.621	2.846	3.071	3.370	3.520	3.820	4.119	4.419	3.820
157.5	3.370	3.445	3.595	3.820	4.119	4.344	4.643	4.868	5.167	4.194
160.0	4.119	4.194	4.419	4.568	4.868	5.093	5.392	5.616	5.841	4.718
162.5	4.868	4.868	5.093	5.242	5.467	5.767	5.992	6.216	6.366	5.242
165.0	5.467	5.542	5.692	5.916	6.141	6.291	6.515	6.740	6.815	5.692
167.5	5.992	6.066	6.141	6.291	6.515	6.740	6.890	7.040	7.265	6.141
170.0	6.291	6.366	6.515	6.591	6.815	7.040	7.115	7.265	7.414	6.515
172.5	6.591	6.591	6.740	6.815	6.965	7.115	7.265	7.414	7.414	6.740
175.0	6.666	6.740	6.890	6.965	7.115	7.189	7.265	7.414	7.414	6.890
177.5	6.815	6.815	6.965	7.115	7.189	7.265	7.265	7.414	7.489	6.965
180.0	6.887	6.887	6.887	6.887	6.887	6.887	6.887	6.887	6.887	6.887

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	342.933	342.933	342.933	342.933	342.933	342.933	342.933	342.933	342.933	342.933
2.5	337.909	328.847	318.213	311.997	306.380	307.278	298.142	301.287	304.507	304.583
5.0	332.442	317.539	303.684	295.146	290.728	287.283	278.670	280.243	279.195	280.468
7.5	330.120	309.974	294.997	283.014	277.771	271.481	265.190	265.489	263.242	264.590
10.0	329.297	303.909	286.459	271.705	264.741	257.850	255.678	251.859	249.687	252.159
12.5	332.892	300.089	279.794	262.194	254.480	247.141	244.445	241.674	238.229	241.374
15.0	340.829	297.393	272.978	256.502	246.916	237.330	234.634	231.863	229.392	232.088
17.5	351.988	296.195	266.612	252.833	237.180	228.343	224.149	223.175	223.101	224.000
20.0	362.623	297.018	262.194	246.017	229.467	222.726	217.708	215.462	218.233	217.109
22.5	376.553	300.838	257.925	242.423	225.347	217.109	213.665	211.268	215.312	212.167
25.0	389.059	301.811	257.925	239.053	221.828	212.766	209.695	205.651	207.598	209.396
27.5	402.016	305.032	257.401	231.938	219.581	209.995	202.431	201.083	199.060	202.731
30.0	415.122	305.556	257.251	231.488	217.559	204.228	199.436	189.625	193.593	198.836
32.5	429.201	310.050	258.449	231.938	211.567	200.110	198.163	187.603	192.021	195.916
35.0	443.206	318.438	262.868	233.810	206.774	198.611	192.770	191.347	192.021	193.969
37.5	457.809	327.274	268.485	232.013	197.488	197.863	190.598	187.603	184.382	191.646
40.0	473.387	333.566	270.731	230.215	210.294	198.537	186.554	178.316	175.919	185.356
42.5	490.837	340.081	272.229	234.035	213.964	194.043	176.968	173.149	167.082	179.664
45.0	501.921	349.442	275.599	235.159	209.097	185.730	173.972	168.879	166.558	174.722
47.5	514.128	358.729	280.168	230.141	196.439	179.515	172.250	165.435	160.941	172.324
50.0	514.352	366.517	276.798	234.035	203.405	179.139	172.624	152.478	153.153	161.241
52.5	507.238	359.777	274.251	229.916	206.625	170.827	142.294	138.848	141.994	144.840
55.0	517.124	358.055	250.961	230.665	199.060	140.421	121.174	134.954	132.033	138.699
57.5	512.630	355.059	261.445	220.031	169.629	138.549	105.672	128.439	130.236	134.055
60.0	498.251	336.561	252.683	199.360	142.143	118.253	100.429	113.086	118.328	123.795
62.5	499.075	326.451	235.608	156.972	106.795	103.275	98.706	104.399	111.662	115.407
65.0	500.797	318.961	211.343	126.042	91.592	97.584	88.597	99.006	97.958	103.725
67.5	493.158	299.415	163.937	107.245	84.477	78.860	75.640	79.834	81.631	87.623
70.0	471.515	267.287	128.288	93.090	64.032	59.464	56.468	58.190	65.005	69.873
72.5	435.941	211.792	97.808	73.543	47.781	44.785	38.044	45.683	48.679	49.652
75.0	331.618	117.954	68.451	51.076	34.600	29.357	24.789	29.807	28.608	31.155
77.5	227.070	63.583	41.041	33.027	22.393	19.772	18.423	18.723	17.974	20.670

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CANDELA TABULATION - (Cont.)

80.0	126.716	37.071	27.335	20.370	13.630	14.080	14.305	12.732	12.282	13.780
82.5	45.235	21.494	15.278	12.207	8.013	8.538	8.013	7.414	7.564	8.013
85.0	12.282	8.163	7.939	6.515	5.392	5.093	4.942	4.868	5.542	5.542
87.5	3.894	3.894	4.045	3.894	3.669	3.370	3.295	3.370	3.669	3.445
90.0	1.947	1.872	1.947	1.798	1.722	1.647	1.573	1.498	1.498	1.498
92.5	1.947	1.872	1.872	1.798	1.647	1.573	1.573	1.498	1.498	1.498
95.0	1.947	2.022	1.947	1.947	1.798	1.722	1.573	1.647	1.647	1.647
97.5	2.022	2.172	2.097	2.022	1.872	1.798	1.722	1.798	1.722	1.798
100.0	2.172	2.172	2.172	2.172	2.022	1.872	1.798	1.798	1.722	1.872
102.5	2.097	2.247	2.321	2.247	2.097	1.947	1.947	1.872	1.872	1.947
105.0	2.097	2.247	2.321	2.247	2.172	2.022	1.947	1.947	1.947	1.947
107.5	2.172	2.247	2.321	2.247	2.172	2.097	2.022	2.022	2.022	2.022
110.0	2.022	2.247	2.321	2.321	2.247	2.172	2.097	2.022	2.097	2.097
112.5	2.097	2.247	2.321	2.321	2.172	2.172	2.097	2.022	2.022	2.097
115.0	2.022	2.247	2.321	2.247	2.172	2.097	2.097	2.022	2.022	2.097
117.5	2.022	2.321	2.247	2.247	2.247	2.022	2.022	2.022	2.022	2.022
120.0	2.022	2.247	2.247	2.247	2.172	2.097	2.022	1.947	2.022	2.022
122.5	2.022	2.247	2.247	2.247	2.172	2.097	2.022	1.947	2.022	2.022
125.0	2.097	2.247	2.396	2.321	2.321	2.247	2.172	2.172	2.172	2.172
127.5	2.172	2.396	2.472	2.472	2.472	2.472	2.396	2.321	2.321	2.396
130.0	2.247	2.546	2.696	2.696	2.771	2.696	2.696	2.621	2.621	2.621
132.5	2.321	2.621	2.771	2.921	2.921	2.921	2.921	2.921	2.921	2.921
135.0	2.472	2.696	2.846	3.071	3.146	3.220	3.220	3.220	3.220	3.146
137.5	2.546	2.771	2.995	3.146	3.295	3.370	3.445	3.445	3.445	3.445
140.0	2.696	2.921	3.146	3.295	3.520	3.595	3.669	3.669	3.745	3.745
142.5	2.846	3.146	3.295	3.520	3.669	3.820	3.894	3.969	3.969	3.969
145.0	2.995	3.295	3.445	3.745	3.894	4.045	4.119	4.194	4.194	4.194
147.5	3.220	3.445	3.669	3.969	4.119	4.344	4.419	4.419	4.419	4.493
150.0	3.445	3.669	3.894	4.269	4.419	4.493	4.643	4.718	4.718	4.718
152.5	3.669	3.894	4.194	4.419	4.718	4.868	4.868	4.942	5.018	4.942
155.0	4.045	4.344	4.493	4.718	4.942	5.093	5.242	5.242	5.242	5.242
157.5	4.419	4.643	4.793	4.942	5.242	5.318	5.467	5.467	5.542	5.392
160.0	4.868	5.018	5.093	5.318	5.467	5.542	5.692	5.692	5.692	5.692
162.5	5.318	5.392	5.467	5.616	5.692	5.841	5.916	5.916	5.992	5.992
165.0	5.767	5.767	5.841	5.841	5.992	6.066	6.066	6.141	6.216	6.216
167.5	6.141	6.066	6.066	6.066	6.141	6.216	6.291	6.366	6.366	6.366
170.0	6.441	6.366	6.291	6.366	6.366	6.441	6.441	6.441	6.515	6.591
172.5	6.591	6.591	6.515	6.515	6.515	6.515	6.515	6.515	6.591	6.740
175.0	6.740	6.666	6.591	6.591	6.515	6.515	6.515	6.591	6.740	6.815
177.5	6.815	6.666	6.591	6.591	6.515	6.515	6.515	6.666	6.740	6.890
180.0	6.887	6.887	6.887	6.887	6.887	6.887	6.887	6.887	6.887	6.887

**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	342.933	342.933	342.933	342.933	342.933	342.933	342.933	342.933	342.933	342.933
2.5	303.310	308.926	306.156	309.600	315.143	326.526	335.362	344.425	361.649	377.002
5.0	282.639	289.679	286.908	292.151	299.265	313.194	328.772	351.240	386.589	423.285
7.5	268.335	272.454	273.054	280.243	288.481	304.732	326.526	365.169	424.484	476.907
10.0	256.577	259.423	262.269	269.908	280.768	299.415	329.072	389.509	465.299	524.912
12.5	246.167	249.613	251.709	261.221	275.075	295.222	333.566	409.805	501.546	568.799
15.0	236.955	240.850	243.096	254.630	268.410	293.424	342.178	434.368	534.947	609.689
17.5	226.621	232.687	237.030	249.613	263.916	293.049	350.790	458.334	566.402	646.685
20.0	221.004	224.000	231.863	245.717	259.348	294.472	364.046	483.048	595.984	677.166
22.5	216.810	220.031	227.369	241.974	258.224	298.891	381.196	507.986	622.645	704.351
25.0	212.766	215.013	225.347	241.374	256.727	304.583	398.796	531.727	647.210	727.643

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L20-840-T3-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.5	206.175	211.867	222.501	239.277	258.224	310.573	414.149	549.851	671.249	753.031
30.0	203.254	210.219	220.255	235.907	259.274	317.988	430.025	569.772	695.589	776.696
32.5	202.431	206.026	215.912	235.083	259.274	324.728	449.347	589.917	717.608	791.450
35.0	199.734	206.475	213.291	236.581	261.895	332.142	468.144	611.112	737.529	807.926
37.5	197.488	204.004	211.642	237.854	264.665	342.702	485.295	630.658	753.630	815.265
40.0	190.972	202.281	214.638	234.185	269.158	348.468	499.674	647.584	761.793	821.781
42.5	183.109	194.492	215.761	235.533	274.476	355.134	508.436	652.003	757.374	823.803
45.0	178.915	189.924	209.246	239.727	283.014	353.187	502.370	643.990	735.132	797.216
47.5	178.241	186.404	203.254	237.330	284.736	357.156	512.780	653.351	735.431	759.097
50.0	174.945	184.757	199.360	229.092	277.771	369.214	524.238	660.840	735.806	745.317
52.5	155.100	180.563	198.163	215.387	267.811	376.553	527.608	653.725	719.929	725.171
55.0	142.967	159.144	191.871	205.426	261.595	366.068	515.476	636.650	684.655	688.624
57.5	138.249	144.390	160.642	201.008	245.343	352.363	517.498	639.046	664.285	654.848
60.0	129.787	133.906	136.976	183.184	230.889	347.945	519.894	641.818	651.328	632.831
62.5	121.174	122.596	123.945	157.646	214.863	326.375	519.595	639.945	629.236	601.975
65.0	107.693	103.200	111.064	130.535	193.444	303.984	511.882	630.958	596.508	547.754
67.5	89.944	85.600	93.014	110.314	164.611	283.164	498.775	606.544	550.226	454.739
70.0	69.949	65.830	72.495	86.350	121.699	243.921	463.127	563.332	481.850	351.315
72.5	46.058	46.882	53.248	62.984	86.949	189.100	378.500	460.281	374.605	242.573
75.0	29.657	33.476	37.820	44.561	53.697	105.897	272.678	350.266	264.590	144.690
77.5	20.820	23.216	24.939	28.309	34.524	57.442	181.836	237.629	172.399	87.698
80.0	14.229	16.701	15.802	17.375	22.842	34.824	99.155	129.038	90.768	44.336
82.5	8.837	9.961	9.062	11.459	12.432	18.423	43.961	49.877	33.551	17.375
85.0	5.616	5.992	6.066	5.992	6.515	7.788	9.287	9.586	8.837	5.242
87.5	3.595	3.595	3.669	3.520	3.146	3.071	2.995	2.771	2.396	2.247
90.0	1.573	1.573	1.647	1.722	1.798	1.722	1.647	1.798	1.647	1.422
92.5	1.573	1.647	1.722	1.872	1.872	1.872	1.722	1.872	1.647	1.422
95.0	1.647	1.798	1.872	1.947	2.022	1.947	1.872	1.872	1.722	1.422
97.5	1.798	1.872	2.022	2.097	2.172	2.097	1.947	1.947	1.647	1.422
100.0	1.872	1.947	2.097	2.172	2.321	2.247	2.022	1.947	1.647	1.348
102.5	1.947	2.097	2.247	2.247	2.321	2.247	2.097	1.947	1.647	1.348
105.0	2.097	2.172	2.321	2.321	2.396	2.321	2.172	1.872	1.647	1.273
107.5	2.097	2.247	2.321	2.396	2.396	2.396	2.172	1.798	1.498	1.273
110.0	2.172	2.247	2.321	2.396	2.472	2.396	2.097	1.798	1.573	1.199
112.5	2.172	2.247	2.321	2.321	2.472	2.321	2.097	1.798	1.498	1.199
115.0	2.097	2.247	2.247	2.396	2.472	2.321	2.097	1.798	1.498	1.123
117.5	2.097	2.172	2.321	2.396	2.396	2.321	2.097	1.798	1.422	1.123
120.0	2.097	2.172	2.321	2.321	2.396	2.321	2.097	1.798	1.422	1.048
122.5	2.097	2.172	2.247	2.321	2.321	2.247	2.097	1.798	1.422	1.048
125.0	2.247	2.321	2.321	2.396	2.472	2.321	2.097	1.872	1.422	1.123
127.5	2.396	2.546	2.546	2.621	2.621	2.396	2.172	1.872	1.422	1.123
130.0	2.696	2.771	2.771	2.771	2.696	2.546	2.247	1.872	1.498	1.199
132.5	2.921	2.995	2.995	2.995	2.846	2.696	2.321	1.798	1.498	1.199
135.0	3.146	3.220	3.220	3.220	2.995	2.696	2.472	1.872	1.498	1.273
137.5	3.520	3.445	3.445	3.295	3.146	2.846	2.546	1.947	1.647	1.273
140.0	3.745	3.669	3.595	3.445	3.220	2.995	2.696	2.097	1.798	1.422
142.5	3.969	3.894	3.820	3.595	3.370	3.146	2.921	2.247	1.947	1.647
145.0	4.194	4.119	3.969	3.820	3.595	3.370	3.071	2.472	2.172	1.872
147.5	4.419	4.419	4.194	4.045	3.745	3.520	3.295	2.696	2.396	2.097
150.0	4.643	4.568	4.419	4.269	4.045	3.820	3.595	3.071	2.696	2.472
152.5	4.868	4.793	4.718	4.643	4.344	4.194	3.969	3.520	3.146	2.846
155.0	5.167	5.093	4.942	4.942	4.718	4.568	4.419	4.119	3.745	3.520
157.5	5.392	5.392	5.242	5.242	5.093	5.018	4.868	4.793	4.493	4.194
160.0	5.692	5.692	5.616	5.616	5.542	5.467	5.318	5.392	5.093	4.868
162.5	5.916	5.916	5.916	5.841	5.916	5.841	5.841	5.916	5.616	5.542
165.0	6.216	6.216	6.216	6.216	6.216	6.291	6.291	6.291	6.141	5.916

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L20-840-T3-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

167.5	6.441	6.515	6.515	6.515	6.515	6.666	6.740	6.591	6.366	6.216
170.0	6.666	6.666	6.815	6.815	6.890	6.965	7.040	6.666	6.515	6.441
172.5	6.815	6.890	6.965	6.965	7.115	7.115	7.189	6.740	6.591	6.515
175.0	6.890	7.040	7.040	7.115	7.115	7.265	7.265	6.815	6.591	6.515
177.5	6.965	7.115	7.115	7.115	7.189	7.340	7.489	6.890	6.740	6.591
180.0	6.887	6.887	6.887	6.887	6.887	6.887	6.887	6.887	6.887	6.887

Vert. Angles **Horizontal Angles**

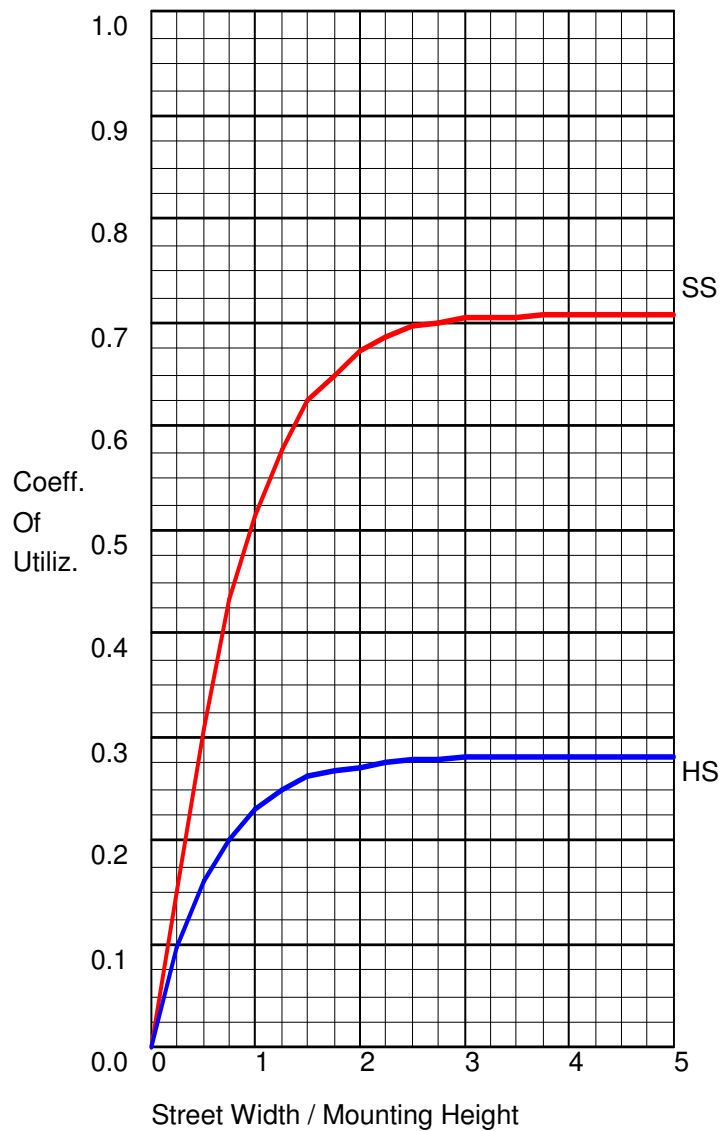
	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	342.933	342.933	342.933	342.933	342.933	342.933	342.933
2.5	386.888	401.566	410.553	428.827	425.831	439.986	438.787
5.0	469.343	475.783	494.431	520.569	523.115	540.115	541.313
7.5	511.432	542.886	576.213	597.631	601.676	619.200	620.998
10.0	565.803	599.204	625.640	654.324	655.373	672.598	674.470
12.5	612.759	645.263	670.276	698.136	696.038	713.263	713.338
15.0	653.875	684.655	709.295	735.506	732.062	749.137	747.339
17.5	690.496	717.008	745.991	764.040	764.489	774.825	775.273
20.0	722.325	745.092	777.146	784.709	796.767	801.410	796.842
22.5	748.612	762.242	796.693	803.357	822.380	818.411	808.975
25.0	775.573	779.318	815.490	820.358	831.891	832.865	816.913
27.5	797.966	803.733	822.679	829.419	828.745	841.702	835.711
30.0	810.097	826.798	825.450	835.186	829.121	836.759	847.544
32.5	819.384	837.883	829.419	837.658	834.737	838.856	866.191
35.0	826.798	839.530	827.323	827.772	828.296	820.358	831.666
37.5	832.341	836.010	833.164	806.054	756.851	742.097	732.511
40.0	826.349	827.248	835.111	749.660	692.294	679.787	654.250
42.5	825.301	821.257	807.028	679.113	634.253	635.377	604.971
45.0	813.243	827.323	725.396	624.443	618.002	638.747	629.760
47.5	787.106	798.714	648.108	614.557	622.046	639.197	620.173
50.0	746.291	729.065	610.138	620.848	629.536	640.094	619.949
52.5	734.158	660.540	624.966	633.879	635.227	649.081	621.072
55.0	714.312	616.130	641.818	653.426	649.906	666.981	648.783
57.5	635.751	604.596	647.808	663.461	680.162	690.871	662.562
60.0	556.816	592.538	646.611	680.986	654.250	631.857	621.147
62.5	506.339	560.411	641.967	636.725	595.384	567.450	544.309
65.0	485.220	529.106	549.701	560.785	504.916	448.598	413.025
67.5	430.625	456.912	455.788	449.347	348.918	274.327	236.132
70.0	348.244	372.359	353.112	286.159	166.932	112.112	95.786
72.5	247.141	280.917	228.418	122.147	74.592	63.058	59.089
75.0	147.610	185.131	107.394	61.111	42.988	38.943	35.498
77.5	83.054	88.896	51.001	29.956	25.837	23.815	21.569
80.0	44.261	34.150	25.088	16.027	14.154	14.379	14.005
82.5	15.952	12.656	9.811	9.212	8.388	7.564	7.714
85.0	5.318	4.269	4.269	3.445	3.071	3.071	2.846
87.5	1.872	1.573	1.348	1.348	1.123	1.048	1.048
90.0	1.123	0.974	0.899	0.899	0.824	0.749	0.749
92.5	1.123	1.048	0.899	0.824	0.749	0.749	0.674
95.0	1.048	0.974	0.824	0.824	0.749	0.674	0.749
97.5	1.123	0.899	0.899	0.749	0.674	0.674	0.674
100.0	1.048	0.899	0.749	0.674	0.599	0.599	0.599
102.5	1.048	0.824	0.749	0.674	0.599	0.599	0.599
105.0	1.048	0.749	0.674	0.674	0.599	0.599	0.599
107.5	0.974	0.749	0.525	0.599	0.599	0.599	0.674
110.0	0.974	0.674	0.449	0.449	0.449	0.525	0.525
112.5	0.899	0.599	0.449	0.374	0.374	0.449	0.449

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

115.0	0.824	0.525	0.449	0.374	0.300	0.374	0.374
117.5	0.824	0.599	0.449	0.449	0.374	0.374	0.374
120.0	0.824	0.525	0.449	0.374	0.300	0.374	0.374
122.5	0.824	0.599	0.449	0.374	0.374	0.374	0.374
125.0	0.749	0.599	0.525	0.449	0.374	0.374	0.374
127.5	0.824	0.599	0.449	0.449	0.449	0.374	0.449
130.0	0.899	0.674	0.525	0.525	0.525	0.449	0.449
132.5	0.899	0.749	0.599	0.599	0.525	0.525	0.525
135.0	0.974	0.824	0.599	0.674	0.599	0.525	0.599
137.5	1.048	0.899	0.749	0.674	0.674	0.674	0.599
140.0	1.199	0.974	0.899	0.824	0.749	0.749	0.749
142.5	1.422	1.199	1.048	0.899	0.899	0.824	0.824
145.0	1.573	1.273	1.199	1.123	1.048	0.974	0.974
147.5	1.872	1.573	1.498	1.348	1.273	1.199	1.199
150.0	2.247	1.872	1.798	1.573	1.498	1.498	1.498
152.5	2.621	2.396	2.097	2.022	1.947	1.872	1.947
155.0	3.220	2.995	2.846	2.621	2.621	2.546	2.621
157.5	3.894	3.745	3.669	3.370	3.370	3.295	3.370
160.0	4.643	4.419	4.269	4.119	4.119	4.045	4.119
162.5	5.242	5.018	4.942	4.868	4.868	4.793	4.868
165.0	5.767	5.616	5.542	5.467	5.467	5.392	5.467
167.5	6.066	6.066	5.992	5.992	5.916	5.916	5.992
170.0	6.291	6.291	6.291	6.291	6.216	6.291	6.291
172.5	6.515	6.441	6.441	6.441	6.441	6.515	6.591
175.0	6.441	6.515	6.515	6.515	6.591	6.591	6.666
177.5	6.515	6.515	6.515	6.591	6.666	6.666	6.815
180.0	6.887	6.887	6.887	6.887	6.887	6.887	6.887

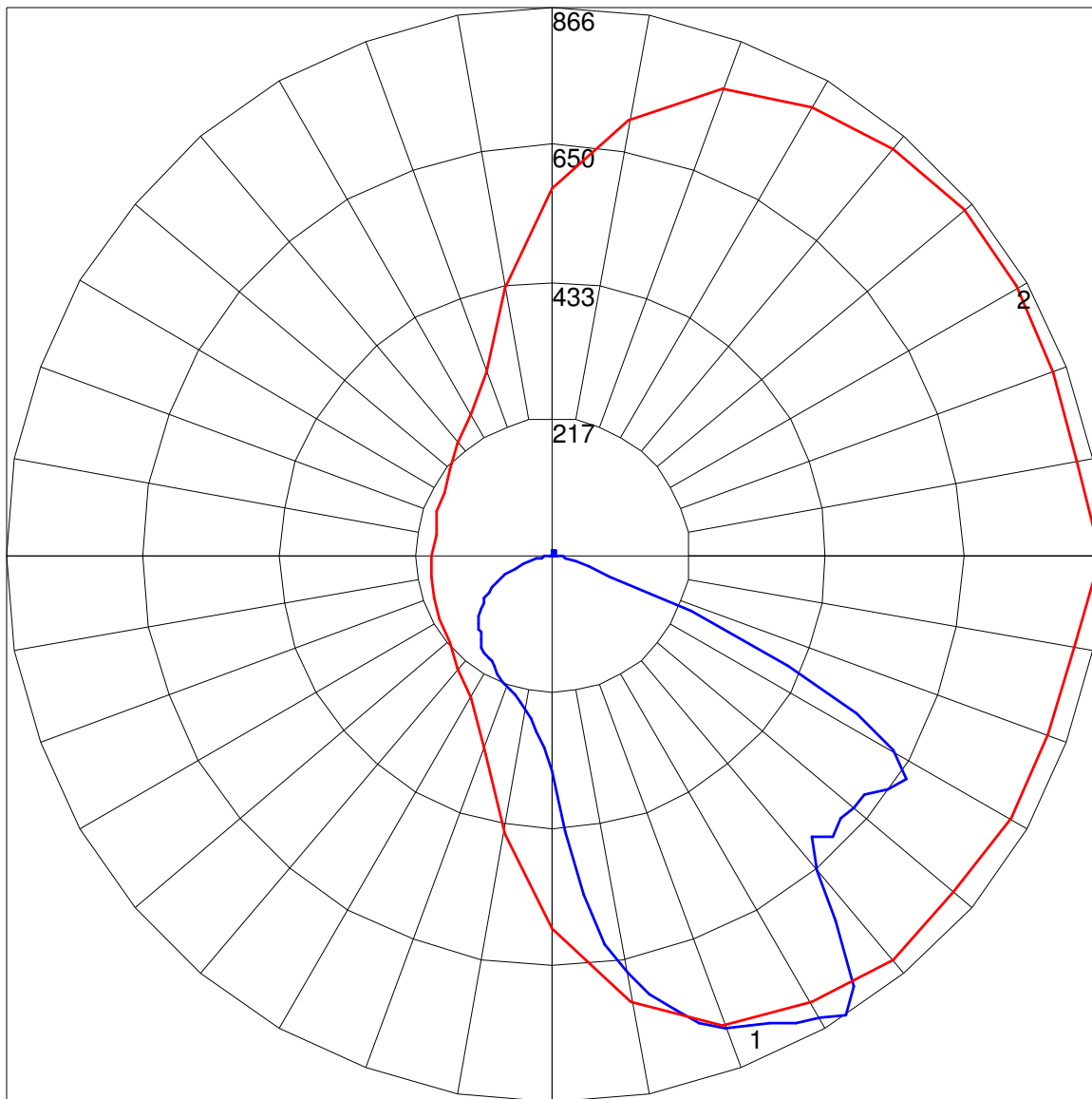
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

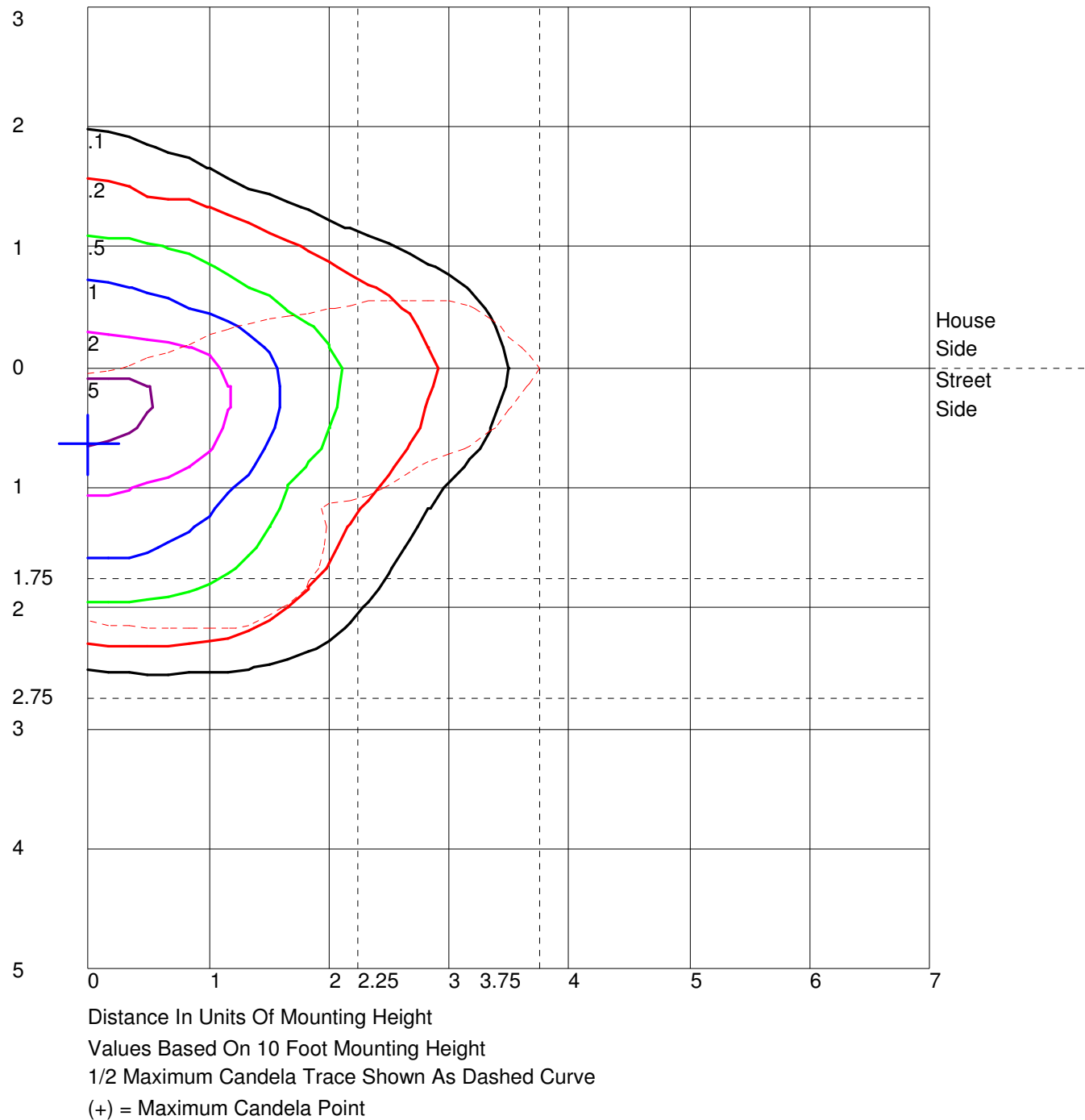
	Lumens	Percent Of Luminaire
Downward Street Side	1476.3	71.0
Downward House Side	589.4	28.3
Downward Total	2065.7	99.4
Upward Street Side	4.6	0.2
Upward House Side	8.8	0.4
Upward Total	13.4	0.6
Total Flux	2079.1	100.0

POLAR GRAPH

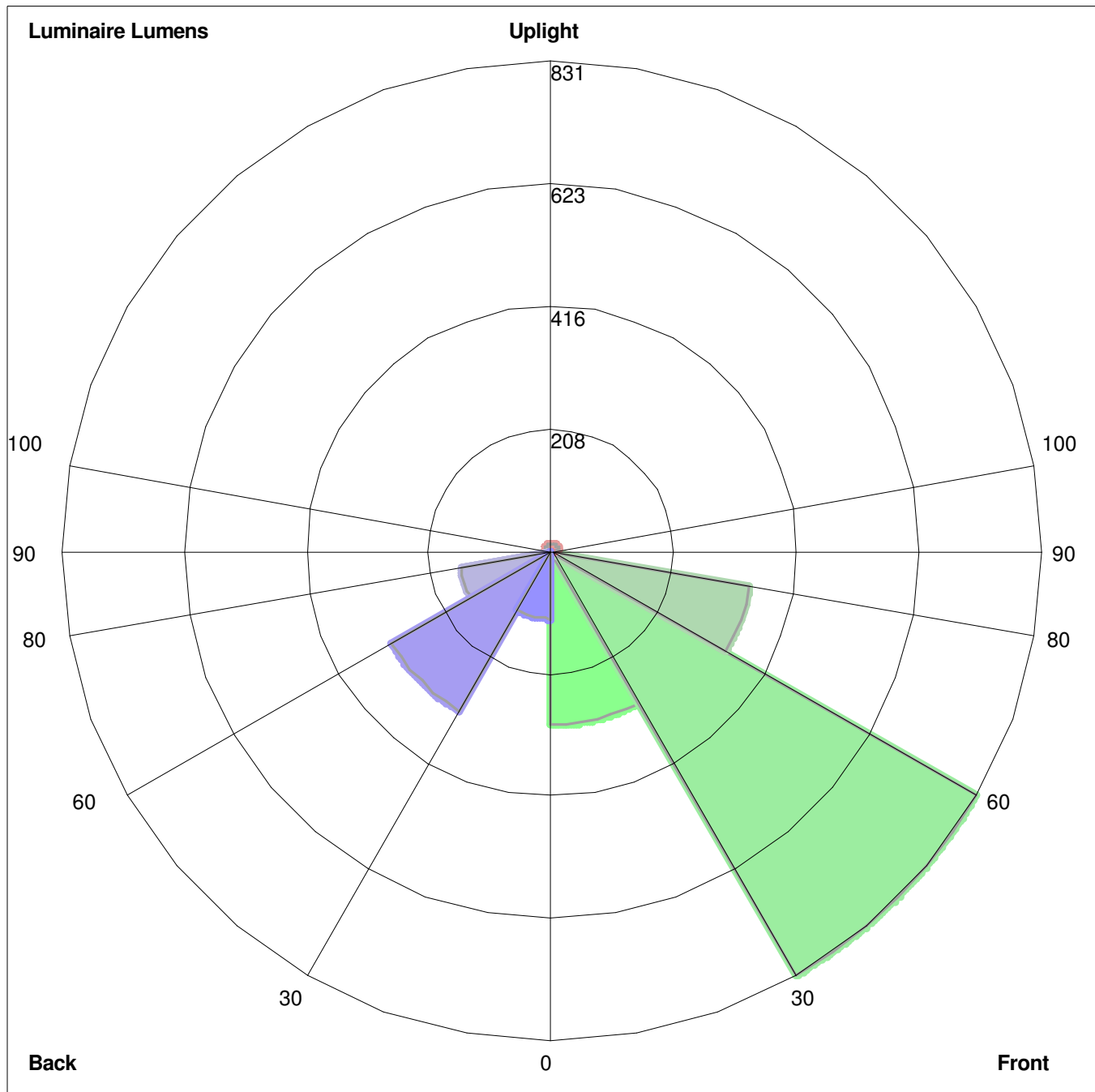


Maximum Candela = 866.191 Located At Horizontal Angle = 360, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=296.2, Medium=831.3, High=341.2, Very High=7.6
Back: Low=114.8, Medium=312.1, High=156.0, Very High=6.5
Uplight: Low=1.5, High=11.8

BUG Rating : B1-U2-G1