



IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L15-840-T3-DIM-UNV.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM Q2016030802 scaled from 22w 5K
[TESTLAB] QSSI
[ISSUE DATE] 03-08-2016
[MANUFAC] H.E. WILLIAMS, INC.
[MORE] CARTHAGE, MO. 64836
[LUMCAT] WPTZS-L15-840-T3-DIM-UNV
[LUMINAIRE] LED WALL PACK ARRAY, 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	1386
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	15.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	577.461
Maximum Candela Angle	360H 32.5V
Maximum Candela (<90 Degrees Vertical)	577.461
Maximum Candela Angle (<90 Degrees Vertical)	360H 32.5V
Maximum Candela At 90 Degrees Vertical	1.298 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	116.93 (8.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	197.4	N.A.	14.2
FM - Front-Medium (30-60)	554.2	N.A.	40.0
FH - Front-High (60-80)	227.5	N.A.	16.4
FVH - Front-Very High (80-90)	5.0	N.A.	0.4
BL - Back-Low (0-30)	76.5	N.A.	5.5
BM - Back-Medium (30-60)	208.1	N.A.	15.0
BH - Back-High (60-80)	104.0	N.A.	7.5
BVH - Back-Very High (80-90)	4.3	N.A.	0.3
UL - Uplight-Low (90-100)	1.0	N.A.	0.1
UH - Uplight-High (100-180)	7.9	N.A.	0.6
Total	1385.9	N.A.	100.0
BUG Rating	B0-U1-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	228.622	228.622	228.622	228.622	228.622	228.622	228.622	228.622	228.622	228.622
2.5	292.525	294.721	288.581	289.579	276.398	272.004	255.878	251.285	239.552	229.516
5.0	360.876	361.375	353.236	350.341	332.816	318.338	302.810	282.090	254.930	234.110
7.5	413.998	412.700	403.763	401.666	377.551	359.028	335.612	316.440	278.445	243.296
10.0	449.646	449.597	440.310	434.369	413.199	392.879	368.764	346.147	302.610	257.026
12.5	475.559	473.212	468.669	463.676	441.958	421.338	398.221	371.910	324.878	272.255
15.0	498.226	495.980	493.882	489.888	466.572	447.899	425.931	397.522	345.947	284.836
17.5	516.849	515.650	515.102	508.811	489.139	467.121	450.995	421.238	365.719	301.961
20.0	531.228	533.375	537.819	528.082	509.859	489.838	473.712	443.755	384.342	316.140
22.5	539.316	546.806	554.295	544.010	528.382	509.260	493.833	464.675	402.066	332.916
25.0	544.609	553.146	563.831	555.743	542.212	525.037	511.357	482.149	419.491	348.943
27.5	557.140	560.785	561.883	563.481	555.343	543.760	527.684	496.229	435.368	360.476
30.0	565.029	561.733	561.834	567.975	563.981	554.894	537.669	511.806	450.495	374.406
32.5	577.461	561.984	563.381	566.677	566.078	559.237	547.205	524.238	465.324	388.486
35.0	554.444	559.337	554.794	558.788	567.126	562.633	555.243	533.425	477.306	398.721
37.5	488.340	507.163	525.537	546.157	568.773	570.521	558.988	541.613	489.439	408.456
40.0	436.167	456.337	474.411	524.987	566.427	565.229	560.136	550.350	499.275	415.796
42.5	403.314	420.739	433.570	480.901	551.798	556.092	558.488	555.443	504.367	421.238
45.0	419.840	419.241	413.199	438.512	518.846	559.537	555.643	556.591	512.006	429.526
47.5	413.449	425.032	418.092	416.545	472.214	554.744	545.657	553.545	520.893	437.614
50.0	413.300	430.475	422.786	421.837	436.416	540.864	534.823	538.967	512.256	431.872
52.5	414.048	436.516	426.430	429.676	424.783	497.527	516.949	508.461	495.980	432.621
55.0	432.522	446.002	439.612	445.103	434.369	446.701	494.531	490.537	493.582	437.964
57.5	441.708	465.673	453.991	450.595	438.662	414.697	471.465	467.770	473.012	430.774
60.0	414.098	433.919	447.100	458.584	431.423	405.011	412.800	434.918	446.751	421.088
62.5	362.872	388.236	408.157	437.364	429.226	380.747	343.551	403.514	432.072	421.038
65.0	275.350	310.599	348.493	384.791	388.985	347.046	295.920	372.609	411.602	419.141
67.5	157.421	198.461	250.087	318.936	326.326	306.455	271.705	342.502	386.039	409.455
70.0	63.857	87.822	136.302	224.224	255.828	260.421	240.251	286.484	355.234	396.523
72.5	39.393	46.483	67.601	115.832	196.215	203.754	198.112	213.839	315.192	369.863
75.0	23.665	28.359	35.798	58.365	113.136	145.139	129.262	135.453	240.101	292.425
77.5	14.379	17.624	21.369	29.557	56.718	84.178	79.635	84.277	155.823	207.149
80.0	9.337	10.335	11.334	15.477	27.760	37.496	45.334	49.378	96.210	116.930
82.5	5.143	5.492	6.740	8.737	12.432	15.977	15.228	22.068	51.575	50.726
85.0	1.897	2.097	2.246	3.545	5.043	6.091	6.141	8.138	13.281	12.482
87.5	0.699	0.749	0.799	0.849	0.899	1.148	1.298	1.747	1.897	2.396
90.0	0.499	0.499	0.499	0.499	0.449	0.400	0.499	0.599	0.699	1.248
92.5	0.449	0.499	0.449	0.449	0.449	0.449	0.499	0.599	0.749	1.199
95.0	0.499	0.449	0.449	0.449	0.449	0.449	0.499	0.649	0.749	1.248
97.5	0.449	0.449	0.449	0.449	0.400	0.449	0.550	0.699	0.799	1.298
100.0	0.400	0.449	0.449	0.449	0.449	0.449	0.550	0.699	0.799	1.298
102.5	0.400	0.449	0.400	0.449	0.499	0.550	0.599	0.699	0.849	1.298
105.0	0.400	0.400	0.449	0.499	0.499	0.550	0.599	0.749	0.899	1.248
107.5	0.449	0.400	0.449	0.449	0.449	0.550	0.599	0.749	0.899	1.248
110.0	0.350	0.350	0.449	0.449	0.499	0.499	0.649	0.749	0.899	1.248
112.5	0.299	0.400	0.449	0.449	0.449	0.550	0.649	0.749	0.899	1.199
115.0	0.250	0.400	0.449	0.449	0.499	0.550	0.649	0.749	0.899	1.199
117.5	0.250	0.350	0.400	0.449	0.449	0.499	0.599	0.799	0.899	1.199
120.0	0.250	0.350	0.400	0.449	0.449	0.499	0.599	0.749	0.899	1.148
122.5	0.250	0.350	0.400	0.449	0.499	0.499	0.599	0.749	0.948	1.148
125.0	0.250	0.400	0.449	0.449	0.499	0.550	0.649	0.749	0.948	1.248
127.5	0.299	0.400	0.449	0.499	0.499	0.550	0.649	0.799	0.999	1.298
130.0	0.299	0.400	0.449	0.499	0.499	0.599	0.699	0.899	1.049	1.348

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132.5	0.350	0.400	0.499	0.499	0.550	0.649	0.749	0.948	1.098	1.348
135.0	0.400	0.400	0.499	0.550	0.649	0.699	0.799	0.948	1.148	1.448
137.5	0.400	0.499	0.550	0.599	0.649	0.749	0.849	1.049	1.248	1.498
140.0	0.499	0.550	0.649	0.649	0.749	0.849	0.948	1.148	1.298	1.597
142.5	0.550	0.599	0.699	0.749	0.849	0.948	1.098	1.248	1.448	1.698
145.0	0.649	0.699	0.799	0.899	0.999	1.098	1.248	1.448	1.597	1.797
147.5	0.799	0.799	0.999	0.999	1.148	1.248	1.498	1.648	1.797	1.947
150.0	0.999	1.049	1.148	1.248	1.448	1.548	1.698	1.848	2.097	2.147
152.5	1.298	1.348	1.498	1.548	1.747	1.897	2.097	2.246	2.497	2.297
155.0	1.747	1.747	1.897	2.047	2.246	2.347	2.546	2.746	2.946	2.546
157.5	2.246	2.297	2.396	2.546	2.746	2.896	3.095	3.245	3.445	2.796
160.0	2.746	2.796	2.946	3.045	3.245	3.395	3.595	3.744	3.894	3.146
162.5	3.245	3.245	3.395	3.495	3.645	3.844	3.994	4.144	4.244	3.495
165.0	3.645	3.694	3.795	3.944	4.094	4.194	4.344	4.493	4.543	3.795
167.5	3.994	4.044	4.094	4.194	4.344	4.493	4.593	4.693	4.843	4.094
170.0	4.194	4.244	4.344	4.394	4.543	4.693	4.743	4.843	4.943	4.344
172.5	4.394	4.394	4.493	4.543	4.643	4.743	4.843	4.943	4.943	4.493
175.0	4.444	4.493	4.593	4.643	4.743	4.793	4.843	4.943	4.943	4.593
177.5	4.543	4.543	4.643	4.743	4.793	4.843	4.843	4.943	4.993	4.643
180.0	4.592	4.592	4.592	4.592	4.592	4.592	4.592	4.592	4.592	4.592

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	228.622	228.622	228.622	228.622	228.622	228.622	228.622	228.622	228.622	228.622
2.5	225.272	219.231	212.142	207.998	204.253	204.852	198.761	200.858	203.005	203.055
5.0	221.628	211.692	202.456	196.764	193.819	191.522	185.780	186.829	186.130	186.979
7.5	220.080	206.649	196.664	188.676	185.181	180.987	176.793	176.993	175.495	176.394
10.0	219.531	202.606	190.972	181.137	176.494	171.900	170.452	167.906	166.458	168.106
12.5	221.928	200.060	186.529	174.796	169.654	164.761	162.964	161.116	158.819	160.916
15.0	227.220	198.262	181.985	171.002	164.611	158.220	156.423	154.575	152.928	154.725
17.5	234.659	197.463	177.741	168.555	158.120	152.229	149.433	148.784	148.734	149.333
20.0	241.749	198.012	174.796	164.011	152.978	148.484	145.139	143.641	145.489	144.739
22.5	251.036	200.559	171.950	161.615	150.232	144.739	142.443	140.845	143.542	141.444
25.0	259.373	201.208	171.950	159.369	147.885	141.844	139.797	137.101	138.399	139.598
27.5	268.011	203.355	171.601	154.626	146.387	139.996	134.954	134.055	132.707	135.154
30.0	276.748	203.704	171.501	154.326	145.039	136.152	132.957	126.416	129.062	132.558
32.5	286.134	206.700	172.300	154.626	141.045	133.406	132.108	125.068	128.014	130.611
35.0	295.471	212.292	175.245	155.873	137.849	132.408	128.513	127.564	128.014	129.312
37.5	305.206	218.183	178.990	154.675	131.658	131.909	127.065	125.068	122.922	127.764
40.0	315.592	222.377	180.488	153.477	140.196	132.358	124.369	118.877	117.279	123.571
42.5	327.224	226.721	181.486	156.023	142.643	129.362	117.979	115.432	111.388	119.776
45.0	334.614	232.961	183.733	156.772	139.398	123.820	115.981	112.586	111.039	116.481
47.5	342.752	239.152	186.779	153.427	130.960	119.676	114.833	110.290	107.294	114.883
50.0	342.902	244.345	184.532	156.023	135.603	119.426	115.083	101.652	102.102	107.494
52.5	338.159	239.851	182.834	153.277	137.750	113.885	94.862	92.566	94.663	96.560
55.0	344.749	238.703	167.307	153.777	132.707	93.614	80.783	89.969	88.022	92.466
57.5	341.753	236.706	174.296	146.687	113.086	92.366	70.448	85.626	86.824	89.370
60.0	332.167	224.374	168.455	132.907	94.762	78.836	66.952	75.391	78.885	82.530
62.5	332.717	217.634	157.072	104.648	71.196	68.850	65.804	69.599	74.442	76.938
65.0	333.865	212.641	140.896	84.028	61.061	65.056	59.064	66.004	65.305	69.150
67.5	328.772	199.610	109.291	71.496	56.318	52.573	50.426	53.222	54.421	58.415
70.0	314.343	178.191	85.526	62.060	42.688	39.642	37.646	38.794	43.337	46.582
72.5	290.627	141.195	65.205	49.029	31.854	29.856	25.363	30.456	32.453	33.102
75.0	221.079	78.636	45.634	34.051	23.067	19.571	16.526	19.871	19.072	20.770
77.5	151.380	42.389	27.360	22.018	14.929	13.181	12.282	12.482	11.983	13.780

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80.0	84.477	24.714	18.223	13.580	9.087	9.386	9.536	8.488	8.188	9.187
82.5	30.156	14.329	10.186	8.138	5.342	5.692	5.342	4.943	5.043	5.342
85.0	8.188	5.442	5.293	4.344	3.595	3.395	3.295	3.245	3.694	3.694
87.5	2.596	2.596	2.696	2.596	2.446	2.246	2.197	2.246	2.446	2.297
90.0	1.298	1.248	1.298	1.199	1.148	1.098	1.049	0.999	0.999	0.999
92.5	1.298	1.248	1.248	1.199	1.098	1.049	1.049	0.999	0.999	0.999
95.0	1.298	1.348	1.298	1.298	1.199	1.148	1.049	1.098	1.098	1.098
97.5	1.348	1.448	1.398	1.348	1.248	1.199	1.148	1.199	1.148	1.199
100.0	1.448	1.448	1.448	1.448	1.348	1.248	1.199	1.199	1.148	1.248
102.5	1.398	1.498	1.548	1.498	1.398	1.298	1.298	1.248	1.248	1.298
105.0	1.398	1.498	1.548	1.498	1.448	1.348	1.298	1.298	1.298	1.298
107.5	1.448	1.498	1.548	1.498	1.448	1.398	1.348	1.348	1.348	1.348
110.0	1.348	1.498	1.548	1.548	1.498	1.448	1.398	1.348	1.398	1.398
112.5	1.398	1.498	1.548	1.548	1.448	1.448	1.398	1.348	1.348	1.398
115.0	1.348	1.498	1.548	1.498	1.448	1.398	1.398	1.348	1.348	1.398
117.5	1.348	1.548	1.498	1.498	1.498	1.348	1.348	1.348	1.348	1.348
120.0	1.348	1.498	1.498	1.498	1.448	1.398	1.348	1.298	1.348	1.348
122.5	1.348	1.498	1.498	1.498	1.448	1.398	1.348	1.298	1.348	1.348
125.0	1.398	1.498	1.597	1.548	1.548	1.498	1.448	1.448	1.448	1.448
127.5	1.448	1.597	1.648	1.648	1.648	1.648	1.597	1.548	1.548	1.597
130.0	1.498	1.698	1.797	1.797	1.848	1.797	1.797	1.747	1.747	1.747
132.5	1.548	1.747	1.848	1.947	1.947	1.947	1.947	1.947	1.947	1.947
135.0	1.648	1.797	1.897	2.047	2.097	2.147	2.147	2.147	2.147	2.097
137.5	1.698	1.848	1.997	2.097	2.197	2.246	2.297	2.297	2.297	2.297
140.0	1.797	1.947	2.097	2.197	2.347	2.396	2.446	2.446	2.497	2.497
142.5	1.897	2.097	2.197	2.347	2.446	2.546	2.596	2.646	2.646	2.646
145.0	1.997	2.197	2.297	2.497	2.596	2.696	2.746	2.796	2.796	2.796
147.5	2.147	2.297	2.446	2.646	2.746	2.896	2.946	2.946	2.946	2.996
150.0	2.297	2.446	2.596	2.846	2.946	2.996	3.095	3.146	3.146	3.146
152.5	2.446	2.596	2.796	2.946	3.146	3.245	3.245	3.295	3.345	3.295
155.0	2.696	2.896	2.996	3.146	3.295	3.395	3.495	3.495	3.495	3.495
157.5	2.946	3.095	3.195	3.295	3.495	3.545	3.645	3.645	3.694	3.595
160.0	3.245	3.345	3.395	3.545	3.645	3.694	3.795	3.795	3.795	3.795
162.5	3.545	3.595	3.645	3.744	3.795	3.894	3.944	3.944	3.994	3.994
165.0	3.844	3.844	3.894	3.894	3.994	4.044	4.044	4.094	4.144	4.144
167.5	4.094	4.044	4.044	4.044	4.094	4.144	4.194	4.244	4.244	4.244
170.0	4.294	4.244	4.194	4.244	4.244	4.294	4.294	4.294	4.344	4.394
172.5	4.394	4.394	4.344	4.344	4.344	4.344	4.344	4.344	4.394	4.493
175.0	4.493	4.444	4.394	4.394	4.344	4.344	4.344	4.394	4.493	4.543
177.5	4.543	4.444	4.394	4.394	4.344	4.344	4.344	4.444	4.493	4.593
180.0	4.592	4.592	4.592	4.592	4.592	4.592	4.592	4.592	4.592	4.592

Vert. 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	228.622	228.622	228.622	228.622	228.622	228.622	228.622	228.622	228.622	228.622
2.5	202.206	205.951	204.104	206.400	210.095	217.684	223.575	229.617	241.100	251.335
5.0	188.426	193.119	191.272	194.767	199.510	208.796	219.182	234.160	257.726	282.190
7.5	178.890	181.636	182.036	186.829	192.321	203.155	217.684	243.446	282.989	317.938
10.0	171.051	172.949	174.846	179.939	187.178	199.610	219.381	259.673	310.200	349.941
12.5	164.112	166.408	167.806	174.147	183.384	196.814	222.377	273.203	334.364	379.199
15.0	157.970	160.566	162.064	169.753	178.940	195.616	228.119	289.579	356.632	406.459
17.5	151.080	155.125	158.020	166.408	175.944	195.366	233.860	305.556	377.601	431.124
20.0	147.336	149.333	154.575	163.812	172.899	196.315	242.698	322.032	397.323	451.444
22.5	144.540	146.687	151.579	161.316	172.150	199.261	254.131	338.658	415.097	469.567
25.0	141.844	143.342	150.232	160.916	171.151	203.055	265.864	354.485	431.473	485.095

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L15-840-T3-DIM-UNV.IES

CANDELA TABULATION - (Cont.)

27.5	137.450	141.245	148.334	159.518	172.150	207.049	276.099	366.568	447.499	502.021
30.0	135.503	140.146	146.836	157.272	172.849	211.992	286.684	379.848	463.726	517.797
32.5	134.954	137.350	143.941	156.722	172.849	216.485	299.565	393.278	478.405	527.633
35.0	133.156	137.650	142.194	157.721	174.596	221.428	312.096	407.408	491.686	538.618
37.5	131.658	136.003	141.095	158.570	176.443	228.468	323.530	420.439	502.420	543.510
40.0	127.315	134.854	143.092	156.123	179.439	232.312	333.116	431.723	507.862	547.854
42.5	122.073	129.662	143.841	157.022	182.984	236.756	338.958	434.669	504.916	549.202
45.0	119.277	126.616	139.497	159.818	188.676	235.458	334.913	429.326	490.088	531.478
47.5	118.828	124.269	135.503	158.220	189.824	238.104	341.853	435.567	490.288	506.065
50.0	116.630	123.171	132.907	152.728	185.181	246.143	349.492	440.560	490.537	496.878
52.5	103.400	120.375	132.108	143.591	178.540	251.036	351.739	435.817	479.953	483.447
55.0	95.312	106.096	127.914	136.951	174.397	244.045	343.651	424.433	456.437	459.083
57.5	92.166	96.260	107.095	134.005	163.562	234.908	344.999	426.031	442.857	436.565
60.0	86.524	89.271	91.317	122.123	153.926	231.963	346.596	427.878	434.219	421.887
62.5	80.783	81.731	82.630	105.098	143.242	217.584	346.397	426.630	419.491	401.317
65.0	71.796	68.800	74.043	87.023	128.963	202.656	341.254	420.639	397.672	365.169
67.5	59.963	57.067	62.010	73.543	109.740	188.776	332.517	404.362	366.817	303.160
70.0	46.633	43.886	48.330	57.567	81.132	162.614	308.751	375.555	321.233	234.210
72.5	30.705	31.255	35.499	41.989	57.966	126.067	252.334	306.854	249.737	161.715
75.0	19.771	22.317	25.214	29.707	35.798	70.598	181.786	233.511	176.394	96.460
77.5	13.880	15.477	16.626	18.873	23.016	38.295	121.224	158.420	114.933	58.465
80.0	9.486	11.134	10.535	11.583	15.228	23.216	66.104	86.025	60.512	29.557
82.5	5.891	6.640	6.041	7.639	8.288	12.282	29.308	33.252	22.367	11.583
85.0	3.744	3.994	4.044	3.994	4.344	5.192	6.191	6.391	5.891	3.495
87.5	2.396	2.396	2.446	2.347	2.097	2.047	1.997	1.848	1.597	1.498
90.0	1.049	1.049	1.098	1.148	1.199	1.148	1.098	1.199	1.098	0.948
92.5	1.049	1.098	1.148	1.248	1.248	1.248	1.148	1.248	1.098	0.948
95.0	1.098	1.199	1.248	1.298	1.348	1.298	1.248	1.248	1.148	0.948
97.5	1.199	1.248	1.348	1.398	1.448	1.398	1.298	1.298	1.098	0.948
100.0	1.248	1.298	1.398	1.448	1.548	1.498	1.348	1.298	1.098	0.899
102.5	1.298	1.398	1.498	1.498	1.548	1.498	1.398	1.298	1.098	0.899
105.0	1.398	1.448	1.548	1.548	1.597	1.548	1.448	1.248	1.098	0.849
107.5	1.398	1.498	1.548	1.597	1.597	1.597	1.448	1.199	0.999	0.849
110.0	1.448	1.498	1.548	1.597	1.648	1.597	1.398	1.199	1.049	0.799
112.5	1.448	1.498	1.548	1.548	1.648	1.548	1.398	1.199	0.999	0.799
115.0	1.398	1.498	1.498	1.597	1.648	1.548	1.398	1.199	0.999	0.749
117.5	1.398	1.448	1.548	1.597	1.597	1.548	1.398	1.199	0.948	0.749
120.0	1.398	1.448	1.548	1.548	1.597	1.548	1.398	1.199	0.948	0.699
122.5	1.398	1.448	1.498	1.548	1.548	1.498	1.398	1.199	0.948	0.699
125.0	1.498	1.548	1.548	1.597	1.648	1.548	1.398	1.248	0.948	0.749
127.5	1.597	1.698	1.698	1.747	1.747	1.597	1.448	1.248	0.948	0.749
130.0	1.797	1.848	1.848	1.848	1.797	1.698	1.498	1.248	0.999	0.799
132.5	1.947	1.997	1.997	1.997	1.897	1.797	1.548	1.199	0.999	0.799
135.0	2.097	2.147	2.147	2.147	1.997	1.797	1.648	1.248	0.999	0.849
137.5	2.347	2.297	2.297	2.197	2.097	1.897	1.698	1.298	1.098	0.849
140.0	2.497	2.446	2.396	2.297	2.147	1.997	1.797	1.398	1.199	0.948
142.5	2.646	2.596	2.546	2.396	2.246	2.097	1.947	1.498	1.298	1.098
145.0	2.796	2.746	2.646	2.546	2.396	2.246	2.047	1.648	1.448	1.248
147.5	2.946	2.946	2.796	2.696	2.497	2.347	2.197	1.797	1.597	1.398
150.0	3.095	3.045	2.946	2.846	2.696	2.546	2.396	2.047	1.797	1.648
152.5	3.245	3.195	3.146	3.095	2.896	2.796	2.646	2.347	2.097	1.897
155.0	3.445	3.395	3.295	3.295	3.146	3.045	2.946	2.746	2.497	2.347
157.5	3.595	3.595	3.495	3.495	3.395	3.345	3.245	3.195	2.996	2.796
160.0	3.795	3.795	3.744	3.744	3.694	3.645	3.545	3.595	3.395	3.245
162.5	3.944	3.944	3.944	3.894	3.944	3.894	3.894	3.944	3.744	3.694
165.0	4.144	4.144	4.144	4.144	4.144	4.194	4.194	4.194	4.094	3.944

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L15-840-T3-DIM-UNV.IES

CANDELA TABULATION - (Cont.)

167.5	4.294	4.344	4.344	4.344	4.344	4.444	4.493	4.394	4.244	4.144
170.0	4.444	4.444	4.543	4.543	4.593	4.643	4.693	4.444	4.344	4.294
172.5	4.543	4.593	4.643	4.643	4.743	4.743	4.793	4.493	4.394	4.344
175.0	4.593	4.693	4.693	4.743	4.743	4.843	4.843	4.543	4.394	4.344
177.5	4.643	4.743	4.743	4.743	4.793	4.893	4.993	4.593	4.493	4.394
180.0	4.592	4.592	4.592	4.592	4.592	4.592	4.592	4.592	4.592	4.592

Vert. Angles **Horizontal Angles**

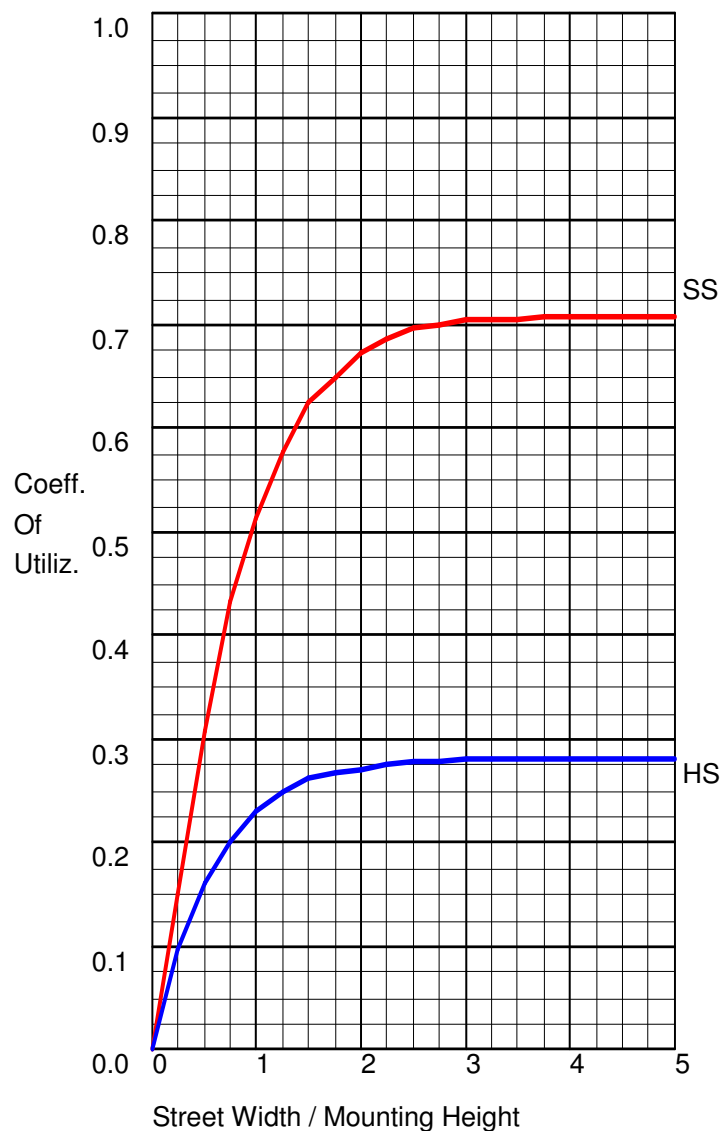
	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	228.622	228.622	228.622	228.622	228.622	228.622	228.622
2.5	257.925	267.711	273.702	285.884	283.888	293.324	292.525
5.0	312.895	317.189	329.621	347.046	348.744	360.077	360.876
7.5	340.954	361.924	384.142	398.421	401.117	412.800	413.998
10.0	377.202	399.469	417.094	436.216	436.915	448.399	449.646
12.5	408.506	430.175	446.850	465.424	464.025	475.509	475.559
15.0	435.916	456.437	472.863	490.337	488.041	499.424	498.226
17.5	460.331	478.006	497.327	509.360	509.659	516.550	516.849
20.0	481.550	496.728	518.097	523.140	531.178	534.273	531.228
22.5	499.075	508.161	531.128	535.571	548.254	545.607	539.316
25.0	517.049	519.545	543.660	546.905	554.594	555.243	544.609
27.5	531.977	535.822	548.453	552.946	552.497	561.135	557.140
30.0	540.065	551.199	550.300	556.791	552.747	557.839	565.029
32.5	546.256	558.588	552.946	558.438	556.491	559.237	577.461
35.0	551.199	559.687	551.549	551.848	552.198	546.905	554.444
37.5	554.894	557.340	555.443	537.369	504.567	494.731	488.340
40.0	550.900	551.499	556.741	499.774	461.529	453.192	436.167
42.5	550.201	547.504	538.018	452.742	422.835	423.585	403.314
45.0	542.162	551.549	483.597	416.295	412.002	425.831	419.840
47.5	524.738	532.476	432.072	409.705	414.697	426.131	413.449
50.0	497.527	486.044	406.759	413.899	419.690	426.730	413.300
52.5	489.439	440.360	416.644	422.586	423.484	432.721	414.048
55.0	476.208	410.753	427.878	435.617	433.270	444.654	432.522
57.5	423.834	403.064	431.872	442.307	453.441	460.580	441.708
60.0	371.210	395.026	431.074	453.991	436.167	421.238	414.098
62.5	337.559	373.607	427.978	424.483	396.923	378.300	362.872
65.0	323.480	352.737	366.467	373.857	336.611	299.066	275.350
67.5	287.083	304.608	303.858	299.565	232.612	182.885	157.421
70.0	232.162	248.240	235.408	190.773	111.288	74.742	63.857
72.5	164.761	187.278	152.279	81.432	49.728	42.039	39.393
75.0	98.407	123.421	71.596	40.741	28.659	25.962	23.665
77.5	55.369	59.264	34.001	19.971	17.225	15.877	14.379
80.0	29.507	22.767	16.726	10.685	9.436	9.586	9.337
82.5	10.635	8.437	6.541	6.141	5.592	5.043	5.143
85.0	3.545	2.846	2.846	2.297	2.047	2.047	1.897
87.5	1.248	1.049	0.899	0.899	0.749	0.699	0.699
90.0	0.749	0.649	0.599	0.599	0.550	0.499	0.499
92.5	0.749	0.699	0.599	0.550	0.499	0.499	0.449
95.0	0.699	0.649	0.550	0.550	0.499	0.449	0.499
97.5	0.749	0.599	0.599	0.499	0.449	0.449	0.449
100.0	0.699	0.599	0.499	0.449	0.400	0.400	0.400
102.5	0.699	0.550	0.499	0.449	0.400	0.400	0.400
105.0	0.699	0.499	0.449	0.449	0.400	0.400	0.400
107.5	0.649	0.499	0.350	0.400	0.400	0.400	0.449
110.0	0.649	0.449	0.299	0.299	0.299	0.350	0.350
112.5	0.599	0.400	0.299	0.250	0.250	0.299	0.299

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L15-840-T3-DIM-UNV.IES

CANDELA TABULATION - (Cont.)

115.0	0.550	0.350	0.299	0.250	0.200	0.250	0.250
117.5	0.550	0.400	0.299	0.299	0.250	0.250	0.250
120.0	0.550	0.350	0.299	0.250	0.200	0.250	0.250
122.5	0.550	0.400	0.299	0.250	0.250	0.250	0.250
125.0	0.499	0.400	0.350	0.299	0.250	0.250	0.250
127.5	0.550	0.400	0.299	0.299	0.299	0.250	0.299
130.0	0.599	0.449	0.350	0.350	0.350	0.299	0.299
132.5	0.599	0.499	0.400	0.400	0.350	0.350	0.350
135.0	0.649	0.550	0.400	0.449	0.400	0.350	0.400
137.5	0.699	0.599	0.499	0.449	0.449	0.449	0.400
140.0	0.799	0.649	0.599	0.550	0.499	0.499	0.499
142.5	0.948	0.799	0.699	0.599	0.599	0.550	0.550
145.0	1.049	0.849	0.799	0.749	0.699	0.649	0.649
147.5	1.248	1.049	0.999	0.899	0.849	0.799	0.799
150.0	1.498	1.248	1.199	1.049	0.999	0.999	0.999
152.5	1.747	1.597	1.398	1.348	1.298	1.248	1.298
155.0	2.147	1.997	1.897	1.747	1.747	1.698	1.747
157.5	2.596	2.497	2.446	2.246	2.246	2.197	2.246
160.0	3.095	2.946	2.846	2.746	2.746	2.696	2.746
162.5	3.495	3.345	3.295	3.245	3.245	3.195	3.245
165.0	3.844	3.744	3.694	3.645	3.645	3.595	3.645
167.5	4.044	4.044	3.994	3.994	3.944	3.944	3.994
170.0	4.194	4.194	4.194	4.194	4.144	4.194	4.194
172.5	4.344	4.294	4.294	4.294	4.294	4.344	4.394
175.0	4.294	4.344	4.344	4.344	4.394	4.394	4.444
177.5	4.344	4.344	4.344	4.394	4.444	4.444	4.543
180.0	4.592	4.592	4.592	4.592	4.592	4.592	4.592

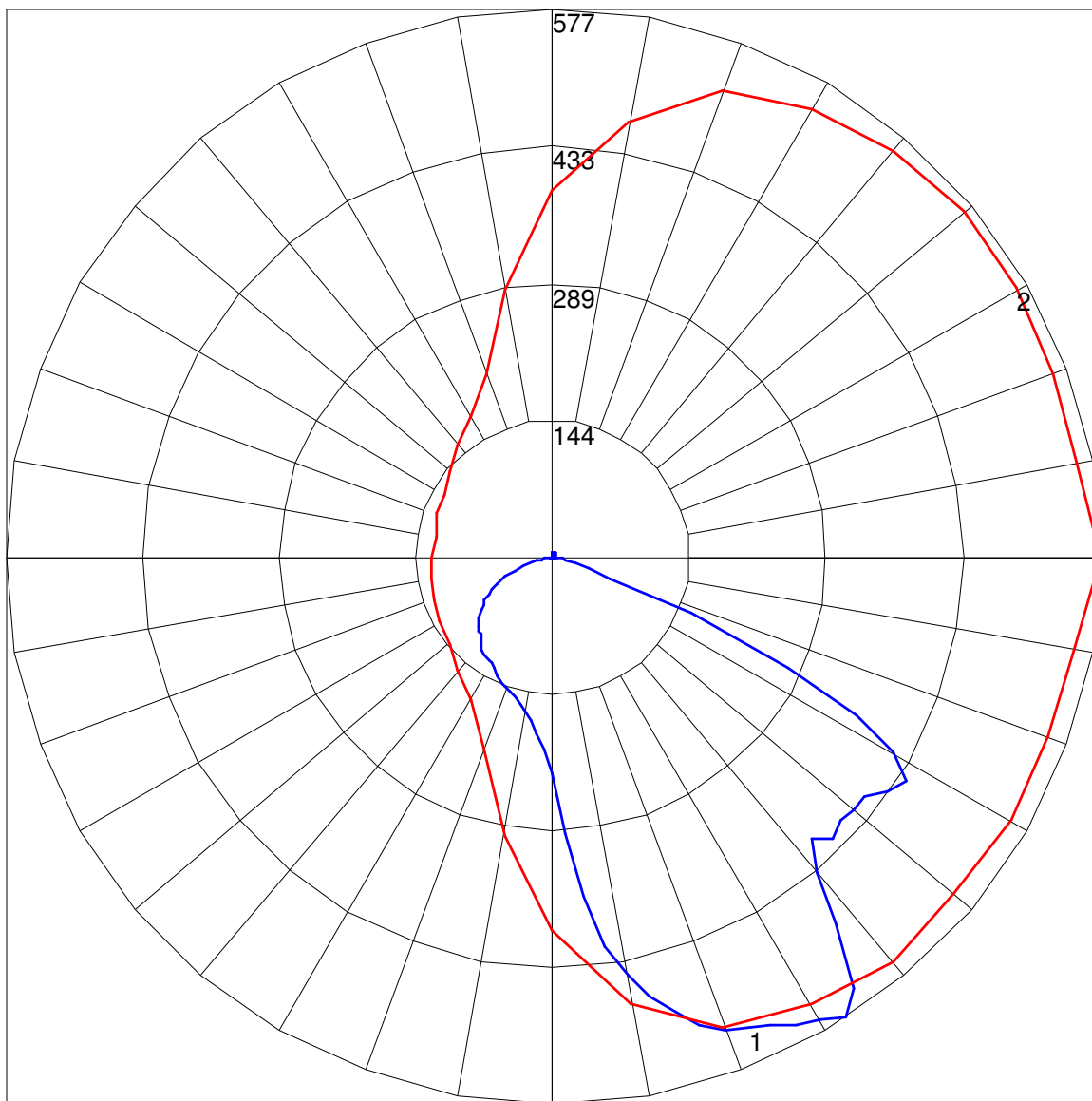
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

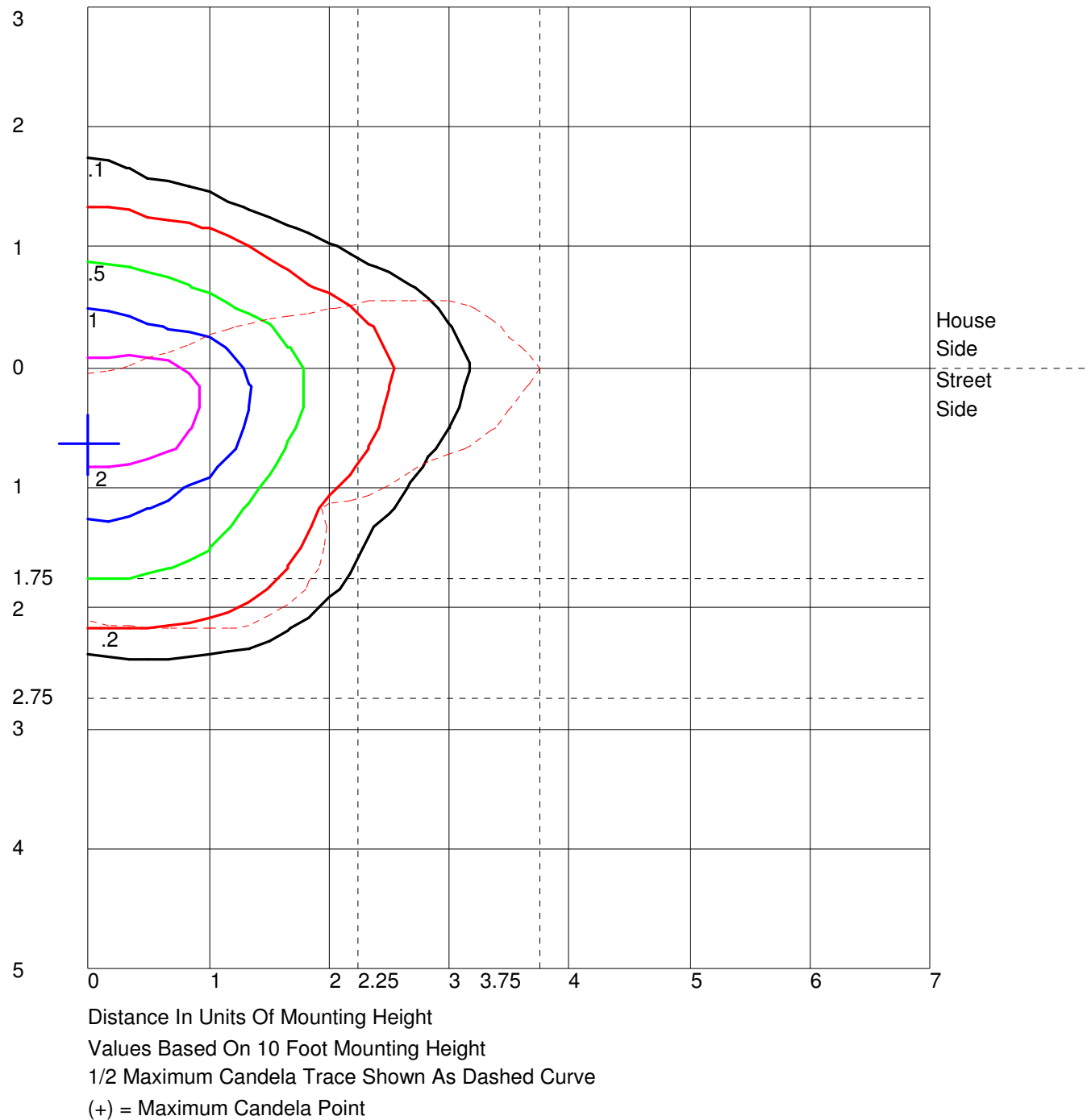
	Lumens	Percent Of Luminaire
Downward Street Side	984.2	71.0
Downward House Side	392.9	28.3
Downward Total	1377.1	99.4
Upward Street Side	3.0	0.2
Upward House Side	5.9	0.4
Upward Total	8.9	0.6
Total Flux	1386.0	100.0

POLAR GRAPH

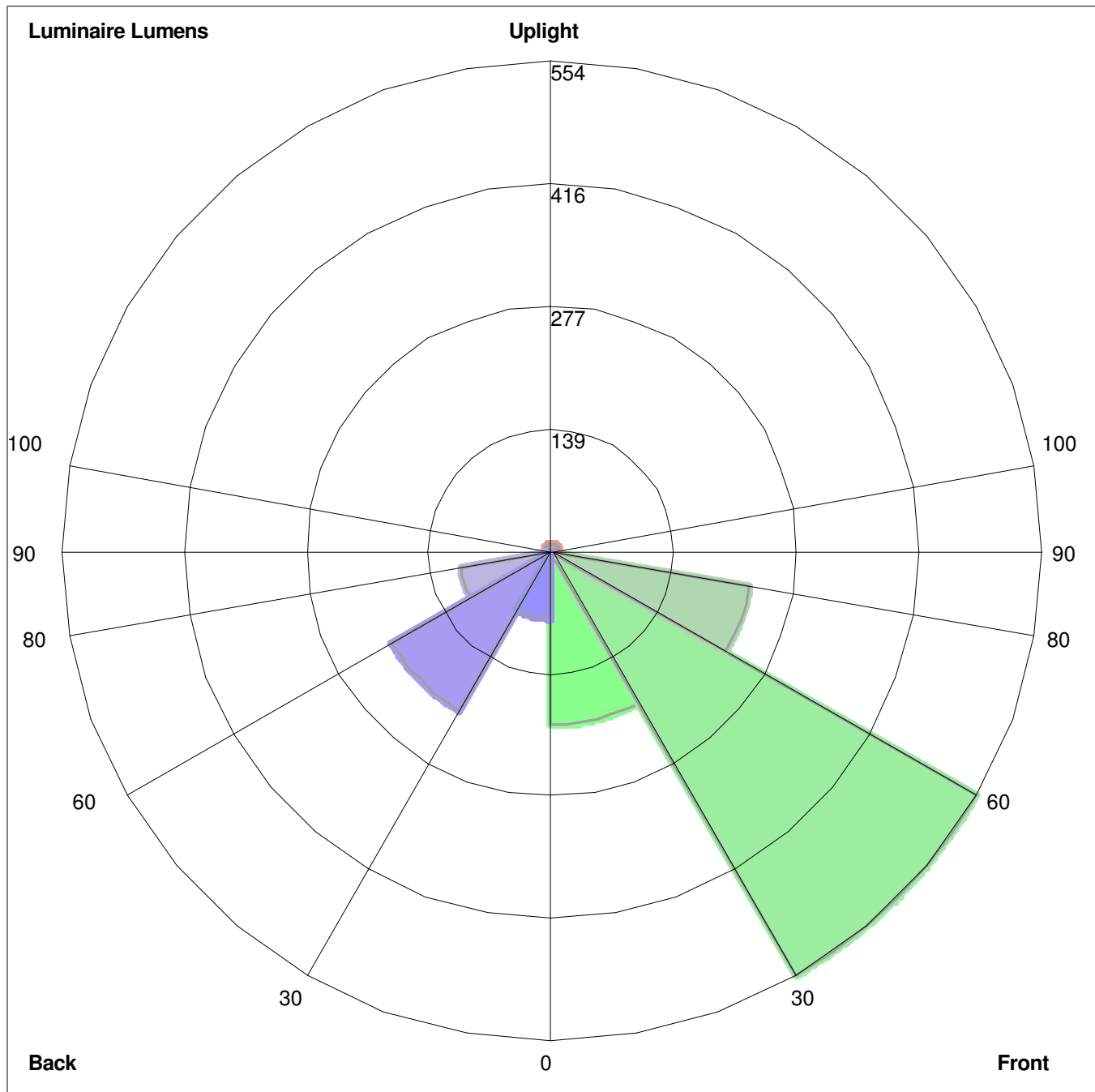


Maximum Candela = 577.461 Located At Horizontal Angle = 360, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=197.4, Medium=554.2, High=227.5, Very High=5.0
Back: Low=76.5, Medium=208.1, High=104.0, Very High=4.3
Uplight: Low=1.0, High=7.9

BUG Rating : B0-U1-G0