



IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L20-850-T5-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM Q2016030501 improved 070120
[TESTLAB] QSSI
[ISSUEDATE] 04/20/2026
[MANUFAC] H.E. WILLIAMS, INC.
[MORE] CARTHAGE, MO. 64836
[LUMCAT] WPTZS-L20-850-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	2432
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	23.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	937.154
Maximum Candela Angle	10H 5V
Maximum Candela (<90 Degrees Vertical)	937.154
Maximum Candela Angle (<90 Degrees Vertical)	10H 5V
Maximum Candela At 90 Degrees Vertical	1.17 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	34.559 (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)	373.1	N.A.	15.3
FM - Front-Medium (30-60)	673.7	N.A.	27.7
FH - Front-High (60-80)	179.9	N.A.	7.4
FVH - Front-Very High (80-90)	5.0	N.A.	0.2
BL - Back-Low (0-30)	359.5	N.A.	14.8
BM - Back-Medium (30-60)	672.4	N.A.	27.7
BH - Back-High (60-80)	146.2	N.A.	6.0
BVH - Back-Very High (80-90)	4.6	N.A.	0.2
UL - Uplight-Low (90-100)	1.0	N.A.	0.0
UH - Uplight-High (100-180)	16.2	N.A.	0.7
Total	2431.6	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	924.031	924.031	924.031	924.031	924.031	924.031	924.031	924.031	924.031	924.031
2.5	931.849	935.750	925.374	925.530	917.495	922.410	920.694	932.629	923.268	913.048
5.0	933.020	937.154	929.977	927.090	915.701	922.800	920.849	931.069	919.523	910.552
7.5	933.487	934.891	929.431	926.154	918.588	921.006	921.318	926.701	916.247	906.964
10.0	932.863	935.593	921.785	921.161	915.856	917.417	918.977	920.849	912.658	903.219
12.5	929.353	930.679	920.304	914.842	911.410	911.644	915.311	914.609	907.821	899.240
15.0	923.112	922.410	915.389	912.112	906.339	901.269	909.147	907.276	901.736	893.623
17.5	911.800	911.176	912.346	910.161	901.659	890.503	902.048	899.553	893.468	886.992
20.0	903.687	901.424	906.027	902.283	892.375	880.518	893.623	891.439	883.950	879.035
22.5	899.942	901.659	901.034	893.077	880.595	872.248	883.013	881.766	871.936	873.262
25.0	877.241	892.453	895.262	883.248	869.752	860.234	866.008	871.546	855.865	864.447
27.5	857.504	868.426	876.851	872.872	854.774	844.945	854.774	855.710	837.845	851.887
30.0	850.873	854.539	855.710	853.682	839.952	829.809	837.767	833.008	821.151	835.583
32.5	822.555	832.541	832.306	840.497	825.910	816.626	820.136	819.980	804.769	819.746
35.0	731.671	737.366	794.159	825.441	810.697	798.449	800.166	801.726	785.889	795.095
37.5	617.619	633.455	690.560	776.762	795.797	780.429	774.344	774.889	762.720	767.790
40.0	578.924	581.655	579.626	666.142	777.698	769.429	757.649	751.252	739.863	736.196
42.5	546.004	560.670	563.011	571.123	702.417	739.082	731.047	732.842	716.771	710.062
45.0	537.188	540.231	541.323	541.868	581.265	704.055	704.757	713.572	680.574	675.112
47.5	532.898	512.927	523.692	518.621	517.217	661.227	672.304	664.737	625.497	616.917
50.0	491.084	489.913	497.948	499.509	492.488	556.613	605.058	611.612	593.122	581.499
52.5	453.793	462.765	472.126	468.616	472.049	478.445	557.393	575.180	563.011	551.074
55.0	425.241	433.901	434.837	436.631	445.213	438.192	520.494	532.429	522.366	510.119
57.5	389.980	401.136	411.901	415.178	418.767	408.235	451.141	471.190	457.148	453.326
60.0	358.464	364.626	372.037	377.577	382.725	376.173	351.910	418.610	420.171	403.866
62.5	327.727	329.911	333.265	339.117	343.408	325.621	304.323	380.775	373.364	358.932
65.0	271.324	284.119	289.423	305.025	302.763	281.544	269.296	334.202	321.954	308.848
67.5	230.680	237.546	244.333	247.843	241.992	243.631	230.213	266.176	266.176	252.523
70.0	164.683	187.228	193.547	202.908	201.114	200.802	186.136	183.328	199.710	200.256
72.5	104.770	110.309	121.230	144.244	153.995	155.321	137.457	123.882	141.903	132.464
75.0	74.969	76.530	83.004	81.054	108.124	105.394	86.983	75.594	90.650	84.331
77.5	46.261	46.807	48.133	53.282	56.402	62.331	54.842	50.396	54.998	54.530
80.0	22.155	22.779	27.538	31.517	33.857	33.310	34.559	30.892	34.247	33.233
82.5	10.453	13.106	14.354	15.836	18.645	18.176	17.709	17.085	17.709	19.659
85.0	5.850	5.695	6.162	6.397	7.489	7.801	8.815	8.425	9.127	9.908
87.5	1.326	1.248	1.404	1.404	2.263	2.106	2.965	3.042	3.510	4.056
90.0	0.546	0.468	0.546	0.546	0.546	0.468	0.546	0.546	0.624	0.936
92.5	0.468	0.468	0.468	0.468	0.546	0.546	0.546	0.546	0.624	0.936
95.0	0.546	0.546	0.546	0.546	0.624	0.624	0.624	0.624	0.702	0.936
97.5	0.546	0.546	0.546	0.546	0.624	0.624	0.624	0.702	0.624	1.014
100.0	0.624	0.624	0.624	0.624	0.624	0.702	0.702	0.702	0.780	1.014
102.5	0.624	0.624	0.624	0.702	0.780	0.780	0.780	0.780	0.780	1.092
105.0	0.702	0.702	0.702	0.780	0.780	0.780	0.859	0.859	0.859	1.092
107.5	0.780	0.780	0.780	0.780	0.780	0.859	0.859	0.936	0.936	1.170
110.0	0.780	0.780	0.780	0.859	0.859	0.859	0.936	0.936	1.014	1.170
112.5	0.780	0.859	0.859	0.936	0.859	0.936	1.014	1.014	1.092	1.248
115.0	0.859	0.859	0.936	0.936	1.014	0.936	1.014	1.014	1.092	1.248
117.5	0.936	0.936	0.936	1.014	0.936	1.092	1.092	1.092	1.170	1.326
120.0	1.014	1.014	1.014	1.014	1.092	1.092	1.092	1.092	1.092	1.326
122.5	1.092	1.014	1.092	1.092	1.092	1.170	1.170	1.170	1.248	1.404
125.0	1.170	1.170	1.170	1.248	1.248	1.248	1.248	1.326	1.326	1.482
127.5	1.326	1.326	1.326	1.404	1.404	1.404	1.404	1.482	1.561	1.716
130.0	1.561	1.561	1.561	1.561	1.561	1.638	1.638	1.638	1.716	1.950

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CANDELA TABULATION - (Cont.)

132.5	1.716	1.716	1.716	1.716	1.794	1.873	1.950	1.950	2.028	2.263
135.0	1.950	2.028	2.028	2.028	2.106	2.106	2.263	2.263	2.263	2.575
137.5	2.340	2.340	2.340	2.418	2.418	2.418	2.496	2.575	2.652	2.887
140.0	2.652	2.652	2.652	2.730	2.808	2.808	2.887	2.965	3.042	3.277
142.5	3.042	3.120	3.120	3.199	3.199	3.277	3.277	3.354	3.432	3.744
145.0	3.589	3.667	3.589	3.667	3.744	3.744	3.822	3.979	4.056	4.291
147.5	4.134	4.291	4.213	4.213	4.291	4.446	4.525	4.603	4.681	4.836
150.0	4.836	4.836	4.915	4.993	4.993	5.071	5.227	5.383	5.617	5.383
152.5	5.695	5.617	5.695	5.850	6.007	6.162	6.241	6.475	6.631	6.162
155.0	6.787	6.787	7.021	6.943	7.099	7.255	7.568	7.880	8.035	7.021
157.5	7.957	7.957	8.035	8.113	8.425	8.659	8.894	9.049	9.439	7.957
160.0	9.049	9.049	9.205	9.284	9.596	9.829	10.063	10.298	10.610	8.972
162.5	10.063	10.063	10.220	10.298	10.531	10.765	11.000	11.234	11.545	9.908
165.0	10.843	11.000	11.078	11.234	11.390	11.545	11.780	12.014	12.326	10.765
167.5	11.467	11.545	11.624	11.780	11.936	12.169	12.326	12.560	12.794	11.545
170.0	11.936	11.857	12.014	12.014	12.248	12.404	12.560	12.794	13.028	12.169
172.5	12.092	12.169	12.169	12.248	12.404	12.482	12.638	12.871	12.950	12.482
175.0	12.248	12.326	12.326	12.326	12.482	12.560	12.716	12.794	12.871	12.794
177.5	12.326	12.404	12.482	12.482	12.638	12.716	12.794	12.871	12.950	12.950
180.0	12.665	12.665	12.665	12.665	12.665	12.665	12.665	12.665	12.665	12.665

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	924.031	924.031	924.031	924.031	924.031	924.031	924.031	924.031	924.031	924.031
2.5	931.225	928.417	923.112	919.757	922.332	918.509	917.105	915.154	926.232	928.027
5.0	924.438	922.487	918.588	915.154	917.417	920.616	906.729	912.268	918.353	920.147
7.5	918.197	916.637	912.970	909.538	914.219	914.687	895.496	905.793	911.020	908.602
10.0	912.814	909.694	905.481	901.971	908.212	903.687	888.241	896.978	903.687	902.829
12.5	906.105	898.851	897.212	890.815	899.163	886.525	890.424	889.645	893.233	894.325
15.0	898.851	893.311	889.645	878.723	883.950	876.383	885.823	880.752	872.248	878.723
17.5	891.361	882.234	880.752	881.220	878.489	863.199	866.631	862.809	863.823	867.022
20.0	878.099	869.440	862.887	881.687	856.567	845.100	842.682	848.065	860.703	851.107
22.5	863.043	862.964	845.100	869.518	842.604	838.079	831.058	830.511	855.241	836.285
25.0	844.866	842.525	828.718	849.781	832.541	824.115	831.916	813.349	847.051	824.115
27.5	825.208	823.023	819.903	818.654	819.044	810.931	805.938	799.931	791.974	802.896
30.0	809.137	801.492	802.194	799.229	806.328	783.549	768.727	774.187	761.471	771.614
32.5	794.705	782.145	788.386	788.229	783.159	760.614	768.337	761.628	744.933	755.309
35.0	775.982	762.876	770.443	771.847	742.359	749.457	749.457	738.147	743.295	729.565
37.5	754.450	742.671	755.152	739.161	713.417	727.302	719.267	710.452	723.480	708.658
40.0	733.466	724.338	732.452	703.587	700.154	700.077	682.758	686.893	681.900	679.091
42.5	709.828	695.551	701.246	690.325	692.743	664.581	660.056	659.666	631.973	652.567
45.0	677.999	669.262	677.921	660.759	655.142	633.689	623.859	627.525	628.774	623.469
47.5	622.533	637.356	646.171	625.732	612.469	602.172	592.732	589.924	578.378	585.633
50.0	578.612	587.896	591.016	597.803	581.811	571.436	560.279	535.394	526.734	537.422
52.5	543.039	548.188	531.103	566.521	555.755	529.387	474.389	433.433	429.844	437.490
55.0	505.593	510.664	494.048	518.699	512.692	451.375	377.889	345.669	333.656	341.847
57.5	446.617	462.531	465.417	456.758	450.985	351.053	317.274	303.621	307.210	306.429
60.0	402.072	398.952	421.107	415.335	348.009	292.544	280.452	265.629	259.311	258.843
62.5	361.584	354.485	372.115	356.981	252.913	256.190	237.779	227.014	223.582	221.787
65.0	312.905	311.188	313.763	243.552	218.744	211.568	197.291	184.965	181.689	182.157
67.5	254.552	255.566	249.871	192.533	175.058	162.030	156.413	144.868	141.669	137.535
70.0	194.795	195.965	180.051	150.641	134.180	116.861	113.585	104.068	102.507	104.692
72.5	135.662	139.641	119.358	108.124	96.969	81.756	75.516	71.770	67.792	70.211
75.0	85.812	92.990	79.338	77.934	66.310	55.622	44.701	40.488	37.289	39.084
77.5	54.453	47.744	47.587	48.679	41.424	32.063	27.694	27.226	25.354	26.056

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CANDELA TABULATION - (Cont.)

80.0	33.077	29.645	29.333	27.226	23.793	21.843	19.971	18.645	18.099	17.552
82.5	17.787	18.566	17.709	16.226	13.964	12.482	10.531	10.141	9.517	9.517
85.0	9.127	8.894	8.113	8.191	6.787	6.553	6.085	5.695	6.241	5.227
87.5	3.277	3.979	3.744	3.277	3.199	2.496	2.263	2.106	2.028	2.418
90.0	0.859	1.014	1.092	1.014	1.092	1.014	1.170	1.092	1.092	1.092
92.5	0.936	1.014	1.014	1.014	1.014	1.092	1.092	1.170	1.092	1.092
95.0	1.014	1.014	1.092	1.092	1.092	1.170	1.170	1.170	1.248	1.170
97.5	1.014	1.092	1.092	1.170	1.170	1.170	1.248	1.248	1.248	1.326
100.0	1.014	1.092	1.170	1.170	1.248	1.170	1.326	1.326	1.326	1.326
102.5	1.092	1.170	1.248	1.248	1.326	1.326	1.326	1.326	1.404	1.404
105.0	1.092	1.248	1.248	1.326	1.326	1.326	1.404	1.404	1.404	1.404
107.5	1.170	1.248	1.326	1.404	1.404	1.404	1.482	1.482	1.482	1.482
110.0	1.248	1.326	1.326	1.404	1.404	1.482	1.404	1.482	1.482	1.482
112.5	1.248	1.404	1.404	1.404	1.404	1.482	1.482	1.482	1.482	1.561
115.0	1.326	1.326	1.404	1.404	1.482	1.482	1.482	1.482	1.561	1.561
117.5	1.326	1.326	1.404	1.404	1.482	1.482	1.561	1.482	1.482	1.482
120.0	1.326	1.404	1.404	1.482	1.482	1.482	1.482	1.482	1.561	1.561
122.5	1.404	1.482	1.482	1.561	1.561	1.561	1.561	1.561	1.638	1.638
125.0	1.482	1.561	1.638	1.638	1.638	1.716	1.716	1.716	1.716	1.716
127.5	1.716	1.794	1.794	1.873	1.873	1.950	1.950	2.028	1.950	1.950
130.0	1.950	2.106	2.106	2.106	2.263	2.263	2.340	2.263	2.340	2.340
132.5	2.340	2.340	2.418	2.418	2.496	2.496	2.652	2.652	2.575	2.652
135.0	2.652	2.730	2.808	2.808	2.887	2.887	2.965	3.042	3.042	3.042
137.5	3.042	3.120	3.199	3.277	3.277	3.354	3.354	3.354	3.432	3.432
140.0	3.432	3.510	3.667	3.667	3.667	3.822	3.822	3.901	3.901	3.901
142.5	3.822	3.979	4.134	4.213	4.213	4.291	4.369	4.369	4.369	4.446
145.0	4.446	4.525	4.681	4.681	4.758	4.915	4.915	4.993	4.915	4.993
147.5	4.915	5.071	5.148	5.305	5.383	5.460	5.539	5.539	5.617	5.617
150.0	5.539	5.695	5.773	5.929	6.085	6.162	6.241	6.241	6.241	6.319
152.5	6.241	6.475	6.553	6.709	6.866	7.099	7.099	7.177	7.177	7.099
155.0	7.177	7.411	7.489	7.645	7.801	8.035	8.035	8.035	8.113	8.113
157.5	8.113	8.347	8.425	8.659	8.737	8.737	8.972	8.894	8.972	8.972
160.0	9.049	9.284	9.284	9.517	9.596	9.517	9.751	9.751	9.829	9.829
162.5	10.063	10.063	10.220	10.298	10.453	10.376	10.531	10.531	10.610	10.610
165.0	10.843	10.922	11.000	11.078	11.155	11.155	11.234	11.234	11.312	11.312
167.5	11.545	11.545	11.702	11.702	11.780	11.780	11.857	11.857	11.857	11.936
170.0	12.169	12.092	12.169	12.248	12.248	12.248	12.326	12.248	12.326	12.326
172.5	12.482	12.482	12.560	12.560	12.560	12.482	12.482	12.482	12.482	12.560
175.0	12.794	12.716	12.638	12.638	12.638	12.560	12.482	12.404	12.482	12.560
177.5	12.871	12.794	12.716	12.638	12.560	12.482	12.404	12.404	12.404	12.560
180.0	12.665	12.665	12.665	12.665	12.665	12.665	12.665	12.665	12.665	12.665

**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	924.031	924.031	924.031	924.031	924.031	924.031	924.031	924.031	924.031	924.031
2.5	923.189	922.800	917.963	909.694	916.480	928.807	925.842	915.311	934.969	929.274
5.0	914.530	922.877	913.907	899.318	913.438	921.863	923.579	913.672	928.494	926.466
7.5	910.006	917.807	902.361	892.297	909.147	913.438	918.665	909.382	922.332	922.253
10.0	900.957	906.495	889.722	886.602	901.424	906.417	913.438	901.971	915.778	918.275
12.5	901.346	895.262	881.687	878.177	891.751	897.680	906.886	898.147	909.616	919.445
15.0	892.142	884.262	871.000	866.943	879.426	885.823	899.240	891.517	903.219	911.410
17.5	868.659	867.333	858.206	862.262	865.696	875.915	888.631	884.106	892.063	906.339
20.0	845.257	850.483	850.795	854.461	845.568	860.156	875.680	876.227	878.099	895.964
22.5	833.164	834.335	835.739	839.717	829.498	845.959	862.887	857.036	861.093	884.184
25.0	829.498	820.605	822.633	828.093	807.030	830.668	843.852	835.271	844.008	868.581

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L20-850-T5-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.5	801.726	800.945	808.044	813.349	791.584	812.804	818.264	816.626	823.023	848.299
30.0	770.677	782.535	793.067	783.939	772.783	790.492	797.201	799.776	805.704	827.157
32.5	760.926	762.954	760.769	763.734	746.806	762.252	778.478	778.946	788.229	807.264
35.0	737.054	737.288	727.927	745.011	723.715	738.068	754.295	752.266	764.982	783.081
37.5	715.523	713.962	693.914	723.011	699.530	712.480	728.551	725.119	737.366	758.741
40.0	689.077	690.013	680.807	679.403	677.297	680.340	688.765	692.899	699.452	724.026
42.5	648.121	652.177	662.943	645.000	649.447	633.455	636.107	634.157	653.347	684.084
45.0	617.619	631.504	626.121	624.328	616.448	581.732	597.101	594.448	602.640	630.880
47.5	584.073	590.002	587.349	584.619	579.626	549.904	560.670	557.939	567.145	587.739
50.0	552.011	548.266	549.904	525.565	529.465	520.415	512.068	502.473	520.962	547.642
52.5	489.367	509.650	513.082	482.268	481.722	464.091	454.418	451.141	461.595	486.948
55.0	381.087	447.865	467.211	438.971	426.412	411.356	411.121	412.915	422.121	430.936
57.5	310.565	352.223	401.838	401.603	373.598	369.619	370.868	372.194	378.824	391.228
60.0	271.715	269.998	306.742	335.685	332.251	322.890	328.117	329.365	336.699	347.074
62.5	230.525	222.099	221.631	280.373	282.091	276.551	282.793	285.678	290.281	288.409
65.0	186.136	179.115	182.235	194.093	233.411	230.368	236.375	237.857	241.836	220.929
67.5	145.023	139.563	139.094	145.804	182.235	181.065	184.965	187.852	198.774	170.767
70.0	103.678	101.571	101.493	105.394	116.394	134.570	131.528	135.584	147.208	129.265
72.5	69.509	69.821	70.289	74.033	74.033	89.246	81.600	82.068	91.507	83.551
75.0	38.928	45.481	47.587	49.460	45.871	53.594	53.126	54.296	58.899	53.360
77.5	24.808	26.758	29.566	31.282	31.361	30.113	34.793	33.467	32.921	35.340
80.0	17.085	19.347	18.723	18.333	20.907	20.361	23.091	22.155	20.751	21.219
82.5	10.063	10.843	11.078	12.014	12.638	12.092	13.262	12.871	12.560	11.936
85.0	5.383	5.617	5.617	5.383	5.773	5.539	6.162	6.397	5.929	6.241
87.5	1.950	1.873	2.185	2.340	2.185	1.794	1.716	1.716	1.326	1.638
90.0	1.092	1.092	1.092	1.014	1.014	1.014	0.936	0.780	0.780	0.780
92.5	1.092	1.092	1.092	1.170	1.092	1.092	1.014	0.859	0.780	0.780
95.0	1.170	1.170	1.170	1.170	1.170	1.170	1.092	0.936	0.859	0.859
97.5	1.248	1.248	1.326	1.248	1.248	1.170	1.170	0.936	0.936	0.859
100.0	1.326	1.404	1.404	1.404	1.326	1.326	1.248	1.014	0.936	0.936
102.5	1.404	1.404	1.482	1.404	1.404	1.404	1.326	1.014	1.014	1.014
105.0	1.404	1.482	1.482	1.482	1.482	1.482	1.404	1.170	1.092	1.092
107.5	1.482	1.561	1.482	1.561	1.561	1.482	1.404	1.170	1.092	1.092
110.0	1.482	1.561	1.561	1.561	1.561	1.482	1.404	1.248	1.170	1.170
112.5	1.561	1.561	1.561	1.638	1.561	1.561	1.482	1.248	1.248	1.170
115.0	1.561	1.561	1.561	1.638	1.638	1.561	1.561	1.326	1.248	1.170
117.5	1.561	1.561	1.638	1.638	1.561	1.561	1.561	1.326	1.326	1.248
120.0	1.561	1.638	1.638	1.638	1.561	1.561	1.561	1.404	1.326	1.248
122.5	1.638	1.716	1.638	1.716	1.638	1.638	1.638	1.482	1.404	1.404
125.0	1.794	1.716	1.794	1.794	1.794	1.794	1.794	1.638	1.561	1.482
127.5	2.028	1.950	2.028	2.028	2.028	1.950	1.950	1.716	1.716	1.638
130.0	2.340	2.340	2.340	2.340	2.418	2.263	2.263	1.950	1.873	1.873
132.5	2.730	2.575	2.652	2.652	2.652	2.575	2.575	2.185	2.185	2.028
135.0	3.042	3.042	3.042	2.965	2.965	2.887	2.808	2.418	2.418	2.340
137.5	3.432	3.510	3.432	3.354	3.432	3.354	3.199	2.730	2.652	2.652
140.0	3.901	3.901	3.744	3.901	3.744	3.744	3.589	3.120	3.120	2.965
142.5	4.369	4.446	4.369	4.291	4.213	4.134	4.056	3.667	3.589	3.510
145.0	4.915	4.915	4.836	4.836	4.758	4.758	4.603	4.213	3.979	3.979
147.5	5.617	5.539	5.460	5.460	5.383	5.227	5.148	4.836	4.681	4.603
150.0	6.241	6.241	6.162	6.085	6.007	5.929	5.773	5.617	5.539	5.305
152.5	7.099	7.021	6.866	6.866	6.866	6.631	6.553	6.709	6.475	6.319
155.0	8.113	7.957	8.035	7.880	7.880	7.489	7.489	8.035	7.723	7.645
157.5	9.049	8.972	8.972	8.894	8.815	8.582	8.503	9.517	9.284	8.815
160.0	9.908	9.829	9.829	9.751	9.751	9.596	9.517	10.453	10.298	9.908
162.5	10.688	10.610	10.610	10.610	10.610	10.453	10.531	11.545	11.234	10.922
165.0	11.467	11.390	11.312	11.390	11.312	11.312	11.234	12.248	11.936	11.702

IES ROAD REPORT
PHOTOMETRIC FILENAME : WPTZS-L20-850-T5-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

167.5	11.857	11.936	11.857	11.936	11.936	11.936	11.936	12.638	12.404	12.169
170.0	12.326	12.404	12.404	12.404	12.404	12.560	12.482	12.794	12.482	12.404
172.5	12.482	12.560	12.638	12.716	12.716	12.716	12.794	12.716	12.482	12.326
175.0	12.560	12.638	12.716	12.794	12.871	12.950	12.950	12.638	12.404	12.326
177.5	12.560	12.638	12.794	12.871	12.871	13.028	13.106	12.871	12.716	12.482
180.0	12.665	12.665	12.665	12.665	12.665	12.665	12.665	12.665	12.665	12.665

Vert. Angles **Horizontal Angles**

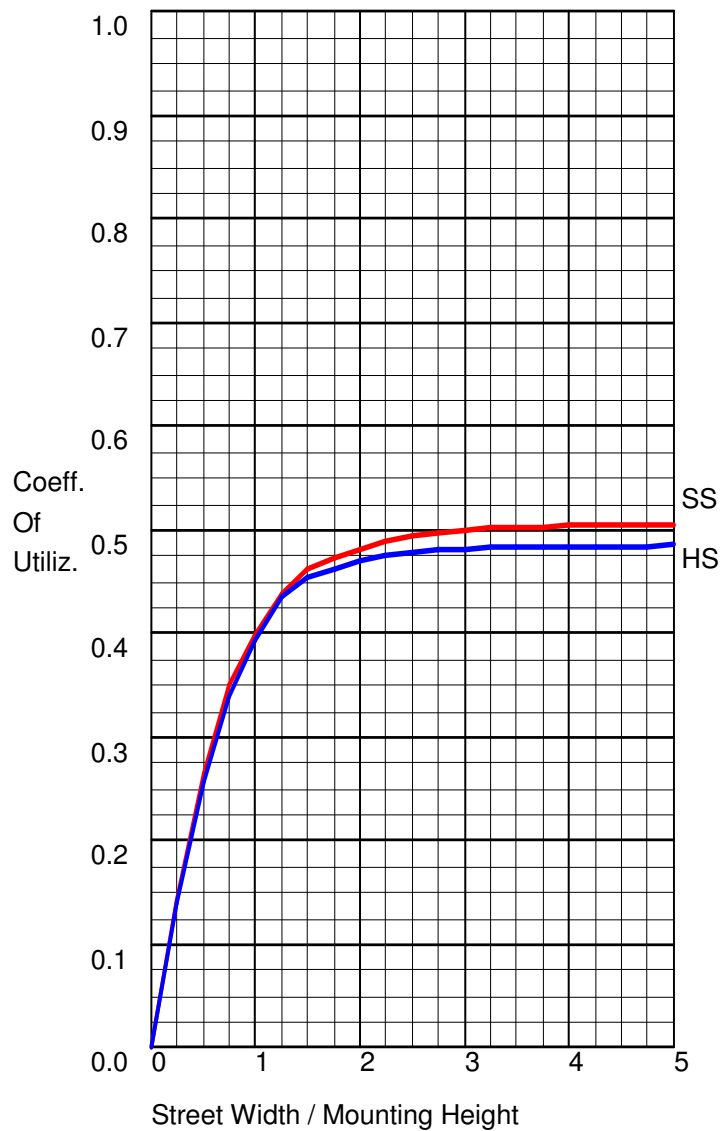
	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	924.031	924.031	924.031	924.031	924.031	924.031	924.031
2.5	932.083	921.161	927.870	917.495	926.544	914.530	931.849
5.0	932.941	921.318	926.544	917.417	928.105	914.999	933.020
7.5	930.835	919.290	923.112	917.261	928.027	915.311	933.487
10.0	926.623	914.687	923.034	917.027	925.452	914.374	932.863
12.5	920.694	909.304	919.913	915.311	920.616	913.360	929.353
15.0	912.814	902.829	915.544	913.283	913.516	912.346	923.112
17.5	899.318	894.794	908.602	911.254	902.283	910.708	911.800
20.0	888.787	883.326	896.743	904.311	893.311	903.765	903.687
22.5	875.290	870.766	894.715	887.382	887.616	895.262	899.942
25.0	860.546	854.461	880.205	873.964	883.715	876.461	877.241
27.5	847.675	836.051	862.107	855.320	865.539	865.773	857.504
30.0	830.122	820.292	841.746	836.051	837.532	849.781	850.873
32.5	807.654	811.633	808.435	822.243	812.179	818.654	822.555
35.0	785.577	794.393	793.379	802.584	753.748	718.097	731.671
37.5	761.783	769.819	772.316	729.331	652.021	618.243	617.619
40.0	735.337	742.359	727.849	611.222	581.889	579.314	578.924
42.5	697.658	711.310	644.532	549.514	555.287	561.762	546.004
45.0	662.865	647.185	543.976	525.955	535.472	546.159	537.188
47.5	599.051	557.627	499.664	507.232	520.260	525.175	532.898
50.0	554.117	474.935	475.950	491.239	492.955	493.267	491.084
52.5	490.303	453.872	452.077	460.112	466.431	460.347	453.793
55.0	400.356	412.915	424.851	433.666	430.858	433.277	425.241
57.5	330.223	367.513	398.483	399.654	393.725	399.497	389.980
60.0	296.600	318.054	353.393	364.159	360.648	361.272	358.464
62.5	260.871	284.197	301.983	323.904	320.784	321.486	327.727
65.0	224.518	243.474	252.290	284.119	277.410	276.707	271.324
67.5	185.980	195.732	209.305	231.305	231.539	230.368	230.680
70.0	147.364	156.648	162.889	169.676	178.725	177.789	164.683
72.5	100.245	113.819	120.762	116.472	105.627	106.330	104.770
75.0	61.474	75.281	71.380	66.388	68.962	72.395	74.969
77.5	41.658	37.368	41.502	41.970	43.530	44.622	46.261
80.0	23.247	22.936	24.183	24.495	22.545	21.298	22.155
82.5	12.638	12.716	12.871	12.248	12.482	12.169	10.453
85.0	5.850	5.929	5.383	5.539	5.148	5.305	5.850
87.5	1.638	1.561	1.326	1.326	1.248	1.248	1.326
90.0	0.702	0.702	0.624	0.546	0.546	0.546	0.546
92.5	0.780	0.702	0.624	0.624	0.546	0.546	0.468
95.0	0.780	0.780	0.702	0.624	0.624	0.546	0.546
97.5	0.859	0.780	0.702	0.702	0.624	0.546	0.546
100.0	0.859	0.859	0.780	0.702	0.624	0.624	0.624
102.5	0.936	0.859	0.859	0.780	0.702	0.624	0.624
105.0	1.014	0.936	0.859	0.859	0.702	0.702	0.702
107.5	1.014	0.936	0.936	0.780	0.780	0.780	0.780
110.0	1.092	1.092	0.936	0.936	0.859	0.780	0.780
112.5	1.092	1.092	1.014	0.936	0.859	0.859	0.780

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

115.0	1.092	1.092	1.092	0.936	0.936	0.859	0.859
117.5	1.170	1.092	1.170	1.014	0.936	0.936	0.936
120.0	1.248	1.170	1.170	1.092	1.014	1.014	1.014
122.5	1.326	1.248	1.248	1.092	1.092	1.092	1.092
125.0	1.404	1.404	1.326	1.248	1.170	1.248	1.170
127.5	1.561	1.482	1.482	1.326	1.326	1.326	1.326
130.0	1.716	1.716	1.638	1.638	1.561	1.482	1.561
132.5	2.028	1.873	1.794	1.794	1.794	1.716	1.716
135.0	2.263	2.185	2.106	2.106	2.028	2.028	1.950
137.5	2.496	2.496	2.418	2.340	2.340	2.340	2.340
140.0	2.887	2.808	2.730	2.730	2.730	2.652	2.652
142.5	3.354	3.277	3.199	3.120	3.120	3.042	3.042
145.0	3.901	3.744	3.744	3.667	3.589	3.667	3.589
147.5	4.369	4.291	4.291	4.213	4.134	4.134	4.134
150.0	5.227	5.071	4.915	4.915	4.836	4.836	4.836
152.5	6.085	6.007	5.929	5.695	5.695	5.539	5.695
155.0	7.255	7.099	7.021	6.787	6.787	6.787	6.787
157.5	8.503	8.347	8.191	7.957	7.957	8.113	7.957
160.0	9.674	9.517	9.361	9.049	9.049	8.972	9.049
162.5	10.610	10.376	10.298	10.141	10.063	9.986	10.063
165.0	11.467	11.312	11.155	10.922	10.922	10.843	10.843
167.5	11.936	11.857	11.702	11.545	11.467	11.467	11.467
170.0	12.092	12.092	11.936	11.857	11.857	11.857	11.936
172.5	12.169	12.169	12.092	12.014	12.014	12.014	12.092
175.0	12.169	12.169	12.169	12.169	12.169	12.169	12.248
177.5	12.326	12.326	12.326	12.248	12.326	12.326	12.326
180.0	12.665	12.665	12.665	12.665	12.665	12.665	12.665

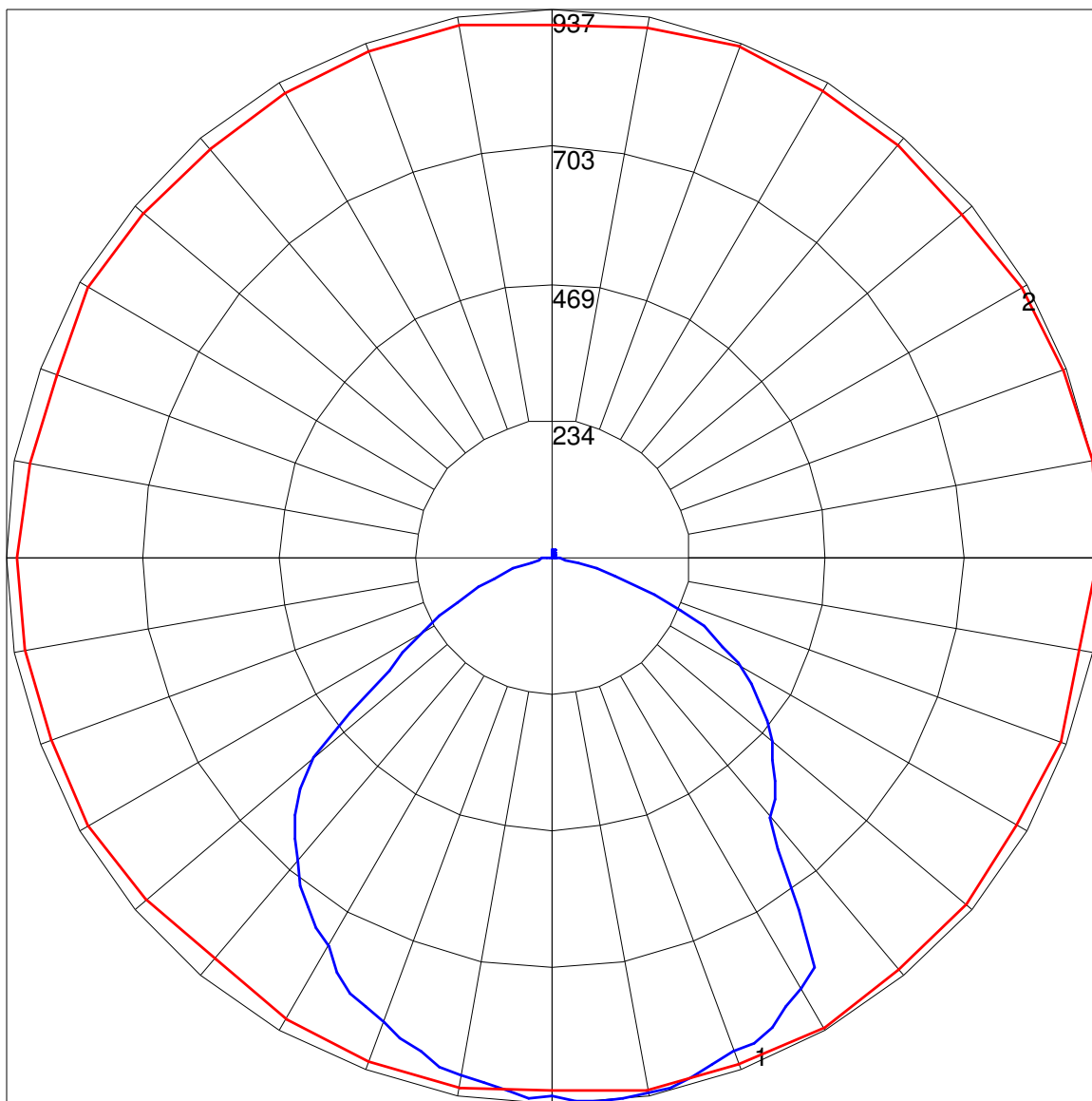
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

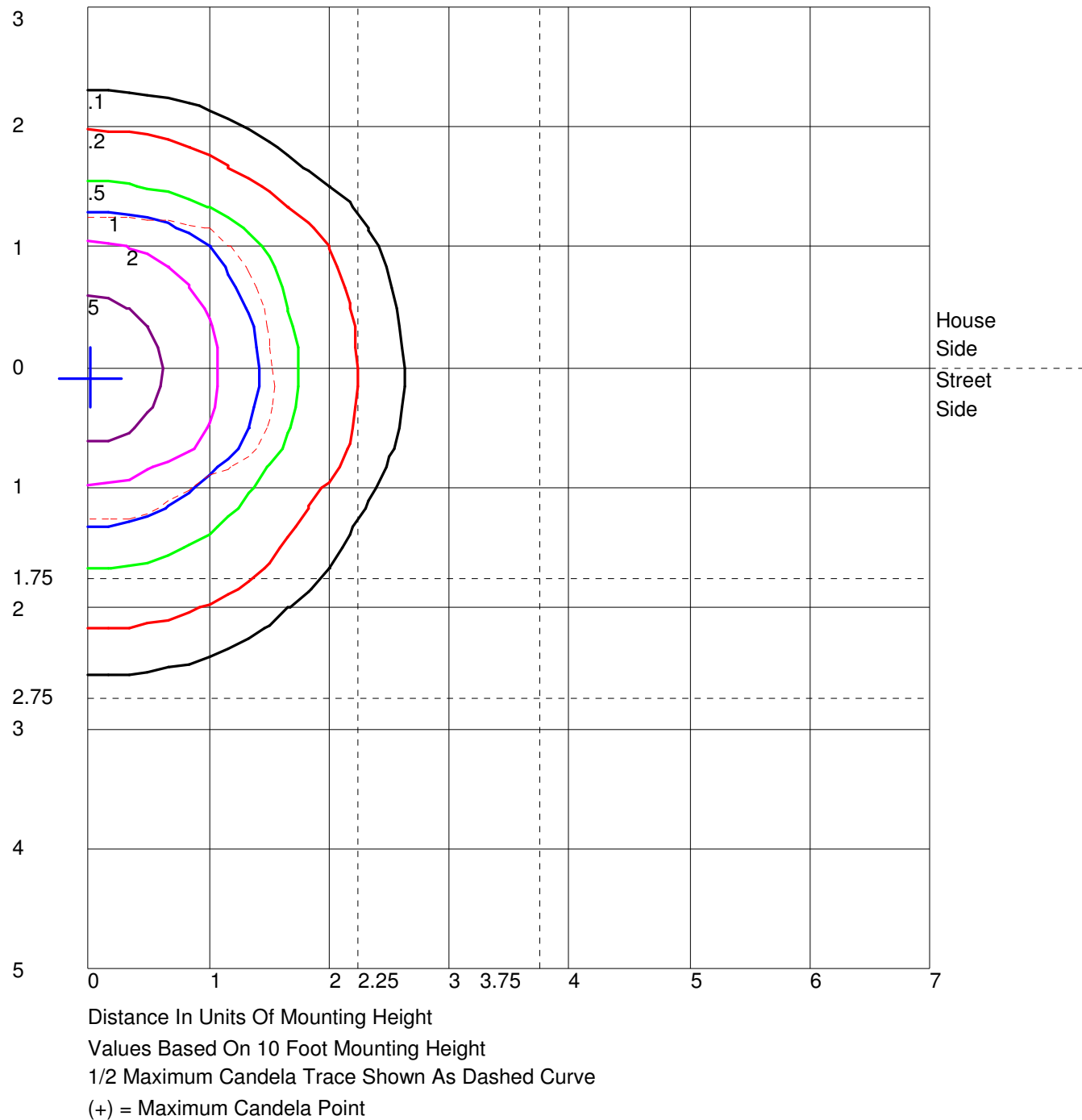
	Lumens	Percent Of Luminaire
Downward Street Side	1231.7	50.7
Downward House Side	1182.6	48.6
Downward Total	2414.3	99.3
Upward Street Side	7.8	0.3
Upward House Side	9.4	0.4
Upward Total	17.2	0.7
Total Flux	2431.5	100.0

POLAR GRAPH

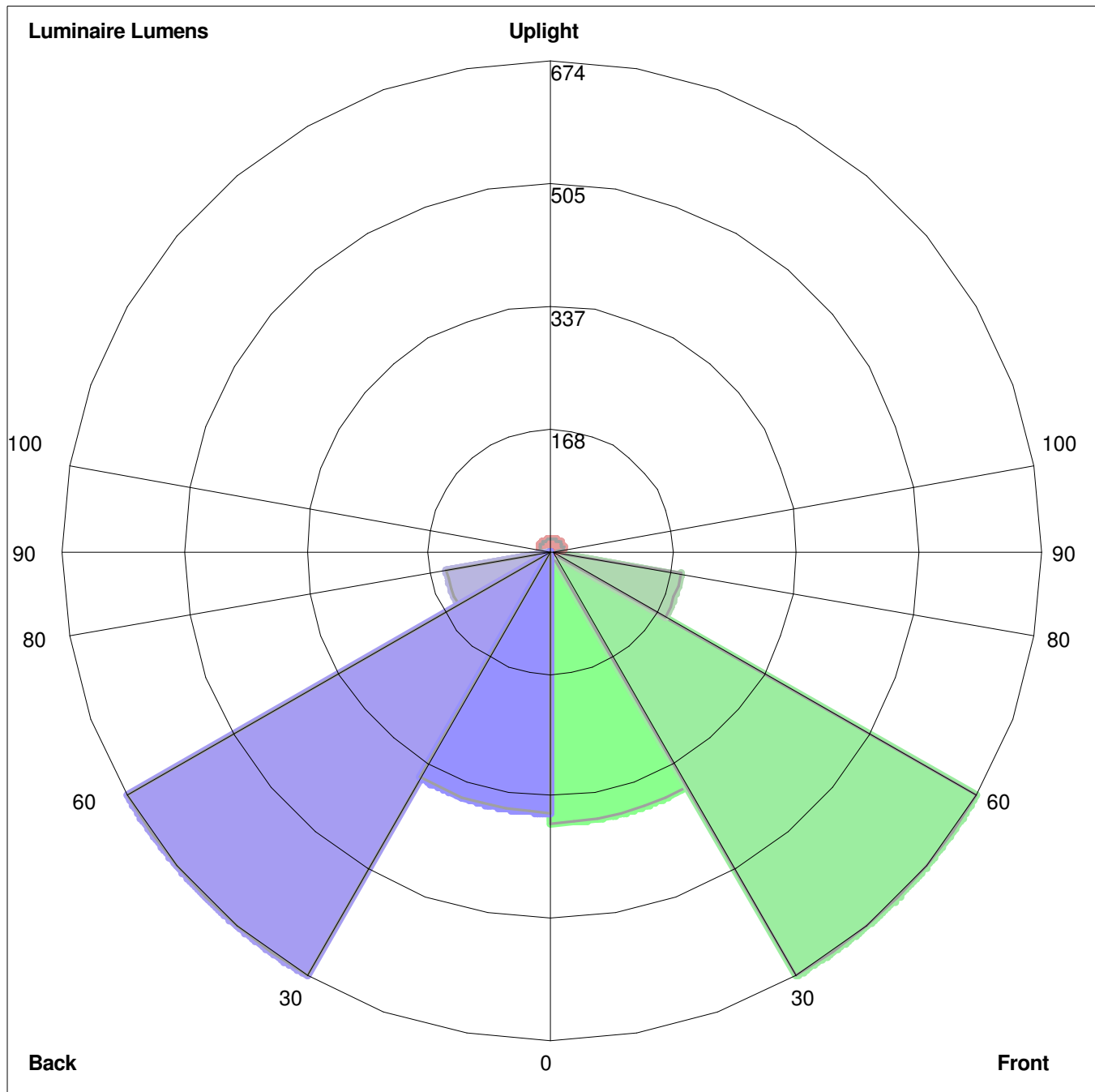


Maximum Candela = 937.154 Located At Horizontal Angle = 10, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=373.1, Medium=673.7, High=179.9, Very High=5.0
Back: Low=359.5, Medium=672.4, High=146.2, Very High=4.6
Uplight: Low=1.0, High=16.2

BUG Rating : B1-U2-G0