



IES ROAD REPORT
PHOTOMETRIC FILENAME : PFS80QF1X176U5KC.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Q2016012901
 [TESTLAB] QSSI
 [ISSUEDATE] 01/29/2016
 [MANUFAC] QSSI
 [LUMCAT] PFS80QF1X176U5KC
 [LUMINAIRE] PFS80 WITH ONE 276W QSSI LED ARRAY, CLEAR PRISMATIC ARRAY LENS
 [LAMPCAT] SAMSUNG 351B LEDs
 [LAMP] 112 SAMSUNG 351B LEDs

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18833
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	190
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Maximum Candela	5642.119
Maximum Candela Angle	230H 17.5V
Maximum Candela (<90 Degrees Vertical)	5642.119
Maximum Candela Angle (<90 Degrees Vertical)	230H 17.5V
Maximum Candela At 90 Degrees Vertical	153.929 (0.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	701.382 (3.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2112.5	N.A.	11.2
FM - Front-Medium (30-60)	4927.2	N.A.	26.2
FH - Front-High (60-80)	1826.8	N.A.	9.7
FVH - Front-Very High (80-90)	129.3	N.A.	0.7
BL - Back-Low (0-30)	2128.9	N.A.	11.3
BM - Back-Medium (30-60)	4971.7	N.A.	26.4
BH - Back-High (60-80)	2143.2	N.A.	11.4
BVH - Back-Very High (80-90)	178.3	N.A.	0.9
UL - Uplight-Low (90-100)	102.6	N.A.	0.5
UH - Uplight-High (100-180)	312.6	N.A.	1.7
Total	18833.1	N.A.	100.0
BUG Rating	B3-U3-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0.0	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063
2.5	4885.117	4963.852	4956.628	4927.735	5093.148	5298.290	5482.484	5323.571	5156.713	5257.840
5.0	4887.285	4541.288	4643.859	4726.205	4750.764	4700.201	4820.830	4908.232	4940.015	4942.181
7.5	4845.389	4809.995	4755.098	4764.488	4768.822	5001.413	4766.655	4877.894	4752.931	5043.308
10.0	5036.084	5097.482	5190.663	5109.040	4968.185	5153.824	5123.486	5282.398	4929.179	5147.323
12.5	5115.541	5467.315	5473.094	5287.455	5144.434	5327.183	5278.787	5075.812	5180.550	5350.298
15.0	5435.533	5503.432	5455.758	5314.904	5243.393	5366.189	5274.453	5369.800	5228.946	5528.713
17.5	5302.625	5392.193	5251.338	5225.334	5166.826	5261.451	5202.220	5193.552	5266.508	5466.593
20.0	5237.615	5252.783	5199.331	5199.331	5079.424	5185.607	4955.906	5098.205	5119.875	5358.966
22.5	5106.150	5088.814	4947.960	5001.413	4835.277	4919.789	4765.933	4769.544	5020.193	5253.506
25.0	5046.197	4992.022	4812.884	4895.952	4807.106	4900.286	4939.292	4764.488	4737.040	5155.269
27.5	4807.106	4719.704	4625.079	4915.456	4788.325	4905.343	4763.044	4843.944	4728.372	4918.344
30.0	4477.001	4530.454	4512.395	4667.696	4723.315	4751.486	4644.582	4687.199	4523.953	4623.634
32.5	4508.783	4547.789	4551.401	4513.840	4508.783	4518.174	4503.727	4530.454	4457.498	4525.397
35.0	4515.284	4666.974	4664.084	4448.830	4259.580	4336.869	4388.154	4487.113	4586.073	4566.570
37.5	4768.100	4785.436	4589.685	4578.850	4315.199	4232.131	4461.109	4506.617	4591.129	4581.739
40.0	4529.009	4600.520	4886.562	4567.292	4413.436	3998.096	4451.720	4594.741	4653.250	4592.574
42.5	4249.467	4265.358	4540.566	5194.275	4459.665	4248.022	4612.799	4734.873	4638.081	4558.625
45.0	4059.494	4186.625	4560.069	4740.651	4576.683	4557.180	4739.207	4762.321	4367.929	4421.700
47.5	4209.739	4315.199	4571.626	4404.768	4760.154	4789.770	4302.197	4568.737	4434.383	4448.108
50.0	4325.312	4285.583	4239.354	4262.469	4468.333	4927.013	4171.456	4402.601	4220.574	4344.092
52.5	4003.875	4154.119	4089.110	4032.046	4389.599	4677.809	4313.032	4154.119	4019.044	4008.209
55.0	3540.861	3784.287	3689.661	3985.094	4413.436	4105.001	4131.005	3827.626	3842.795	3867.354
57.5	3480.186	3552.419	3431.067	3759.005	3982.927	3901.304	3935.976	3412.287	3415.176	3530.026
60.0	3182.586	3181.863	3036.675	3529.304	3504.022	3563.976	3585.646	3208.589	3224.481	3245.428
62.5	2948.551	2882.097	2722.461	3184.031	3132.023	3133.467	3106.741	3015.005	2973.832	3053.289
65.0	2484.815	2502.151	2491.316	2782.415	2699.347	2785.304	2778.803	2760.745	2581.607	2772.302
67.5	2083.922	1933.677	1978.462	2312.178	2292.675	2333.126	2540.434	2267.394	2013.134	2268.116
70.0	1391.713	1406.376	1425.302	1436.209	1423.496	1642.578	1417.861	1441.193	1436.931	1662.081
72.5	1136.514	1056.769	1131.891	1177.903	1239.085	1312.474	1223.771	1220.449	1127.846	1248.909
75.0	800.053	761.191	832.124	830.102	831.835	904.935	907.535	819.194	828.296	923.860
77.5	547.309	534.235	540.953	554.460	598.450	568.113	590.144	589.782	605.240	640.707
80.0	356.036	389.119	385.508	373.372	416.784	412.523	408.116	433.254	419.890	442.788
82.5	244.292	242.847	253.538	278.097	294.783	293.916	293.483	287.776	296.011	389.336
85.0	201.675	204.058	201.386	215.832	247.109	243.642	228.690	220.311	222.767	216.049
87.5	88.630	106.616	104.593	108.855	106.544	101.993	107.266	116.584	120.268	124.024
90.0	64.576	80.901	81.551	79.673	77.578	73.894	79.817	81.984	84.513	73.605
92.5	87.041	87.546	88.774	86.174	84.079	80.756	84.296	85.163	86.896	77.289
95.0	105.894	99.682	97.153	96.070	98.165	94.120	96.070	99.320	104.016	98.309
97.5	93.108	85.957	93.758	93.253	95.998	99.826	105.966	96.648	98.454	103.510
100.0	89.208	84.440	86.463	88.124	92.675	92.964	97.009	90.652	90.363	93.686
102.5	88.702	87.763	88.052	91.086	91.375	90.869	89.352	85.379	84.007	91.303
105.0	92.747	89.136	93.181	88.847	88.630	85.813	89.352	86.607	88.991	96.720
107.5	97.876	93.975	85.018	82.635	84.079	83.068	85.813	90.291	91.736	101.849
110.0	93.036	89.786	84.874	82.707	76.134	74.544	85.741	81.623	87.980	96.648
112.5	100.476	97.803	78.951	75.267	73.100	72.955	75.628	84.874	92.097	95.420
115.0	88.052	86.752	78.806	76.061	70.933	69.994	76.206	78.156	85.957	91.014
117.5	89.641	88.052	82.635	76.061	68.260	68.621	76.061	81.696	86.680	90.075
120.0	91.447	89.352	81.407	67.610	61.759	62.987	68.260	81.118	89.858	92.242
122.5	81.840	77.723	71.366	57.353	52.297	53.019	58.942	72.450	83.357	89.352
125.0	70.066	67.682	60.531	48.107	39.584	40.378	49.118	63.565	72.450	78.734
127.5	59.087	56.703	49.624	38.356	28.965	28.677	40.234	53.163	61.326	67.393
130.0	47.674	46.590	39.078	30.049	21.381	21.670	31.205	40.523	50.130	56.775

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CANDELA TABULATION - (Cont.)

132.5	36.622	35.033	28.965	21.453	19.647	20.514	23.692	32.577	38.934	45.362
135.0	25.787	24.631	20.803	19.792	18.925	19.936	21.164	23.548	28.532	34.816
137.5	21.164	21.020	20.370	19.864	19.142	19.647	21.092	21.959	22.537	25.859
140.0	21.309	21.237	20.803	20.370	19.864	20.009	21.237	22.320	22.609	25.209
142.5	22.103	22.031	21.670	21.309	20.948	20.875	21.598	22.681	23.187	25.643
145.0	23.187	23.187	22.826	22.609	22.320	22.320	22.609	23.259	23.837	26.221
147.5	24.848	24.848	24.487	24.343	24.270	24.126	24.415	24.776	24.920	26.798
150.0	27.521	27.232	27.160	27.232	27.015	27.087	27.232	27.521	27.521	28.388
152.5	31.927	31.494	31.566	31.710	31.349	31.494	31.710	31.494	31.710	31.205
155.0	37.561	37.056	37.200	37.417	36.983	37.128	37.344	36.983	37.272	34.961
157.5	42.690	42.690	42.834	42.473	42.401	42.617	42.906	42.762	43.051	39.006
160.0	47.746	47.746	47.602	47.240	47.313	47.313	47.168	47.385	47.746	44.134
162.5	51.791	51.574	51.502	51.213	51.285	51.285	51.358	51.069	51.285	48.685
165.0	54.030	54.103	54.319	54.247	54.391	54.464	54.536	54.103	53.958	52.802
167.5	55.908	55.692	55.547	55.836	56.053	56.125	56.270	56.125	55.908	56.414
170.0	56.992	56.703	56.342	56.486	56.703	56.847	56.847	56.775	56.703	59.159
172.5	57.136	57.136	56.847	56.775	56.920	56.920	56.847	56.847	56.847	60.820
175.0	57.209	57.209	57.209	56.920	56.920	56.992	56.920	56.920	56.847	61.326
177.5	57.281	57.209	57.281	57.209	57.064	57.136	57.136	57.136	57.064	60.315
180.0	58.304	58.304	58.304	58.304	58.304	58.304	58.304	58.304	58.304	58.304

Vert. 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	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063
2.5	5091.704	5306.236	5251.338	5102.539	5099.649	4881.506	4875.727	4927.735	4996.356	5209.444
5.0	4856.225	4877.171	4924.123	4775.323	4527.564	4516.729	4609.910	4717.537	4809.995	4959.518
7.5	4934.236	4926.290	4625.079	4523.953	4607.021	4600.520	4564.403	4574.516	4774.601	4720.426
10.0	5228.946	5025.972	5172.605	4864.169	4888.729	4846.111	4898.842	4984.799	5061.366	5009.358
12.5	5304.069	5329.350	5198.609	5247.005	5032.473	5039.696	5116.263	5178.383	5213.055	5131.432
15.0	5472.372	5360.411	5439.145	5277.342	5200.775	5261.451	5207.276	5315.626	5394.360	5343.797
17.5	5453.591	5356.799	5293.234	5487.541	5129.987	5249.894	5261.451	5276.621	5470.205	5407.362
20.0	5468.760	5234.002	5246.282	5203.665	5065.700	5156.713	5208.721	5287.455	5310.569	5165.381
22.5	5348.131	5088.814	5028.861	5031.750	4905.343	4882.228	5058.477	5178.383	5073.646	4998.523
25.0	5210.166	4969.630	4972.519	4899.564	4845.389	4825.886	4985.521	5111.929	5150.935	5168.993
27.5	5001.413	4968.908	4747.875	4909.677	4747.152	4801.327	4887.285	4896.675	5044.752	4867.781
30.0	4677.086	4788.325	4704.535	4761.599	4615.688	4575.960	4826.608	4775.323	4734.873	4738.484
32.5	4494.337	4670.585	4670.585	4609.188	4546.345	4619.300	4632.302	4577.405	4493.614	4575.960
35.0	4520.341	4736.317	4400.434	4358.539	4590.407	4419.215	4357.817	4328.201	4342.647	4358.539
37.5	4703.090	4695.145	4404.046	4271.137	4264.636	4225.630	4296.418	4387.432	4434.383	4541.288
40.0	4636.636	4536.955	4548.512	4219.129	4053.716	4232.131	4477.724	4569.459	4390.321	4466.888
42.5	4651.083	4747.875	4740.651	4269.692	3829.793	4420.659	4681.420	4589.685	4549.957	4644.582
45.0	4407.657	4482.780	4877.171	4295.696	3957.646	4497.949	4725.482	4406.935	4188.792	4240.799
47.5	4199.626	4459.665	4667.696	4191.681	4393.210	4620.022	4476.279	4146.174	4227.075	4037.102
50.0	4001.708	4315.199	4265.358	4654.694	4773.156	4198.182	4281.972	4176.512	4164.955	4216.240
52.5	4078.275	4232.131	4015.432	4682.865	4859.836	4101.389	4091.277	4025.545	4139.673	4073.941
55.0	3865.188	3948.255	3877.467	4502.283	4586.073	4047.215	4089.832	3984.372	3869.521	4019.044
57.5	3570.477	3621.040	3719.999	4287.750	4146.896	4010.376	3847.852	3899.137	3623.207	3903.471
60.0	3297.436	3178.252	3641.988	3857.964	3819.681	3990.873	3416.621	3491.021	3389.895	3639.098
62.5	3073.514	2771.580	3368.225	3571.922	3513.413	3598.648	3145.747	3201.366	3246.151	3294.547
65.0	2775.191	2666.120	2858.260	3108.186	3050.399	3230.982	2880.652	3052.566	2957.941	3009.949
67.5	2258.003	2346.128	2482.648	2630.726	2674.788	2847.425	2515.153	2531.766	2603.999	2612.667
70.0	1678.695	1988.574	2089.700	2326.625	2291.230	2264.504	2146.765	2011.689	2120.038	2068.753
72.5	1259.743	1475.720	1521.949	1737.926	1786.322	1735.759	1612.240	1477.887	1631.021	1620.186
75.0	905.802	1003.316	1093.608	1186.066	1235.907	1152.116	1266.967	1210.625	1171.619	1286.470
77.5	659.487	710.050	764.225	811.177	833.569	863.184	837.180	810.454	827.790	829.957

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CANDELA TABULATION - (Cont.)

80.0	458.680	474.571	523.689	549.693	556.916	567.029	580.753	584.365	587.254	589.421
82.5	370.555	372.722	376.334	380.668	401.615	385.724	413.895	412.450	400.171	411.728
85.0	240.969	240.464	257.438	279.614	327.432	277.303	372.000	379.223	305.473	379.223
87.5	160.068	178.560	176.754	209.909	228.473	231.796	214.388	208.826	195.029	223.778
90.0	91.086	96.070	101.343	98.598	98.381	110.589	116.223	128.286	118.679	138.037
92.5	84.657	84.296	80.901	78.228	74.617	82.635	85.235	87.041	73.244	88.702
95.0	97.009	93.181	88.196	83.574	80.901	84.224	85.813	88.124	76.423	87.474
97.5	100.259	97.226	97.298	96.214	92.169	90.508	93.686	97.370	91.880	92.964
100.0	89.641	91.158	94.120	93.686	92.747	96.937	95.636	98.598	100.693	99.609
102.5	84.368	83.718	88.919	88.630	89.713	94.553	92.025	90.580	92.097	86.824
105.0	87.330	85.596	87.185	87.041	88.196	87.908	85.090	86.752	92.097	84.368
107.5	93.542	88.124	85.163	84.368	82.057	87.763	87.763	90.869	97.370	89.352
110.0	90.941	80.756	81.190	77.073	80.612	81.334	90.219	93.614	98.020	94.264
112.5	91.086	88.196	76.639	73.172	72.811	82.707	84.729	90.219	94.481	91.808
115.0	87.763	79.167	74.472	69.994	69.488	76.495	85.668	95.420	98.165	94.625
117.5	87.041	80.468	74.617	67.466	67.249	74.617	80.468	88.485	90.508	88.413
120.0	89.497	83.574	72.522	64.287	64.865	74.472	82.129	89.786	90.508	89.424
122.5	85.596	76.856	63.998	56.558	58.725	68.405	83.501	92.964	93.397	92.386
125.0	75.050	66.599	54.391	46.518	49.191	59.087	75.050	86.246	89.136	86.824
127.5	63.854	56.125	46.085	35.972	37.778	50.924	66.816	75.772	78.878	77.289
130.0	54.464	46.085	36.189	26.798	29.688	42.979	57.209	65.226	68.332	67.610
132.5	43.195	36.044	27.882	22.464	23.692	35.105	47.457	55.764	57.642	56.053
135.0	33.227	27.521	23.403	22.392	22.609	27.665	37.706	45.073	46.879	45.435
137.5	25.209	24.270	23.331	22.753	22.826	24.198	28.604	34.744	36.333	35.250
140.0	24.920	24.487	23.837	23.331	22.970	24.054	25.065	26.365	27.593	26.798
142.5	25.498	25.137	24.415	23.837	23.692	24.270	25.065	25.570	26.076	25.715
145.0	26.076	25.570	25.065	24.704	24.848	25.354	25.787	26.076	26.293	26.148
147.5	26.798	26.510	26.437	26.293	26.437	26.510	27.087	27.232	27.376	27.376
150.0	28.604	28.388	28.460	28.532	28.604	28.604	29.038	29.182	29.182	29.254
152.5	31.494	31.349	31.349	31.638	31.566	31.494	31.855	31.927	31.783	31.999
155.0	35.322	35.250	35.250	35.611	35.539	35.394	35.250	35.611	35.466	35.322
157.5	39.800	39.656	39.584	39.584	39.945	39.728	39.584	39.873	39.728	39.584
160.0	43.918	44.134	43.845	43.845	44.351	43.845	44.207	43.990	44.279	44.134
162.5	47.818	48.468	48.324	48.252	48.613	48.685	48.830	49.046	48.830	48.468
165.0	52.441	52.802	52.730	52.802	53.091	52.947	52.730	52.586	52.513	51.863
167.5	56.486	56.847	56.703	56.631	56.775	56.486	56.053	55.692	55.475	55.619
170.0	59.376	59.303	59.159	59.159	58.798	58.653	58.148	57.859	58.292	58.292
172.5	60.748	60.676	60.531	60.387	60.170	59.737	59.592	59.592	59.737	59.737
175.0	61.181	60.965	60.748	60.531	60.387	60.098	60.098	60.242	60.170	60.098
177.5	60.242	60.242	59.881	59.881	59.737	59.592	59.592	59.520	59.448	59.448
180.0	58.304	58.304	58.304	58.304	58.304	58.304	58.304	58.304	58.304	58.304

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	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063
2.5	5175.494	5306.958	5385.692	5145.156	5005.024	4955.906	5035.362	5249.171	5130.709	5091.704
5.0	5019.471	4842.500	4964.574	4877.171	4855.502	4809.995	4526.842	4854.779	4995.634	4776.768
7.5	4758.709	4712.480	4786.880	4596.186	4547.067	4603.409	4738.484	4903.175	4752.209	4828.053
10.0	4963.852	4825.886	4967.463	4897.397	4850.446	4929.179	4906.787	5140.822	5093.148	4952.294
12.5	5257.117	5207.999	5257.840	5271.564	5337.296	5243.393	5229.669	5314.181	5322.850	5257.117
15.0	5278.065	5289.623	5454.313	5501.265	5321.405	5452.146	5335.129	5503.432	5408.807	5241.948
17.5	5402.306	5319.238	5550.383	5642.119	5361.855	5379.191	5396.527	5446.368	5424.698	5444.201
20.0	5158.158	5379.191	5148.768	5257.840	5244.115	5203.665	5345.964	5397.972	5168.271	5264.340
22.5	4940.015	5153.102	4950.850	5051.976	4960.240	5087.370	5169.715	5390.026	5323.571	5125.653
25.0	4992.745	4877.171	4749.319	4990.577	4869.948	4979.743	5019.471	5172.605	5111.207	5116.263

IES ROAD REPORT
PHOTOMETRIC FILENAME : PFS80QF1X176U5KC.IES

CANDELA TABULATION - (Cont.)

27.5	4776.768	4690.811	4672.752	5012.970	4835.277	4846.834	4976.854	5020.193	4947.960	4978.298
30.0	4556.458	4779.657	4674.919	4766.655	4797.715	4594.741	4688.644	4808.550	4804.938	4817.219
32.5	4655.416	4734.150	4706.702	4674.197	4705.257	4428.605	4560.069	4578.850	4659.750	4653.250
35.0	4329.646	4532.621	4591.129	4622.189	4541.288	4505.172	4453.164	4484.947	4557.902	4490.003
37.5	4384.543	4287.750	4339.036	4331.813	4385.265	4592.574	4678.531	4691.533	4744.263	4525.397
40.0	4431.494	4462.554	4109.335	4211.184	4565.125	4601.964	4908.232	4940.737	4971.075	4697.312
42.5	4685.754	4393.933	4139.673	4168.566	4575.238	4797.715	4736.317	4490.725	4424.993	4934.236
45.0	4758.709	4598.353	4287.750	4347.704	4847.556	4617.133	4367.929	4266.803	4290.640	4586.795
47.5	4526.842	4955.906	4445.941	4266.081	4724.038	4440.884	4362.150	4274.749	4281.972	4601.964
50.0	4520.341	4431.494	4752.209	4770.989	4405.490	4643.859	4274.749	4383.098	4255.968	4424.271
52.5	4327.479	4203.238	4635.191	4635.191	4281.972	4445.219	4166.399	4297.863	4159.176	4300.752
55.0	4196.015	4059.494	4451.720	4589.685	4074.663	4162.065	4020.489	3909.250	3853.630	4110.058
57.5	3822.570	4080.442	4391.766	4449.552	4055.160	3708.442	3687.494	3677.382	3665.824	3667.269
60.0	3413.009	3855.075	4009.653	4063.106	3889.024	3413.009	3587.813	3496.077	3572.644	3335.720
62.5	3173.196	3637.654	3636.209	3617.428	3701.941	3129.856	3378.337	3309.716	3287.323	2901.599
65.0	2809.141	3314.050	3246.873	3307.549	3295.269	2776.636	2999.836	2899.432	2926.881	2669.009
67.5	2637.949	2906.656	2804.085	2851.036	2898.710	2698.625	2583.774	2545.491	2492.038	2470.368
70.0	2176.380	2590.997	2479.759	2460.256	2512.263	2228.388	2008.077	2026.858	1964.015	2094.757
72.5	1721.312	1964.738	1934.400	1961.848	1940.901	1788.489	1538.563	1425.229	1404.426	1356.030
75.0	1315.363	1350.035	1484.388	1471.386	1372.427	1237.351	1105.165	1108.704	1024.480	1098.158
77.5	924.582	991.037	1009.817	1018.485	950.586	875.464	800.342	768.270	739.088	756.857
80.0	616.147	633.483	701.382	656.598	626.982	617.592	579.309	530.190	526.723	552.799
82.5	457.957	456.513	466.625	465.903	445.678	443.511	408.839	397.354	358.348	385.724
85.0	374.889	379.946	372.722	378.501	375.612	377.056	377.056	274.269	280.336	268.707
87.5	227.245	246.603	258.450	255.849	245.881	230.351	224.861	192.140	201.819	197.702
90.0	141.360	153.929	149.667	146.850	149.161	131.320	126.336	93.903	96.431	106.905
92.5	88.485	89.136	87.185	84.657	89.063	89.930	92.025	70.933	90.508	92.675
95.0	85.741	84.946	82.996	80.395	85.741	89.641	93.036	84.729	93.397	95.203
97.5	93.397	91.230	88.124	86.174	93.397	96.937	101.632	102.210	104.666	107.772
100.0	100.332	97.731	102.138	100.332	103.654	105.821	104.377	104.882	99.898	100.115
102.5	88.991	95.709	96.720	94.914	103.149	100.837	96.720	97.298	92.675	93.758
105.0	85.957	87.546	91.158	92.025	95.709	95.348	91.303	98.165	93.397	89.497
107.5	85.885	86.463	88.774	91.519	95.420	94.842	91.591	101.343	99.320	91.664
110.0	88.919	84.007	85.668	86.752	93.903	93.108	93.108	104.593	101.054	94.842
112.5	85.307	85.452	80.468	79.962	86.824	94.336	96.648	105.821	98.959	88.196
115.0	87.185	79.456	75.411	76.784	80.251	85.307	90.652	96.864	95.131	86.246
117.5	81.262	77.289	74.039	74.183	79.167	81.479	89.280	93.686	93.397	85.813
120.0	83.863	78.228	72.089	71.655	79.240	81.407	90.002	93.831	92.603	87.763
122.5	86.463	74.400	67.104	67.104	72.233	81.623	92.386	95.420	92.458	84.440
125.0	78.662	65.299	59.520	59.737	61.831	73.678	82.996	85.307	81.696	74.183
127.5	68.838	56.053	48.830	46.518	52.080	64.215	72.016	73.678	71.511	63.637
130.0	58.725	47.602	37.128	33.444	42.762	55.403	61.109	62.698	60.892	52.008
132.5	48.830	39.006	28.026	24.993	34.238	44.712	51.791	51.285	49.769	42.545
135.0	38.934	30.338	23.115	22.320	26.437	35.033	41.028	41.245	38.572	32.071
137.5	31.421	24.776	22.681	22.464	23.187	26.293	30.988	30.410	28.026	22.826
140.0	25.570	23.909	23.115	22.970	23.548	24.126	24.415	23.042	22.681	22.103
142.5	25.137	24.487	23.981	23.837	24.270	24.559	24.776	23.476	23.259	22.970
145.0	25.787	25.354	24.993	24.848	25.137	25.498	25.570	24.631	24.415	23.909
147.5	27.015	26.726	26.437	26.365	26.510	26.726	26.798	26.221	26.004	25.570
150.0	28.677	28.677	28.532	28.388	28.460	28.677	28.604	28.893	28.749	28.315
152.5	31.710	31.060	31.566	31.421	31.349	31.205	31.421	33.299	32.722	32.649
155.0	35.466	35.322	35.033	35.322	35.177	34.961	35.105	39.150	38.428	38.500
157.5	39.873	39.656	39.511	39.223	39.511	39.367	39.511	45.073	44.279	44.207
160.0	44.351	44.134	43.773	43.990	43.918	43.773	44.062	50.057	49.841	49.335
162.5	48.179	48.396	48.035	48.324	48.396	48.252	48.541	53.669	53.525	53.380
165.0	52.369	52.008	51.936	52.224	52.513	52.369	52.224	56.125	56.053	56.053

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

167.5	55.764	56.197	56.125	55.908	55.981	55.692	54.969	57.497	57.136	57.209
170.0	58.436	58.725	58.581	58.364	58.220	57.859	57.642	58.292	57.859	57.570
172.5	59.809	59.809	59.881	59.737	59.520	59.376	59.448	58.509	58.292	57.859
175.0	60.026	60.026	60.026	59.953	59.809	59.881	60.026	58.436	58.292	57.931
177.5	59.303	59.376	59.376	59.231	59.231	59.231	59.303	58.509	58.075	57.931
180.0	58.304	58.304	58.304	58.304	58.304	58.304	58.304	58.304	58.304	58.304

Vert. Horizontal Angles
Angles

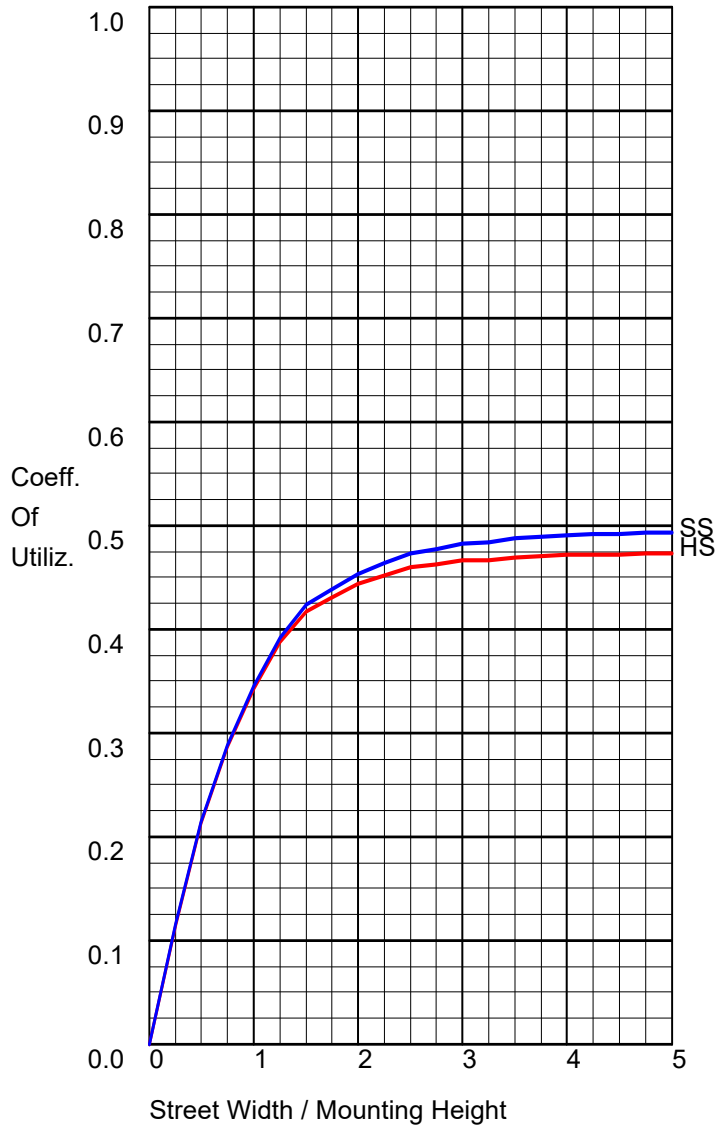
	300	310	320	330	340	350	360
0.0	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063	5431.063
2.5	4830.942	4950.127	5099.649	5163.215	5117.708	4982.632	4885.117
5.0	4679.976	4540.566	4711.758	4833.110	4833.110	4704.535	4887.285
7.5	4683.587	4737.040	4823.719	4760.154	4815.773	4811.440	4845.389
10.0	4958.795	4768.100	4979.743	4999.246	5015.859	4940.015	5036.084
12.5	5170.438	5101.094	5165.381	5181.995	5196.442	5173.327	5115.541
15.0	5265.063	5199.331	5160.325	5133.599	5188.496	5353.910	5435.533
17.5	5381.358	5147.323	5158.158	5258.562	5301.179	5337.296	5302.625
20.0	5123.486	5179.828	5070.756	5160.325	5140.100	5290.344	5237.615
22.5	4972.519	4837.444	4901.731	4925.568	5098.927	5062.088	5106.150
25.0	4914.011	4849.000	4828.775	4913.288	4954.461	4929.902	5046.197
27.5	4791.937	4731.983	4713.203	4922.679	4953.017	4888.729	4807.106
30.0	4828.775	4620.022	4639.525	4674.919	4682.143	4517.452	4477.001
32.5	4601.242	4557.180	4591.129	4378.042	4550.679	4556.458	4508.783
35.0	4365.040	4340.480	4265.358	4203.960	4419.937	4599.075	4515.284
37.5	4301.475	4219.129	4140.395	4398.267	4619.300	4843.223	4768.100
40.0	4544.900	3957.646	3949.700	4525.397	4928.458	4832.387	4529.009
42.5	4835.999	4004.597	4224.186	4891.619	4671.308	4193.125	4249.467
45.0	5053.420	4188.069	4313.754	4658.306	4539.844	4178.679	4059.494
47.5	4232.854	4716.815	4880.783	4156.287	4430.050	4266.803	4209.739
50.0	4103.557	4862.725	4612.077	4132.450	4308.698	4157.731	4325.312
52.5	4021.211	4776.768	4653.972	4042.881	4172.900	4068.162	4003.875
55.0	4137.506	4529.731	4385.987	4172.900	3746.003	3631.875	3540.861
57.5	4022.655	4091.277	4020.489	3852.908	3368.225	3647.766	3480.186
60.0	3733.001	3727.945	3832.683	3691.828	3115.409	3306.104	3182.586
62.5	3507.634	3386.283	3292.380	3220.147	2875.596	3075.681	2948.551
65.0	3014.283	2969.499	2793.250	2913.157	2702.236	2536.101	2484.815
67.5	2640.116	2603.999	2525.265	2429.918	2149.654	2018.912	2083.922
70.0	2030.469	2150.376	2131.596	1618.741	1435.270	1435.992	1391.713
72.5	1386.584	1396.697	1407.532	1297.738	1266.028	1118.383	1136.514
75.0	1052.940	1113.472	1024.842	928.916	882.109	817.750	800.053
77.5	736.849	744.650	708.822	660.354	626.621	569.918	547.309
80.0	515.888	518.850	490.607	469.587	446.255	412.234	356.036
82.5	364.993	359.720	347.080	316.597	314.141	284.815	244.292
85.0	276.508	283.009	262.061	246.315	229.195	207.959	201.675
87.5	196.546	172.926	155.518	135.292	127.636	114.634	88.630
90.0	104.521	99.898	85.813	90.797	90.580	87.980	64.576
92.5	90.580	90.436	83.935	92.386	93.108	93.903	87.041
95.0	98.092	101.560	98.454	106.471	109.722	109.072	105.894
97.5	104.088	109.216	104.521	109.072	109.000	94.409	93.108
100.0	102.426	99.970	92.892	98.381	96.937	90.941	89.208
102.5	94.192	96.792	90.291	99.754	96.720	86.969	88.702
105.0	91.880	92.892	94.625	94.047	92.314	87.113	92.747
107.5	91.014	88.124	85.596	84.440	92.603	94.553	97.876
110.0	87.474	83.863	76.423	87.330	85.452	86.535	93.036
112.5	83.574	75.772	73.605	77.795	82.779	96.720	100.476

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

115.0	78.951	73.028	69.055	75.050	79.456	85.885	88.052
117.5	78.228	70.355	66.021	74.039	79.890	87.835	89.641
120.0	76.495	65.732	62.626	67.104	77.362	89.063	91.447
122.5	67.466	57.353	55.258	57.281	67.899	79.601	81.840
125.0	59.087	46.590	43.773	46.807	58.220	68.116	70.066
127.5	49.985	36.405	30.555	37.272	48.252	57.136	59.087
130.0	40.884	28.749	21.309	28.315	38.934	45.868	47.674
132.5	31.638	20.948	19.647	20.875	28.965	34.816	36.622
135.0	22.826	19.647	19.358	19.720	21.020	24.415	25.787
137.5	20.948	19.792	19.503	19.864	20.442	21.020	21.164
140.0	21.237	20.514	20.297	20.442	20.948	21.237	21.309
142.5	22.248	21.598	21.381	21.453	21.814	21.959	22.103
145.0	23.331	22.970	22.753	22.753	23.042	23.115	23.187
147.5	25.209	24.993	24.559	24.559	24.559	24.776	24.848
150.0	28.026	27.954	27.593	27.521	27.665	27.521	27.521
152.5	32.577	32.577	32.144	32.216	32.288	31.783	31.927
155.0	38.356	37.850	37.850	38.067	37.417	37.561	37.561
157.5	44.207	43.629	43.701	43.123	43.195	43.268	42.690
160.0	49.191	48.613	48.468	47.890	47.818	48.035	47.746
162.5	53.163	52.658	52.441	51.791	51.647	51.719	51.791
165.0	55.692	55.619	55.258	55.114	54.969	54.247	54.030
167.5	57.136	57.209	57.353	56.992	56.775	56.342	55.908
170.0	57.497	57.714	57.714	57.497	57.353	57.209	56.992
172.5	57.642	57.714	57.642	57.497	57.425	57.281	57.136
175.0	57.714	57.714	57.570	57.497	57.353	57.281	57.209
177.5	57.859	57.714	57.642	57.642	57.570	57.425	57.281
180.0	58.304	58.304	58.304	58.304	58.304	58.304	58.304

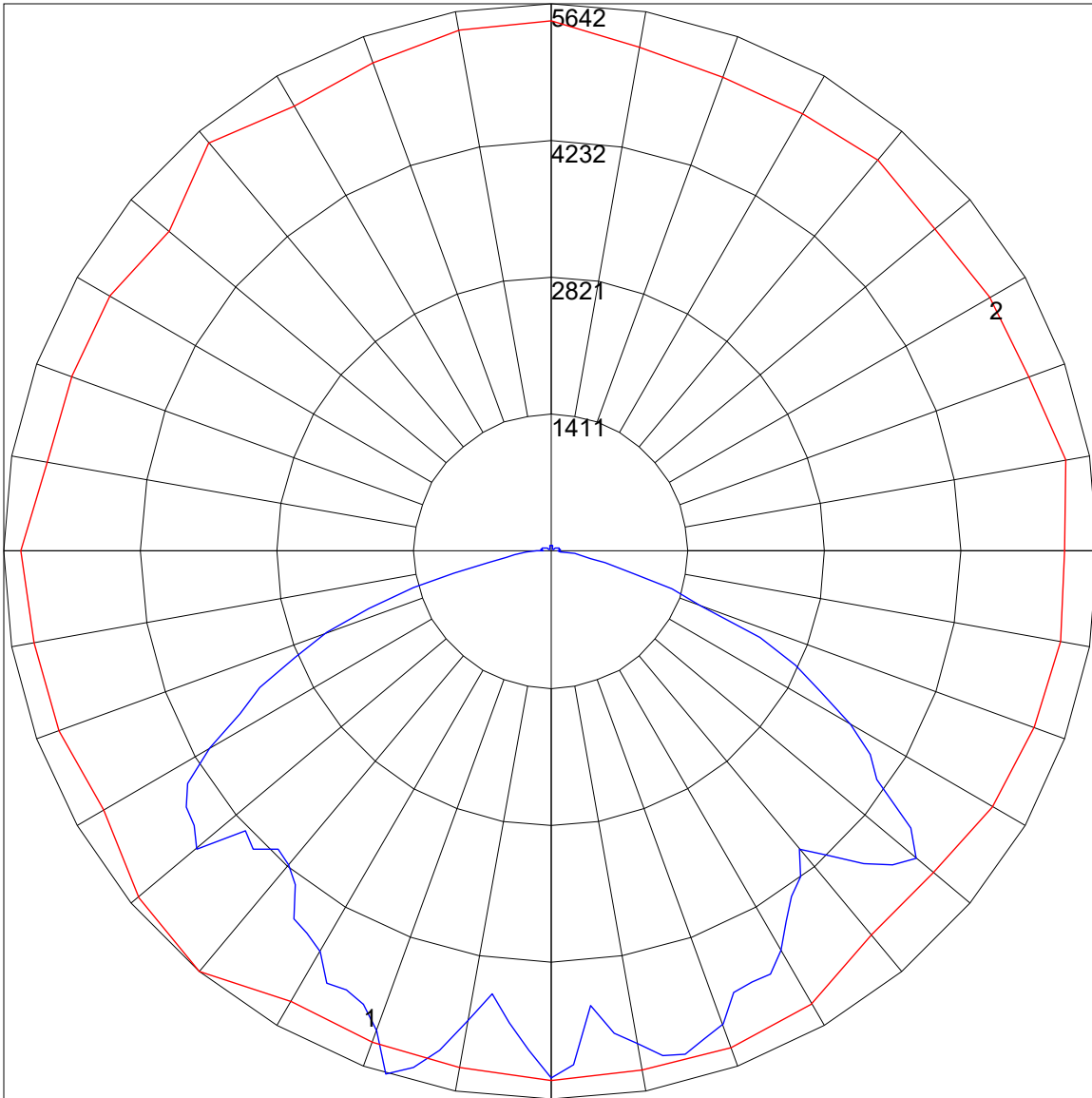
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

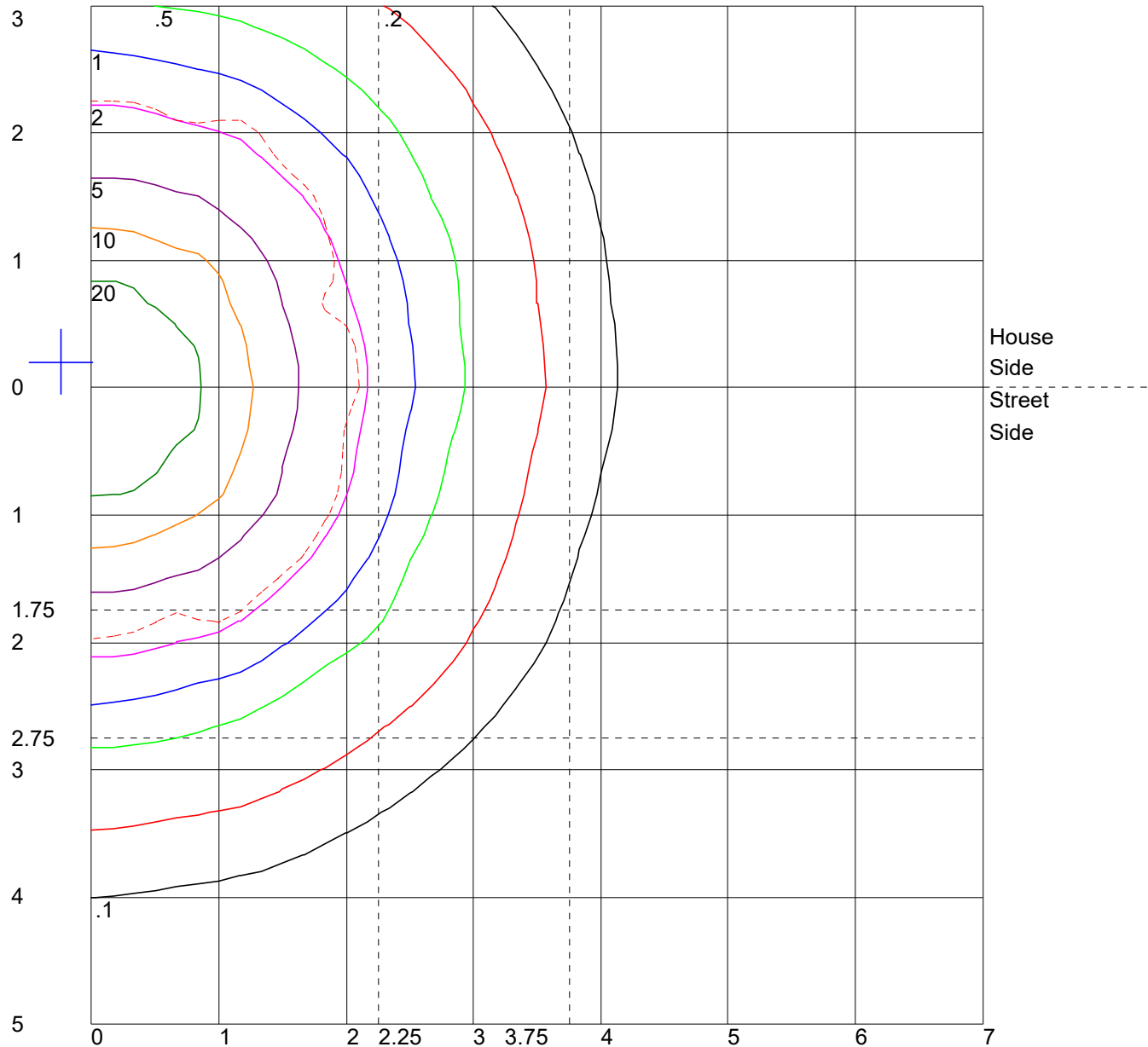
	Lumens	Percent Of Luminaire
Downward Street Side	8995.8	47.8
Downward House Side	9422.0	50.0
Downward Total	18417.8	97.8
Upward Street Side	203.7	1.1
Upward House Side	211.5	1.1
Upward Total	415.2	2.2
Total Flux	18833.0	100.0

POLAR GRAPH



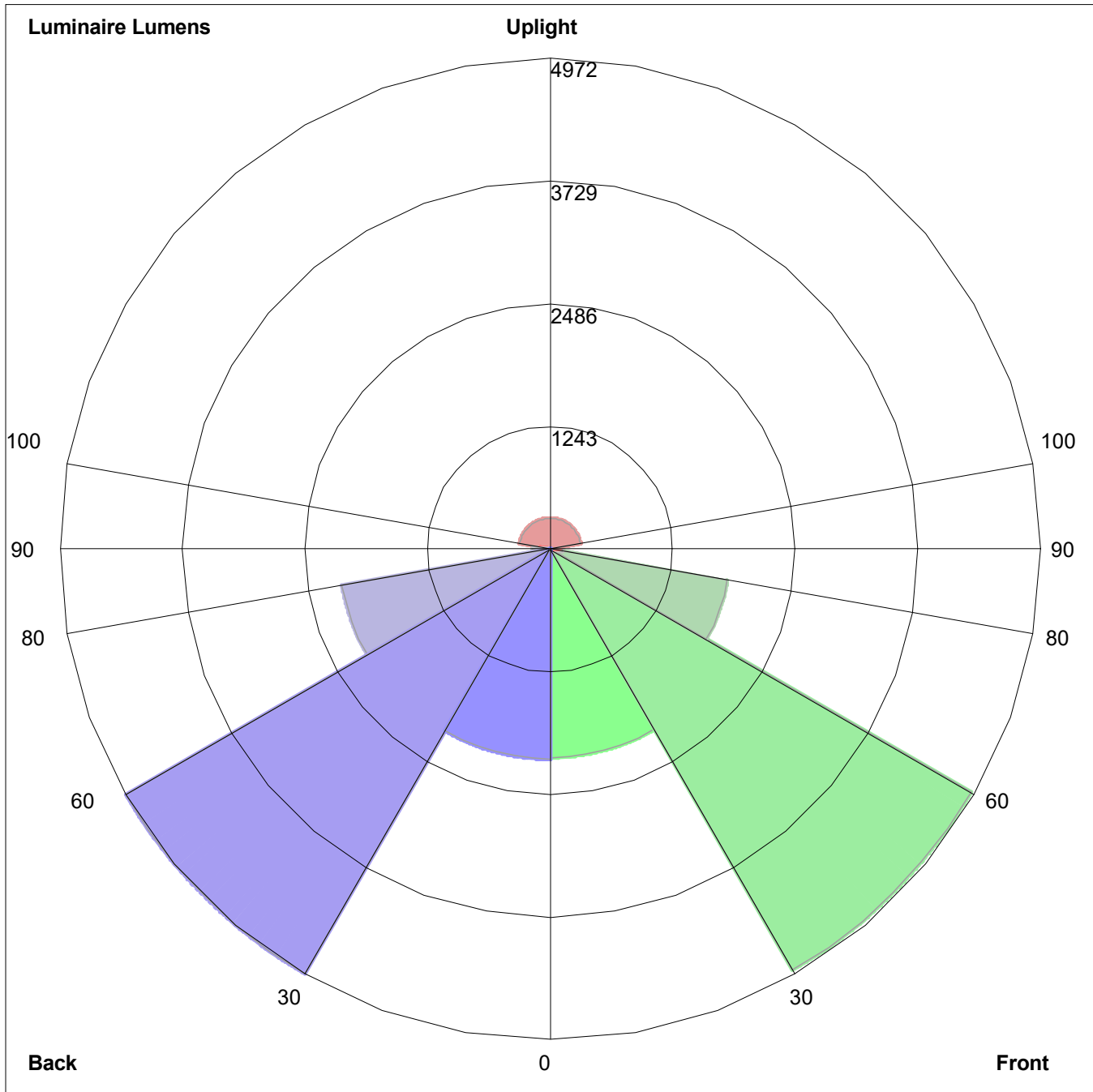
Maximum Candela = 5642.119 Located At Horizontal Angle = 230, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (230 - 50) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
 Values Based On 10 Foot Mounting Height
 1/2 Maximum Candela Trace Shown As Dashed Curve
 (+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
 Front: Low=2112.5, Medium=4927.2, High=1826.8, Very High=129.3
 Back: Low=2128.9, Medium=4971.7, High=2143.2, Very High=178.3
 Uplight: Low=102.6, High=312.6

BUG Rating : B3-U3-G2