



IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QF1X22U5KC.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] Q2016041901
[TESTLAB] QSSI
[ISSUEDATE] 04/19/2016
[MANUFAC] DURAGUARD
[LUMCAT] KH15QF1X22U5KC
[LUMINAIRE] KH15 WITH ONE 22W QSSI LED ARRAY
[LAMPCAT] SAMSUNG 351B LEDs
[LAMP] SA14 MSUNG 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	2399
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	24.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	896.628
Maximum Candela Angle	90H 2.5V
Maximum Candela (<90 Degrees Vertical)	896.628
Maximum Candela Angle (<90 Degrees Vertical)	90H 2.5V
Maximum Candela At 90 Degrees Vertical	.939 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	14.302 (0.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	351.7	N.A.	14.7
FM - Front-Medium (30-60)	671.1	N.A.	28.0
FH - Front-High (60-80)	130.1	N.A.	5.4
FVH - Front-Very High (80-90)	1.0	N.A.	0.0
BL - Back-Low (0-30)	353.8	N.A.	14.7
BM - Back-Medium (30-60)	704.5	N.A.	29.4
BH - Back-High (60-80)	166.1	N.A.	6.9
BVH - Back-Very High (80-90)	1.8	N.A.	0.1
UL - Uplight-Low (90-100)	0.7	N.A.	0.0
UH - Uplight-High (100-180)	17.9	N.A.	0.7
Total	2398.7	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	884.474	884.474	884.474	884.474	884.474	884.474	884.474	884.474	884.474	884.474
2.5	881.459	880.015	880.304	878.859	885.215	884.565	885.504	883.048	877.125	896.628
5.0	875.247	876.620	879.942	874.886	884.349	883.121	887.021	883.482	878.209	895.834
7.5	872.213	872.430	878.426	868.313	881.026	881.098	885.793	884.060	878.859	893.739
10.0	864.557	866.724	875.103	864.701	876.836	877.631	882.109	881.098	877.053	886.299
12.5	854.516	858.634	868.602	858.850	871.780	870.263	877.270	874.814	873.875	880.231
15.0	842.092	848.088	859.934	850.905	867.302	863.112	869.613	866.435	868.963	871.563
17.5	830.102	837.180	851.627	840.142	859.789	855.166	861.090	857.839	860.728	859.717
20.0	817.678	824.973	841.514	825.623	849.460	846.643	850.255	847.943	846.426	840.648
22.5	803.086	810.454	831.835	812.982	836.169	835.736	836.530	834.074	836.241	825.334
25.0	790.229	797.525	812.838	801.208	820.856	822.806	819.700	818.617	824.973	814.499
27.5	776.288	785.389	798.536	789.145	803.014	806.987	802.147	801.786	805.181	795.863
30.0	762.636	771.159	785.823	773.760	784.089	788.857	778.888	786.401	787.990	777.660
32.5	746.745	753.029	765.742	759.602	762.564	769.859	755.629	767.042	772.676	764.081
35.0	722.113	733.237	742.916	744.939	739.088	743.422	733.598	744.650	755.196	753.462
37.5	686.141	711.278	718.213	722.691	723.630	723.052	716.118	726.447	733.598	738.005
40.0	666.133	682.746	691.703	695.893	703.622	701.960	699.143	695.893	701.599	715.901
42.5	652.336	652.264	667.288	670.250	678.412	676.390	676.679	660.282	666.927	681.880
45.0	621.637	625.682	639.695	640.635	653.131	651.325	653.492	627.055	645.835	652.264
47.5	563.562	576.275	608.780	607.046	623.660	624.454	617.737	601.918	608.852	622.937
50.0	444.088	450.012	512.060	576.708	592.094	592.672	588.554	579.742	559.806	548.248
52.5	399.449	402.771	428.053	484.828	556.700	560.384	552.510	488.151	483.239	463.447
55.0	357.337	368.461	394.537	405.877	497.685	524.700	463.664	450.662	449.073	427.547
57.5	329.744	342.023	353.725	370.772	388.108	454.057	417.434	406.166	411.222	409.850
60.0	280.120	302.295	314.503	334.656	348.524	363.188	378.718	366.438	367.955	376.767
62.5	259.750	258.305	270.368	293.483	268.129	266.034	330.249	326.493	322.087	331.694
65.0	187.878	201.602	225.656	244.003	220.672	228.040	272.102	273.113	241.330	251.515
67.5	112.684	114.417	121.857	165.991	182.172	188.311	174.804	188.962	188.600	197.918
70.0	79.240	79.529	88.124	85.813	135.654	126.480	124.458	145.694	139.337	146.489
72.5	33.444	39.728	56.631	57.425	65.299	88.485	88.847	79.167	81.045	80.973
75.0	17.264	16.975	19.503	22.248	36.405	32.938	42.329	41.101	49.552	50.346
77.5	5.056	5.056	5.201	9.174	11.846	16.903	17.986	20.009	21.742	24.054
80.0	3.467	3.756	3.684	3.756	3.684	5.201	7.512	8.596	9.101	10.690
82.5	2.239	2.311	2.384	2.528	2.600	2.600	2.817	3.178	3.612	3.828
85.0	1.228	1.372	1.445	1.517	1.589	1.734	1.806	1.950	2.023	2.167
87.5	0.361	0.433	0.506	0.506	0.578	0.650	0.722	0.939	1.011	1.300
90.0	0.433	0.506	0.433	0.433	0.433	0.506	0.506	0.506	0.433	0.506
92.5	0.506	0.506	0.506	0.506	0.506	0.578	0.506	0.506	0.506	0.578
95.0	0.578	0.578	0.578	0.578	0.650	0.650	0.650	0.578	0.578	0.650
97.5	0.578	0.578	0.650	0.650	0.650	0.722	0.722	0.650	0.650	0.722
100.0	0.722	0.650	0.722	0.722	0.722	0.795	0.722	0.722	0.722	0.795
102.5	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795	0.795
105.0	0.795	0.795	0.867	0.867	0.939	0.867	0.867	0.867	0.867	0.939
107.5	0.939	0.867	0.867	0.939	0.939	0.939	0.939	0.939	0.867	0.939
110.0	0.939	0.939	0.939	1.011	1.011	1.011	1.011	0.939	0.939	1.011
112.5	1.011	0.939	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.083
115.0	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.011	1.156
117.5	1.083	1.083	1.083	1.083	1.083	1.156	1.083	1.083	1.083	1.083
120.0	1.083	1.083	1.156	1.156	1.156	1.228	1.156	1.156	1.083	1.156
122.5	1.156	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.228	1.156
125.0	1.300	1.300	1.300	1.300	1.300	1.372	1.300	1.372	1.300	1.228
127.5	1.445	1.445	1.517	1.517	1.517	1.445	1.445	1.445	1.445	1.372
130.0	1.661	1.661	1.734	1.661	1.734	1.734	1.661	1.589	1.589	1.589

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CANDELA TABULATION - (Cont.)

132.5	1.950	1.950	1.878	1.878	1.878	1.950	1.950	1.878	1.878	1.734
135.0	2.167	2.167	2.167	2.167	2.167	2.167	2.167	2.095	2.167	2.095
137.5	2.384	2.456	2.384	2.384	2.384	2.384	2.384	2.384	2.311	2.311
140.0	2.745	2.817	2.745	2.745	2.745	2.745	2.745	2.745	2.745	2.745
142.5	3.178	3.178	3.178	3.178	3.106	3.178	3.106	3.106	3.034	3.178
145.0	3.684	3.684	3.612	3.684	3.612	3.612	3.612	3.612	3.539	3.684
147.5	4.334	4.262	4.262	4.190	4.262	4.190	4.190	4.262	4.262	4.262
150.0	5.201	5.129	5.201	5.056	5.129	4.984	4.984	5.056	4.984	4.840
152.5	6.284	6.284	6.357	6.284	6.429	6.212	6.357	6.140	6.140	6.212
155.0	8.090	8.379	8.235	8.162	8.162	8.018	8.090	8.162	8.018	9.751
157.5	10.185	10.329	10.402	10.257	10.257	10.113	10.185	9.968	10.113	14.158
160.0	12.713	12.785	12.569	12.785	12.496	12.641	12.641	12.713	12.785	16.975
162.5	14.880	14.952	14.808	14.952	14.808	14.808	14.808	14.663	14.663	19.070
165.0	16.325	16.397	16.252	16.325	16.252	16.252	16.180	16.108	15.963	20.009
167.5	17.191	17.264	17.047	17.119	17.047	17.119	17.047	16.903	16.830	20.297
170.0	17.625	17.697	17.625	17.625	17.553	17.553	17.480	17.408	17.336	20.225
172.5	17.769	17.769	17.769	17.769	17.769	17.697	17.697	17.697	17.625	19.070
175.0	17.553	17.553	17.625	17.625	17.625	17.553	17.625	17.625	17.480	16.975
177.5	16.903	16.975	16.975	17.047	17.119	17.047	17.191	17.047	17.191	15.963
180.0	15.934	15.934	15.934	15.934	15.934	15.934	15.934	15.934	15.934	15.934

Vert. Horizontal Angles

	100	110	120	130	140	150	160	170	180	190
0.0	884.474	884.474	884.474	884.474	884.474	884.474	884.474	884.474	884.474	884.474
2.5	890.922	881.026	887.527	876.764	887.960	888.105	890.633	884.132	886.805	886.154
5.0	889.911	879.798	882.832	876.114	887.310	886.588	892.944	884.782	887.744	887.960
7.5	887.166	878.064	879.292	873.730	884.132	883.410	893.089	883.265	885.649	886.154
10.0	883.843	875.392	873.730	869.469	879.364	879.437	892.439	880.881	882.976	883.699
12.5	877.198	870.191	867.952	868.024	873.153	873.153	888.899	875.753	879.003	879.148
15.0	869.685	863.762	861.812	865.207	866.507	866.507	882.687	869.469	874.453	873.369
17.5	861.162	852.277	852.927	861.451	859.717	859.645	874.019	860.439	867.952	864.196
20.0	848.160	845.993	843.609	854.444	850.905	852.422	862.823	848.088	862.751	856.900
22.5	839.564	837.108	831.691	845.993	839.131	842.020	848.160	836.603	850.905	849.243
25.0	821.795	821.217	814.716	822.084	821.939	828.729	832.269	824.467	841.659	837.542
27.5	805.759	800.342	796.730	800.847	802.653	812.332	816.955	812.549	827.573	824.684
30.0	784.017	783.006	784.306	793.335	790.374	796.369	801.353	799.980	809.587	810.526
32.5	754.257	773.254	774.916	787.990	784.595	780.550	784.378	785.101	793.118	793.407
35.0	744.650	756.352	759.024	772.676	768.559	761.047	764.875	767.548	768.342	775.566
37.5	739.377	736.993	738.871	756.135	750.934	742.266	745.445	746.384	746.600	748.839
40.0	723.197	721.246	721.897	738.944	729.264	725.075	727.892	722.836	723.847	721.319
42.5	696.254	704.922	701.455	712.073	701.382	703.766	708.461	697.048	698.565	699.649
45.0	665.121	678.268	675.306	686.069	673.717	678.412	678.846	669.817	674.873	672.778
47.5	635.650	646.196	638.973	660.137	651.108	645.402	651.181	618.026	606.829	622.432
50.0	582.993	607.263	598.956	631.533	620.626	616.292	570.135	494.941	494.435	503.247
52.5	488.656	530.262	576.925	597.295	587.977	537.775	472.693	461.497	462.219	470.815
55.0	456.729	467.925	519.789	559.878	536.619	442.499	437.949	404.505	432.170	435.276
57.5	416.712	432.676	449.795	517.911	416.929	415.340	401.327	390.203	402.266	396.054
60.0	378.429	394.826	413.678	411.945	379.295	381.968	365.138	361.960	364.993	368.027
62.5	340.506	353.508	375.178	305.979	323.676	349.752	324.976	321.003	321.003	327.721
65.0	278.386	305.329	328.877	262.928	255.055	309.446	291.605	284.381	281.348	282.792
67.5	207.092	217.927	244.148	231.362	226.667	253.827	252.743	234.685	195.029	199.219
70.0	154.290	170.181	154.651	185.783	180.294	174.732	132.114	122.868	119.690	119.257
72.5	89.063	122.796	104.955	129.080	132.692	86.896	92.819	88.485	79.601	86.030
75.0	55.258	55.042	54.319	86.535	53.163	57.209	62.770	51.069	54.391	51.863
77.5	26.437	28.171	34.816	27.087	25.859	30.338	19.575	10.979	14.447	18.419

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CANDELA TABULATION - (Cont.)

80.0	12.785	12.569	12.063	14.302	10.185	9.318	8.162	5.706	4.984	6.357
82.5	4.045	5.129	5.056	4.623	4.262	3.684	3.612	3.467	3.467	4.190
85.0	2.528	2.528	2.528	2.528	2.600	2.456	2.384	2.239	2.167	2.600
87.5	1.517	1.445	1.517	1.517	1.517	1.517	1.589	1.445	1.300	1.589
90.0	0.578	0.578	0.722	0.722	0.795	0.939	0.867	0.867	0.722	0.867
92.5	0.578	0.506	0.650	0.578	0.578	0.506	0.578	0.506	0.578	0.578
95.0	0.650	0.650	0.650	0.650	0.578	0.650	0.578	0.578	0.650	0.578
97.5	0.722	0.722	0.722	0.795	0.795	0.650	0.722	0.722	0.650	0.650
100.0	0.795	0.795	0.795	0.795	0.795	0.795	0.722	0.722	0.722	0.722
102.5	0.867	0.867	0.867	0.867	0.867	0.867	0.795	0.795	0.795	0.795
105.0	0.939	0.939	0.939	0.939	0.939	0.867	0.867	0.867	0.867	0.867
107.5	0.939	1.011	0.939	1.011	0.939	0.939	0.939	0.939	0.939	0.939
110.0	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	0.939	0.939
112.5	1.083	1.011	1.011	1.011	1.083	1.011	1.011	0.939	1.011	1.011
115.0	1.083	1.083	1.083	1.083	1.083	1.083	1.011	1.011	1.011	1.011
117.5	1.083	1.083	1.156	1.083	1.083	1.011	1.011	1.083	1.011	1.011
120.0	1.083	1.156	1.083	1.156	1.083	1.083	1.083	1.083	1.083	1.083
122.5	1.083	1.156	1.228	1.156	1.156	1.083	1.156	1.083	1.156	1.156
125.0	1.228	1.228	1.300	1.228	1.228	1.156	1.228	1.156	1.228	1.228
127.5	1.300	1.372	1.372	1.300	1.372	1.372	1.300	1.372	1.372	1.300
130.0	1.517	1.517	1.517	1.445	1.445	1.517	1.517	1.445	1.517	1.517
132.5	1.734	1.734	1.806	1.806	1.806	1.734	1.661	1.734	1.734	1.734
135.0	2.023	2.095	2.095	2.095	2.095	2.095	2.023	2.023	2.023	2.095
137.5	2.384	2.384	2.384	2.384	2.384	2.384	2.311	2.384	2.384	2.311
140.0	2.817	2.745	2.817	2.745	2.745	2.745	2.745	2.673	2.817	2.673
142.5	3.178	3.178	3.178	3.178	3.178	3.178	3.178	3.178	3.178	3.178
145.0	3.612	3.684	3.612	3.684	3.684	3.612	3.612	3.612	3.684	3.612
147.5	4.190	4.117	4.262	4.190	4.190	4.117	4.190	4.190	4.262	4.117
150.0	4.840	4.840	4.840	4.840	4.767	4.840	4.840	4.840	4.912	4.767
152.5	6.068	6.212	5.995	5.995	6.140	5.995	6.140	6.068	5.995	6.068
155.0	9.968	9.607	10.040	9.751	10.113	9.824	9.607	9.968	10.329	10.113
157.5	14.302	14.158	14.374	14.230	14.374	14.302	14.447	14.374	14.302	14.447
160.0	17.047	16.903	16.903	17.047	16.903	17.119	16.903	17.047	17.047	17.119
162.5	18.997	18.853	19.070	18.997	18.925	18.781	18.781	18.636	18.203	18.492
165.0	19.936	19.864	19.864	19.864	19.720	19.720	19.214	18.781	17.986	18.419
167.5	20.225	20.225	20.225	20.153	19.936	19.575	18.997	18.564	18.203	18.492
170.0	20.153	19.936	19.936	19.575	19.214	18.636	18.203	17.914	16.697	17.842
172.5	19.070	18.564	18.419	17.842	17.480	17.047	16.830	16.541	16.686	16.758
175.0	16.830	16.541	16.469	16.180	16.180	16.036	15.963	15.963	15.963	15.963
177.5	15.891	15.819	15.819	15.747	15.602	15.675	15.602	15.530	15.458	15.241
180.0	15.934	15.934	15.934	15.934	15.934	15.934	15.934	15.934	15.934	15.934

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	884.474	884.474	884.474	884.474	884.474	884.474	884.474	884.474	884.474	884.474
2.5	880.809	883.915	882.687	887.599	877.775	883.193	876.692	893.233	893.956	881.243
5.0	880.448	887.599	880.015	884.927	871.925	879.509	874.958	892.294	893.739	880.592
7.5	877.053	883.699	877.920	881.676	868.024	874.525	869.541	888.177	892.439	880.881
10.0	874.164	883.410	873.008	876.114	860.439	868.024	863.834	883.699	887.599	879.148
12.5	870.480	880.737	868.241	868.674	855.311	859.067	856.322	877.414	879.437	873.803
15.0	866.507	876.836	857.261	859.789	847.149	850.327	847.149	869.758	871.925	867.807
17.5	855.383	869.324	848.738	848.232	837.975	843.609	838.625	860.945	864.051	859.789
20.0	844.837	858.923	839.925	833.569	832.702	831.835	829.885	852.927	854.805	852.855
22.5	832.846	847.221	830.318	821.939	815.872	822.228	819.845	841.803	841.370	840.431
25.0	821.867	833.424	821.939	810.238	801.497	798.752	806.265	828.224	821.867	829.813

IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QF1X22U5KC.IES

CANDELA TABULATION - (Cont.)

27.5	812.477	816.739	810.888	798.969	793.985	782.572	789.507	811.321	801.859	814.933
30.0	799.908	798.319	796.802	781.272	785.245	772.243	774.771	785.028	775.060	795.141
32.5	784.523	782.428	778.238	762.781	768.704	762.130	759.891	754.257	753.535	775.132
35.0	768.487	761.841	760.108	749.417	752.234	749.706	743.278	734.826	730.565	756.352
37.5	749.851	739.810	741.688	735.621	736.343	734.971	726.736	716.624	711.278	735.982
40.0	727.097	723.341	720.380	716.913	715.323	714.962	704.272	694.737	683.252	706.583
42.5	698.999	701.599	698.421	697.121	695.098	690.692	679.713	654.648	655.731	669.889
45.0	669.817	677.473	672.417	671.261	664.471	665.916	657.754	624.382	635.072	631.533
47.5	638.467	650.097	644.896	644.463	634.134	628.861	623.876	588.843	610.802	588.771
50.0	529.323	615.497	617.014	614.053	606.324	595.489	579.092	511.482	546.876	549.765
52.5	458.607	519.283	583.643	576.853	571.580	526.362	476.449	465.036	464.242	468.720
55.0	428.631	436.721	516.610	534.958	516.249	446.617	433.687	430.942	431.231	434.770
57.5	398.148	406.311	412.523	480.061	427.403	407.177	391.142	390.636	386.591	394.537
60.0	364.199	372.072	367.016	343.468	384.569	369.327	353.364	347.513	346.213	351.630
62.5	328.949	333.139	329.310	270.079	342.168	326.204	309.807	305.835	299.261	306.123
65.0	285.104	295.433	265.023	239.236	286.115	283.587	243.497	210.993	206.225	232.446
67.5	235.335	238.947	206.948	197.052	187.372	192.573	181.160	163.680	158.624	159.924
70.0	124.241	144.611	162.452	153.567	126.191	143.238	128.575	115.212	110.517	114.273
72.5	93.614	79.384	91.014	94.553	87.835	89.786	69.994	59.953	58.581	61.976
75.0	58.436	55.258	48.902	53.669	56.486	36.261	42.473	34.166	35.539	30.266
77.5	20.009	22.826	24.848	23.187	24.631	19.286	18.708	16.108	16.252	15.024
80.0	8.379	9.535	9.463	11.052	9.896	9.174	9.463	6.429	6.429	5.923
82.5	4.117	3.973	3.539	4.190	3.250	3.467	3.612	3.034	3.034	2.673
85.0	2.745	2.528	2.456	2.456	2.384	2.239	2.167	1.734	1.661	1.661
87.5	1.734	1.589	1.517	1.445	1.372	1.300	1.300	0.867	0.722	0.795
90.0	0.795	0.867	0.867	0.722	0.722	0.722	0.722	0.361	0.433	0.433
92.5	0.578	0.650	0.650	0.722	0.722	0.722	0.722	0.433	0.506	0.506
95.0	0.650	0.722	0.795	0.795	0.722	0.795	0.795	0.506	0.578	0.578
97.5	0.722	0.795	0.795	0.795	0.867	0.867	0.867	0.578	0.650	0.650
100.0	0.795	0.867	0.867	0.867	0.939	0.939	0.939	0.722	0.650	0.722
102.5	0.867	0.939	0.939	1.011	1.011	1.011	1.011	0.722	0.795	0.867
105.0	1.011	1.011	0.939	1.011	1.011	1.083	1.083	0.795	0.795	0.867
107.5	0.939	0.939	1.011	1.083	1.156	1.083	1.083	0.867	0.867	0.939
110.0	1.011	1.011	1.083	1.083	1.156	1.156	1.228	0.939	0.939	1.011
112.5	1.083	1.083	1.156	1.156	1.228	1.228	1.228	0.939	0.939	1.011
115.0	1.083	1.156	1.156	1.228	1.156	1.228	1.228	1.011	1.011	1.083
117.5	1.011	1.156	1.156	1.228	1.228	1.228	1.228	1.011	1.083	1.011
120.0	1.083	1.156	1.156	1.228	1.228	1.228	1.228	1.011	1.083	1.083
122.5	1.156	1.156	1.228	1.300	1.228	1.228	1.300	1.156	1.083	1.156
125.0	1.228	1.300	1.300	1.372	1.300	1.372	1.300	1.228	1.300	1.300
127.5	1.372	1.445	1.372	1.445	1.445	1.445	1.517	1.372	1.372	1.445
130.0	1.517	1.517	1.589	1.589	1.589	1.589	1.589	1.517	1.661	1.589
132.5	1.734	1.734	1.806	1.734	1.878	1.806	1.878	1.878	1.878	1.950
135.0	2.095	2.095	2.167	2.095	2.167	2.095	2.167	2.095	2.167	2.095
137.5	2.384	2.384	2.456	2.456	2.528	2.384	2.456	2.311	2.311	2.384
140.0	2.745	2.745	2.817	2.817	2.745	2.745	2.817	2.673	2.745	2.673
142.5	3.178	3.178	3.178	3.178	3.178	3.250	3.250	3.034	3.106	3.034
145.0	3.684	3.612	3.612	3.684	3.684	3.612	3.684	3.539	3.612	3.539
147.5	4.117	4.117	4.190	4.262	4.190	4.190	4.262	4.117	4.190	4.190
150.0	4.767	4.840	4.767	4.840	4.767	4.840	4.840	5.056	4.984	5.056
152.5	6.212	6.140	6.068	5.995	6.068	6.284	6.140	6.212	6.284	6.357
155.0	9.751	10.113	9.896	10.257	9.968	9.824	10.113	8.162	8.090	8.235
157.5	14.230	14.447	14.302	14.519	14.374	14.230	14.447	10.329	10.257	10.402
160.0	16.975	17.119	17.047	16.903	16.975	16.975	17.119	12.785	12.641	12.785
162.5	18.853	18.925	18.925	18.853	18.925	18.925	18.925	14.952	14.880	14.952
165.0	19.286	19.720	19.720	19.720	19.720	19.792	19.792	16.108	16.252	16.108

IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QF1X22U5KC.IES

CANDELA TABULATION - (Cont.)

167.5	18.853	19.647	20.009	20.009	20.153	20.225	20.153	16.975	16.975	16.975
170.0	17.914	18.564	19.286	19.575	19.936	20.009	20.153	17.408	17.408	17.408
172.5	16.686	16.758	17.119	17.842	18.058	18.636	18.925	17.480	17.480	17.553
175.0	15.747	15.747	15.675	15.891	16.397	16.541	16.830	17.191	17.264	17.264
177.5	15.169	15.169	15.169	15.097	15.313	15.458	15.675	16.830	16.830	16.758
180.0	15.934	15.934	15.934	15.934	15.934	15.934	15.934	15.934	15.934	15.934

Vert. Horizontal Angles
Angles

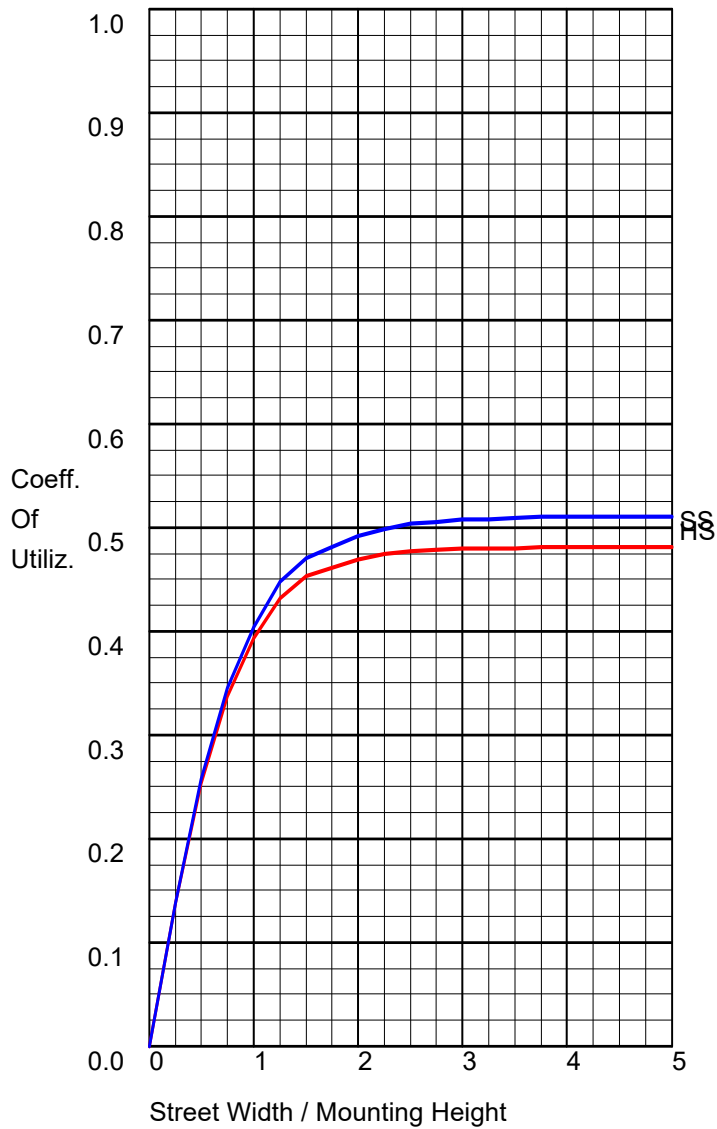
	300	310	320	330	340	350	360
0.0	884.474	884.474	884.474	884.474	884.474	884.474	884.474
2.5	884.782	874.019	886.082	888.394	882.471	880.015	881.459
5.0	882.254	874.453	883.915	887.021	878.426	878.570	875.247
7.5	881.243	874.380	885.288	881.459	874.958	875.536	872.213
10.0	877.992	872.647	880.737	873.586	868.530	871.419	864.557
12.5	872.864	868.818	873.514	865.568	863.112	865.929	854.516
15.0	865.568	862.823	864.123	857.984	853.866	860.728	842.092
17.5	856.756	854.444	855.166	851.483	842.453	849.749	830.102
20.0	844.043	845.198	846.860	842.237	830.246	840.720	817.678
22.5	829.596	836.458	836.314	828.729	818.039	829.885	803.086
25.0	815.366	824.106	823.167	813.055	804.026	813.777	790.229
27.5	799.764	807.854	809.299	795.213	789.940	796.441	776.288
30.0	781.705	789.507	791.674	777.155	774.843	777.516	762.636
32.5	761.697	770.871	772.026	762.058	757.363	758.663	746.745
35.0	739.088	749.345	748.912	739.233	735.693	737.138	722.113
37.5	715.396	724.280	726.592	711.712	715.323	716.696	686.141
40.0	696.398	696.109	699.432	693.292	694.304	682.602	666.133
42.5	668.372	667.577	670.250	669.311	670.611	662.088	652.336
45.0	641.501	640.057	644.968	640.346	637.673	635.217	621.637
47.5	611.236	616.509	617.809	602.207	599.606	595.994	563.562
50.0	571.941	586.026	586.749	565.729	508.304	466.264	444.088
52.5	531.852	549.765	549.765	480.133	414.762	425.886	399.449
55.0	443.438	505.920	508.448	405.010	392.514	391.936	357.337
57.5	403.132	407.972	391.214	367.738	351.486	348.019	329.744
60.0	357.553	347.874	334.728	325.193	313.636	303.523	280.120
62.5	310.024	245.014	246.387	281.275	269.790	256.572	259.750
65.0	246.459	201.241	206.514	236.202	215.688	200.374	187.878
67.5	146.994	151.111	161.152	154.940	118.823	114.417	112.684
70.0	97.731	93.036	111.383	82.129	85.018	78.012	79.240
72.5	60.676	66.960	45.290	53.380	50.563	39.150	33.444
75.0	30.843	25.065	25.570	22.609	19.792	18.636	17.264
77.5	14.374	12.280	10.185	8.957	4.840	5.201	5.056
80.0	5.706	4.623	3.395	3.395	3.467	3.612	3.467
82.5	2.456	2.311	2.311	2.239	2.311	2.311	2.239
85.0	1.517	1.445	1.300	1.372	1.445	1.372	1.228
87.5	0.578	0.506	0.506	0.433	0.506	0.361	0.361
90.0	0.506	0.433	0.506	0.506	0.433	0.506	0.433
92.5	0.506	0.578	0.578	0.506	0.506	0.506	0.506
95.0	0.578	0.650	0.578	0.578	0.578	0.578	0.578
97.5	0.650	0.650	0.722	0.722	0.650	0.650	0.578
100.0	0.722	0.795	0.722	0.722	0.722	0.650	0.722
102.5	0.795	0.795	0.867	0.795	0.795	0.795	0.795
105.0	0.867	0.867	0.867	0.939	0.867	0.867	0.795
107.5	0.939	0.939	0.939	0.939	0.939	0.939	0.939
110.0	1.011	1.011	1.011	0.939	0.939	0.939	0.939
112.5	1.083	1.083	1.083	1.083	1.011	1.011	1.011

IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QF1X22U5KC.IES

CANDELA TABULATION - (Cont.)

115.0	1.083	1.083	1.083	1.083	1.083	1.011	1.083
117.5	1.156	1.228	1.156	1.156	1.083	1.083	1.083
120.0	1.156	1.156	1.228	1.228	1.156	1.083	1.083
122.5	1.228	1.228	1.300	1.300	1.228	1.156	1.156
125.0	1.372	1.372	1.445	1.300	1.372	1.300	1.300
127.5	1.517	1.517	1.517	1.517	1.517	1.445	1.445
130.0	1.734	1.661	1.661	1.661	1.661	1.661	1.661
132.5	1.950	1.950	1.950	1.950	1.950	1.878	1.950
135.0	2.167	2.167	2.167	2.167	2.167	2.167	2.167
137.5	2.456	2.456	2.384	2.456	2.384	2.456	2.384
140.0	2.745	2.745	2.745	2.745	2.673	2.745	2.745
142.5	3.106	3.106	3.106	3.106	3.106	3.106	3.178
145.0	3.612	3.612	3.684	3.539	3.612	3.612	3.684
147.5	4.262	4.190	4.262	4.190	4.262	4.262	4.334
150.0	5.056	5.056	5.056	5.056	5.201	5.129	5.201
152.5	6.212	6.212	6.212	6.284	6.284	6.357	6.284
155.0	8.090	8.162	8.018	8.162	8.090	8.162	8.090
157.5	10.257	10.257	10.329	10.329	10.257	10.329	10.185
160.0	12.713	12.713	12.785	12.569	12.930	12.785	12.713
162.5	14.808	14.808	14.952	14.880	14.952	14.952	14.880
165.0	16.252	16.252	16.325	16.325	16.325	16.325	16.325
167.5	16.975	17.047	17.119	17.119	17.191	17.191	17.191
170.0	17.408	17.480	17.625	17.553	17.625	17.625	17.625
172.5	17.625	17.697	17.697	17.769	17.769	17.842	17.769
175.0	17.408	17.408	17.480	17.553	17.553	17.625	17.553
177.5	16.830	16.903	16.903	16.975	16.975	17.047	16.903
180.0	15.934	15.934	15.934	15.934	15.934	15.934	15.934

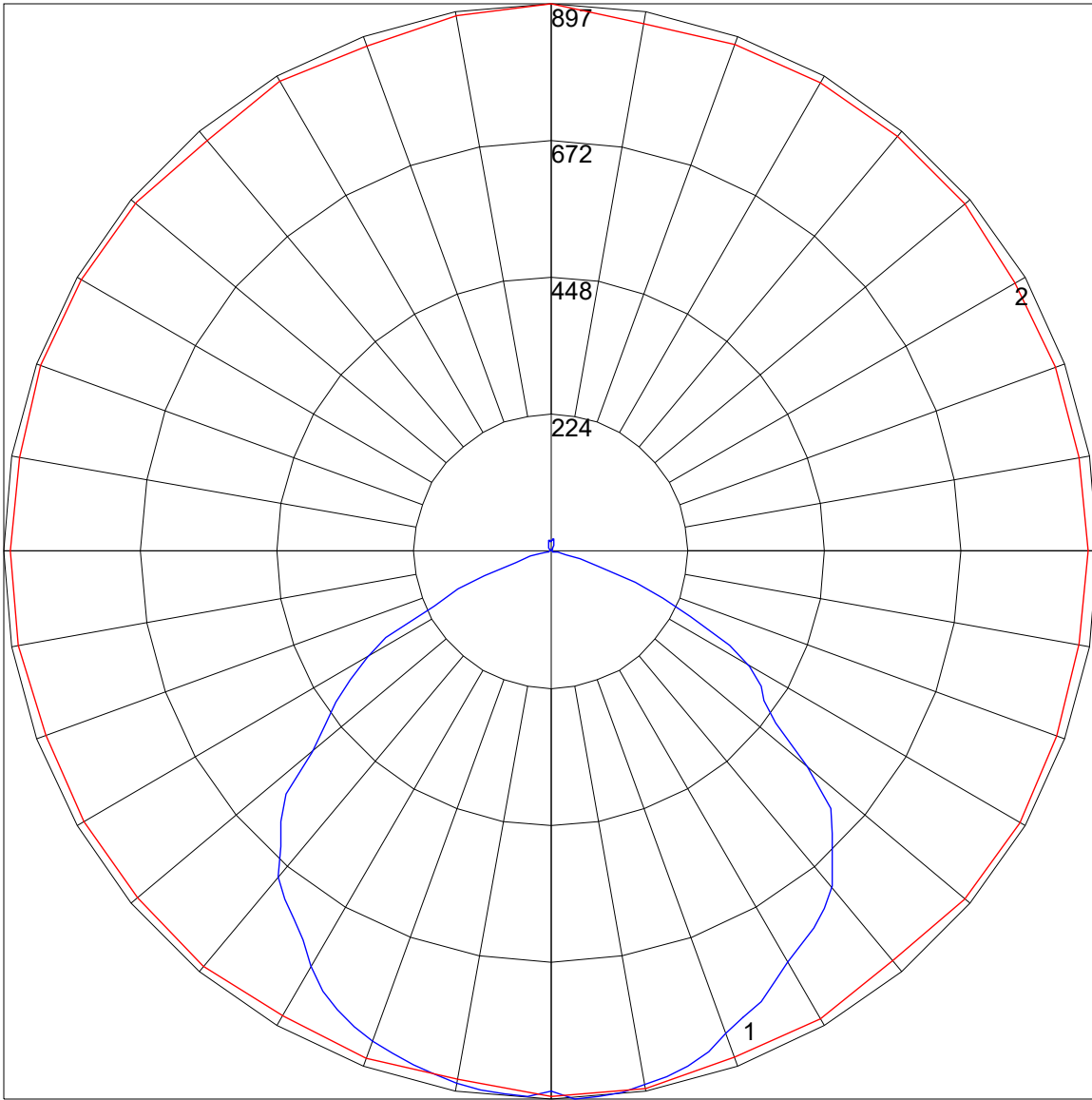
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

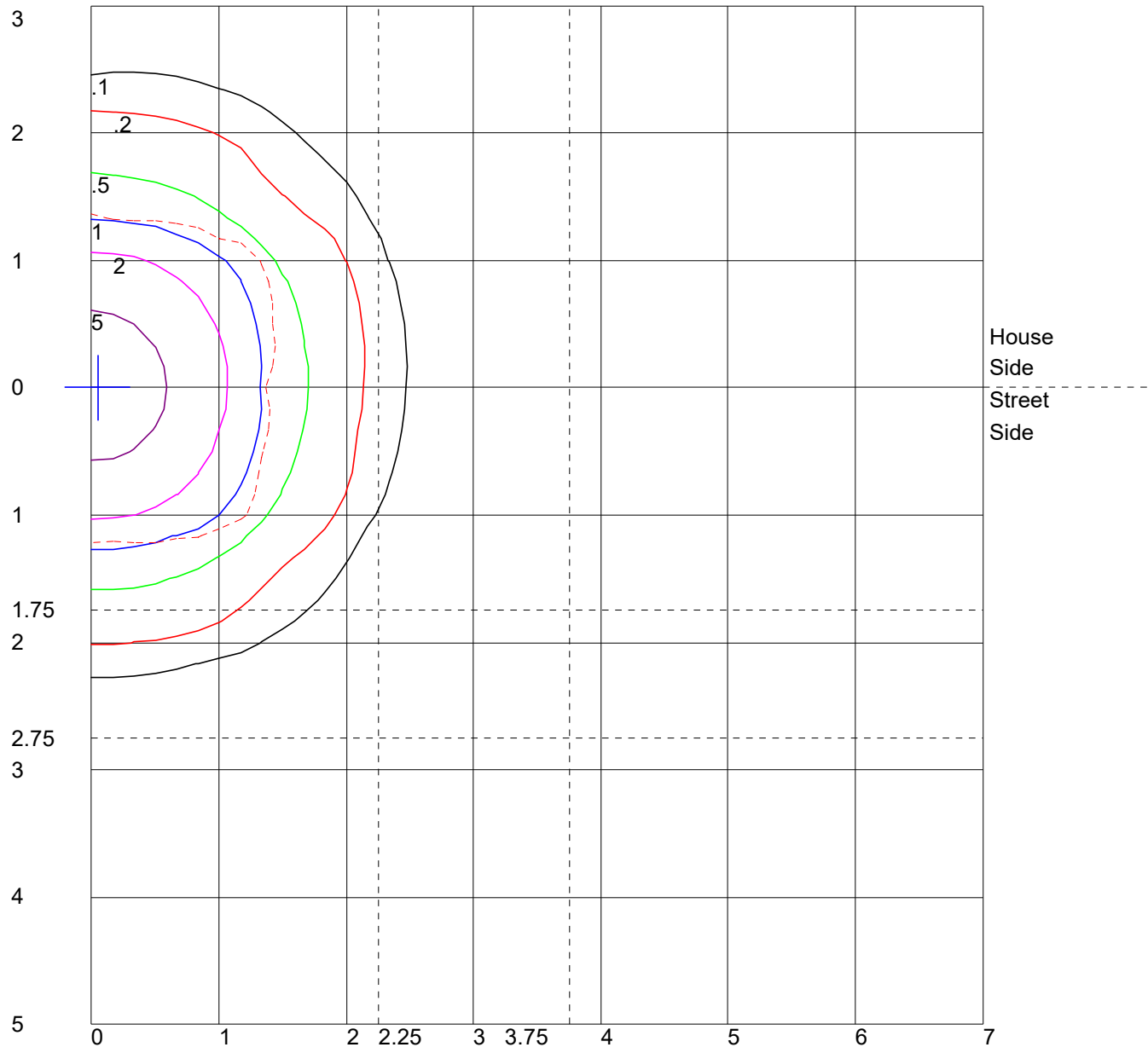
	Lumens	Percent Of Luminaire
Downward Street Side	1154.0	48.1
Downward House Side	1226.1	51.1
Downward Total	2380.1	99.2
Upward Street Side	8.9	0.4
Upward House Side	9.7	0.4
Upward Total	18.6	0.8
Total Flux	2398.7	100.0

POLAR GRAPH



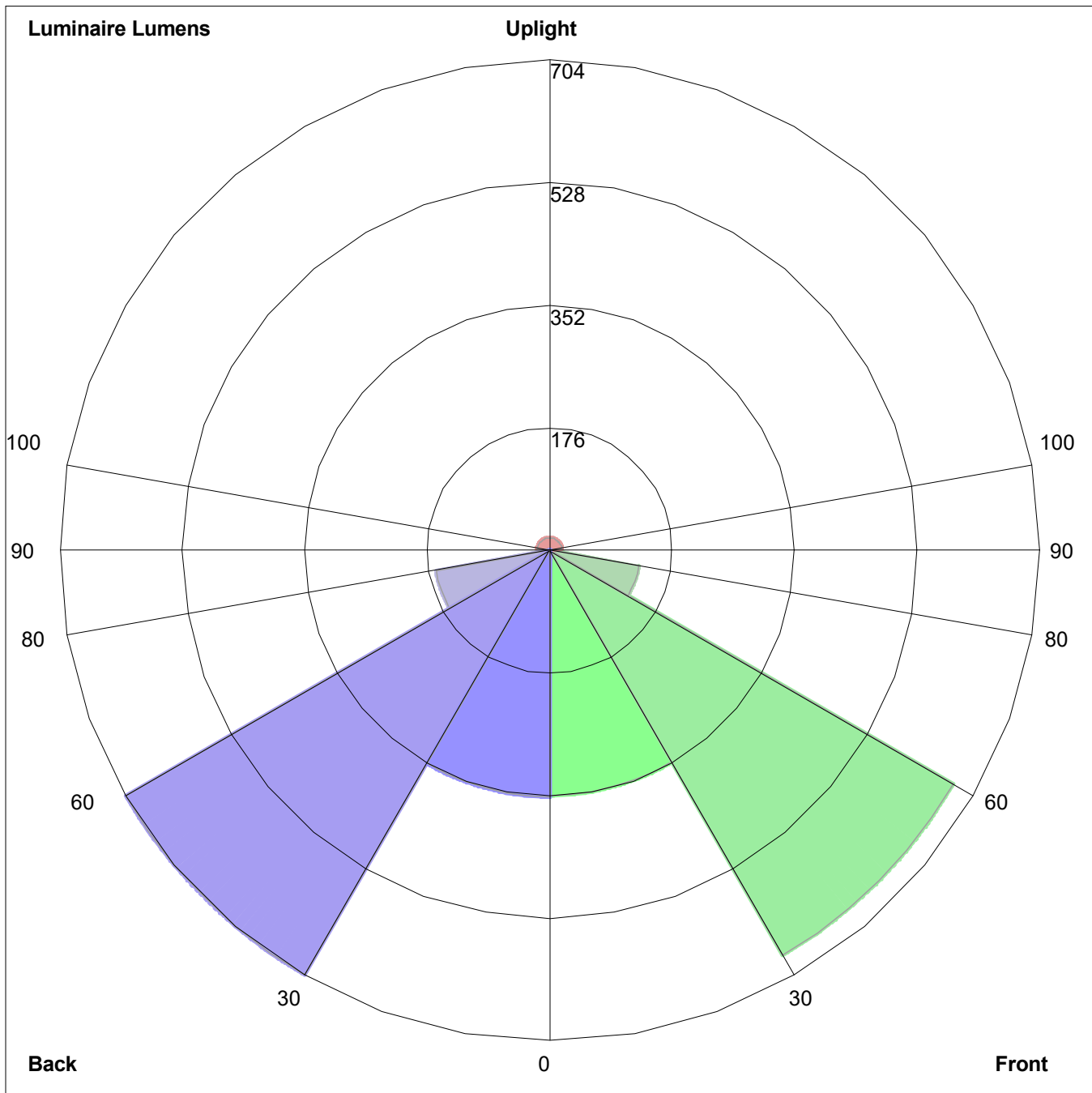
Maximum Candela = 896.628 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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=351.7, Medium=671.1, High=130.1, Very High=1.0
 Back: Low=353.8, Medium=704.5, High=166.1, Very High=1.8
 Uplight: Low=0.7, High=17.9

BUG Rating : B1-U2-G0