



IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QF1X22U4KC.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] Q2016041901 (scaled to 4K)
[TESTLAB] QSSI
[ISSUE DATE] 04/19/2016
[MANUFAC] DuraGuard
[LUMCAT] KH15QF1X22U4KC
[LUMINAIRE] KH15 WITH ONE 22W QSSI LED ARRAY
[LAMP CAT] 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	2195
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	24.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	820.415
Maximum Candela Angle	90H 2.5V
Maximum Candela (<90 Degrees Vertical)	820.415
Maximum Candela Angle (<90 Degrees Vertical)	90H 2.5V
Maximum Candela At 90 Degrees Vertical	.859 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	13.086 (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)	321.8	N.A.	14.7
FM - Front-Medium (30-60)	614.1	N.A.	28.0
FH - Front-High (60-80)	119.1	N.A.	5.4
FVH - Front-Very High (80-90)	1.0	N.A.	0.0
BL - Back-Low (0-30)	323.7	N.A.	14.7
BM - Back-Medium (30-60)	644.6	N.A.	29.4
BH - Back-High (60-80)	152.0	N.A.	6.9
BVH - Back-Very High (80-90)	1.6	N.A.	0.1
UL - Uplight-Low (90-100)	0.6	N.A.	0.0
UH - Uplight-High (100-180)	16.4	N.A.	0.7
Total	2194.9	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	809.294	809.294	809.294	809.294	809.294	809.294	809.294	809.294	809.294	809.294
2.5	806.535	805.214	805.478	804.156	809.972	809.377	810.236	807.989	802.569	820.415
5.0	800.851	802.107	805.147	800.521	809.179	808.056	811.624	808.386	803.561	819.688
7.5	798.075	798.273	803.760	794.506	806.139	806.205	810.501	808.915	804.156	817.771
10.0	791.070	793.052	800.719	791.201	802.305	803.032	807.130	806.205	802.504	810.964
12.5	781.882	785.650	794.771	785.848	797.679	796.291	802.702	800.455	799.596	805.411
15.0	770.514	776.001	786.840	778.578	793.581	789.747	795.696	792.788	795.101	797.480
17.5	759.543	766.020	779.239	768.730	786.707	782.477	787.897	784.923	787.566	786.641
20.0	748.175	754.850	769.985	755.445	777.256	774.678	777.983	775.868	774.480	769.193
22.5	734.824	741.565	761.129	743.879	765.095	764.698	765.425	763.178	765.161	755.181
25.0	723.060	729.735	743.747	733.105	751.083	752.868	750.026	749.035	754.850	745.267
27.5	710.304	718.631	730.660	722.068	734.758	738.393	733.965	733.634	736.741	728.215
30.0	697.812	705.611	719.028	707.990	717.441	721.804	712.683	719.557	721.011	711.559
32.5	683.272	689.022	700.654	695.036	697.746	704.421	691.401	701.843	706.999	699.134
35.0	660.733	670.912	679.768	681.619	676.266	680.231	671.242	681.355	691.004	689.418
37.5	627.819	650.819	657.165	661.262	662.121	661.593	655.248	664.699	671.242	675.275
40.0	609.512	624.713	632.908	636.742	643.814	642.293	639.716	636.742	641.963	655.049
42.5	596.887	596.822	610.569	613.279	620.747	618.897	619.161	604.158	610.238	623.920
45.0	568.798	572.499	585.321	586.181	597.615	595.962	597.945	573.755	590.939	596.822
47.5	515.659	527.292	557.034	555.447	570.649	571.375	565.229	550.755	557.100	569.987
50.0	406.341	411.761	468.535	527.688	541.766	542.295	538.527	530.464	512.223	501.647
52.5	365.496	368.535	391.669	443.618	509.381	512.751	505.547	446.658	442.164	424.054
55.0	326.963	337.142	361.001	371.377	455.382	480.101	424.253	412.356	410.902	391.206
57.5	301.716	312.951	323.658	339.256	355.119	415.462	381.952	371.642	376.268	375.013
60.0	256.310	276.600	287.770	306.210	318.899	332.317	346.527	335.291	336.679	344.742
62.5	237.671	236.349	247.387	268.537	245.338	243.421	302.178	298.741	294.710	303.500
65.0	171.908	184.466	206.475	223.263	201.915	208.657	248.973	249.898	220.817	230.136
67.5	103.106	104.692	111.499	151.882	166.687	172.305	159.946	172.900	172.569	181.095
70.0	72.505	72.769	80.633	78.519	124.123	115.729	113.879	133.310	127.493	134.037
72.5	30.601	36.351	51.817	52.544	59.749	80.964	81.295	72.438	74.156	74.090
75.0	15.797	15.532	17.845	20.357	33.311	30.138	38.731	37.607	45.340	46.067
77.5	4.626	4.626	4.759	8.394	10.839	15.466	16.457	18.308	19.894	22.009
80.0	3.172	3.437	3.371	3.437	3.371	4.759	6.873	7.865	8.327	9.781
82.5	2.049	2.115	2.181	2.313	2.379	2.379	2.578	2.908	3.305	3.503
85.0	1.124	1.255	1.322	1.388	1.454	1.587	1.652	1.784	1.851	1.983
87.5	0.330	0.396	0.463	0.463	0.529	0.595	0.661	0.859	0.925	1.190
90.0	0.396	0.463	0.396	0.396	0.396	0.463	0.463	0.463	0.396	0.463
92.5	0.463	0.463	0.463	0.463	0.463	0.529	0.463	0.463	0.463	0.529
95.0	0.529	0.529	0.529	0.529	0.595	0.595	0.595	0.529	0.529	0.595
97.5	0.529	0.529	0.595	0.595	0.595	0.661	0.661	0.595	0.595	0.661
100.0	0.661	0.595	0.661	0.661	0.661	0.727	0.661	0.661	0.661	0.727
102.5	0.727	0.727	0.727	0.727	0.727	0.727	0.727	0.727	0.727	0.727
105.0	0.727	0.727	0.793	0.793	0.859	0.793	0.793	0.793	0.793	0.859
107.5	0.859	0.793	0.793	0.859	0.859	0.859	0.859	0.859	0.793	0.859
110.0	0.859	0.859	0.859	0.925	0.925	0.925	0.925	0.859	0.859	0.925
112.5	0.925	0.859	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.991
115.0	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.991	0.925	1.058
117.5	0.991	0.991	0.991	0.991	0.991	1.058	0.991	0.991	0.991	0.991
120.0	0.991	0.991	1.058	1.058	1.058	1.124	1.058	1.058	0.991	1.058
122.5	1.058	1.124	1.124	1.124	1.124	1.124	1.124	1.124	1.124	1.058
125.0	1.190	1.190	1.190	1.190	1.190	1.255	1.190	1.255	1.190	1.124
127.5	1.322	1.322	1.388	1.388	1.388	1.322	1.322	1.322	1.322	1.255
130.0	1.520	1.520	1.587	1.520	1.587	1.587	1.520	1.454	1.454	1.454

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CANDELA TABULATION - (Cont.)

132.5	1.784	1.784	1.718	1.718	1.718	1.784	1.784	1.718	1.718	1.587
135.0	1.983	1.983	1.983	1.983	1.983	1.983	1.983	1.917	1.983	1.917
137.5	2.181	2.247	2.181	2.181	2.181	2.181	2.181	2.181	2.115	2.115
140.0	2.512	2.578	2.512	2.512	2.512	2.512	2.512	2.512	2.512	2.512
142.5	2.908	2.908	2.908	2.908	2.842	2.908	2.842	2.842	2.776	2.908
145.0	3.371	3.371	3.305	3.371	3.305	3.305	3.305	3.305	3.238	3.371
147.5	3.966	3.900	3.900	3.834	3.900	3.834	3.834	3.900	3.900	3.900
150.0	4.759	4.693	4.759	4.626	4.693	4.560	4.560	4.626	4.560	4.429
152.5	5.750	5.750	5.817	5.750	5.883	5.684	5.817	5.618	5.618	5.684
155.0	7.402	7.667	7.535	7.468	7.468	7.336	7.402	7.468	7.336	8.922
157.5	9.319	9.451	9.518	9.385	9.385	9.253	9.319	9.121	9.253	12.955
160.0	11.632	11.698	11.501	11.698	11.434	11.567	11.567	11.632	11.698	15.532
162.5	13.615	13.681	13.549	13.681	13.549	13.549	13.549	13.417	13.417	17.449
165.0	14.937	15.003	14.871	14.937	14.871	14.871	14.805	14.739	14.606	18.308
167.5	15.730	15.797	15.598	15.664	15.598	15.664	15.598	15.466	15.399	18.572
170.0	16.127	16.193	16.127	16.127	16.061	16.061	15.994	15.928	15.862	18.506
172.5	16.259	16.259	16.259	16.259	16.259	16.193	16.193	16.193	16.127	17.449
175.0	16.061	16.061	16.127	16.127	16.127	16.061	16.127	16.127	15.994	15.532
177.5	15.466	15.532	15.532	15.598	15.664	15.598	15.730	15.598	15.730	14.606
180.0	14.580	14.580	14.580	14.580	14.580	14.580	14.580	14.580	14.580	14.580

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	809.294	809.294	809.294	809.294	809.294	809.294	809.294	809.294	809.294	809.294
2.5	815.194	806.139	812.087	802.239	812.483	812.616	814.929	808.981	811.427	810.831
5.0	814.269	805.015	807.791	801.644	811.889	811.228	817.044	809.576	812.286	812.483
7.5	811.757	803.429	804.552	799.463	808.981	808.320	817.176	808.187	810.369	810.831
10.0	808.716	800.984	799.463	795.564	804.618	804.685	816.582	806.006	807.923	808.585
12.5	802.636	796.225	794.176	794.242	798.935	798.935	813.343	801.314	804.288	804.420
15.0	795.762	790.342	788.558	791.664	792.854	792.854	807.659	795.564	800.125	799.133
17.5	787.963	779.833	780.428	788.228	786.641	786.575	799.727	787.302	794.176	790.739
20.0	776.066	774.084	771.902	781.816	778.578	779.966	789.483	776.001	789.417	784.064
22.5	768.201	765.954	760.997	774.084	767.805	770.448	776.066	765.492	778.578	777.057
25.0	751.942	751.414	745.465	752.207	752.074	758.287	761.526	754.387	770.118	766.351
27.5	737.270	732.313	729.008	732.775	734.428	743.284	747.514	743.482	757.229	754.586
30.0	717.376	716.451	717.640	725.902	723.192	728.678	733.238	731.982	740.772	741.631
32.5	690.145	707.527	709.048	721.011	717.904	714.203	717.706	718.367	725.703	725.967
35.0	681.355	692.062	694.507	706.999	703.232	696.358	699.861	702.306	703.033	709.643
37.5	676.530	674.349	676.067	691.864	687.105	679.173	682.082	682.941	683.139	685.188
40.0	661.725	659.940	660.536	676.134	667.277	663.444	666.021	661.395	662.320	660.007
42.5	637.072	645.004	641.831	651.547	641.765	643.946	648.242	637.799	639.187	640.179
45.0	608.586	620.615	617.905	627.753	616.451	620.747	621.144	612.883	617.509	615.592
47.5	581.620	591.269	584.660	604.025	595.764	590.543	595.831	565.494	555.249	569.525
50.0	533.439	555.646	548.045	577.853	567.873	563.907	521.674	452.871	452.408	460.471
52.5	447.120	485.190	527.886	546.525	537.999	492.064	432.514	422.270	422.930	430.796
55.0	417.907	428.151	475.607	512.288	491.006	404.887	400.723	370.122	395.436	398.278
57.5	381.291	395.899	411.562	473.889	381.490	380.036	367.214	357.036	368.073	362.389
60.0	346.263	361.266	378.515	376.930	347.055	349.501	334.101	331.193	333.969	336.745
62.5	311.563	323.460	343.288	279.971	296.164	320.023	297.353	293.718	293.718	299.865
65.0	254.723	279.376	300.922	240.579	233.375	283.143	266.819	260.209	257.433	258.755
67.5	189.489	199.403	223.395	211.696	207.400	232.252	231.260	214.737	178.452	182.285
70.0	141.175	155.716	141.506	169.991	164.969	159.880	120.884	112.424	109.516	109.120
72.5	81.493	112.358	96.034	118.108	121.413	79.510	84.929	80.964	72.835	78.717
75.0	50.561	50.363	49.702	79.180	48.644	52.346	57.435	46.728	49.768	47.455
77.5	24.190	25.776	31.857	24.785	23.661	27.759	17.911	10.046	13.219	16.853

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CANDELA TABULATION - (Cont.)

80.0	11.698	11.501	11.038	13.086	9.319	8.526	7.468	5.221	4.560	5.817
82.5	3.701	4.693	4.626	4.230	3.900	3.371	3.305	3.172	3.172	3.834
85.0	2.313	2.313	2.313	2.313	2.379	2.247	2.181	2.049	1.983	2.379
87.5	1.388	1.322	1.388	1.388	1.388	1.388	1.454	1.322	1.190	1.454
90.0	0.529	0.529	0.661	0.661	0.727	0.859	0.793	0.793	0.661	0.793
92.5	0.529	0.463	0.595	0.529	0.529	0.463	0.529	0.463	0.529	0.529
95.0	0.595	0.595	0.595	0.595	0.529	0.595	0.529	0.529	0.595	0.529
97.5	0.661	0.661	0.661	0.727	0.727	0.595	0.661	0.661	0.595	0.595
100.0	0.727	0.727	0.727	0.727	0.727	0.727	0.661	0.661	0.661	0.661
102.5	0.793	0.793	0.793	0.793	0.793	0.793	0.727	0.727	0.727	0.727
105.0	0.859	0.859	0.859	0.859	0.859	0.793	0.793	0.793	0.793	0.793
107.5	0.859	0.925	0.859	0.925	0.859	0.859	0.859	0.859	0.859	0.859
110.0	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.859	0.859
112.5	0.991	0.925	0.925	0.925	0.991	0.925	0.925	0.859	0.925	0.925
115.0	0.991	0.991	0.991	0.991	0.991	0.991	0.925	0.925	0.925	0.925
117.5	0.991	0.991	1.058	0.991	0.991	0.925	0.925	0.991	0.925	0.925
120.0	0.991	1.058	0.991	1.058	0.991	0.991	0.991	0.991	0.991	0.991
122.5	0.991	1.058	1.124	1.058	1.058	0.991	1.058	0.991	1.058	1.058
125.0	1.124	1.124	1.190	1.124	1.124	1.058	1.124	1.058	1.124	1.124
127.5	1.190	1.255	1.255	1.190	1.255	1.255	1.190	1.255	1.255	1.190
130.0	1.388	1.388	1.388	1.322	1.322	1.388	1.388	1.322	1.388	1.388
132.5	1.587	1.587	1.652	1.652	1.652	1.587	1.520	1.587	1.587	1.587
135.0	1.851	1.917	1.917	1.917	1.917	1.917	1.851	1.851	1.851	1.917
137.5	2.181	2.181	2.181	2.181	2.181	2.181	2.115	2.181	2.181	2.115
140.0	2.578	2.512	2.578	2.512	2.512	2.512	2.512	2.446	2.578	2.446
142.5	2.908	2.908	2.908	2.908	2.908	2.908	2.908	2.908	2.908	2.908
145.0	3.305	3.371	3.305	3.371	3.371	3.305	3.305	3.305	3.371	3.305
147.5	3.834	3.767	3.900	3.834	3.834	3.767	3.834	3.834	3.900	3.767
150.0	4.429	4.429	4.429	4.429	4.362	4.429	4.429	4.429	4.494	4.362
152.5	5.552	5.684	5.485	5.485	5.618	5.485	5.618	5.552	5.485	5.552
155.0	9.121	8.790	9.187	8.922	9.253	8.989	8.790	9.121	9.451	9.253
157.5	13.086	12.955	13.152	13.020	13.152	13.086	13.219	13.152	13.086	13.219
160.0	15.598	15.466	15.466	15.598	15.466	15.664	15.466	15.598	15.598	15.664
162.5	17.382	17.250	17.449	17.382	17.316	17.185	17.185	17.052	16.656	16.920
165.0	18.241	18.176	18.176	18.176	18.044	18.044	17.581	17.185	16.457	16.853
167.5	18.506	18.506	18.506	18.440	18.241	17.911	17.382	16.986	16.656	16.920
170.0	18.440	18.241	18.241	17.911	17.581	17.052	16.656	16.391	16.193	16.325
172.5	17.449	16.986	16.853	16.325	15.994	15.598	15.399	15.135	15.268	15.334
175.0	15.399	15.135	15.069	14.805	14.805	14.673	14.606	14.606	14.606	14.606
177.5	14.540	14.474	14.474	14.409	14.276	14.343	14.276	14.210	14.144	13.946
180.0	14.580	14.580	14.580	14.580	14.580	14.580	14.580	14.580	14.580	14.580

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	809.294	809.294	809.294	809.294	809.294	809.294	809.294	809.294	809.294	809.294
2.5	805.940	808.782	807.659	812.153	803.164	808.122	802.173	817.308	817.970	806.337
5.0	805.610	812.153	805.214	809.708	797.811	804.751	800.587	816.449	817.771	805.742
7.5	802.504	808.585	803.297	806.734	794.242	800.190	795.630	812.682	816.582	806.006
10.0	799.860	808.320	798.802	801.644	787.302	794.242	790.408	808.585	812.153	804.420
12.5	796.489	805.874	794.441	794.837	782.610	786.046	783.535	802.834	804.685	799.530
15.0	792.854	802.305	784.394	786.707	775.141	778.049	775.141	795.829	797.811	794.043
17.5	782.675	795.431	776.595	776.132	766.747	771.902	767.342	787.765	790.607	786.707
20.0	773.026	785.915	768.531	762.716	761.922	761.129	759.345	780.428	782.147	780.362
22.5	762.054	775.207	759.741	752.074	746.523	752.339	750.158	770.250	769.854	768.994
25.0	752.008	762.583	752.074	741.368	733.370	730.858	737.732	757.825	752.008	759.279

IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QF1X22U4KC.IES

CANDELA TABULATION - (Cont.)

27.5	743.416	747.316	741.963	731.057	726.496	716.053	722.399	742.359	733.701	745.664
30.0	731.916	730.462	729.074	714.864	718.499	706.602	708.915	718.301	709.180	727.554
32.5	717.839	715.922	712.088	697.945	703.364	697.349	695.300	690.145	689.485	709.246
35.0	703.166	697.085	695.499	685.717	688.294	685.981	680.099	672.366	668.467	692.062
37.5	686.114	676.926	678.645	673.093	673.754	672.498	664.963	655.711	650.819	673.424
40.0	665.294	661.857	659.148	655.975	654.521	654.190	644.409	635.684	625.176	646.523
42.5	639.584	641.963	639.055	637.866	636.015	631.983	621.937	599.003	599.994	612.948
45.0	612.883	619.888	615.262	614.204	607.991	609.313	601.845	571.310	581.091	577.853
47.5	584.197	594.839	590.080	589.684	580.233	575.408	570.847	538.791	558.884	538.725
50.0	484.331	563.180	564.568	561.859	554.786	544.872	529.869	468.006	500.392	503.035
52.5	419.625	475.144	534.033	527.821	522.996	481.621	435.951	425.508	424.781	428.879
55.0	392.197	399.600	472.698	489.487	472.368	408.655	396.824	394.312	394.576	397.815
57.5	364.305	371.775	377.459	439.256	391.074	372.567	357.895	357.432	353.731	361.001
60.0	333.242	340.446	335.820	314.273	351.881	337.934	323.328	317.974	316.785	321.741
62.5	300.988	304.822	301.319	247.122	313.084	298.477	283.473	279.839	273.824	280.103
65.0	260.870	270.321	242.496	218.901	261.795	259.482	222.800	193.059	188.696	212.688
67.5	215.332	218.637	189.357	180.303	171.445	176.204	165.761	149.767	145.141	146.330
70.0	113.681	132.319	148.644	140.514	115.465	131.063	117.646	105.419	101.123	104.560
72.5	85.657	72.636	83.278	86.516	80.369	82.154	64.045	54.857	53.602	56.708
75.0	53.469	50.561	44.745	49.107	51.685	33.179	38.863	31.262	32.518	27.693
77.5	18.308	20.886	22.736	21.216	22.537	17.647	17.118	14.739	14.871	13.747
80.0	7.667	8.725	8.659	10.113	9.055	8.394	8.659	5.883	5.883	5.420
82.5	3.767	3.635	3.238	3.834	2.974	3.172	3.305	2.776	2.776	2.446
85.0	2.512	2.313	2.247	2.247	2.181	2.049	1.983	1.587	1.520	1.520
87.5	1.587	1.454	1.388	1.322	1.255	1.190	1.190	0.793	0.661	0.727
90.0	0.727	0.793	0.793	0.661	0.661	0.661	0.661	0.330	0.396	0.396
92.5	0.529	0.595	0.595	0.661	0.661	0.661	0.661	0.396	0.463	0.463
95.0	0.595	0.661	0.727	0.727	0.661	0.727	0.727	0.463	0.529	0.529
97.5	0.661	0.727	0.727	0.727	0.793	0.793	0.793	0.529	0.595	0.595
100.0	0.727	0.793	0.793	0.793	0.859	0.859	0.859	0.661	0.595	0.661
102.5	0.793	0.859	0.859	0.925	0.925	0.925	0.925	0.661	0.727	0.793
105.0	0.925	0.925	0.859	0.925	0.925	0.991	0.991	0.727	0.727	0.793
107.5	0.859	0.859	0.925	0.991	1.058	0.991	0.991	0.793	0.793	0.859
110.0	0.925	0.925	0.991	0.991	1.058	1.058	1.124	0.859	0.859	0.925
112.5	0.991	0.991	1.058	1.058	1.124	1.124	1.124	0.859	0.859	0.925
115.0	0.991	1.058	1.058	1.124	1.058	1.124	1.124	0.925	0.925	0.991
117.5	0.925	1.058	1.058	1.124	1.124	1.124	1.124	0.925	0.991	0.925
120.0	0.991	1.058	1.058	1.124	1.124	1.124	1.124	0.925	0.991	0.991
122.5	1.058	1.058	1.124	1.190	1.124	1.124	1.190	1.058	0.991	1.058
125.0	1.124	1.190	1.190	1.255	1.190	1.255	1.190	1.124	1.190	1.190
127.5	1.255	1.322	1.255	1.322	1.322	1.322	1.388	1.255	1.255	1.322
130.0	1.388	1.388	1.454	1.454	1.454	1.454	1.454	1.388	1.520	1.454
132.5	1.587	1.587	1.652	1.587	1.718	1.652	1.718	1.718	1.718	1.784
135.0	1.917	1.917	1.983	1.917	1.983	1.917	1.983	1.917	1.983	1.917
137.5	2.181	2.181	2.247	2.247	2.313	2.181	2.247	2.115	2.115	2.181
140.0	2.512	2.512	2.578	2.578	2.512	2.512	2.578	2.446	2.512	2.446
142.5	2.908	2.908	2.908	2.908	2.908	2.974	2.974	2.776	2.842	2.776
145.0	3.371	3.305	3.305	3.371	3.371	3.305	3.371	3.238	3.305	3.238
147.5	3.767	3.767	3.834	3.900	3.834	3.834	3.900	3.767	3.834	3.834
150.0	4.362	4.429	4.362	4.429	4.362	4.429	4.429	4.626	4.560	4.626
152.5	5.684	5.618	5.552	5.485	5.552	5.750	5.618	5.684	5.750	5.817
155.0	8.922	9.253	9.055	9.385	9.121	8.989	9.253	7.468	7.402	7.535
157.5	13.020	13.219	13.086	13.285	13.152	13.020	13.219	9.451	9.385	9.518
160.0	15.532	15.664	15.598	15.466	15.532	15.532	15.664	11.698	11.567	11.698
162.5	17.250	17.316	17.316	17.250	17.316	17.316	17.316	13.681	13.615	13.681
165.0	17.647	18.044	18.044	18.044	18.044	18.110	18.110	14.739	14.871	14.739

IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QF1X22U4KC.IES

CANDELA TABULATION - (Cont.)

167.5	17.250	17.977	18.308	18.308	18.440	18.506	18.440	15.532	15.532	15.532
170.0	16.391	16.986	17.647	17.911	18.241	18.308	18.440	15.928	15.928	15.928
172.5	15.268	15.334	15.664	16.325	16.523	17.052	17.316	15.994	15.994	16.061
175.0	14.409	14.409	14.343	14.540	15.003	15.135	15.399	15.730	15.797	15.797
177.5	13.880	13.880	13.880	13.814	14.011	14.144	14.343	15.399	15.399	15.334
180.0	14.580	14.580	14.580	14.580	14.580	14.580	14.580	14.580	14.580	14.580

Vert. Horizontal Angles
Angles

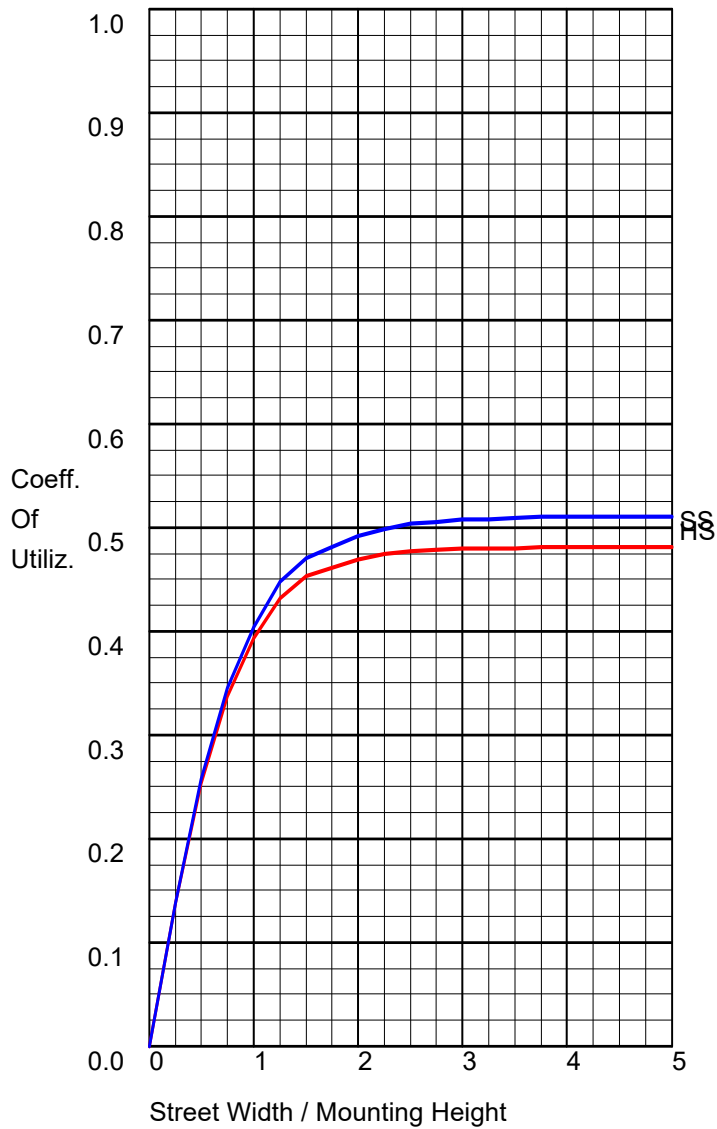
	300	310	320	330	340	350	360
0.0	809.294	809.294	809.294	809.294	809.294	809.294	809.294
2.5	809.576	799.727	810.765	812.881	807.461	805.214	806.535
5.0	807.262	800.125	808.782	811.624	803.760	803.892	800.851
7.5	806.337	800.058	810.039	806.535	800.587	801.115	798.075
10.0	803.363	798.472	805.874	799.331	794.705	797.348	791.070
12.5	798.671	794.968	799.265	791.995	789.747	792.325	781.882
15.0	791.995	789.483	790.673	785.055	781.287	787.566	770.514
17.5	783.932	781.816	782.477	779.107	770.845	777.520	759.543
20.0	772.299	773.356	774.877	770.647	759.675	769.259	748.175
22.5	759.080	765.359	765.227	758.287	748.506	759.345	734.824
25.0	746.060	754.057	753.198	743.945	735.684	744.606	723.060
27.5	731.784	739.186	740.509	727.620	722.795	728.744	710.304
30.0	715.260	722.399	724.382	711.097	708.981	711.427	697.812
32.5	696.953	705.347	706.404	697.283	692.987	694.177	683.272
35.0	676.266	685.651	685.254	676.398	673.159	674.481	660.733
37.5	654.587	662.716	664.832	651.216	654.521	655.777	627.819
40.0	637.204	636.940	639.980	634.362	635.288	624.581	609.512
42.5	611.560	610.833	613.279	612.420	613.609	605.811	596.887
45.0	586.973	585.652	590.146	585.917	583.471	581.224	568.798
47.5	559.281	564.106	565.295	551.019	548.640	545.335	515.659
50.0	523.326	536.214	536.875	517.642	465.098	426.632	406.341
52.5	486.645	503.035	503.035	439.322	379.507	389.686	365.496
55.0	405.746	462.917	465.230	370.584	359.150	358.621	326.963
57.5	368.866	373.294	357.961	336.480	321.610	318.437	301.716
60.0	327.161	318.305	306.276	297.552	286.977	277.724	256.310
62.5	283.672	224.188	225.444	257.367	246.858	234.763	237.671
65.0	225.510	184.136	188.960	216.125	197.355	183.342	171.908
67.5	134.500	138.267	147.454	141.770	108.723	104.692	103.106
70.0	89.424	85.128	101.915	75.148	77.791	71.381	72.505
72.5	55.519	61.268	41.440	48.843	46.265	35.822	30.601
75.0	28.221	22.934	23.397	20.687	18.110	17.052	15.797
77.5	13.152	11.236	9.319	8.196	4.429	4.759	4.626
80.0	5.221	4.230	3.106	3.106	3.172	3.305	3.172
82.5	2.247	2.115	2.115	2.049	2.115	2.115	2.049
85.0	1.388	1.322	1.190	1.255	1.322	1.255	1.124
87.5	0.529	0.463	0.463	0.396	0.463	0.330	0.330
90.0	0.463	0.396	0.463	0.463	0.396	0.463	0.396
92.5	0.463	0.529	0.529	0.463	0.463	0.463	0.463
95.0	0.529	0.595	0.529	0.529	0.529	0.529	0.529
97.5	0.595	0.595	0.661	0.661	0.595	0.595	0.529
100.0	0.661	0.727	0.661	0.661	0.661	0.595	0.661
102.5	0.727	0.727	0.793	0.727	0.727	0.727	0.727
105.0	0.793	0.793	0.793	0.859	0.793	0.793	0.727
107.5	0.859	0.859	0.859	0.859	0.859	0.859	0.859
110.0	0.925	0.925	0.925	0.859	0.859	0.859	0.859
112.5	0.991	0.991	0.991	0.991	0.925	0.925	0.925

IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QF1X22U4KC.IES

CANDELA TABULATION - (Cont.)

115.0	0.991	0.991	0.991	0.991	0.991	0.925	0.991
117.5	1.058	1.124	1.058	1.058	0.991	0.991	0.991
120.0	1.058	1.058	1.124	1.124	1.058	0.991	0.991
122.5	1.124	1.124	1.190	1.190	1.124	1.058	1.058
125.0	1.255	1.255	1.322	1.190	1.255	1.190	1.190
127.5	1.388	1.388	1.388	1.388	1.388	1.322	1.322
130.0	1.587	1.520	1.520	1.520	1.520	1.520	1.520
132.5	1.784	1.784	1.784	1.784	1.784	1.718	1.784
135.0	1.983	1.983	1.983	1.983	1.983	1.983	1.983
137.5	2.247	2.247	2.181	2.247	2.181	2.247	2.181
140.0	2.512	2.512	2.512	2.512	2.446	2.512	2.512
142.5	2.842	2.842	2.842	2.842	2.842	2.842	2.908
145.0	3.305	3.305	3.371	3.238	3.305	3.305	3.371
147.5	3.900	3.834	3.900	3.834	3.900	3.900	3.966
150.0	4.626	4.626	4.626	4.626	4.759	4.693	4.759
152.5	5.684	5.684	5.684	5.750	5.750	5.817	5.750
155.0	7.402	7.468	7.336	7.468	7.402	7.468	7.402
157.5	9.385	9.385	9.451	9.451	9.385	9.451	9.319
160.0	11.632	11.632	11.698	11.501	11.831	11.698	11.632
162.5	13.549	13.549	13.681	13.615	13.681	13.681	13.615
165.0	14.871	14.871	14.937	14.937	14.937	14.937	14.937
167.5	15.532	15.598	15.664	15.664	15.730	15.730	15.730
170.0	15.928	15.994	16.127	16.061	16.127	16.127	16.127
172.5	16.127	16.193	16.193	16.259	16.259	16.325	16.259
175.0	15.928	15.928	15.994	16.061	16.061	16.127	16.061
177.5	15.399	15.466	15.466	15.532	15.532	15.598	15.466
180.0	14.580	14.580	14.580	14.580	14.580	14.580	14.580

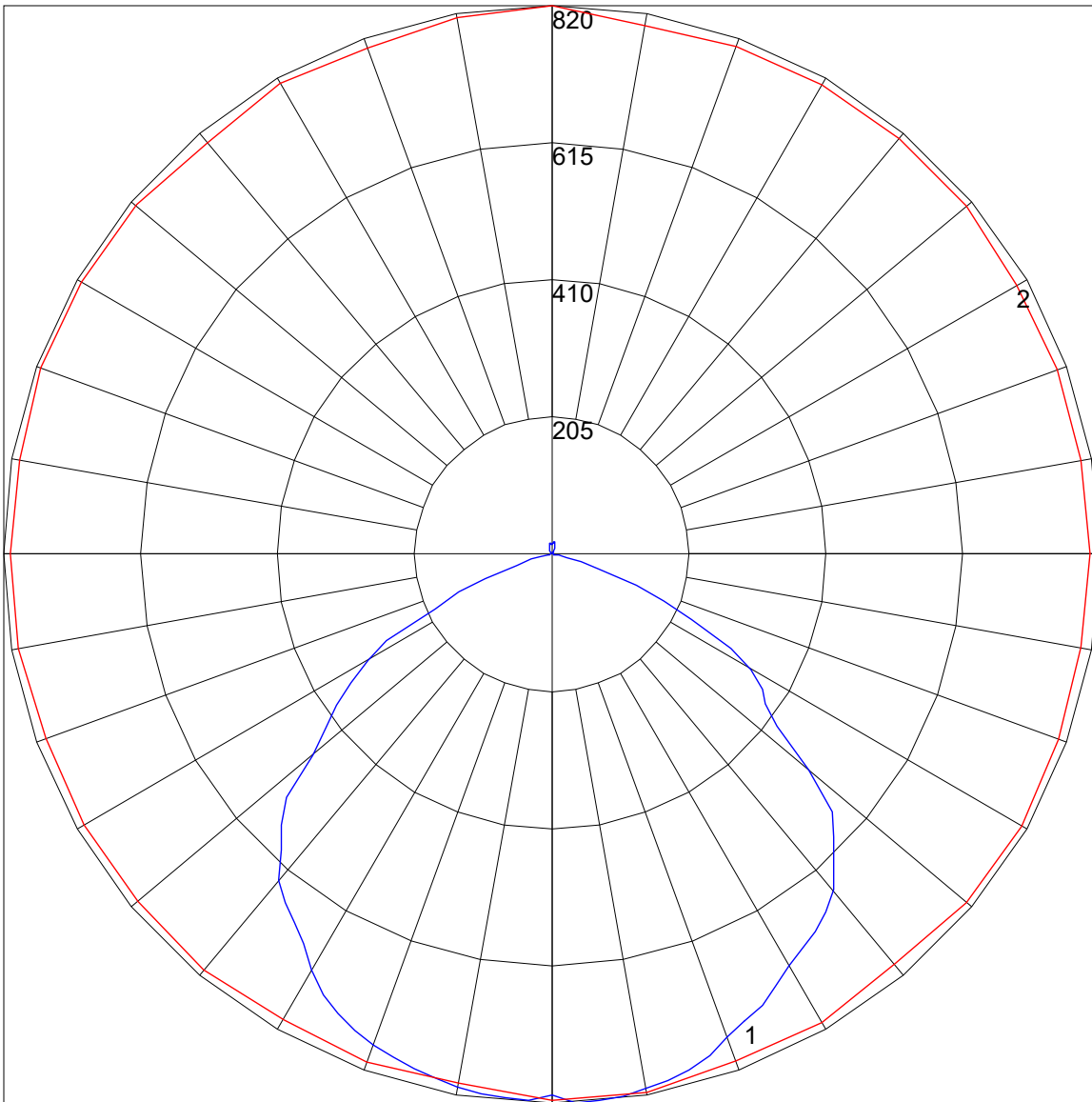
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

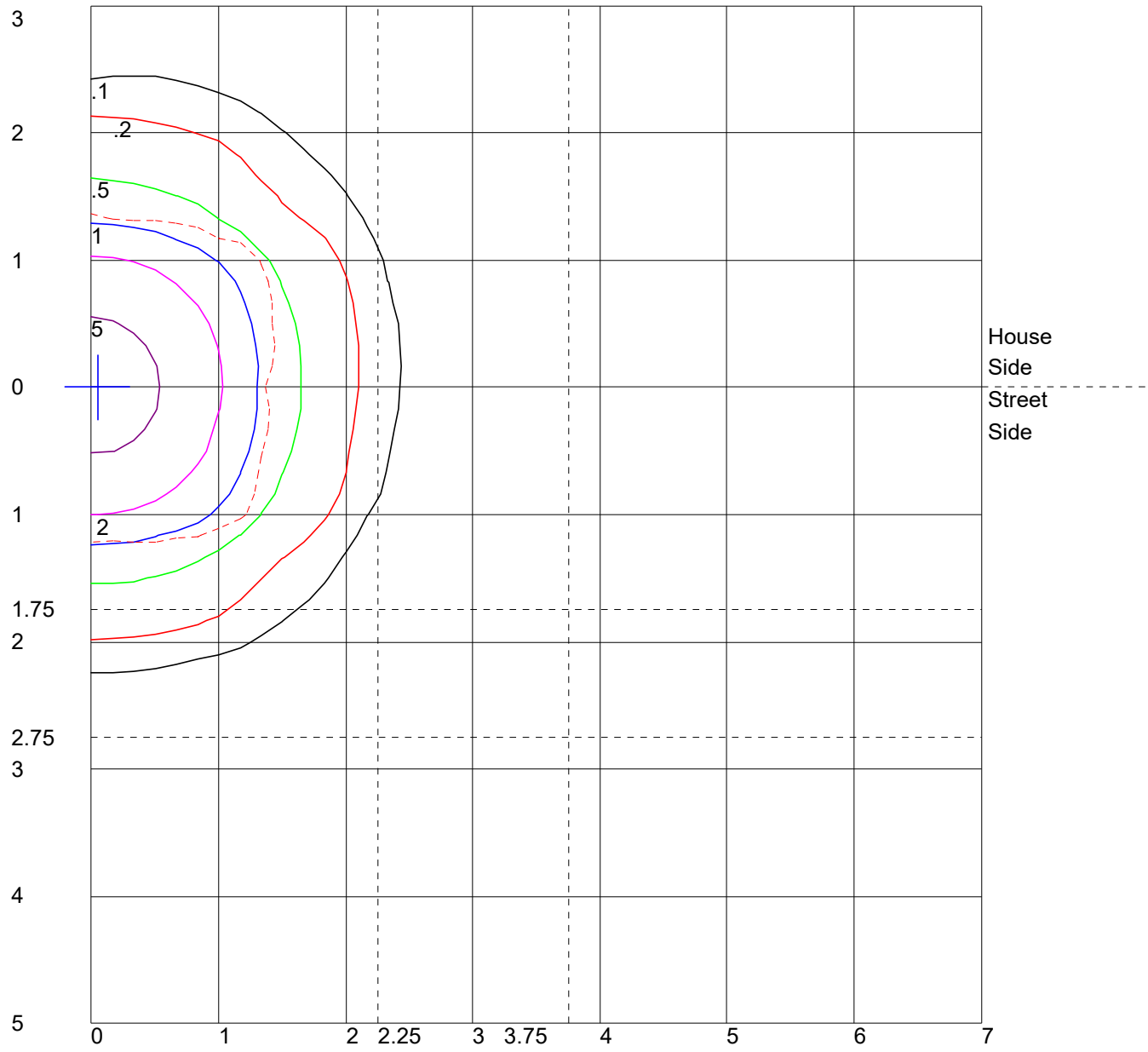
	Lumens	Percent Of Luminaire
Downward Street Side	1055.9	48.1
Downward House Side	1121.9	51.1
Downward Total	2177.8	99.2
Upward Street Side	8.1	0.4
Upward House Side	8.9	0.4
Upward Total	17.0	0.8
Total Flux	2194.8	100.0

POLAR GRAPH



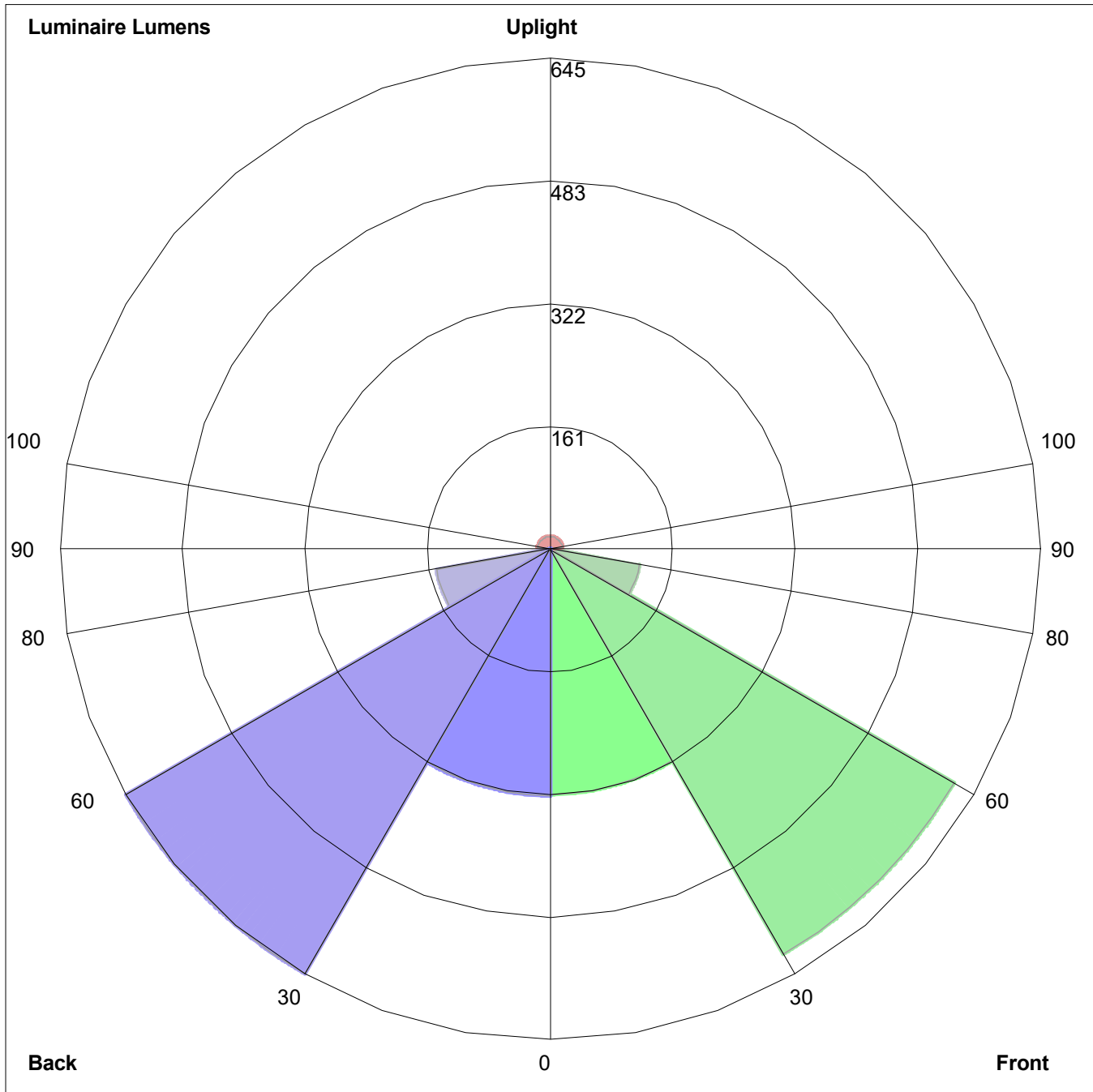
Maximum Candela = 820.415 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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=321.8, Medium=614.1, High=119.1, Very High=1.0
 Back: Low=323.7, Medium=644.6, High=152.0, Very High=1.6
 Uplight: Low=0.6, High=16.4

BUG Rating : B1-U2-G0