



IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QC1X22U5KC.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] Q2016041903
[TESTLAB] QSSI
[ISSUEDATE] 04/19/2016
[MANUFAC] DURAGUARD
[LUMCAT] KH15QC1X22U5KC
[LUMINAIRE] KH15Q WITH ONE 22W QSSI LED ARRAY, TYPE III OPTICS
[LAMPCAT] SAMSUNG 351B LEDs
[LAMP] 14 SAMSUNG 351B LEDs

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2077
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	24.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	853.144
Maximum Candela Angle	40H 55V
Maximum Candela (<90 Degrees Vertical)	853.144
Maximum Candela Angle (<90 Degrees Vertical)	40H 55V
Maximum Candela At 90 Degrees Vertical	1.734 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	81.84 (3.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	312.1	N.A.	15.0
FM - Front-Medium (30-60)	866.0	N.A.	41.7
FH - Front-High (60-80)	267.0	N.A.	12.9
FVH - Front-Very High (80-90)	2.0	N.A.	0.1
BL - Back-Low (0-30)	129.1	N.A.	6.2
BM - Back-Medium (30-60)	328.8	N.A.	15.8
BH - Back-High (60-80)	154.5	N.A.	7.4
BVH - Back-Very High (80-90)	3.3	N.A.	0.2
UL - Uplight-Low (90-100)	1.1	N.A.	0.1
UH - Uplight-High (100-180)	13.6	N.A.	0.7
Total	2077.5	N.A.	100.0
BUG Rating	B1-U2-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0.0	504.635	504.635	504.635	504.635	504.635	504.635	504.635	504.635	504.635	504.635
2.5	590.577	591.733	583.715	581.837	568.907	560.167	543.481	541.603	527.156	518.055
5.0	648.363	649.664	639.840	637.384	621.276	607.480	585.160	578.875	557.133	531.924
7.5	691.992	695.387	682.096	680.435	662.521	648.219	621.709	610.802	578.803	547.671
10.0	730.854	735.187	719.152	718.863	698.132	683.252	656.887	642.657	606.035	566.379
12.5	762.636	768.270	750.718	755.413	730.276	717.490	691.053	673.645	633.267	586.171
15.0	789.073	796.513	777.010	785.462	758.735	749.562	723.125	698.638	660.643	605.024
17.5	807.926	811.393	798.102	805.831	783.439	771.304	750.790	730.854	691.559	624.238
20.0	820.133	823.167	812.332	823.528	802.075	792.902	774.988	750.862	711.206	640.201
22.5	828.151	828.874	819.917	832.630	811.971	809.371	796.441	768.704	726.375	653.275
25.0	829.163	825.912	819.411	835.519	817.822	820.278	812.332	781.633	746.961	670.900
27.5	822.084	820.206	811.321	831.691	818.761	825.479	822.662	794.780	768.631	684.335
30.0	820.061	817.172	804.531	818.544	813.344	825.045	826.418	802.003	781.922	698.132
32.5	832.630	818.761	807.132	799.475	801.570	820.422	823.095	808.071	784.667	708.028
35.0	824.179	818.617	807.493	786.184	788.351	812.693	816.739	812.693	795.574	716.551
37.5	802.725	814.788	807.565	782.356	782.572	802.653	811.899	816.450	803.303	735.332
40.0	774.916	809.299	806.770	782.933	781.128	792.829	807.276	812.549	806.120	754.040
42.5	769.354	805.037	804.965	786.473	781.922	793.624	801.425	798.969	796.658	751.584
45.0	777.516	800.919	806.481	798.247	791.457	795.141	795.358	776.144	778.166	750.429
47.5	790.518	806.698	808.937	809.949	803.303	796.080	790.807	754.907	766.826	749.417
50.0	750.356	770.871	799.403	822.806	817.605	800.486	786.762	747.034	754.112	742.989
52.5	693.148	712.723	733.887	814.138	835.519	808.287	789.073	722.691	684.119	661.654
55.0	687.441	699.721	727.170	762.347	853.144	825.334	766.753	651.831	651.469	628.138
57.5	624.093	650.097	691.198	738.293	807.204	837.686	688.380	626.043	640.418	633.267
60.0	546.659	585.521	627.488	693.870	732.659	750.862	671.911	601.845	619.109	648.074
62.5	380.668	429.425	492.557	621.637	649.808	604.446	642.079	570.785	588.554	634.784
65.0	178.704	218.722	307.351	480.711	484.611	491.690	566.668	523.039	526.362	592.527
67.5	52.658	63.493	96.792	254.838	359.215	403.132	378.140	391.720	424.730	502.814
70.0	29.977	34.672	40.089	74.689	199.580	292.760	261.195	321.581	362.826	458.680
72.5	16.975	19.358	22.248	33.950	72.522	179.643	189.178	201.169	251.082	322.304
75.0	9.824	9.968	11.630	14.447	30.410	67.249	96.142	98.743	166.931	238.586
77.5	4.984	5.201	5.490	5.706	10.474	26.004	39.078	44.568	79.167	144.538
80.0	3.178	3.323	3.467	3.539	3.901	6.284	11.052	13.291	26.798	73.967
82.5	1.878	1.878	2.023	2.095	2.528	2.889	3.539	4.190	5.273	6.573
85.0	0.939	1.011	1.011	1.156	1.300	1.661	2.023	2.673	3.106	3.901
87.5	0.433	0.433	0.433	0.506	0.506	0.650	0.795	1.156	1.372	2.023
90.0	0.361	0.433	0.433	0.433	0.506	0.506	0.650	0.795	0.939	1.300
92.5	0.361	0.361	0.433	0.433	0.506	0.578	0.722	0.867	1.083	1.372
95.0	0.361	0.433	0.433	0.433	0.506	0.578	0.722	0.867	1.083	1.517
97.5	0.361	0.361	0.433	0.433	0.506	0.650	0.795	0.867	1.083	1.517
100.0	0.433	0.433	0.433	0.433	0.506	0.722	0.795	1.011	1.228	1.589
102.5	0.433	0.433	0.433	0.506	0.578	0.650	0.795	1.083	1.228	1.661
105.0	0.433	0.433	0.433	0.506	0.578	0.722	0.939	1.083	1.300	1.661
107.5	0.433	0.433	0.433	0.506	0.578	0.722	0.867	1.083	1.300	1.661
110.0	0.433	0.433	0.433	0.506	0.506	0.722	0.939	1.156	1.300	1.661
112.5	0.433	0.433	0.506	0.506	0.578	0.722	0.939	1.156	1.300	1.661
115.0	0.433	0.506	0.506	0.506	0.506	0.722	0.939	1.156	1.300	1.661
117.5	0.506	0.433	0.506	0.506	0.578	0.722	0.939	1.156	1.372	1.661
120.0	0.506	0.433	0.506	0.506	0.578	0.722	0.939	1.156	1.300	1.661
122.5	0.506	0.506	0.506	0.506	0.578	0.722	0.939	1.156	1.372	1.661
125.0	0.506	0.506	0.578	0.506	0.578	0.722	0.939	1.156	1.372	1.734
127.5	0.578	0.578	0.578	0.650	0.650	0.795	1.011	1.228	1.445	1.661
130.0	0.578	0.578	0.650	0.650	0.722	0.795	1.011	1.300	1.517	1.806

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CANDELA TABULATION - (Cont.)

132.5	0.650	0.650	0.650	0.650	0.722	0.867	1.156	1.372	1.661	1.878
135.0	0.722	0.722	0.722	0.722	0.867	1.011	1.156	1.445	1.734	1.950
137.5	0.722	0.795	0.722	0.795	0.867	1.083	1.300	1.517	1.806	2.095
140.0	0.867	0.867	0.939	0.939	1.083	1.300	1.445	1.734	1.950	2.167
142.5	1.011	1.083	1.083	1.228	1.300	1.445	1.661	1.878	2.095	2.384
145.0	1.300	1.300	1.372	1.445	1.589	1.806	1.878	2.167	2.384	2.528
147.5	1.734	1.806	1.806	1.878	1.950	2.167	2.311	2.528	2.745	2.889
150.0	2.384	2.384	2.456	2.456	2.600	2.745	2.889	3.106	3.323	3.250
152.5	3.323	3.250	3.395	3.395	3.539	3.612	3.828	3.901	4.045	3.756
155.0	4.840	4.912	4.912	5.056	4.984	4.984	5.201	5.201	5.345	5.923
157.5	6.645	6.573	6.718	6.645	6.790	6.718	6.862	6.862	6.862	8.740
160.0	8.812	8.668	8.812	8.740	8.885	8.740	8.812	8.668	8.596	10.474
162.5	10.690	10.763	10.690	10.546	10.690	10.546	10.402	10.257	10.113	11.702
165.0	11.630	11.630	11.630	11.702	11.702	11.630	11.485	11.268	11.052	12.207
167.5	12.135	12.207	12.207	12.352	12.207	12.135	11.991	11.702	11.413	12.424
170.0	12.424	12.496	12.496	12.496	12.424	12.352	12.135	11.991	11.702	12.352
172.5	12.424	12.424	12.496	12.424	12.424	12.352	12.207	11.918	11.702	11.774
175.0	12.135	12.280	12.280	12.135	12.135	12.063	11.991	11.774	11.630	10.690
177.5	11.413	11.485	11.630	11.702	11.557	11.557	11.485	11.413	11.196	10.113
180.0	10.279	10.279	10.279	10.279	10.279	10.279	10.279	10.279	10.279	10.279

Vert. Angles **Horizontal Angles**

	100	110	120	130	140	150	160	170	180	190
0.0	504.635	504.635	504.635	504.635	504.635	504.635	504.635	504.635	504.635	504.635
2.5	500.791	480.494	461.424	455.357	433.254	427.186	410.211	411.584	412.523	406.527
5.0	501.297	465.686	428.558	401.760	365.932	346.791	324.615	320.426	312.191	314.141
7.5	505.270	453.623	399.449	351.125	316.669	295.216	281.275	279.614	274.558	275.713
10.0	512.999	444.377	370.194	313.275	284.165	271.379	261.772	260.617	257.005	257.294
12.5	520.294	436.793	347.874	288.571	267.984	256.644	249.204	246.531	243.209	242.703
15.0	528.312	429.136	331.838	276.291	257.944	245.014	237.863	234.685	231.290	231.362
17.5	537.125	425.958	322.231	268.201	249.782	234.902	228.617	224.283	220.672	222.117
20.0	543.481	423.285	317.464	263.073	243.497	227.245	219.588	215.327	212.004	213.521
22.5	551.788	425.236	313.130	259.678	237.358	220.744	212.148	207.814	206.225	205.647
25.0	560.817	425.452	310.169	254.043	232.735	215.327	206.514	201.024	197.846	198.135
27.5	567.390	429.931	308.941	250.215	229.340	210.343	201.097	195.751	193.296	193.729
30.0	575.553	437.660	314.069	253.177	226.089	206.225	196.763	191.562	189.323	189.901
32.5	582.920	452.179	323.387	253.321	224.283	203.914	193.946	188.673	185.133	186.722
35.0	592.311	460.413	319.631	251.371	221.972	202.036	191.779	186.289	184.339	181.377
37.5	612.753	460.269	322.809	253.032	220.311	199.869	189.828	184.555	182.316	180.510
40.0	628.210	475.149	327.504	250.793	219.733	198.496	187.589	182.316	180.655	180.221
42.5	638.612	482.516	329.021	249.204	218.866	198.063	185.639	179.932	178.416	177.910
45.0	647.063	491.546	332.922	254.910	216.771	197.485	183.905	176.537	173.648	174.804
47.5	653.347	499.202	332.489	258.233	220.022	196.329	180.510	154.723	146.778	149.089
50.0	658.043	502.742	335.017	260.183	222.767	194.596	156.023	150.028	143.021	144.899
52.5	607.696	488.295	336.895	261.195	221.322	164.547	151.906	141.866	140.638	141.866
55.0	575.408	437.082	331.261	259.967	197.413	161.730	146.850	139.121	139.265	133.848
57.5	578.153	443.005	293.699	253.393	178.632	158.046	147.500	140.710	135.726	134.281
60.0	581.981	441.416	289.149	192.357	167.653	152.412	138.760	136.954	131.103	129.947
62.5	576.419	432.531	281.420	165.197	150.750	145.333	133.053	128.358	124.385	122.507
65.0	567.462	419.674	259.461	151.400	124.313	131.464	123.518	118.173	114.634	113.623
67.5	478.544	350.691	191.490	135.004	113.767	108.855	107.916	87.980	75.195	75.989
70.0	456.296	330.177	147.572	111.600	92.892	68.910	67.610	65.515	61.976	62.843
72.5	357.698	284.309	112.322	82.779	57.425	49.335	52.658	51.502	45.001	48.902
75.0	277.014	151.400	60.892	55.475	30.193	33.588	31.855	34.166	26.871	33.877
77.5	170.109	88.485	36.478	23.042	19.720	14.808	15.241	15.458	14.374	15.458

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CANDELA TABULATION - (Cont.)

80.0	67.466	32.722	14.591	11.774	8.090	8.235	6.645	6.573	5.779	6.068
82.5	7.368	6.501	5.634	5.056	4.478	4.478	4.406	4.623	3.756	3.539
85.0	4.334	3.901	3.612	3.467	3.395	3.250	3.106	3.106	2.528	2.311
87.5	2.456	2.311	2.528	2.384	2.384	2.311	2.384	2.239	2.023	1.806
90.0	1.372	1.372	1.372	1.300	1.300	1.228	1.228	1.156	1.156	1.156
92.5	1.517	1.517	1.517	1.445	1.300	1.228	1.083	0.939	0.939	0.939
95.0	1.661	1.661	1.589	1.517	1.445	1.300	1.156	1.011	1.011	1.011
97.5	1.661	1.734	1.734	1.661	1.517	1.372	1.300	1.156	1.083	1.156
100.0	1.734	1.878	1.878	1.734	1.661	1.517	1.445	1.300	1.228	1.228
102.5	1.806	1.878	1.950	1.878	1.734	1.661	1.517	1.445	1.372	1.372
105.0	1.806	1.950	1.950	1.878	1.878	1.734	1.589	1.517	1.445	1.445
107.5	1.806	2.023	2.023	1.950	1.806	1.806	1.734	1.589	1.517	1.589
110.0	1.878	1.950	2.023	1.950	1.878	1.878	1.734	1.661	1.661	1.589
112.5	1.878	2.023	2.023	1.950	1.878	1.806	1.734	1.734	1.661	1.734
115.0	1.878	2.023	2.023	1.950	1.878	1.806	1.734	1.661	1.661	1.734
117.5	1.878	1.950	2.023	1.950	1.878	1.806	1.734	1.734	1.661	1.734
120.0	1.806	1.950	1.950	1.950	1.878	1.806	1.734	1.734	1.661	1.661
122.5	1.806	1.950	2.023	1.950	1.878	1.806	1.806	1.806	1.734	1.734
125.0	1.878	2.023	2.023	2.023	1.950	1.878	1.806	1.806	1.806	1.806
127.5	1.950	2.095	2.095	2.095	2.095	2.023	1.950	1.878	1.878	1.950
130.0	2.023	2.167	2.239	2.239	2.239	2.167	2.167	2.095	2.095	2.095
132.5	2.095	2.311	2.384	2.384	2.456	2.384	2.384	2.311	2.311	2.311
135.0	2.239	2.384	2.528	2.528	2.600	2.600	2.600	2.600	2.528	2.528
137.5	2.311	2.456	2.600	2.673	2.817	2.889	2.889	2.817	2.889	2.817
140.0	2.384	2.600	2.745	2.889	3.034	3.106	3.178	3.106	3.178	3.106
142.5	2.528	2.745	2.962	3.106	3.178	3.323	3.323	3.395	3.395	3.467
145.0	2.745	3.034	3.178	3.323	3.395	3.539	3.612	3.756	3.756	3.756
147.5	3.106	3.250	3.395	3.539	3.684	3.828	3.901	3.973	4.045	4.117
150.0	3.395	3.539	3.756	3.901	3.973	4.190	4.190	4.406	4.406	4.406
152.5	3.973	4.190	4.262	4.478	4.551	4.623	4.695	4.840	4.840	4.912
155.0	5.923	5.634	5.706	5.634	5.779	5.923	5.851	5.851	5.995	6.140
157.5	8.379	7.873	7.657	7.368	7.368	7.223	7.296	7.223	7.296	7.368
160.0	10.040	9.463	9.101	8.740	8.523	8.379	8.235	8.235	8.235	8.235
162.5	11.124	10.618	10.185	9.751	9.463	9.174	9.029	8.957	8.740	8.885
165.0	11.702	11.196	10.835	10.402	10.040	9.824	9.463	9.246	8.885	9.101
167.5	11.991	11.557	11.196	10.907	10.546	10.113	9.824	9.535	9.246	9.390
170.0	11.991	11.630	11.268	10.907	10.474	10.113	9.751	9.535	9.318	9.318
172.5	11.557	11.124	10.835	10.402	10.040	9.679	9.390	9.174	9.101	9.174
175.0	10.546	10.185	9.968	9.751	9.535	9.390	9.246	9.174	9.174	9.174
177.5	10.040	9.824	9.751	9.607	9.535	9.463	9.390	9.390	9.246	9.246
180.0	10.279	10.279	10.279	10.279	10.279	10.279	10.279	10.279	10.279	10.279

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	504.635	504.635	504.635	504.635	504.635	504.635	504.635	504.635	504.635	504.635
2.5	402.988	412.956	423.791	429.714	436.504	456.007	472.909	497.974	512.421	522.822
5.0	314.503	326.060	338.701	366.582	383.846	418.301	452.756	494.796	527.012	545.937
7.5	276.436	281.492	293.049	309.013	339.856	389.047	440.043	497.758	538.569	568.618
10.0	259.028	262.784	270.585	280.986	307.568	363.765	432.531	504.042	555.544	590.360
12.5	244.148	250.432	257.366	266.323	286.982	341.590	428.992	515.599	575.336	613.619
15.0	232.735	237.647	246.026	254.983	274.558	325.771	426.608	526.362	594.478	636.517
17.5	224.283	226.595	235.552	245.809	266.540	312.986	424.875	534.813	613.692	660.499
20.0	214.749	217.132	226.667	237.791	258.161	304.534	422.563	547.454	630.955	678.557
22.5	207.020	209.476	219.010	232.229	253.827	300.056	421.769	562.262	648.291	696.037
25.0	201.458	204.058	212.510	226.306	250.360	297.889	421.696	571.507	666.855	713.734

IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QC1X22U5KC.IES

CANDELA TABULATION - (Cont.)

27.5	196.113	198.135	207.742	222.767	247.615	302.801	426.319	582.054	683.541	730.203
30.0	191.923	194.235	204.203	220.094	245.881	307.568	434.481	587.182	693.437	742.411
32.5	188.528	191.201	200.808	218.722	246.098	310.385	441.777	596.428	695.170	746.095
35.0	186.289	189.395	198.569	217.638	247.470	317.897	453.695	606.179	694.159	752.812
37.5	184.050	186.795	197.052	216.266	248.626	322.231	465.831	615.281	696.687	761.769
40.0	181.305	185.928	194.885	215.182	249.348	327.504	477.460	625.393	705.211	767.692
42.5	178.921	183.833	195.101	215.760	251.732	331.477	487.284	624.093	708.750	766.970
45.0	176.682	181.594	194.524	215.038	252.310	336.606	494.579	629.655	706.872	755.340
47.5	164.764	178.271	193.873	215.977	254.838	336.100	502.019	635.506	712.362	747.828
50.0	148.944	166.642	192.573	215.904	252.960	341.590	508.881	640.996	718.285	730.565
52.5	146.272	153.495	188.600	215.254	252.454	338.773	500.358	599.245	656.742	694.231
55.0	143.816	148.944	163.824	212.726	252.382	320.209	456.440	584.365	631.316	625.177
57.5	139.843	147.861	159.490	195.535	237.647	310.385	454.562	580.970	623.732	617.809
60.0	135.220	141.938	146.633	169.459	218.649	304.173	463.375	576.925	601.990	597.873
62.5	128.791	135.870	139.988	136.954	210.270	303.306	470.165	573.891	580.464	572.230
65.0	116.873	124.024	131.681	127.925	161.513	292.038	460.991	567.535	558.000	538.786
67.5	101.921	105.171	101.198	106.471	142.082	270.007	393.887	468.359	447.483	417.868
70.0	66.816	68.621	84.007	94.553	115.934	204.419	364.271	446.328	400.315	341.229
72.5	54.319	52.080	51.647	73.967	89.352	144.899	334.728	395.403	320.859	256.210
75.0	35.828	36.044	36.333	38.356	60.748	90.002	244.003	293.772	205.936	147.644
77.5	16.541	17.480	21.020	23.548	30.988	52.658	164.547	159.563	124.891	67.971
80.0	6.790	9.751	9.029	12.207	15.386	26.221	81.840	75.772	58.364	24.848
82.5	3.973	4.406	4.767	5.562	6.140	8.018	24.198	9.174	9.679	5.995
85.0	2.673	3.250	3.395	3.612	3.684	4.117	4.767	4.406	4.045	3.250
87.5	2.167	2.528	2.528	2.528	2.673	2.817	3.034	2.528	2.023	1.806
90.0	1.372	1.589	1.661	1.589	1.661	1.661	1.734	1.228	1.083	0.939
92.5	1.011	1.156	1.228	1.300	1.372	1.445	1.445	1.300	1.228	1.011
95.0	1.156	1.300	1.372	1.445	1.517	1.589	1.589	1.300	1.228	1.083
97.5	1.228	1.372	1.445	1.589	1.589	1.661	1.661	1.445	1.300	1.156
100.0	1.372	1.445	1.589	1.589	1.734	1.734	1.806	1.445	1.372	1.156
102.5	1.445	1.589	1.661	1.734	1.806	1.878	1.878	1.589	1.372	1.156
105.0	1.589	1.661	1.734	1.734	1.878	1.950	1.950	1.589	1.372	1.228
107.5	1.661	1.734	1.806	1.806	1.950	2.023	1.950	1.589	1.372	1.228
110.0	1.734	1.734	1.806	1.950	2.023	2.095	1.950	1.589	1.445	1.300
112.5	1.734	1.806	1.878	1.950	2.023	2.095	2.023	1.661	1.445	1.300
115.0	1.806	1.734	1.878	1.950	2.023	2.095	2.023	1.661	1.445	1.300
117.5	1.734	1.806	1.878	1.950	2.023	2.023	2.023	1.661	1.517	1.300
120.0	1.734	1.806	1.806	1.950	1.950	2.023	1.950	1.661	1.517	1.372
122.5	1.806	1.806	1.878	1.950	2.023	2.023	1.950	1.734	1.517	1.372
125.0	1.878	1.878	1.950	2.023	2.095	2.095	2.023	1.806	1.661	1.372
127.5	1.950	2.023	2.095	2.167	2.167	2.167	2.023	1.878	1.734	1.445
130.0	2.095	2.167	2.239	2.239	2.311	2.239	2.167	2.023	1.734	1.517
132.5	2.384	2.384	2.384	2.456	2.456	2.384	2.239	2.167	1.878	1.589
135.0	2.600	2.600	2.673	2.600	2.600	2.528	2.384	2.239	1.950	1.661
137.5	2.889	2.889	2.889	2.889	2.817	2.673	2.456	2.239	2.023	1.734
140.0	3.178	3.106	3.178	3.106	3.034	2.889	2.745	2.456	2.167	1.950
142.5	3.467	3.395	3.395	3.323	3.250	3.106	2.962	2.600	2.311	2.167
145.0	3.756	3.756	3.612	3.612	3.467	3.323	3.106	2.745	2.600	2.384
147.5	4.045	4.045	3.973	3.901	3.756	3.612	3.467	3.106	2.962	2.673
150.0	4.406	4.406	4.334	4.262	4.117	3.973	3.756	3.539	3.395	3.178
152.5	4.840	4.912	4.767	4.840	4.695	4.551	4.551	4.190	4.117	3.901
155.0	5.995	6.140	6.068	6.357	6.357	6.357	6.718	5.201	5.129	5.129
157.5	7.368	7.584	7.657	7.946	8.235	8.668	9.101	6.357	6.357	6.573
160.0	8.451	8.523	8.668	8.885	9.463	9.824	10.474	7.801	7.946	8.235
162.5	9.101	9.318	9.535	9.896	10.402	10.835	11.413	9.101	9.390	9.751
165.0	9.463	9.824	10.113	10.474	10.907	11.413	11.918	9.824	10.257	10.474

IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QC1X22U5KC.IES

CANDELA TABULATION - (Cont.)

167.5	9.607	10.113	10.474	10.835	11.268	11.702	12.207	10.257	10.618	10.979
170.0	9.535	9.896	10.474	10.907	11.413	11.846	12.280	10.474	10.835	11.124
172.5	9.246	9.390	9.751	10.402	10.763	11.268	11.702	10.618	10.907	11.196
175.0	9.174	9.246	9.390	9.607	10.040	10.329	10.690	10.546	10.763	10.907
177.5	9.318	9.463	9.535	9.679	9.824	10.040	10.257	10.402	10.546	10.618
180.0	10.279	10.279	10.279	10.279	10.279	10.279	10.279	10.279	10.279	10.279

Vert. Horizontal Angles
Angles

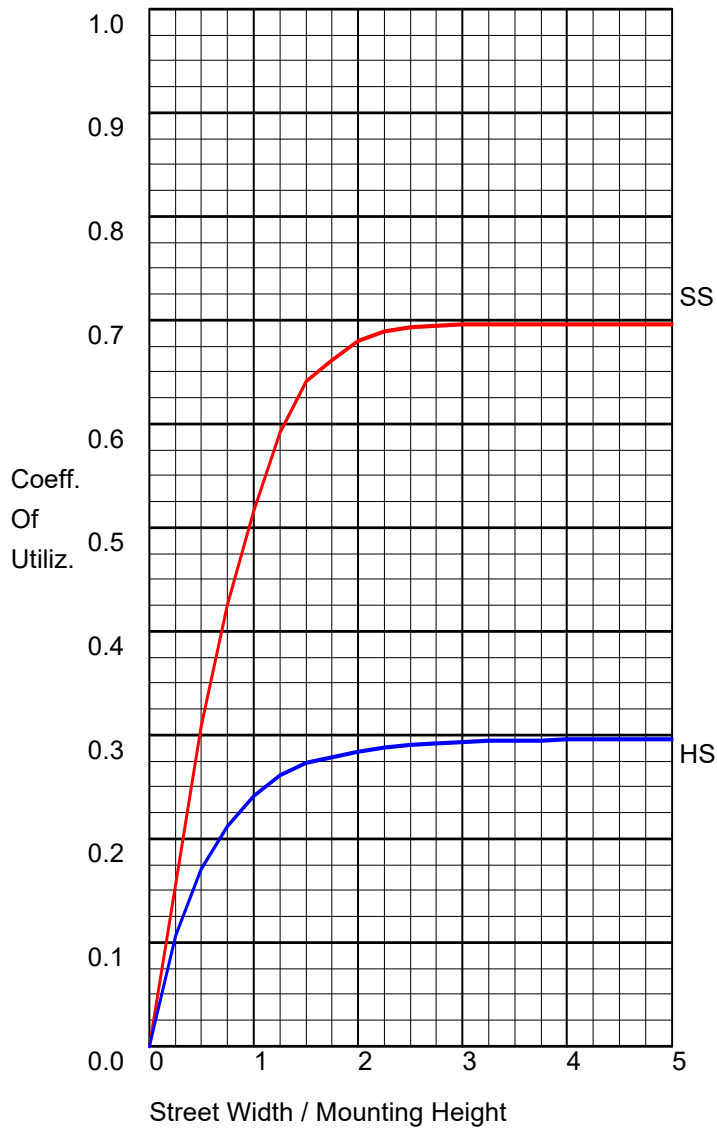
	300	310	320	330	340	350	360
0.0	504.635	504.635	504.635	504.635	504.635	504.635	504.635
2.5	534.163	558.072	559.878	576.636	577.214	589.782	590.577
5.0	568.257	598.812	606.252	627.199	632.111	645.185	648.363
7.5	597.945	631.750	641.501	665.266	674.078	687.080	691.992
10.0	625.032	660.571	672.561	698.204	710.339	723.269	730.854
12.5	650.819	687.441	701.816	730.926	741.255	751.801	762.636
15.0	676.029	713.301	730.203	752.018	767.548	774.988	789.073
17.5	702.972	736.560	754.401	772.243	789.651	787.267	807.926
20.0	726.014	756.424	773.543	789.001	807.926	798.897	820.133
22.5	744.578	773.110	785.823	800.775	819.772	807.132	828.151
25.0	758.880	784.667	793.118	806.120	826.273	810.165	829.163
27.5	770.437	789.507	795.863	805.542	823.817	805.976	822.084
30.0	782.211	791.818	793.263	798.175	814.138	811.393	820.061
32.5	784.595	791.096	785.389	785.389	805.181	810.310	832.630
35.0	783.006	785.895	776.649	775.060	790.951	812.910	824.179
37.5	781.922	779.755	770.220	767.909	782.789	811.177	802.725
40.0	779.683	771.665	766.392	765.164	777.877	808.432	774.916
42.5	772.026	766.826	763.575	770.076	781.850	807.132	769.354
45.0	765.959	765.959	762.203	775.349	781.344	805.109	777.516
47.5	757.363	765.236	768.054	780.766	787.990	805.976	790.518
50.0	746.095	772.821	781.922	787.340	791.385	773.471	750.356
52.5	738.221	775.132	800.342	799.403	737.716	697.482	693.148
55.0	706.005	783.800	812.838	770.437	690.836	693.220	687.441
57.5	652.770	764.731	823.095	727.892	676.751	658.620	624.093
60.0	646.341	706.800	753.174	681.446	623.876	602.207	546.659
62.5	629.366	676.968	583.209	623.371	544.781	466.553	380.668
65.0	580.609	540.736	472.332	521.233	384.569	263.073	178.704
67.5	440.838	397.715	384.641	334.005	157.829	76.567	52.658
70.0	302.729	278.819	269.935	129.369	49.552	36.983	29.977
72.5	186.144	196.040	121.640	47.024	24.487	21.453	16.975
75.0	109.144	119.907	43.773	23.331	13.797	11.413	9.824
77.5	58.003	36.622	20.731	7.512	5.995	5.490	4.984
80.0	16.758	12.207	5.562	3.901	3.612	3.395	3.178
82.5	4.478	3.395	2.889	2.384	2.167	1.950	1.878
85.0	2.673	2.095	1.589	1.300	1.156	1.011	0.939
87.5	1.300	1.011	0.722	0.578	0.506	0.433	0.433
90.0	0.795	0.578	0.506	0.433	0.361	0.289	0.361
92.5	0.795	0.578	0.506	0.433	0.361	0.361	0.361
95.0	0.867	0.650	0.506	0.361	0.361	0.361	0.361
97.5	0.867	0.650	0.506	0.433	0.361	0.361	0.361
100.0	0.939	0.722	0.506	0.433	0.361	0.361	0.433
102.5	1.011	0.722	0.578	0.506	0.433	0.361	0.433
105.0	1.011	0.722	0.578	0.506	0.433	0.433	0.433
107.5	1.011	0.795	0.650	0.506	0.433	0.433	0.433
110.0	1.011	0.795	0.578	0.506	0.433	0.433	0.433
112.5	1.083	0.795	0.650	0.506	0.433	0.433	0.433

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

115.0	1.083	0.867	0.650	0.506	0.506	0.506	0.433
117.5	1.083	0.795	0.650	0.506	0.506	0.506	0.506
120.0	1.083	0.867	0.650	0.578	0.506	0.506	0.506
122.5	1.083	0.867	0.722	0.578	0.506	0.506	0.506
125.0	1.156	0.939	0.722	0.578	0.578	0.506	0.506
127.5	1.156	0.939	0.722	0.650	0.578	0.578	0.578
130.0	1.300	1.011	0.722	0.650	0.650	0.578	0.578
132.5	1.300	1.083	0.867	0.722	0.650	0.650	0.650
135.0	1.372	1.156	0.939	0.795	0.722	0.722	0.722
137.5	1.517	1.300	1.011	0.939	0.795	0.795	0.722
140.0	1.661	1.445	1.228	1.083	1.011	0.939	0.867
142.5	1.878	1.661	1.445	1.228	1.156	1.083	1.011
145.0	2.167	1.950	1.661	1.517	1.372	1.372	1.300
147.5	2.528	2.311	2.095	1.878	1.806	1.806	1.734
150.0	3.034	2.817	2.745	2.528	2.528	2.384	2.384
152.5	3.756	3.756	3.467	3.395	3.395	3.250	3.323
155.0	4.984	4.984	4.912	4.840	4.840	4.767	4.840
157.5	6.573	6.718	6.862	6.573	6.718	6.573	6.645
160.0	8.307	8.596	8.668	8.596	8.740	8.668	8.812
162.5	9.896	10.257	10.402	10.402	10.690	10.474	10.690
165.0	10.835	11.052	11.196	11.413	11.485	11.557	11.630
167.5	11.196	11.485	11.630	11.846	11.918	12.135	12.135
170.0	11.413	11.702	11.846	11.991	12.207	12.280	12.424
172.5	11.413	11.630	11.774	11.991	12.135	12.280	12.424
175.0	11.196	11.413	11.557	11.702	11.846	11.991	12.135
177.5	10.690	10.835	10.907	11.124	11.124	11.341	11.413
180.0	10.279	10.279	10.279	10.279	10.279	10.279	10.279

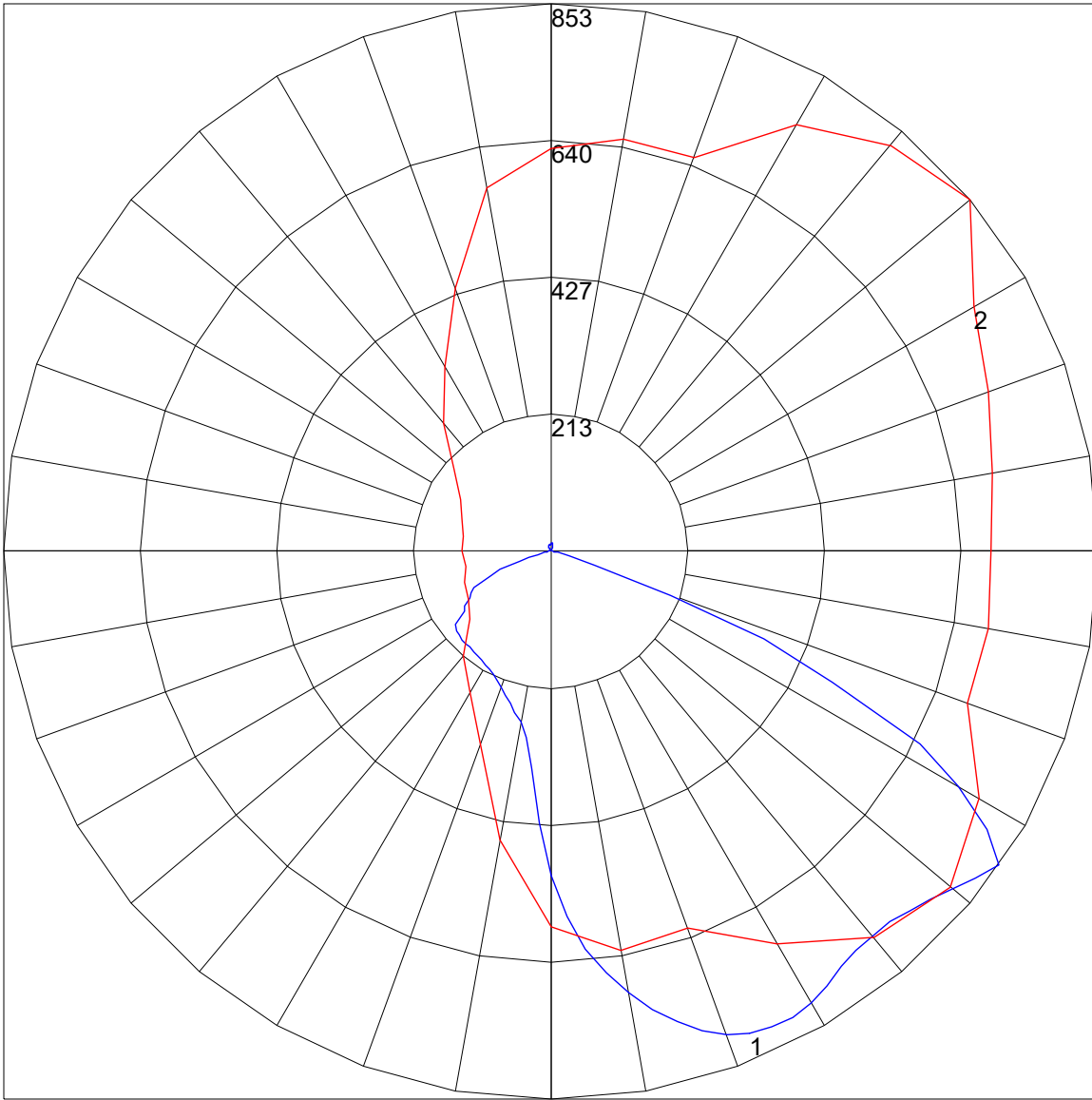
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

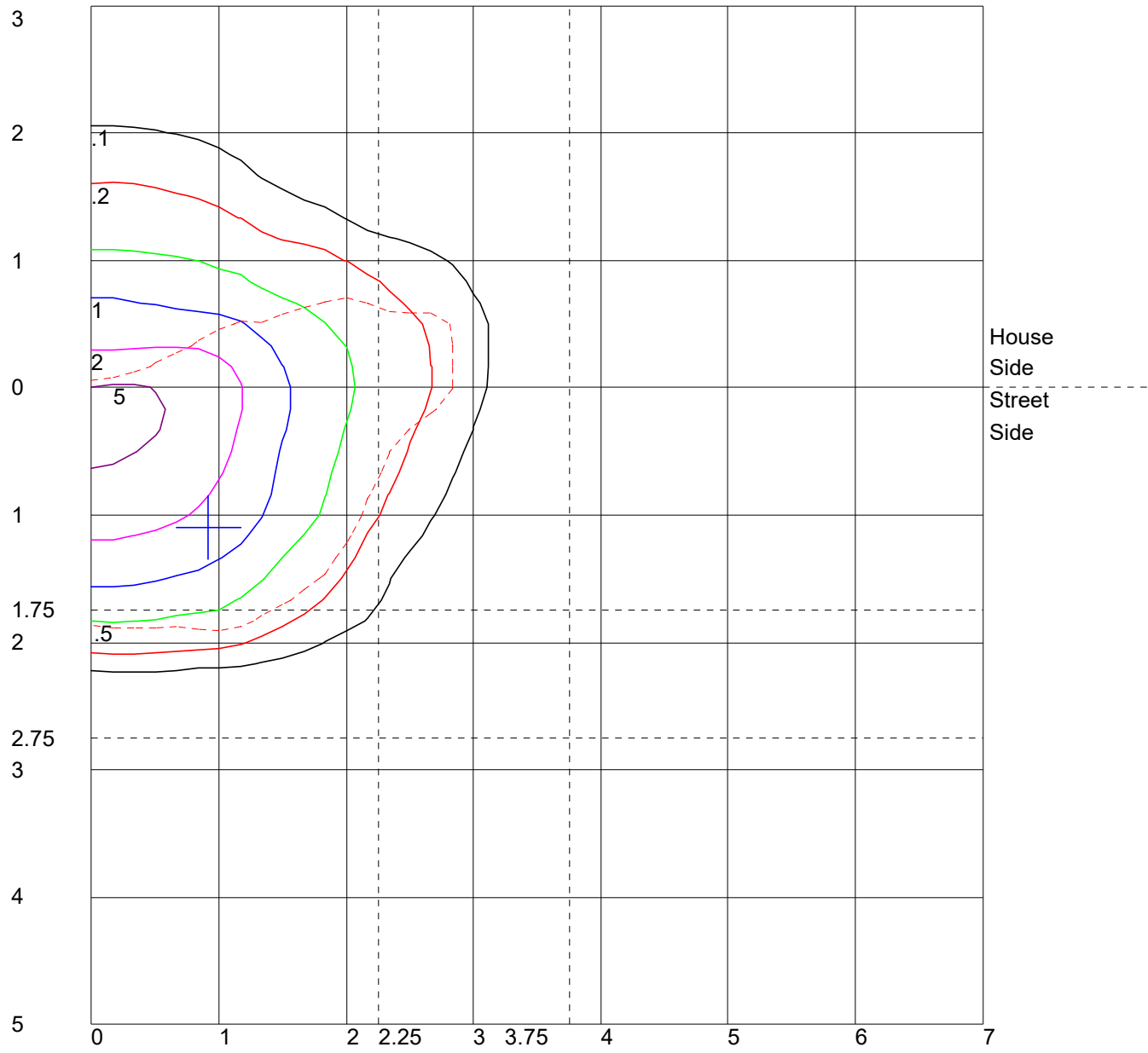
	Lumens	Percent Of Luminaire
Downward Street Side	1447.1	69.7
Downward House Side	615.6	29.6
Downward Total	2062.7	99.3
Upward Street Side	5.9	0.3
Upward House Side	8.8	0.4
Upward Total	14.7	0.7
Total Flux	2077.4	100.0

POLAR GRAPH



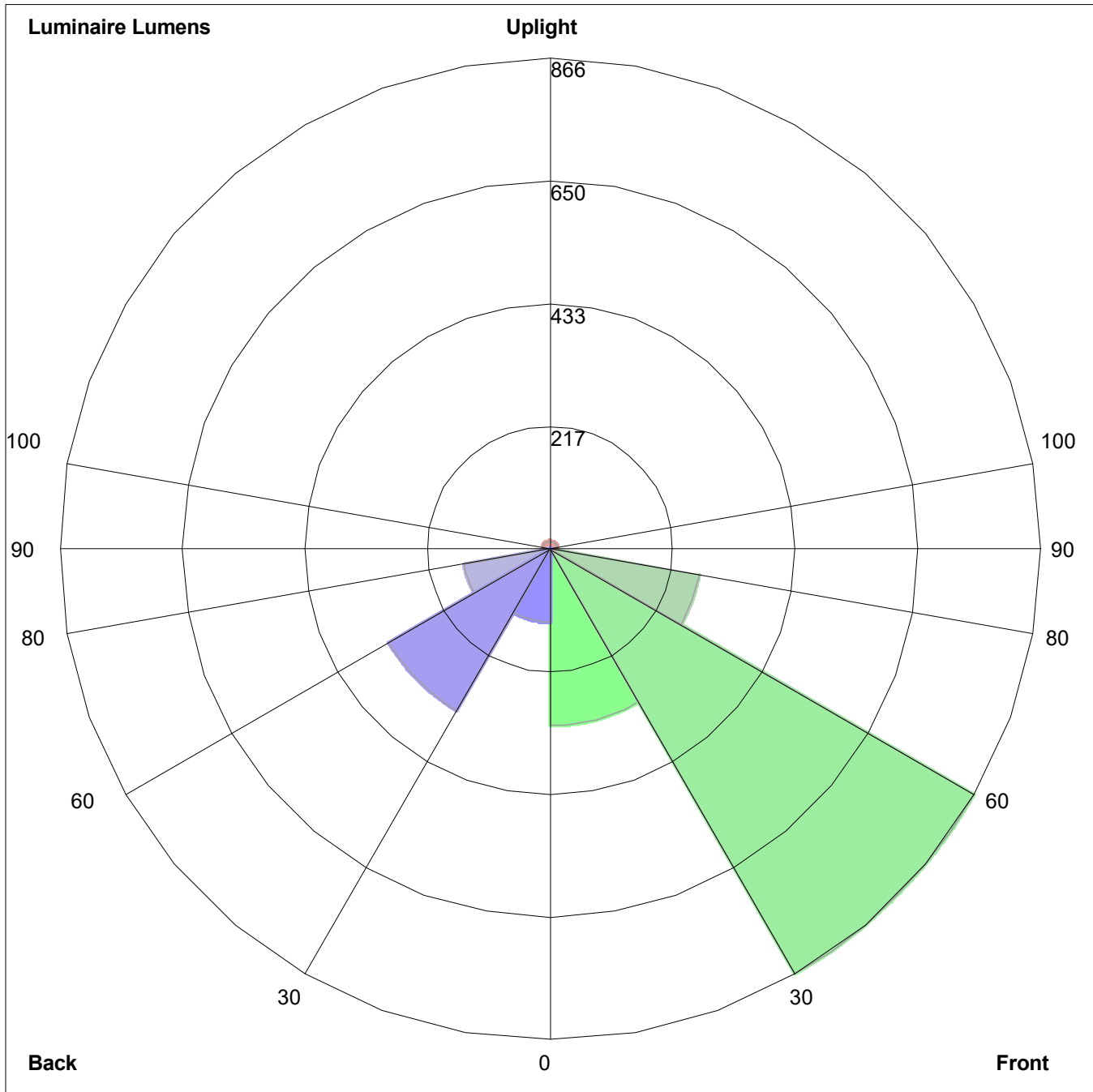
Maximum Candela = 853.144 Located At Horizontal Angle = 40, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

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=312.1, Medium=866.0, High=267.0, Very High=2.0
 Back: Low=129.1, Medium=328.8, High=154.5, Very High=3.3
 Uplight: Low=1.1, High=13.6

BUG Rating : B1-U2-G1