



IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QC1X22U4KC.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] Q2016041903 (scaled to 4K)
[TESTLAB] QSSI
[ISSUE DATE] 04/19/2016
[MANUFAC] DuraGuard
[LUMCAT] KH15QC1X22U4KC
[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	1901
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	24.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	780.627
Maximum Candela Angle	40H 55V
Maximum Candela (<90 Degrees Vertical)	780.627
Maximum Candela Angle (<90 Degrees Vertical)	40H 55V
Maximum Candela At 90 Degrees Vertical	1.587 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	74.884 (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)	285.6	N.A.	15.0
FM - Front-Medium (30-60)	792.4	N.A.	41.7
FH - Front-High (60-80)	244.3	N.A.	12.9
FVH - Front-Very High (80-90)	1.8	N.A.	0.1
BL - Back-Low (0-30)	118.1	N.A.	6.2
BM - Back-Medium (30-60)	300.8	N.A.	15.8
BH - Back-High (60-80)	141.3	N.A.	7.4
BVH - Back-Very High (80-90)	3.0	N.A.	0.2
UL - Uplight-Low (90-100)	1.0	N.A.	0.1
UH - Uplight-High (100-180)	12.5	N.A.	0.7
Total	1900.8	N.A.	100.0
BUG Rating	B1-U2-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	461.741	461.741	461.741	461.741	461.741	461.741	461.741	461.741	461.741	461.741
2.5	540.378	541.436	534.099	532.381	520.550	512.553	497.285	495.567	482.348	474.020
5.0	593.252	594.443	585.454	583.206	568.468	555.844	535.421	529.671	509.777	486.710
7.5	633.173	636.279	624.118	622.598	606.207	593.120	568.864	558.884	529.605	501.119
10.0	668.731	672.696	658.024	657.760	638.791	625.176	601.052	588.031	554.522	518.237
12.5	697.812	702.967	686.907	691.203	668.203	656.503	632.314	616.385	579.439	536.346
15.0	722.002	728.809	710.964	718.698	694.243	685.849	661.659	639.254	604.488	553.597
17.5	739.252	742.425	730.263	737.335	716.847	705.743	686.973	668.731	632.776	571.178
20.0	750.422	753.198	743.284	753.528	733.899	725.505	709.114	687.039	650.754	585.784
22.5	757.758	758.420	750.224	761.856	742.953	740.574	728.744	703.364	664.633	597.747
25.0	758.684	755.709	749.761	764.500	748.307	750.554	743.284	715.194	683.469	613.874
27.5	752.207	750.489	742.359	760.997	749.166	755.313	752.736	727.224	703.297	626.167
30.0	750.356	747.712	736.146	748.968	744.210	754.916	756.172	733.833	715.459	638.791
32.5	761.856	749.166	738.526	731.520	733.437	750.686	753.132	739.385	717.970	647.846
35.0	754.124	749.035	738.856	719.358	721.341	743.614	747.316	743.614	727.950	655.644
37.5	734.493	745.531	738.922	715.856	716.053	734.428	742.888	747.052	735.022	672.829
40.0	709.048	740.509	738.195	716.384	714.732	725.439	738.658	743.482	737.600	689.947
42.5	703.959	736.609	736.543	719.623	715.459	726.166	733.304	731.057	728.942	687.699
45.0	711.427	732.841	737.930	730.396	724.183	727.554	727.753	710.172	712.022	686.643
47.5	723.324	738.129	740.177	741.103	735.022	728.413	723.588	690.740	701.646	685.717
50.0	686.576	705.347	731.454	752.868	748.109	732.445	719.887	683.536	690.012	679.835
52.5	634.230	652.142	671.507	744.936	764.500	739.583	722.002	661.262	625.969	605.413
55.0	629.009	640.245	665.361	697.548	780.627	755.181	701.579	596.425	596.094	574.746
57.5	571.045	594.839	632.446	675.538	738.592	766.483	629.868	572.829	585.982	579.439
60.0	500.193	535.752	574.152	634.891	670.383	687.039	614.799	550.688	566.485	592.988
62.5	348.311	392.924	450.690	568.798	594.574	553.068	587.502	522.268	538.527	580.827
65.0	163.514	200.131	281.226	439.851	443.419	449.896	518.501	478.581	481.621	542.162
67.5	48.182	58.096	88.565	233.177	328.682	368.866	345.998	358.424	388.628	460.075
70.0	27.429	31.725	36.681	68.340	182.616	267.875	238.993	294.247	331.986	419.692
72.5	15.532	17.713	20.357	31.064	66.358	164.373	173.098	184.070	229.740	294.908
75.0	8.989	9.121	10.641	13.219	27.825	61.533	87.970	90.350	152.742	218.306
77.5	4.560	4.759	5.023	5.221	9.584	23.794	35.756	40.780	72.438	132.252
80.0	2.908	3.041	3.172	3.238	3.569	5.750	10.113	12.161	24.520	67.680
82.5	1.718	1.718	1.851	1.917	2.313	2.643	3.238	3.834	4.825	6.014
85.0	0.859	0.925	0.925	1.058	1.190	1.520	1.851	2.446	2.842	3.569
87.5	0.396	0.396	0.396	0.463	0.463	0.595	0.727	1.058	1.255	1.851
90.0	0.330	0.396	0.396	0.396	0.463	0.463	0.595	0.727	0.859	1.190
92.5	0.330	0.330	0.396	0.396	0.463	0.529	0.661	0.793	0.991	1.255
95.0	0.330	0.396	0.396	0.396	0.463	0.529	0.661	0.793	0.991	1.388
97.5	0.330	0.330	0.396	0.396	0.463	0.595	0.727	0.793	0.991	1.388
100.0	0.396	0.396	0.396	0.396	0.463	0.661	0.727	0.925	1.124	1.454
102.5	0.396	0.396	0.396	0.463	0.529	0.595	0.727	0.991	1.124	1.520
105.0	0.396	0.396	0.396	0.463	0.529	0.661	0.859	0.991	1.190	1.520
107.5	0.396	0.396	0.396	0.463	0.529	0.661	0.793	0.991	1.190	1.520
110.0	0.396	0.396	0.396	0.463	0.463	0.661	0.859	1.058	1.190	1.520
112.5	0.396	0.396	0.463	0.463	0.529	0.661	0.859	1.058	1.190	1.520
115.0	0.396	0.463	0.463	0.463	0.463	0.661	0.859	1.058	1.190	1.520
117.5	0.463	0.396	0.463	0.463	0.529	0.661	0.859	1.058	1.255	1.520
120.0	0.463	0.396	0.463	0.463	0.529	0.661	0.859	1.058	1.190	1.520
122.5	0.463	0.463	0.463	0.463	0.529	0.661	0.859	1.058	1.255	1.520
125.0	0.463	0.463	0.529	0.463	0.529	0.661	0.859	1.058	1.255	1.587
127.5	0.529	0.529	0.529	0.595	0.595	0.727	0.925	1.124	1.322	1.520
130.0	0.529	0.529	0.595	0.595	0.661	0.727	0.925	1.190	1.388	1.652

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CANDELA TABULATION - (Cont.)

132.5	0.595	0.595	0.595	0.595	0.661	0.793	1.058	1.255	1.520	1.718
135.0	0.661	0.661	0.661	0.661	0.793	0.925	1.058	1.322	1.587	1.784
137.5	0.661	0.727	0.661	0.727	0.793	0.991	1.190	1.388	1.652	1.917
140.0	0.793	0.793	0.859	0.859	0.991	1.190	1.322	1.587	1.784	1.983
142.5	0.925	0.991	0.991	1.124	1.190	1.322	1.520	1.718	1.917	2.181
145.0	1.190	1.190	1.255	1.322	1.454	1.652	1.718	1.983	2.181	2.313
147.5	1.587	1.652	1.652	1.718	1.784	1.983	2.115	2.313	2.512	2.643
150.0	2.181	2.181	2.247	2.247	2.379	2.512	2.643	2.842	3.041	2.974
152.5	3.041	2.974	3.106	3.106	3.238	3.305	3.503	3.569	3.701	3.437
155.0	4.429	4.494	4.494	4.626	4.560	4.560	4.759	4.759	4.891	5.420
157.5	6.080	6.014	6.147	6.080	6.213	6.147	6.279	6.279	6.279	7.997
160.0	8.063	7.931	8.063	7.997	8.130	7.997	8.063	7.931	7.865	9.584
162.5	9.781	9.848	9.781	9.650	9.781	9.650	9.518	9.385	9.253	10.707
165.0	10.641	10.641	10.641	10.707	10.707	10.641	10.509	10.310	10.113	11.169
167.5	11.104	11.169	11.169	11.302	11.169	11.104	10.972	10.707	10.443	11.368
170.0	11.368	11.434	11.434	11.434	11.368	11.302	11.104	10.972	10.707	11.302
172.5	11.368	11.368	11.434	11.368	11.368	11.302	11.169	10.905	10.707	10.773
175.0	11.104	11.236	11.236	11.104	11.104	11.038	10.972	10.773	10.641	9.781
177.5	10.443	10.509	10.641	10.707	10.575	10.575	10.509	10.443	10.244	9.253
180.0	9.405	9.405	9.405	9.405	9.405	9.405	9.405	9.405	9.405	9.405

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	461.741	461.741	461.741	461.741	461.741	461.741	461.741	461.741	461.741	461.741
2.5	458.224	439.652	422.203	416.652	396.427	390.875	375.343	376.599	377.459	371.972
5.0	458.687	426.103	392.131	367.610	334.828	317.314	297.023	293.190	285.655	287.439
7.5	462.322	415.065	365.496	321.279	289.752	270.123	257.367	255.847	251.221	252.277
10.0	469.394	406.605	338.728	286.647	260.011	248.312	239.521	238.465	235.160	235.424
12.5	476.069	399.666	318.305	264.042	245.205	234.829	228.022	225.576	222.536	222.073
15.0	483.405	392.659	303.632	252.806	236.019	224.188	217.645	214.737	211.630	211.696
17.5	491.469	389.752	294.841	245.404	228.551	214.935	209.185	205.219	201.915	203.237
20.0	497.285	387.306	290.480	240.712	222.800	207.929	200.923	197.024	193.984	195.372
22.5	504.886	389.091	286.514	237.605	217.183	201.981	194.115	190.150	188.696	188.167
25.0	513.148	389.289	283.805	232.449	212.953	197.024	188.960	183.937	181.029	181.294
27.5	519.162	393.387	282.681	228.947	209.846	192.464	184.004	179.112	176.866	177.262
30.0	526.631	400.459	287.373	231.657	206.871	188.696	180.038	175.279	173.231	173.759
32.5	533.372	413.744	295.899	231.789	205.219	186.581	177.461	172.636	169.397	170.851
35.0	541.965	421.278	292.462	230.004	203.104	184.863	175.478	170.454	168.670	165.960
37.5	560.669	421.146	295.370	231.524	201.585	182.880	173.693	168.868	166.819	165.167
40.0	574.812	434.761	299.666	229.476	201.056	181.624	171.644	166.819	165.299	164.902
42.5	584.330	441.502	301.054	228.022	200.262	181.228	169.860	164.638	163.251	162.788
45.0	592.063	449.765	304.624	233.243	198.345	180.699	168.273	161.531	158.888	159.946
47.5	597.813	456.770	304.227	236.283	201.320	179.641	165.167	141.572	134.302	136.416
50.0	602.109	460.009	306.541	238.067	203.832	178.055	142.761	137.276	130.864	132.583
52.5	556.042	446.790	308.259	238.993	202.510	150.561	138.994	129.807	128.684	129.807
55.0	526.498	399.930	303.104	237.870	180.633	147.983	134.368	127.296	127.427	122.471
57.5	529.010	405.350	268.735	231.855	163.448	144.612	134.963	128.750	124.189	122.867
60.0	532.513	403.896	264.571	176.007	153.402	139.457	126.965	125.313	119.959	118.902
62.5	527.423	395.766	257.499	151.155	137.936	132.980	121.743	117.448	113.812	112.094
65.0	519.228	384.002	237.407	138.531	113.746	120.290	113.019	108.128	104.890	103.965
67.5	437.868	320.882	175.213	123.529	104.097	99.602	98.743	80.502	68.803	69.530
70.0	417.511	302.112	135.028	102.114	84.996	63.053	61.863	59.946	56.708	57.501
72.5	327.294	260.143	102.775	75.743	52.544	45.142	48.182	47.124	41.176	44.745
75.0	253.468	138.531	55.716	50.760	27.627	30.733	29.147	31.262	24.587	30.997
77.5	155.650	80.964	33.377	21.083	18.044	13.549	13.946	14.144	13.152	14.144

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CANDELA TABULATION - (Cont.)

80.0	61.731	29.941	13.351	10.773	7.402	7.535	6.080	6.014	5.288	5.552
82.5	6.742	5.948	5.155	4.626	4.097	4.097	4.031	4.230	3.437	3.238
85.0	3.966	3.569	3.305	3.172	3.106	2.974	2.842	2.842	2.313	2.115
87.5	2.247	2.115	2.313	2.181	2.181	2.115	2.181	2.049	1.851	1.652
90.0	1.255	1.255	1.255	1.190	1.190	1.124	1.124	1.058	1.058	1.058
92.5	1.388	1.388	1.388	1.322	1.190	1.124	0.991	0.859	0.859	0.859
95.0	1.520	1.520	1.454	1.388	1.322	1.190	1.058	0.925	0.925	0.925
97.5	1.520	1.587	1.587	1.520	1.388	1.255	1.190	1.058	0.991	1.058
100.0	1.587	1.718	1.718	1.587	1.520	1.388	1.322	1.190	1.124	1.124
102.5	1.652	1.718	1.784	1.718	1.587	1.520	1.388	1.322	1.255	1.255
105.0	1.652	1.784	1.784	1.718	1.718	1.587	1.454	1.388	1.322	1.322
107.5	1.652	1.851	1.851	1.784	1.652	1.652	1.587	1.454	1.388	1.454
110.0	1.718	1.784	1.851	1.784	1.718	1.718	1.587	1.520	1.520	1.454
112.5	1.718	1.851	1.851	1.784	1.718	1.652	1.587	1.587	1.520	1.587
115.0	1.718	1.851	1.851	1.784	1.718	1.652	1.587	1.520	1.520	1.587
117.5	1.718	1.784	1.851	1.784	1.718	1.652	1.587	1.587	1.520	1.587
120.0	1.652	1.784	1.784	1.784	1.718	1.652	1.587	1.587	1.520	1.520
122.5	1.652	1.784	1.851	1.784	1.718	1.652	1.652	1.652	1.587	1.587
125.0	1.718	1.851	1.851	1.851	1.784	1.718	1.652	1.652	1.652	1.652
127.5	1.784	1.917	1.917	1.917	1.917	1.851	1.784	1.718	1.718	1.784
130.0	1.851	1.983	2.049	2.049	2.049	1.983	1.983	1.917	1.917	1.917
132.5	1.917	2.115	2.181	2.181	2.247	2.181	2.181	2.115	2.115	2.115
135.0	2.049	2.181	2.313	2.313	2.379	2.379	2.379	2.379	2.313	2.313
137.5	2.115	2.247	2.379	2.446	2.578	2.643	2.643	2.578	2.643	2.578
140.0	2.181	2.379	2.512	2.643	2.776	2.842	2.908	2.842	2.908	2.842
142.5	2.313	2.512	2.710	2.842	2.908	3.041	3.041	3.106	3.106	3.172
145.0	2.512	2.776	2.908	3.041	3.106	3.238	3.305	3.437	3.437	3.437
147.5	2.842	2.974	3.106	3.238	3.371	3.503	3.569	3.635	3.701	3.767
150.0	3.106	3.238	3.437	3.569	3.635	3.834	3.834	4.031	4.031	4.031
152.5	3.635	3.834	3.900	4.097	4.164	4.230	4.296	4.429	4.429	4.494
155.0	5.420	5.155	5.221	5.155	5.288	5.420	5.354	5.354	5.485	5.618
157.5	7.667	7.204	7.006	6.742	6.742	6.609	6.676	6.609	6.676	6.742
160.0	9.187	8.659	8.327	7.997	7.799	7.667	7.535	7.535	7.535	7.535
162.5	10.178	9.715	9.319	8.922	8.659	8.394	8.262	8.196	7.997	8.130
165.0	10.707	10.244	9.914	9.518	9.187	8.989	8.659	8.460	8.130	8.327
167.5	10.972	10.575	10.244	9.980	9.650	9.253	8.989	8.725	8.460	8.592
170.0	10.972	10.641	10.310	9.980	9.584	9.253	8.922	8.725	8.526	8.526
172.5	10.575	10.178	9.914	9.518	9.187	8.856	8.592	8.394	8.327	8.394
175.0	9.650	9.319	9.121	8.922	8.725	8.592	8.460	8.394	8.394	8.394
177.5	9.187	8.989	8.922	8.790	8.725	8.659	8.592	8.592	8.460	8.460
180.0	9.405	9.405	9.405	9.405	9.405	9.405	9.405	9.405	9.405	9.405

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	461.741	461.741	461.741	461.741	461.741	461.741	461.741	461.741	461.741	461.741
2.5	368.734	377.855	387.769	393.188	399.401	417.246	432.712	455.646	468.865	478.382
5.0	287.770	298.345	309.911	335.423	351.219	382.745	414.272	452.738	482.216	499.532
7.5	252.939	257.565	268.140	282.747	310.968	355.978	402.639	455.449	492.791	520.285
10.0	237.011	240.447	247.585	257.102	281.425	332.845	395.766	461.198	508.323	540.179
12.5	223.395	229.145	235.490	243.686	262.589	312.555	392.528	471.773	526.432	561.461
15.0	212.953	217.447	225.114	233.309	251.221	298.080	390.346	481.621	543.947	582.413
17.5	205.219	207.334	215.530	224.915	243.884	286.382	388.761	489.354	561.528	604.357
20.0	196.495	198.676	207.400	217.579	236.217	278.649	386.645	500.920	577.324	620.880
22.5	189.423	191.671	200.394	212.490	232.252	274.551	385.919	514.470	593.186	636.874
25.0	184.334	186.713	194.447	207.070	229.079	272.568	385.852	522.929	610.172	653.067

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

27.5	179.443	181.294	190.084	203.832	226.568	277.063	390.082	532.579	625.440	668.136
30.0	175.610	177.725	186.846	201.386	224.981	281.425	397.550	537.272	634.495	679.306
32.5	172.503	174.949	183.739	200.131	225.180	284.002	404.226	545.732	636.081	682.677
35.0	170.454	173.296	181.691	199.139	226.435	290.876	415.131	554.654	635.155	688.823
37.5	168.406	170.917	180.303	197.883	227.493	294.841	426.235	562.982	637.469	697.019
40.0	165.894	170.124	178.320	196.892	228.153	299.666	436.876	572.235	645.268	702.438
42.5	163.713	168.207	178.517	197.420	230.335	303.301	445.865	571.045	648.506	701.778
45.0	161.664	166.159	177.989	196.760	230.864	307.994	452.540	576.134	646.788	691.136
47.5	150.759	163.118	177.394	197.619	233.177	307.532	459.347	581.488	651.811	684.263
50.0	136.284	152.477	176.204	197.552	231.458	312.555	465.626	586.511	657.231	668.467
52.5	133.839	140.448	172.569	196.957	230.995	309.977	457.828	548.309	600.919	635.221
55.0	131.592	136.284	149.899	194.644	230.930	292.991	417.643	534.694	577.654	572.037
57.5	127.956	135.293	145.933	178.915	217.447	284.002	415.924	531.588	570.715	565.295
60.0	123.726	129.873	134.169	155.055	200.064	278.318	423.988	527.886	550.821	547.054
62.5	117.844	124.321	128.089	125.313	192.397	277.525	430.201	525.110	531.125	523.590
65.0	106.939	113.482	120.488	117.051	147.784	267.215	421.807	519.295	510.570	492.989
67.5	93.258	96.231	92.596	97.421	130.005	247.056	360.407	428.548	409.447	382.349
70.0	61.137	62.788	76.866	86.516	106.080	187.043	333.308	408.390	366.288	312.225
72.5	49.702	47.653	47.257	67.680	81.757	132.583	306.276	361.794	293.586	234.432
75.0	32.783	32.980	33.245	35.096	55.584	82.352	223.263	268.801	188.431	135.094
77.5	15.135	15.994	19.233	21.546	28.354	48.182	150.561	146.000	114.275	62.193
80.0	6.213	8.922	8.262	11.169	14.078	23.992	74.884	69.331	53.403	22.736
82.5	3.635	4.031	4.362	5.089	5.618	7.336	22.141	8.394	8.856	5.485
85.0	2.446	2.974	3.106	3.305	3.371	3.767	4.362	4.031	3.701	2.974
87.5	1.983	2.313	2.313	2.313	2.446	2.578	2.776	2.313	1.851	1.652
90.0	1.255	1.454	1.520	1.454	1.520	1.520	1.587	1.124	0.991	0.859
92.5	0.925	1.058	1.124	1.190	1.255	1.322	1.322	1.190	1.124	0.925
95.0	1.058	1.190	1.255	1.322	1.388	1.454	1.454	1.190	1.124	0.991
97.5	1.124	1.255	1.322	1.454	1.454	1.520	1.520	1.322	1.190	1.058
100.0	1.255	1.322	1.454	1.454	1.587	1.587	1.652	1.322	1.255	1.058
102.5	1.322	1.454	1.520	1.587	1.652	1.718	1.718	1.454	1.255	1.058
105.0	1.454	1.520	1.587	1.587	1.718	1.784	1.784	1.454	1.255	1.124
107.5	1.520	1.587	1.652	1.652	1.784	1.851	1.784	1.454	1.255	1.124
110.0	1.587	1.587	1.652	1.784	1.851	1.917	1.784	1.454	1.322	1.190
112.5	1.587	1.652	1.718	1.784	1.851	1.917	1.851	1.520	1.322	1.190
115.0	1.652	1.587	1.718	1.784	1.851	1.917	1.851	1.520	1.322	1.190
117.5	1.587	1.652	1.718	1.784	1.851	1.851	1.851	1.520	1.388	1.190
120.0	1.587	1.652	1.652	1.784	1.784	1.851	1.784	1.520	1.388	1.255
122.5	1.652	1.652	1.718	1.784	1.851	1.851	1.784	1.587	1.388	1.255
125.0	1.718	1.718	1.784	1.851	1.917	1.917	1.851	1.652	1.520	1.255
127.5	1.784	1.851	1.917	1.983	1.983	1.983	1.851	1.718	1.587	1.322
130.0	1.917	1.983	2.049	2.049	2.115	2.049	1.983	1.851	1.587	1.388
132.5	2.181	2.181	2.181	2.247	2.247	2.181	2.049	1.983	1.718	1.454
135.0	2.379	2.379	2.446	2.379	2.379	2.313	2.181	2.049	1.784	1.520
137.5	2.643	2.643	2.643	2.643	2.578	2.446	2.247	2.049	1.851	1.587
140.0	2.908	2.842	2.908	2.842	2.776	2.643	2.512	2.247	1.983	1.784
142.5	3.172	3.106	3.106	3.041	2.974	2.842	2.710	2.379	2.115	1.983
145.0	3.437	3.437	3.305	3.305	3.172	3.041	2.842	2.512	2.379	2.181
147.5	3.701	3.701	3.635	3.569	3.437	3.305	3.172	2.842	2.710	2.446
150.0	4.031	4.031	3.966	3.900	3.767	3.635	3.437	3.238	3.106	2.908
152.5	4.429	4.494	4.362	4.429	4.296	4.164	4.164	3.834	3.767	3.569
155.0	5.485	5.618	5.552	5.817	5.817	5.817	6.147	4.759	4.693	4.693
157.5	6.742	6.939	7.006	7.271	7.535	7.931	8.327	5.817	5.817	6.014
160.0	7.733	7.799	7.931	8.130	8.659	8.989	9.584	7.138	7.271	7.535
162.5	8.327	8.526	8.725	9.055	9.518	9.914	10.443	8.327	8.592	8.922
165.0	8.659	8.989	9.253	9.584	9.980	10.443	10.905	8.989	9.385	9.584

IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QC1X22U4KC.IES

CANDELA TABULATION - (Cont.)

167.5	8.790	9.253	9.584	9.914	10.310	10.707	11.169	9.385	9.715	10.046
170.0	8.725	9.055	9.584	9.980	10.443	10.839	11.236	9.584	9.914	10.178
172.5	8.460	8.592	8.922	9.518	9.848	10.310	10.707	9.715	9.980	10.244
175.0	8.394	8.460	8.592	8.790	9.187	9.451	9.781	9.650	9.848	9.980
177.5	8.526	8.659	8.725	8.856	8.989	9.187	9.385	9.518	9.650	9.715
180.0	9.405	9.405	9.405	9.405	9.405	9.405	9.405	9.405	9.405	9.405

Vert. Horizontal Angles
Angles

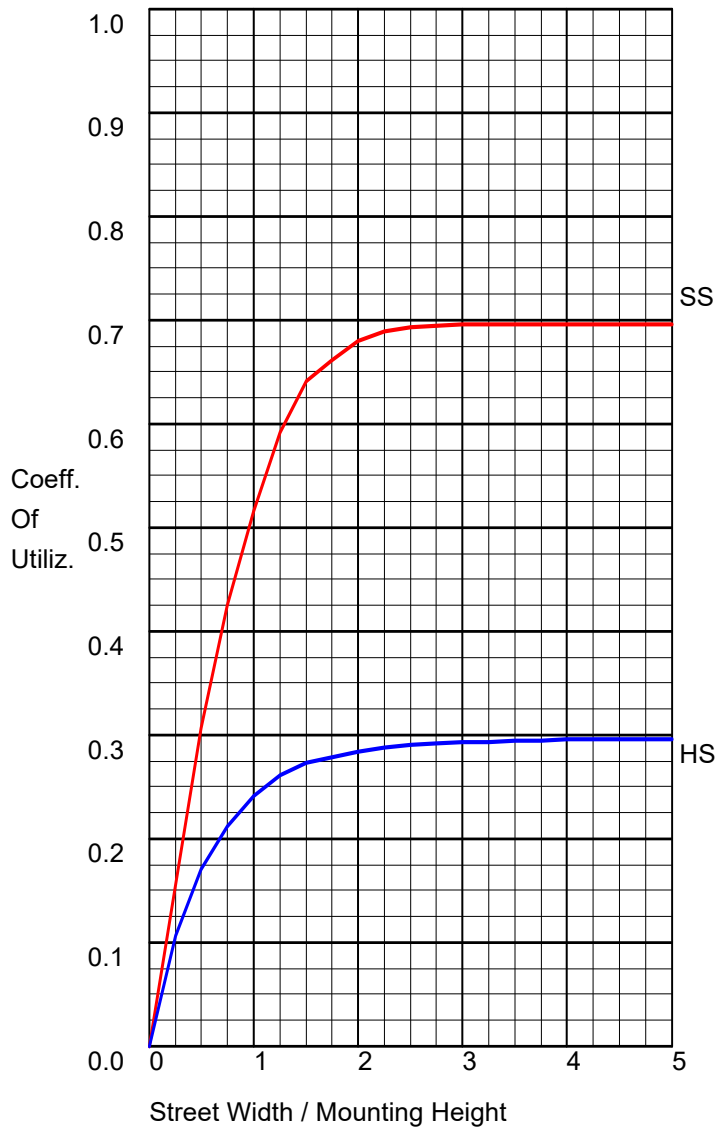
	300	310	320	330	340	350	360
0.0	461.741	461.741	461.741	461.741	461.741	461.741	461.741
2.5	488.759	510.636	512.288	527.622	528.151	539.651	540.378
5.0	519.955	547.913	554.721	573.887	578.382	590.344	593.252
7.5	547.120	578.051	586.973	608.718	616.781	628.678	633.173
10.0	571.904	604.422	615.393	638.857	649.960	661.791	668.731
12.5	595.499	629.009	642.162	668.797	678.248	687.898	697.812
15.0	618.567	652.670	668.136	688.096	702.306	709.114	722.002
17.5	643.219	673.952	690.277	706.602	722.531	720.349	739.252
20.0	664.303	692.128	707.792	721.936	739.252	730.991	750.422
22.5	681.289	707.396	719.028	732.709	750.091	738.526	757.758
25.0	694.375	717.970	725.703	737.600	756.040	741.301	758.684
27.5	704.950	722.399	728.215	737.071	753.793	737.468	752.207
30.0	715.723	724.513	725.836	730.330	744.936	742.425	750.356
32.5	717.904	723.853	718.631	718.631	736.741	741.434	761.856
35.0	716.451	719.094	710.634	709.180	723.720	743.813	754.124
37.5	715.459	713.476	704.751	702.637	716.252	742.227	734.493
40.0	713.410	706.073	701.249	700.125	711.757	739.715	709.048
42.5	706.404	701.646	698.671	704.620	715.393	738.526	703.959
45.0	700.853	700.853	697.416	709.444	714.930	736.675	711.427
47.5	692.987	700.191	702.769	714.401	721.011	737.468	723.324
50.0	682.677	707.131	715.459	720.416	724.117	707.726	686.576
52.5	675.472	709.246	732.313	731.454	675.010	638.196	634.230
55.0	645.995	717.177	743.747	704.950	632.115	634.296	629.009
57.5	597.285	699.729	753.132	666.021	619.227	602.637	571.045
60.0	591.402	646.722	689.154	623.523	570.847	551.019	500.193
62.5	575.870	619.426	533.636	570.384	498.475	426.896	348.311
65.0	531.257	494.773	432.184	476.928	351.881	240.712	163.514
67.5	403.367	363.909	351.947	305.615	144.414	70.059	48.182
70.0	276.997	255.119	246.991	118.373	45.340	33.839	27.429
72.5	170.322	179.377	111.301	43.027	22.406	19.629	15.532
75.0	99.867	109.715	40.052	21.348	12.624	10.443	8.989
77.5	53.073	33.509	18.969	6.873	5.485	5.023	4.560
80.0	15.334	11.169	5.089	3.569	3.305	3.106	2.908
82.5	4.097	3.106	2.643	2.181	1.983	1.784	1.718
85.0	2.446	1.917	1.454	1.190	1.058	0.925	0.859
87.5	1.190	0.925	0.661	0.529	0.463	0.396	0.396
90.0	0.727	0.529	0.463	0.396	0.330	0.264	0.330
92.5	0.727	0.529	0.463	0.396	0.330	0.330	0.330
95.0	0.793	0.595	0.463	0.330	0.330	0.330	0.330
97.5	0.793	0.595	0.463	0.396	0.330	0.330	0.330
100.0	0.859	0.661	0.463	0.396	0.330	0.330	0.396
102.5	0.925	0.661	0.529	0.463	0.396	0.330	0.396
105.0	0.925	0.661	0.529	0.463	0.396	0.396	0.396
107.5	0.925	0.727	0.595	0.463	0.396	0.396	0.396
110.0	0.925	0.727	0.529	0.463	0.396	0.396	0.396
112.5	0.991	0.727	0.595	0.463	0.396	0.396	0.396

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

115.0	0.991	0.793	0.595	0.463	0.463	0.463	0.396
117.5	0.991	0.727	0.595	0.463	0.463	0.463	0.463
120.0	0.991	0.793	0.595	0.529	0.463	0.463	0.463
122.5	0.991	0.793	0.661	0.529	0.463	0.463	0.463
125.0	1.058	0.859	0.661	0.529	0.529	0.463	0.463
127.5	1.058	0.859	0.661	0.595	0.529	0.529	0.529
130.0	1.190	0.925	0.661	0.595	0.595	0.529	0.529
132.5	1.190	0.991	0.793	0.661	0.595	0.595	0.595
135.0	1.255	1.058	0.859	0.727	0.661	0.661	0.661
137.5	1.388	1.190	0.925	0.859	0.727	0.727	0.661
140.0	1.520	1.322	1.124	0.991	0.925	0.859	0.793
142.5	1.718	1.520	1.322	1.124	1.058	0.991	0.925
145.0	1.983	1.784	1.520	1.388	1.255	1.255	1.190
147.5	2.313	2.115	1.917	1.718	1.652	1.652	1.587
150.0	2.776	2.578	2.512	2.313	2.313	2.181	2.181
152.5	3.437	3.437	3.172	3.106	3.106	2.974	3.041
155.0	4.560	4.560	4.494	4.429	4.429	4.362	4.429
157.5	6.014	6.147	6.279	6.014	6.147	6.014	6.080
160.0	7.601	7.865	7.931	7.865	7.997	7.931	8.063
162.5	9.055	9.385	9.518	9.518	9.781	9.584	9.781
165.0	9.914	10.113	10.244	10.443	10.509	10.575	10.641
167.5	10.244	10.509	10.641	10.839	10.905	11.104	11.104
170.0	10.443	10.707	10.839	10.972	11.169	11.236	11.368
172.5	10.443	10.641	10.773	10.972	11.104	11.236	11.368
175.0	10.244	10.443	10.575	10.707	10.839	10.972	11.104
177.5	9.781	9.914	9.980	10.178	10.178	10.377	10.443
180.0	9.405	9.405	9.405	9.405	9.405	9.405	9.405

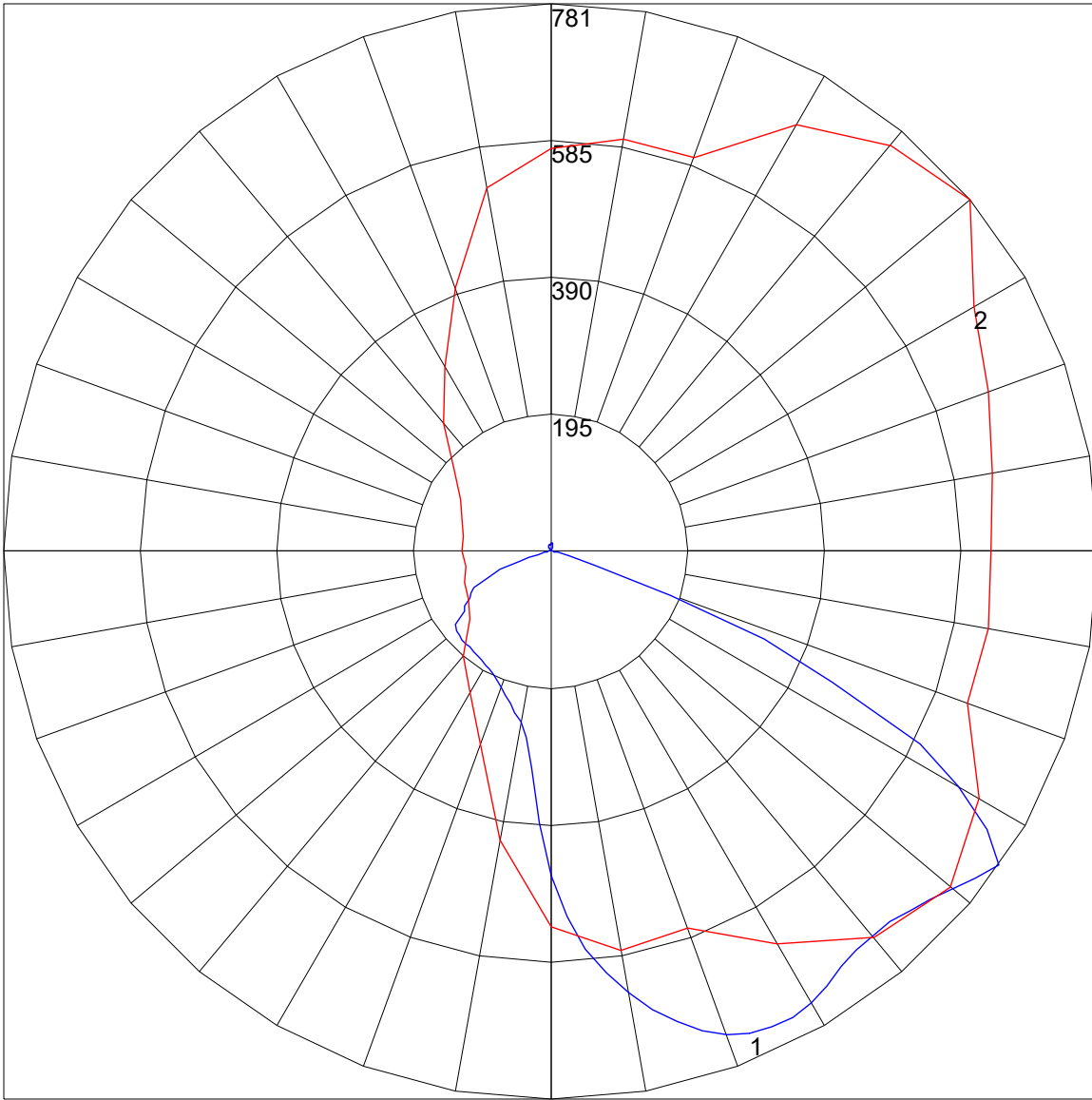
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

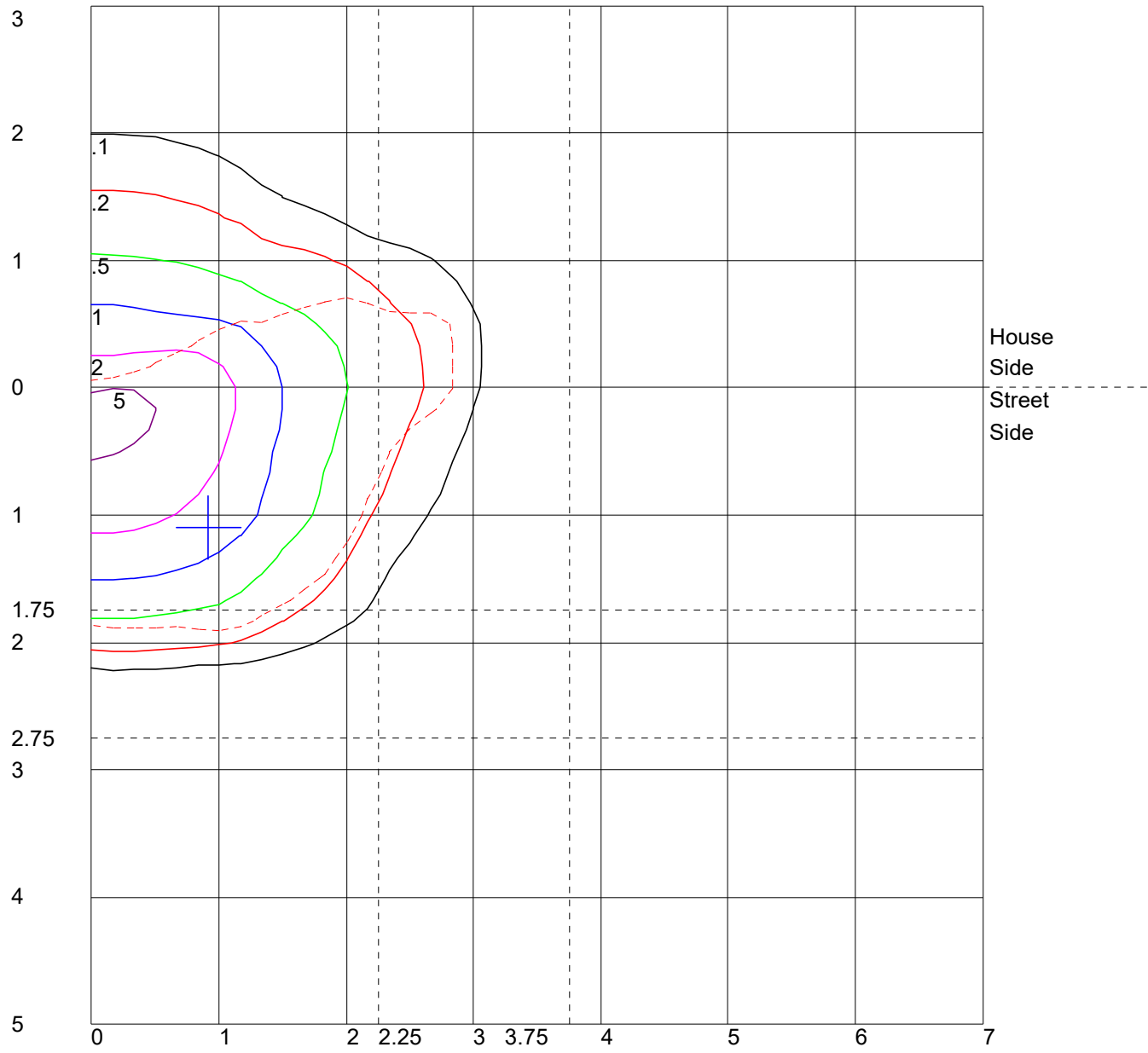
	Lumens	Percent Of Luminaire
Downward Street Side	1324.1	69.7
Downward House Side	563.3	29.6
Downward Total	1887.4	99.3
Upward Street Side	5.4	0.3
Upward House Side	8.1	0.4
Upward Total	13.5	0.7
Total Flux	1900.9	100.0

POLAR GRAPH



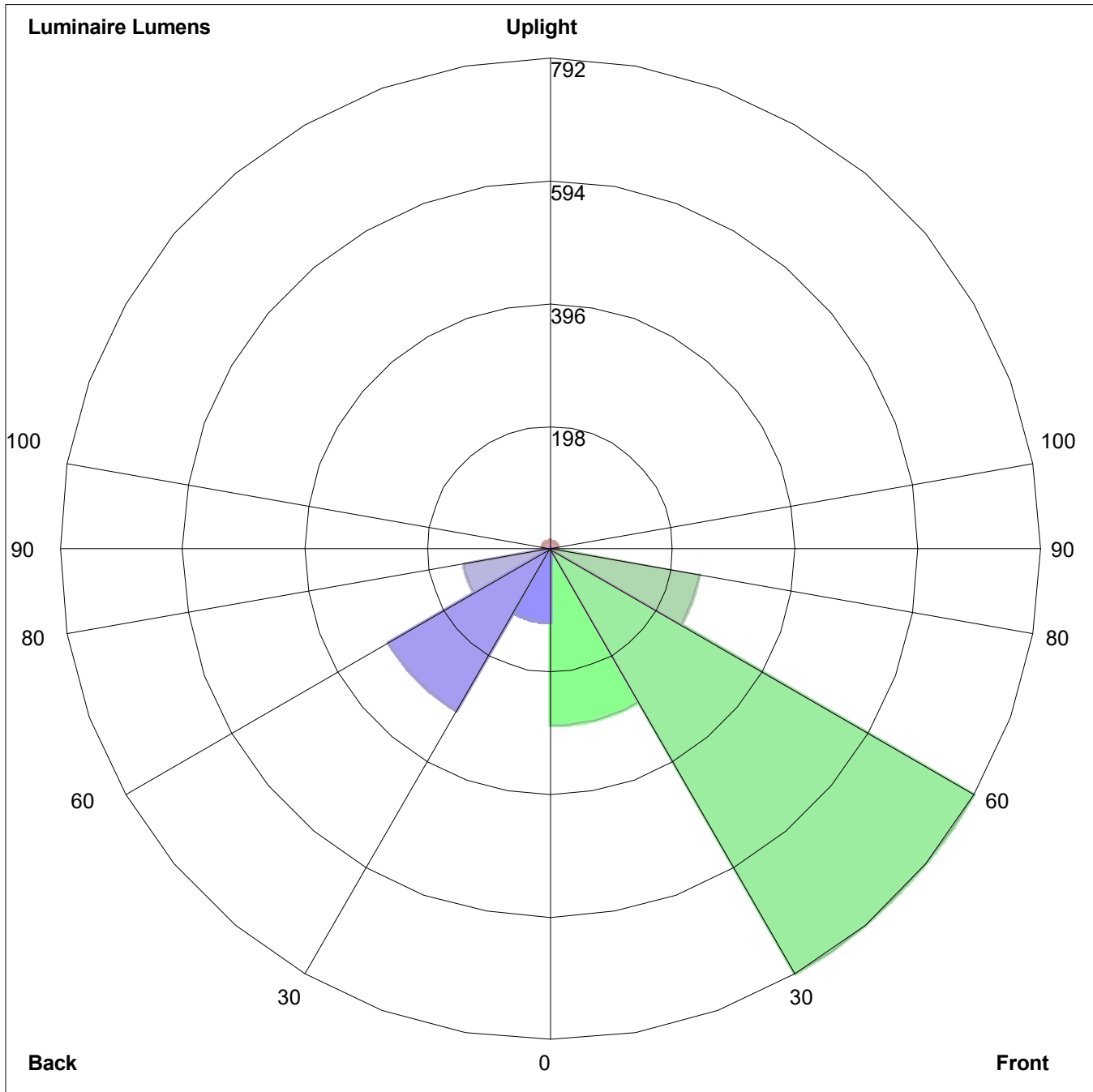
Maximum Candela = 780.627 Located At Horizontal Angle = 40, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

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=285.6, Medium=792.4, High=244.3, Very High=1.8
Back: Low=118.1, Medium=300.8, High=141.3, Very High=3.0
Uplight: Low=1.0, High=12.5

BUG Rating : B1-U2-G1