



IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QC1X37U5KC.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] Q2016041603
[TESTLAB] QSSI
[ISSUEDATE] 04/16/2016
[MANUFAC] DURAGUARD
[LUMCAT] KH15QC1X37U5KC
[LUMINAIRE] KH15 WITH ONE 37W QSSI LED ARRAY, TYPE III OPTICS
[LAMPCAT] SAMSUNG 351B LEDs
[LAMP] 24 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	3450
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	41.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	1370.332
Maximum Candela Angle	40H 55V
Maximum Candela (<90 Degrees Vertical)	1370.332
Maximum Candela Angle (<90 Degrees Vertical)	40H 55V
Maximum Candela At 90 Degrees Vertical	3.395 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	159.707 (4.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	478.9	N.A.	13.9
FM - Front-Medium (30-60)	1425.3	N.A.	41.3
FH - Front-High (60-80)	486.4	N.A.	14.1
FVH - Front-Very High (80-90)	3.4	N.A.	0.1
BL - Back-Low (0-30)	209.9	N.A.	6.1
BM - Back-Medium (30-60)	553.3	N.A.	16.0
BH - Back-High (60-80)	262.7	N.A.	7.6
BVH - Back-Very High (80-90)	6.1	N.A.	0.2
UL - Uplight-Low (90-100)	2.1	N.A.	0.1
UH - Uplight-High (100-180)	22.0	N.A.	0.6
Total	3450.1	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	656.526	656.526	656.526	656.526	656.526	656.526	656.526	656.526	656.526	656.526
2.5	788.351	798.464	796.369	789.073	779.033	750.140	739.016	713.156	687.875	674.801
5.0	911.942	921.404	920.898	903.635	876.620	843.392	820.711	780.622	742.339	698.638
7.5	997.827	1009.095	1015.885	990.387	961.999	919.237	890.127	842.598	784.306	728.036
10.0	1064.064	1076.633	1079.305	1057.997	1037.555	983.597	950.008	900.457	830.246	761.119
12.5	1120.334	1134.708	1139.042	1117.300	1093.824	1040.516	1013.573	956.437	878.064	792.685
15.0	1166.346	1182.815	1191.194	1169.885	1148.721	1092.380	1068.976	1008.445	924.727	822.445
17.5	1205.713	1223.193	1235.834	1213.875	1195.673	1141.354	1116.794	1055.324	969.295	850.760
20.0	1240.891	1260.032	1275.996	1251.509	1241.757	1186.282	1163.385	1099.820	1009.167	878.859
22.5	1273.757	1292.609	1307.562	1284.230	1271.662	1226.877	1208.025	1139.837	1046.150	907.824
25.0	1298.966	1315.724	1328.437	1307.634	1299.616	1264.511	1246.958	1179.420	1082.917	934.984
27.5	1333.927	1341.222	1344.834	1323.742	1318.397	1292.465	1277.152	1212.864	1114.266	959.615
30.0	1370.043	1361.520	1360.725	1331.182	1326.920	1307.056	1300.122	1232.078	1141.715	983.741
32.5	1359.931	1363.976	1349.312	1326.992	1328.220	1322.153	1316.591	1259.743	1168.730	1009.239
35.0	1317.891	1334.649	1327.859	1316.735	1320.058	1329.159	1327.787	1280.980	1194.084	1037.844
37.5	1278.091	1323.164	1308.790	1297.305	1307.634	1333.493	1334.938	1298.099	1216.259	1070.999
40.0	1264.222	1320.058	1298.532	1280.763	1297.594	1327.137	1339.922	1304.528	1233.306	1104.876
42.5	1257.865	1319.841	1300.049	1274.334	1291.743	1320.708	1338.044	1308.501	1248.547	1139.981
45.0	1265.811	1317.530	1304.817	1279.463	1291.670	1313.557	1330.315	1309.295	1261.838	1167.502
47.5	1274.623	1324.464	1327.642	1292.609	1292.537	1307.634	1323.814	1306.117	1271.373	1182.526
50.0	1187.727	1245.152	1335.733	1318.035	1307.345	1311.607	1312.618	1298.894	1247.753	1169.813
52.5	1068.615	1106.609	1202.535	1325.837	1335.949	1318.469	1293.043	1195.456	1116.361	1040.516
55.0	1125.607	1168.730	1146.193	1202.029	1370.332	1330.893	1171.836	1082.845	1092.307	1032.354
57.5	1039.505	1097.291	1165.985	1182.165	1286.614	1262.272	1081.906	1063.197	1092.596	1035.027
60.0	938.957	1006.278	1083.712	1150.888	1166.852	1149.299	1071.865	1038.999	1086.312	1034.521
62.5	733.887	830.318	944.808	1065.870	1005.989	1040.733	1051.207	999.632	1060.958	1032.498
65.0	405.949	471.609	674.151	905.441	837.903	833.713	996.093	950.731	1018.919	1027.153
67.5	108.133	159.924	311.035	588.338	695.026	709.328	819.050	836.819	832.269	918.876
70.0	50.274	66.454	88.558	220.166	488.295	542.542	484.394	606.468	712.217	802.364
72.5	24.920	34.383	41.823	85.090	208.753	341.012	324.471	474.210	609.069	739.088
75.0	10.113	13.580	21.453	34.889	77.073	182.750	196.546	250.937	371.494	508.665
77.5	5.923	6.284	6.862	9.679	33.877	66.816	83.285	113.839	225.511	353.869
80.0	3.901	4.117	4.478	4.623	5.562	17.986	22.898	40.450	102.571	159.707
82.5	2.673	2.817	2.889	3.323	3.756	4.190	4.912	6.357	8.451	17.336
85.0	1.589	1.661	1.878	2.095	2.456	2.817	3.539	4.190	4.912	6.429
87.5	0.722	0.795	0.867	0.939	1.083	1.228	1.806	2.311	3.250	4.695
90.0	0.722	0.795	0.795	0.867	0.939	1.011	1.300	1.517	1.806	2.528
92.5	0.650	0.795	0.867	0.867	1.011	1.083	1.372	1.661	1.878	2.673
95.0	0.722	0.722	0.795	0.795	0.939	1.156	1.372	1.734	2.023	2.817
97.5	0.722	0.722	0.795	0.867	1.011	1.228	1.445	1.806	2.167	2.962
100.0	0.795	0.722	0.795	0.867	0.939	1.156	1.517	1.878	2.239	2.962
102.5	0.795	0.795	0.722	0.867	1.011	1.228	1.589	1.878	2.311	3.034
105.0	0.795	0.722	0.795	0.867	1.011	1.228	1.589	1.950	2.311	3.034
107.5	0.795	0.795	0.795	0.867	1.011	1.228	1.589	1.950	2.311	3.034
110.0	0.795	0.795	0.795	0.867	1.011	1.228	1.589	1.950	2.311	3.034
112.5	0.795	0.795	0.795	0.867	0.939	1.228	1.589	2.023	2.311	3.034
115.0	0.795	0.795	0.795	0.867	1.011	1.300	1.589	2.023	2.311	3.034
117.5	0.795	0.795	0.722	0.795	0.939	1.300	1.589	1.950	2.311	2.962
120.0	0.795	0.795	0.795	0.867	1.011	1.228	1.517	1.950	2.311	2.889
122.5	0.867	0.795	0.795	0.867	1.011	1.228	1.517	1.950	2.384	2.962
125.0	0.939	0.867	0.867	0.867	1.011	1.228	1.661	2.023	2.384	2.962
127.5	0.939	0.939	0.939	0.939	1.083	1.300	1.661	2.095	2.456	2.962
130.0	1.011	1.011	1.011	1.011	1.156	1.372	1.806	2.239	2.600	3.106

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CANDELA TABULATION - (Cont.)

132.5	1.156	1.083	1.083	1.156	1.228	1.517	1.878	2.384	2.745	3.250
135.0	1.156	1.228	1.228	1.300	1.372	1.661	2.023	2.456	2.817	3.323
137.5	1.300	1.300	1.300	1.372	1.517	1.734	2.167	2.528	2.889	3.395
140.0	1.517	1.445	1.517	1.661	1.806	2.095	2.311	2.745	3.106	3.612
142.5	1.734	1.734	1.806	1.878	2.095	2.384	2.673	3.034	3.395	3.973
145.0	2.095	2.167	2.239	2.384	2.600	2.817	3.178	3.467	3.828	4.262
147.5	2.600	2.745	2.817	2.962	3.106	3.395	3.684	4.045	4.262	4.623
150.0	3.539	3.756	3.684	3.901	3.973	4.262	4.478	4.840	5.129	5.129
152.5	4.912	4.984	4.984	5.417	5.345	5.562	5.779	6.068	6.212	6.140
155.0	7.223	7.079	7.296	7.296	7.584	7.801	7.873	8.162	8.162	9.390
157.5	10.040	9.896	10.040	10.040	10.257	10.402	10.402	10.257	10.402	13.219
160.0	13.291	13.219	13.363	13.219	13.435	13.219	13.291	13.363	13.002	15.819
162.5	16.325	16.180	16.325	16.180	16.180	16.180	15.891	15.458	15.241	17.553
165.0	17.842	17.842	17.914	17.842	17.842	17.697	17.408	16.975	16.541	18.275
167.5	18.636	18.708	18.708	18.636	18.564	18.347	18.130	17.697	17.191	18.708
170.0	19.070	19.070	19.070	18.997	18.925	18.636	18.347	18.058	17.553	18.708
172.5	18.997	19.070	19.070	18.997	18.781	18.636	18.419	18.058	17.697	17.986
175.0	18.564	18.636	18.708	18.564	18.419	18.275	18.058	17.842	17.553	16.469
177.5	17.625	17.769	17.842	17.769	17.697	17.553	17.553	17.336	17.191	15.675
180.0	15.950	15.950	15.950	15.950	15.950	15.950	15.950	15.950	15.950	15.950

Vert. Angles **Horizontal Angles**

	100	110	120	130	140	150	160	170	180	190
0.0	656.526	656.526	656.526	656.526	656.526	656.526	656.526	656.526	656.526	656.526
2.5	651.758	625.899	606.902	596.356	578.947	570.930	561.828	561.034	559.228	555.761
5.0	648.074	601.701	570.930	554.894	534.813	524.628	516.394	513.721	512.638	510.398
7.5	652.770	585.593	545.287	523.039	508.737	494.941	489.017	483.672	483.528	481.072
10.0	662.304	574.830	528.312	504.114	487.212	472.332	465.975	460.630	460.919	458.102
12.5	675.595	570.496	515.527	487.862	466.842	453.334	446.472	440.910	441.416	438.743
15.0	690.331	569.918	505.703	473.993	454.201	436.360	429.859	423.574	424.224	421.407
17.5	706.583	572.158	498.335	463.086	440.694	421.624	414.473	407.900	408.622	405.516
20.0	724.208	576.492	492.123	454.490	429.136	408.694	401.038	394.753	396.559	393.309
22.5	742.844	584.365	488.367	446.689	419.385	398.437	389.769	384.352	387.241	385.435
25.0	763.214	594.911	488.078	441.633	411.728	390.347	380.451	376.767	380.090	376.334
27.5	782.283	607.552	490.029	438.960	406.383	385.219	372.867	369.833	372.578	371.639
30.0	802.870	619.254	493.207	437.443	401.327	379.440	367.160	362.899	366.149	364.632
32.5	826.851	631.750	497.974	437.010	398.726	374.456	362.465	356.903	360.804	358.998
35.0	851.555	645.474	502.525	437.226	397.498	374.167	359.359	353.725	356.687	352.353
37.5	878.353	660.715	509.821	437.588	397.932	373.372	357.770	351.558	352.858	339.206
40.0	899.518	675.595	518.200	440.910	400.460	373.445	356.687	348.669	347.730	327.216
42.5	927.544	687.586	525.206	444.594	402.482	374.456	354.158	345.635	333.283	326.638
45.0	951.814	701.093	532.574	450.445	406.022	373.950	352.858	342.962	332.272	302.440
47.5	971.317	712.795	538.425	455.501	407.250	373.950	350.763	334.800	295.289	278.603
50.0	985.908	723.125	542.903	458.752	407.466	372.650	312.552	274.558	252.382	219.516
52.5	887.671	697.843	546.009	459.041	405.661	334.078	284.020	269.212	239.091	214.532
55.0	873.080	628.788	513.216	455.574	392.297	296.228	277.014	262.784	226.017	231.001
57.5	879.726	628.499	460.052	433.615	316.236	285.682	269.140	256.716	218.649	219.733
60.0	881.459	622.648	451.745	357.409	301.501	273.980	260.400	248.120	216.627	217.927
62.5	880.665	611.091	432.315	278.747	278.675	259.967	248.698	235.046	197.485	223.995
65.0	876.764	594.116	405.372	257.872	228.040	239.091	229.629	217.421	181.377	182.894
67.5	826.634	562.551	309.446	230.351	199.869	210.631	201.602	194.524	167.942	163.319
70.0	682.530	439.104	249.998	196.546	169.531	153.278	129.297	123.374	115.645	116.151
72.5	641.862	380.307	176.610	148.656	129.369	94.336	102.426	98.020	79.962	82.996
75.0	494.796	246.459	127.202	92.675	68.694	68.549	70.427	66.888	53.886	55.619
77.5	338.412	124.385	67.755	47.457	40.956	41.101	29.977	29.327	23.909	24.415

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CANDELA TABULATION - (Cont.)

80.0	159.346	53.236	30.627	26.582	18.708	18.781	16.108	17.047	12.569	15.169
82.5	25.498	15.169	13.363	10.618	9.896	8.451	8.307	7.440	7.079	7.657
85.0	6.790	6.862	6.429	6.501	6.212	6.068	5.923	5.490	5.562	5.634
87.5	5.056	5.201	5.056	5.129	5.201	4.984	4.840	4.695	4.623	4.695
90.0	2.745	3.034	3.323	3.250	3.395	3.250	3.178	2.962	2.889	2.962
92.5	2.889	2.889	2.889	2.745	2.600	2.384	2.023	1.878	1.806	1.878
95.0	3.034	3.106	3.034	2.962	2.745	2.528	2.239	2.095	2.023	2.095
97.5	3.178	3.323	3.250	3.106	2.962	2.745	2.456	2.311	2.167	2.239
100.0	3.250	3.395	3.467	3.323	3.106	2.889	2.528	2.456	2.384	2.384
102.5	3.323	3.467	3.539	3.395	3.250	3.106	2.745	2.600	2.528	2.600
105.0	3.323	3.539	3.539	3.539	3.323	3.178	2.889	2.745	2.673	2.745
107.5	3.323	3.539	3.612	3.539	3.395	3.178	2.962	2.817	2.817	2.817
110.0	3.323	3.539	3.612	3.612	3.395	3.250	3.034	2.962	2.962	2.962
112.5	3.323	3.539	3.612	3.539	3.395	3.250	3.034	3.034	3.034	3.034
115.0	3.250	3.467	3.539	3.539	3.395	3.178	3.034	3.034	3.034	3.034
117.5	3.250	3.467	3.539	3.467	3.323	3.178	3.034	2.962	3.034	3.034
120.0	3.178	3.395	3.467	3.395	3.323	3.106	2.962	2.962	2.962	2.962
122.5	3.178	3.395	3.467	3.395	3.323	3.178	3.034	2.962	3.034	3.034
125.0	3.250	3.467	3.467	3.467	3.395	3.250	3.178	3.106	3.106	3.106
127.5	3.323	3.539	3.612	3.612	3.539	3.467	3.323	3.250	3.250	3.323
130.0	3.467	3.756	3.828	3.828	3.828	3.684	3.539	3.467	3.539	3.539
132.5	3.539	3.901	4.045	4.045	4.045	3.973	3.901	3.828	3.901	3.901
135.0	3.684	3.973	4.190	4.262	4.334	4.334	4.334	4.262	4.262	4.262
137.5	3.828	4.045	4.334	4.406	4.623	4.623	4.623	4.623	4.623	4.623
140.0	4.045	4.334	4.551	4.767	4.840	4.984	5.056	5.056	5.056	5.056
142.5	4.262	4.551	4.767	4.984	5.201	5.345	5.345	5.345	5.417	5.490
145.0	4.551	4.840	5.129	5.345	5.490	5.634	5.706	5.779	5.923	5.995
147.5	4.984	5.201	5.417	5.706	5.923	5.995	6.140	6.284	6.357	6.357
150.0	5.417	5.706	5.923	6.212	6.357	6.573	6.645	6.790	6.934	6.862
152.5	6.212	6.645	6.718	7.079	7.007	7.296	7.296	7.584	7.657	7.584
155.0	9.029	9.318	9.101	9.463	9.390	9.607	9.535	9.390	9.679	9.607
157.5	12.569	12.280	11.991	11.991	11.918	11.991	11.991	11.991	12.135	12.063
160.0	14.736	14.519	14.013	13.652	13.652	13.580	13.580	13.508	13.652	13.652
162.5	16.758	16.108	15.602	15.169	15.024	14.808	14.663	14.447	14.230	14.663
165.0	17.625	17.047	16.469	16.036	15.675	15.458	15.169	14.808	14.374	14.808
167.5	18.058	17.553	17.047	16.614	16.325	15.891	15.386	15.024	14.663	15.024
170.0	18.203	17.697	17.191	16.686	16.180	15.602	15.241	14.880	14.736	14.880
172.5	17.625	17.047	16.397	15.891	15.313	14.880	14.519	14.302	14.374	14.519
175.0	15.963	15.675	15.313	14.880	14.663	14.519	14.302	14.158	14.230	14.374
177.5	15.458	15.241	15.024	14.952	14.736	14.736	14.663	14.591	14.519	14.591
180.0	15.950	15.950	15.950	15.950	15.950	15.950	15.950	15.950	15.950	15.950

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	656.526	656.526	656.526	656.526	656.526	656.526	656.526	656.526	656.526	656.526
2.5	563.779	563.490	571.435	576.419	592.816	605.890	623.732	657.176	683.252	703.044
5.0	515.382	517.333	523.906	533.657	551.138	573.458	607.841	665.483	718.935	762.130
7.5	484.322	487.573	494.652	507.870	523.906	551.210	602.929	685.202	763.286	820.350
10.0	460.196	464.675	473.054	489.234	504.331	536.041	602.207	710.628	809.299	871.997
12.5	440.188	445.172	454.490	474.354	490.029	527.518	608.274	738.799	853.433	925.810
15.0	422.635	427.547	438.454	460.269	479.483	523.184	616.364	766.248	895.256	976.807
17.5	407.033	412.306	424.875	449.578	471.393	520.511	627.921	793.407	936.645	1024.480
20.0	393.598	399.810	413.678	440.838	465.181	523.400	641.646	820.278	974.423	1066.881
22.5	383.052	389.769	404.722	433.254	461.569	526.001	658.115	847.438	1009.023	1105.598
25.0	375.034	382.763	397.932	427.908	460.991	533.080	678.773	875.031	1041.961	1139.403

IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QC1X37U5KC.IES

CANDELA TABULATION - (Cont.)

27.5	369.544	378.645	392.731	424.586	461.786	542.036	699.938	902.118	1076.272	1169.524
30.0	364.921	373.661	388.325	422.563	463.014	552.727	718.935	928.338	1100.181	1197.840
32.5	358.637	363.043	386.447	420.035	465.686	564.067	744.794	954.848	1127.846	1221.821
35.0	347.441	364.632	378.718	418.446	468.648	575.769	762.203	980.274	1156.811	1243.274
37.5	328.010	341.084	374.817	418.446	473.271	588.554	784.812	1009.023	1184.477	1261.983
40.0	331.188	323.170	375.539	404.144	480.061	600.040	812.910	1035.966	1205.063	1274.551
42.5	316.742	312.335	341.445	401.399	485.622	611.452	831.546	1061.031	1224.205	1278.524
45.0	284.237	310.819	306.629	395.476	492.340	623.154	854.227	1085.445	1240.891	1279.319
47.5	277.591	285.104	324.543	369.472	469.803	635.361	878.570	1106.104	1257.504	1281.052
50.0	224.428	289.076	318.042	353.147	468.864	647.641	899.012	1120.045	1263.861	1278.668
52.5	215.254	230.423	301.717	347.080	471.393	653.492	884.493	1023.397	1177.976	1243.346
55.0	216.844	198.785	311.830	340.073	455.501	588.049	784.812	968.789	1075.549	1077.355
57.5	204.347	215.616	222.550	352.786	371.783	538.858	792.540	976.012	1067.893	1045.645
60.0	232.807	217.494	235.769	287.849	370.555	528.384	797.886	980.130	1053.085	1025.347
62.5	224.500	234.974	203.625	190.045	343.251	513.721	796.224	980.635	1035.099	990.026
65.0	215.832	220.166	181.377	193.296	307.568	490.101	786.184	963.805	1002.666	935.851
67.5	193.440	186.795	137.748	168.592	233.746	435.059	761.119	885.432	898.001	837.253
70.0	124.024	156.240	129.947	152.339	191.129	350.908	593.828	744.433	705.355	607.552
72.5	98.454	84.079	101.849	104.304	121.351	278.819	562.262	686.575	607.407	469.803
75.0	68.838	61.904	64.504	69.199	93.181	166.931	433.687	458.391	394.103	255.849
77.5	31.132	40.089	39.873	33.661	63.204	84.729	284.598	317.392	247.326	119.257
80.0	16.614	18.636	17.697	18.997	26.726	37.633	128.575	117.668	95.564	40.089
82.5	7.946	7.657	8.162	8.379	11.341	11.341	23.403	9.535	8.596	6.501
85.0	5.851	5.562	5.490	5.490	5.779	6.140	6.790	5.779	5.129	4.551
87.5	4.840	4.695	4.551	4.478	4.406	4.695	4.912	3.901	3.106	2.311
90.0	3.178	2.962	2.889	2.673	2.673	2.600	2.456	2.095	1.878	1.589
92.5	2.023	2.167	2.239	2.384	2.528	2.600	2.528	2.239	2.023	1.734
95.0	2.167	2.311	2.456	2.528	2.745	2.745	2.745	2.384	2.167	1.806
97.5	2.384	2.456	2.600	2.745	2.889	2.962	2.889	2.456	2.239	1.878
100.0	2.528	2.673	2.745	2.889	3.034	3.106	2.962	2.600	2.239	1.878
102.5	2.673	2.745	2.962	3.034	3.178	3.250	3.106	2.600	2.311	2.023
105.0	2.745	2.889	3.034	3.178	3.323	3.323	3.178	2.673	2.384	2.023
107.5	2.889	3.034	3.106	3.178	3.323	3.395	3.250	2.600	2.384	2.095
110.0	2.962	3.034	3.178	3.323	3.395	3.467	3.323	2.673	2.456	2.095
112.5	3.034	3.106	3.178	3.323	3.467	3.467	3.323	2.745	2.456	2.095
115.0	3.034	3.106	3.250	3.395	3.467	3.467	3.323	2.745	2.456	2.095
117.5	3.034	3.106	3.178	3.323	3.467	3.467	3.250	2.745	2.528	2.167
120.0	2.962	3.106	3.250	3.323	3.395	3.395	3.178	2.817	2.528	2.167
122.5	3.106	3.178	3.250	3.323	3.395	3.395	3.250	2.889	2.528	2.167
125.0	3.178	3.250	3.323	3.467	3.467	3.467	3.323	2.962	2.600	2.239
127.5	3.395	3.395	3.539	3.539	3.612	3.539	3.323	3.178	2.745	2.311
130.0	3.612	3.684	3.756	3.756	3.756	3.684	3.467	3.178	2.817	2.384
132.5	3.901	3.973	3.973	3.973	3.973	3.828	3.612	3.323	2.889	2.456
135.0	4.262	4.334	4.334	4.262	4.190	3.973	3.756	3.395	2.962	2.528
137.5	4.623	4.623	4.623	4.551	4.334	4.190	3.973	3.539	3.106	2.673
140.0	4.984	4.984	4.912	4.840	4.695	4.478	4.190	3.684	3.323	2.889
142.5	5.417	5.345	5.273	5.201	4.984	4.695	4.478	3.973	3.612	3.178
145.0	5.851	5.779	5.634	5.490	5.273	5.056	4.767	4.334	3.901	3.612
147.5	6.284	6.284	6.068	5.995	5.706	5.490	5.273	4.767	4.406	4.045
150.0	6.862	6.790	6.645	6.501	6.284	5.995	5.779	5.417	5.056	4.840
152.5	7.657	7.512	7.512	7.368	7.296	7.079	7.079	6.429	6.140	5.923
155.0	9.751	9.679	9.896	9.751	10.040	9.968	10.474	8.018	7.801	7.801
157.5	12.207	12.207	12.496	12.641	13.002	13.074	13.724	9.679	9.751	9.751
160.0	13.652	13.869	14.013	14.302	14.736	15.313	15.891	12.207	12.280	12.352
162.5	14.880	15.097	15.386	15.819	16.252	16.903	17.553	14.085	14.591	14.880
165.0	15.386	15.819	16.180	16.614	16.975	17.697	18.347	15.313	15.819	16.325

IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QC1X37U5KC.IES

CANDELA TABULATION - (Cont.)

167.5	15.458	16.108	16.614	17.119	17.625	18.203	18.781	16.036	16.469	16.903
170.0	15.097	15.819	16.614	17.191	17.842	18.275	18.853	16.325	16.758	17.191
172.5	14.663	14.952	15.602	16.252	16.975	17.480	18.058	16.469	16.903	17.264
175.0	14.519	14.591	14.880	15.313	15.747	16.180	16.614	16.397	16.686	17.047
177.5	14.736	14.952	15.097	15.241	15.458	15.819	16.036	16.036	16.252	16.469
180.0	15.950	15.950	15.950	15.950	15.950	15.950	15.950	15.950	15.950	15.950

Vert. Horizontal Angles
Angles

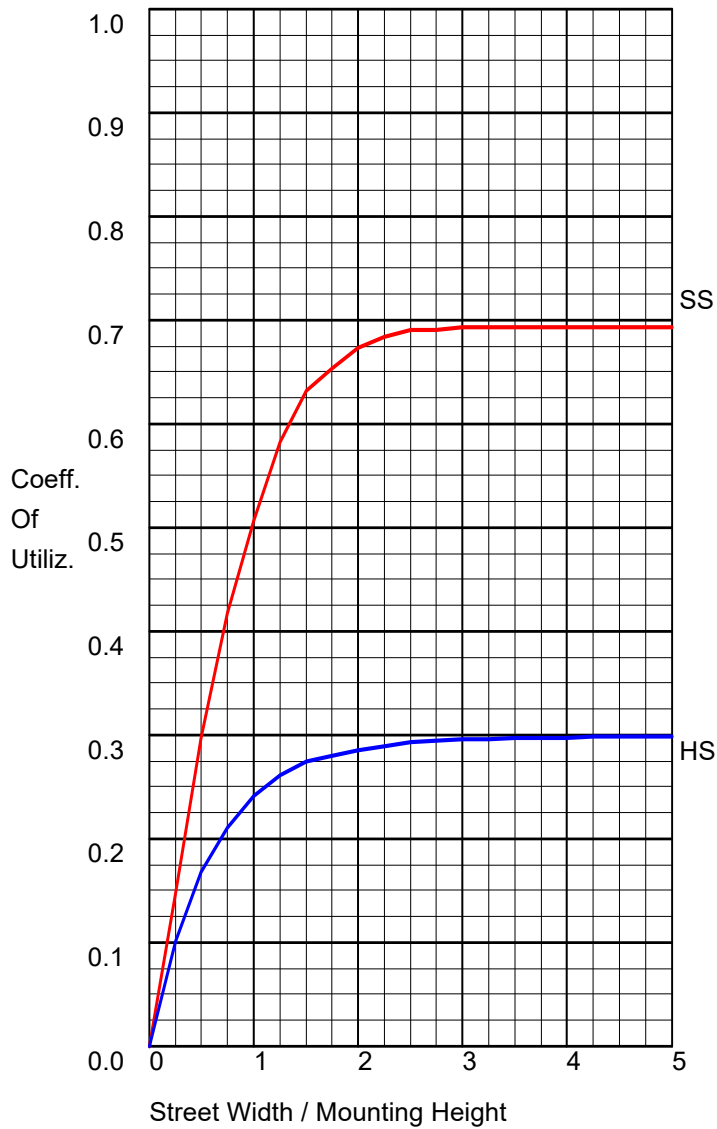
	300	310	320	330	340	350	360
0.0	656.526	656.526	656.526	656.526	656.526	656.526	656.526
2.5	725.580	754.329	763.936	784.378	790.662	806.337	788.351
5.0	805.037	846.715	869.541	898.001	921.115	931.661	911.942
7.5	873.730	926.605	949.503	982.513	1000.355	1019.641	997.827
10.0	935.634	985.547	1013.068	1049.184	1067.965	1087.973	1064.064
12.5	993.348	1043.695	1068.615	1108.921	1127.196	1146.410	1120.334
15.0	1047.234	1095.702	1118.456	1161.651	1175.520	1193.867	1166.346
17.5	1097.002	1141.209	1163.312	1206.074	1215.465	1235.473	1205.713
20.0	1140.631	1173.642	1200.946	1243.274	1251.942	1266.389	1240.891
22.5	1177.181	1208.241	1230.922	1271.734	1284.086	1304.022	1273.757
25.0	1207.736	1238.796	1257.360	1288.709	1304.456	1324.897	1298.966
27.5	1236.918	1259.816	1279.824	1301.494	1319.769	1353.213	1333.927
30.0	1262.344	1276.213	1291.815	1308.501	1333.566	1365.492	1370.043
32.5	1281.052	1287.047	1294.921	1306.623	1324.247	1363.398	1359.931
35.0	1289.648	1295.860	1295.860	1297.016	1305.539	1340.211	1317.891
37.5	1299.399	1300.483	1292.609	1281.485	1289.142	1321.792	1278.091
40.0	1307.706	1299.833	1292.321	1265.233	1279.896	1316.085	1264.222
42.5	1309.440	1296.582	1284.664	1257.721	1278.813	1319.191	1257.865
45.0	1305.756	1290.154	1281.919	1262.416	1281.702	1322.153	1265.811
47.5	1298.171	1287.336	1284.303	1275.201	1302.289	1333.782	1274.623
50.0	1293.765	1294.487	1294.415	1304.383	1313.557	1264.222	1187.727
52.5	1280.547	1306.550	1318.108	1321.792	1194.878	1131.096	1068.615
55.0	1219.943	1325.114	1352.274	1216.693	1131.819	1181.154	1125.607
57.5	1062.331	1315.002	1292.031	1166.996	1157.462	1119.106	1039.505
60.0	1043.550	1156.667	1171.402	1148.794	1084.073	1009.384	938.957
62.5	1018.413	1027.875	1029.754	1062.981	958.171	836.169	733.887
65.0	961.927	832.630	830.968	908.763	698.276	516.105	405.949
67.5	800.053	703.260	689.320	625.393	336.245	167.219	108.133
70.0	508.954	551.282	504.836	250.721	95.781	68.188	50.274
72.5	331.911	338.412	253.899	91.014	43.918	36.044	24.920
75.0	210.270	178.993	86.102	34.022	22.176	13.724	10.113
77.5	92.964	62.120	32.649	10.546	6.573	6.284	5.923
80.0	24.704	15.458	8.885	4.623	4.406	4.045	3.901
82.5	5.273	4.262	3.756	3.250	3.034	2.817	2.673
85.0	3.612	2.962	2.384	1.950	1.806	1.734	1.589
87.5	1.661	1.228	0.939	0.795	0.795	0.722	0.722
90.0	1.300	1.083	0.867	0.795	0.795	0.722	0.722
92.5	1.372	1.083	0.867	0.795	0.722	0.722	0.650
95.0	1.445	1.156	0.939	0.795	0.722	0.722	0.722
97.5	1.517	1.156	0.939	0.795	0.722	0.722	0.722
100.0	1.589	1.156	0.939	0.795	0.722	0.722	0.795
102.5	1.589	1.300	0.939	0.867	0.795	0.722	0.795
105.0	1.661	1.300	1.083	0.939	0.867	0.795	0.795
107.5	1.661	1.300	1.083	0.939	0.795	0.795	0.795
110.0	1.661	1.372	1.083	0.939	0.867	0.867	0.795
112.5	1.734	1.372	1.156	1.011	0.867	0.867	0.795

IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QC1X37U5KC.IES

CANDELA TABULATION - (Cont.)

115.0	1.734	1.372	1.156	1.011	0.867	0.867	0.795
117.5	1.734	1.445	1.156	1.011	0.939	0.867	0.795
120.0	1.734	1.372	1.156	1.011	0.939	0.867	0.795
122.5	1.734	1.445	1.156	1.083	1.011	0.867	0.867
125.0	1.806	1.445	1.228	1.083	1.011	0.939	0.939
127.5	1.878	1.517	1.300	1.083	1.011	1.011	0.939
130.0	1.950	1.589	1.300	1.228	1.083	1.083	1.011
132.5	2.023	1.734	1.445	1.372	1.228	1.156	1.156
135.0	2.167	1.806	1.589	1.445	1.300	1.228	1.156
137.5	2.311	1.950	1.734	1.517	1.445	1.372	1.300
140.0	2.528	2.239	1.950	1.734	1.661	1.517	1.517
142.5	2.889	2.528	2.239	1.950	1.806	1.734	1.734
145.0	3.250	2.889	2.600	2.311	2.311	2.167	2.095
147.5	3.684	3.467	3.106	2.962	2.817	2.745	2.600
150.0	4.478	4.190	3.901	3.756	3.684	3.684	3.539
152.5	5.779	5.417	5.201	5.129	4.984	4.984	4.912
155.0	7.512	7.296	7.296	7.223	7.223	7.368	7.223
157.5	9.896	10.040	9.968	9.896	9.968	9.896	10.040
160.0	12.713	12.713	13.146	13.074	13.291	13.146	13.291
162.5	15.241	15.530	15.963	15.963	16.180	16.108	16.325
165.0	16.686	17.047	17.336	17.553	17.769	17.769	17.842
167.5	17.336	17.769	17.986	18.203	18.419	18.564	18.636
170.0	17.625	17.986	18.203	18.564	18.708	18.925	19.070
172.5	17.625	18.058	18.275	18.492	18.781	18.853	18.997
175.0	17.336	17.553	17.842	17.986	18.275	18.419	18.564
177.5	16.614	16.830	16.975	17.119	17.336	17.553	17.625
180.0	15.950	15.950	15.950	15.950	15.950	15.950	15.950

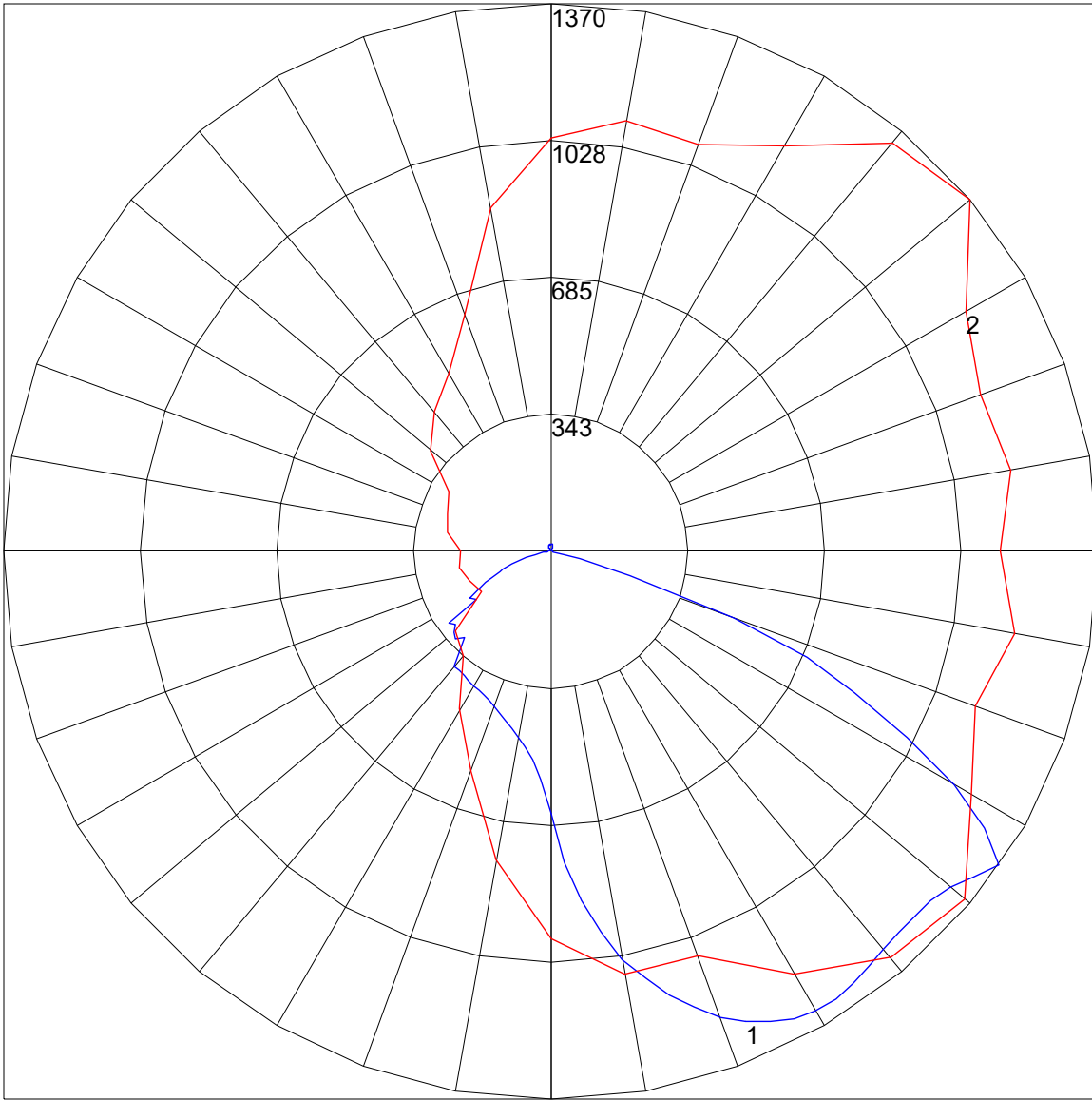
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

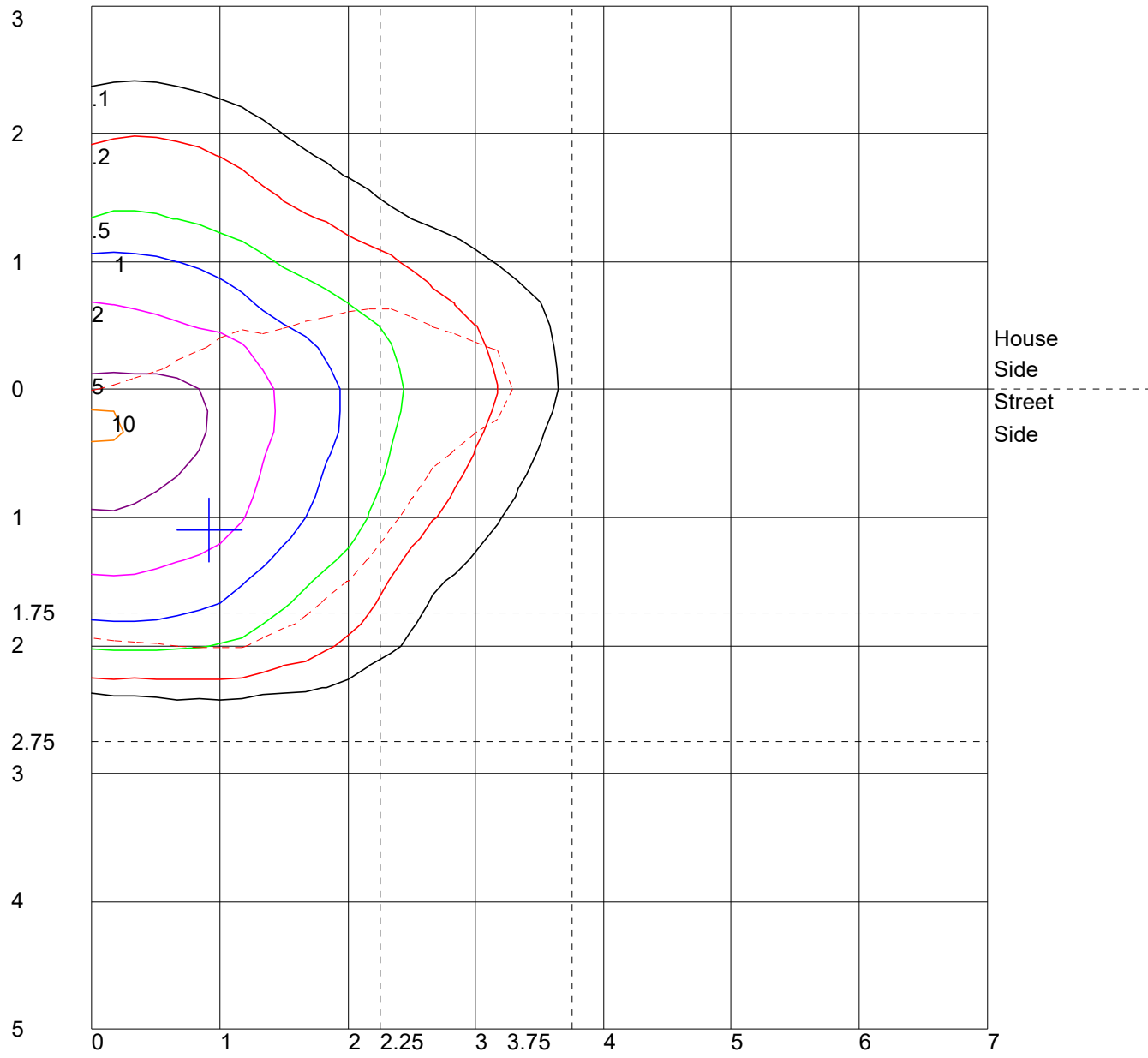
	Lumens	Percent Of Luminaire
Downward Street Side	2394.1	69.4
Downward House Side	1032.1	29.9
Downward Total	3426.2	99.3
Upward Street Side	9.4	0.3
Upward House Side	14.7	0.4
Upward Total	24.1	0.7
Total Flux	3450.3	100.0

POLAR GRAPH



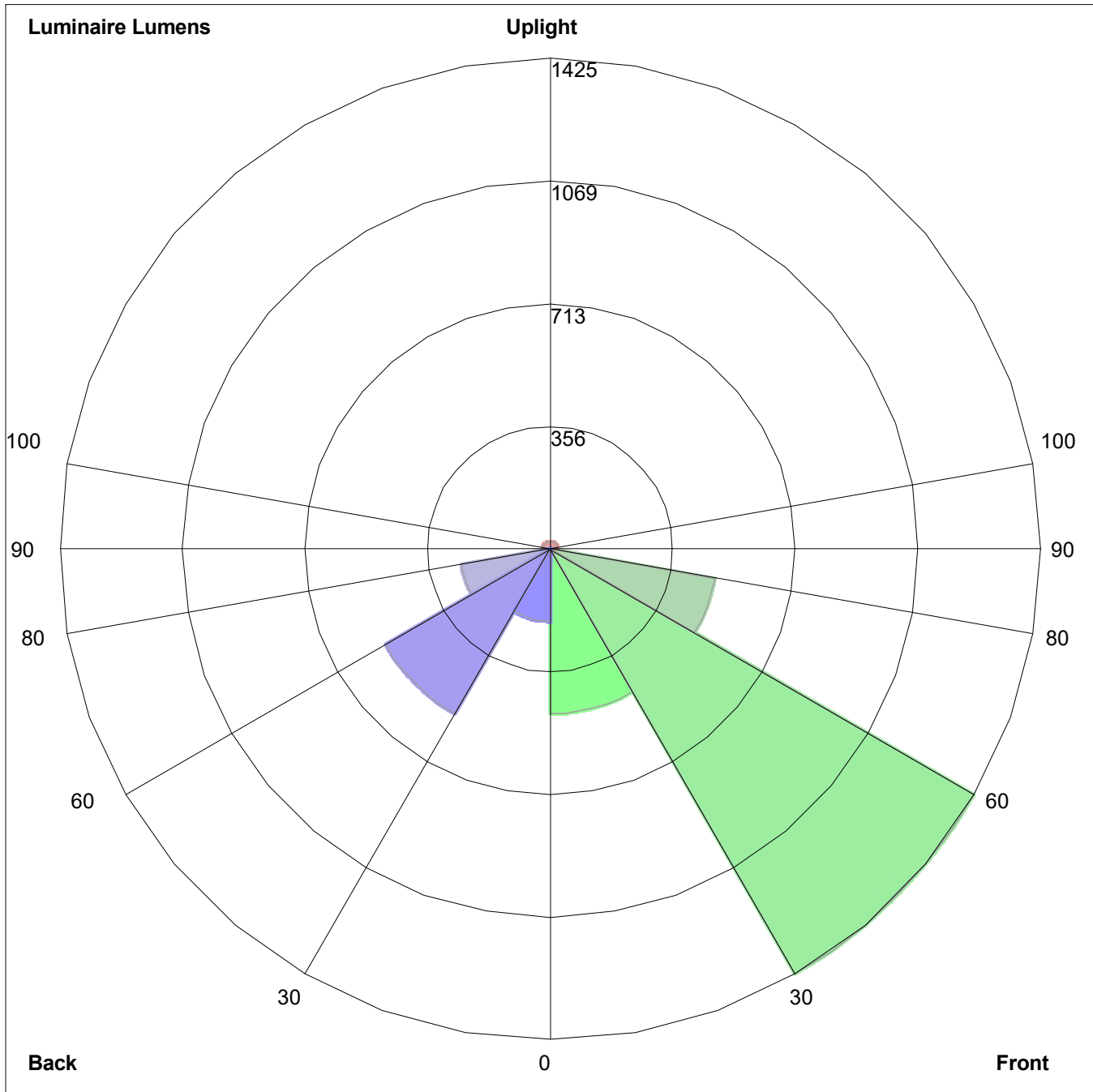
Maximum Candela = 1370.332 Located At Horizontal Angle = 40, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

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=478.9, Medium=1425.3, High=486.4, Very High=3.4
 Back: Low=209.9, Medium=553.3, High=262.7, Very High=6.1
 Uplight: Low=2.1, High=22.0

BUG Rating : B1-U2-G1