



IES ROAD REPORT
PHOTOMETRIC FILENAME : KH15QF1X37U4KC.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] Q2016041802 (scaled to 4K)
[TESTLAB] QSSI
[ISSUEDATE] 04/18/2016
[MANUFAC] DuraGuard
[LUMCAT] KH15QF1X37U4KC
[LUMINAIRE] KH15 WITH ONE 37W QSSI LED ARRAY
[LAMPCAT] SAMSUNG 351B LEDs
[LAMP] 24 SAMSUNG 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	3709
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	41.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	1402.497
Maximum Candela Angle	280H 2.5V
Maximum Candela (<90 Degrees Vertical)	1402.497
Maximum Candela Angle (<90 Degrees Vertical)	280H 2.5V
Maximum Candela At 90 Degrees Vertical	1.454 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	23.86 (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)	545.4	N.A.	14.7
FM - Front-Medium (30-60)	1045.8	N.A.	28.2
FH - Front-High (60-80)	206.7	N.A.	5.6
FVH - Front-Very High (80-90)	1.8	N.A.	0.0
BL - Back-Low (0-30)	550.1	N.A.	14.8
BM - Back-Medium (30-60)	1077.0	N.A.	29.0
BH - Back-High (60-80)	250.2	N.A.	6.7
BVH - Back-Very High (80-90)	2.9	N.A.	0.1
UL - Uplight-Low (90-100)	1.2	N.A.	0.0
UH - Uplight-High (100-180)	28.3	N.A.	0.8
Total	3709.4	N.A.	100.0
BUG Rating	B2-U2-G0		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0.0	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631
2.5	1360.198	1354.249	1374.738	1370.112	1370.112	1351.606	1365.486	1366.807	1365.486	1401.175
5.0	1353.589	1350.944	1373.417	1370.112	1367.468	1347.640	1364.163	1366.146	1362.841	1396.549
7.5	1344.335	1345.658	1368.790	1366.807	1363.503	1341.031	1360.858	1359.537	1356.893	1385.314
10.0	1333.099	1337.065	1362.841	1359.537	1358.215	1331.778	1354.249	1350.944	1351.606	1374.077
12.5	1317.700	1318.692	1353.589	1348.301	1351.606	1324.507	1345.658	1339.048	1347.640	1360.198
15.0	1307.786	1313.205	1339.709	1331.778	1341.692	1316.642	1333.761	1329.135	1337.065	1344.335
17.5	1289.412	1299.128	1316.576	1319.286	1314.858	1307.125	1316.576	1315.981	1319.485	1332.439
20.0	1273.616	1284.521	1309.306	1302.499	1312.413	1297.277	1308.645	1306.464	1308.909	1318.559
22.5	1255.308	1267.337	1290.932	1286.834	1291.990	1285.248	1290.007	1288.156	1288.553	1289.478
25.0	1235.083	1246.055	1270.575	1269.452	1270.377	1267.403	1268.130	1266.411	1268.064	1278.903
27.5	1214.000	1222.724	1247.840	1247.443	1247.179	1250.021	1245.196	1246.848	1246.650	1251.144
30.0	1190.867	1197.014	1221.931	1223.319	1215.850	1228.276	1221.402	1223.716	1222.724	1231.316
32.5	1163.901	1169.056	1196.419	1196.551	1194.899	1203.359	1195.956	1200.252	1194.701	1212.810
35.0	1134.423	1139.909	1163.505	1164.166	1164.893	1175.864	1168.131	1171.172	1166.413	1189.678
37.5	1100.121	1110.035	1125.567	1130.590	1132.705	1140.438	1137.993	1136.869	1134.688	1161.258
40.0	1063.440	1073.816	1091.066	1093.644	1098.337	1102.302	1101.377	1106.334	1098.469	1128.211
42.5	1022.924	1031.913	1052.600	1049.626	1054.715	1063.440	1062.712	1069.255	1060.729	1094.503
45.0	974.742	992.389	1009.706	1002.370	1020.545	1022.858	1022.594	1026.229	1020.810	1048.899
47.5	884.789	926.891	961.193	957.756	976.395	979.303	981.088	981.814	970.777	990.737
50.0	672.300	701.579	781.420	910.962	928.940	938.721	934.425	898.140	810.236	818.233
52.5	619.955	638.592	653.001	742.359	873.487	888.160	852.205	746.390	734.493	743.548
55.0	575.870	590.873	604.422	615.989	772.827	819.886	703.430	698.208	687.369	695.961
57.5	527.292	539.585	550.821	568.071	582.876	667.608	652.802	644.541	634.032	645.730
60.0	469.394	478.250	492.593	514.536	527.027	542.030	595.302	587.701	577.324	588.230
62.5	404.821	412.620	420.749	453.730	405.746	410.505	535.421	524.846	511.694	522.137
65.0	329.805	337.472	354.127	384.464	344.477	355.779	456.308	449.632	443.749	455.382
67.5	180.897	182.946	207.797	273.097	279.640	294.181	291.735	305.284	291.603	356.242
70.0	129.609	132.319	144.744	132.252	207.466	227.427	181.359	223.593	222.139	235.754
72.5	76.735	81.295	93.918	89.358	99.668	129.741	127.560	156.905	153.138	167.149
75.0	29.147	31.659	31.262	45.935	57.369	61.137	76.403	61.599	71.248	83.674
77.5	8.526	9.451	13.483	17.647	20.555	27.825	30.800	32.121	37.607	46.265
80.0	6.080	6.609	6.279	5.948	7.204	9.781	13.880	15.399	15.069	19.894
82.5	3.635	3.900	3.966	3.900	3.966	3.900	4.296	4.560	5.288	6.080
85.0	2.643	2.710	2.643	2.710	2.710	2.643	2.643	2.776	2.842	3.305
87.5	0.991	0.991	0.991	1.058	1.322	1.322	1.587	1.718	1.587	2.181
90.0	0.793	0.793	0.793	0.793	0.859	0.793	0.793	0.859	0.793	0.991
92.5	0.859	0.859	0.859	0.859	0.925	0.925	0.925	0.925	0.859	1.124
95.0	0.925	0.925	0.925	0.925	0.991	1.058	1.058	0.991	0.925	1.190
97.5	0.991	0.991	1.058	1.058	1.124	1.124	1.124	1.058	1.124	1.322
100.0	1.124	1.124	1.124	1.190	1.190	1.190	1.190	1.190	1.124	1.388
102.5	1.255	1.255	1.255	1.255	1.322	1.322	1.322	1.322	1.255	1.520
105.0	1.322	1.322	1.322	1.322	1.388	1.454	1.388	1.388	1.388	1.587
107.5	1.454	1.388	1.388	1.454	1.454	1.454	1.454	1.454	1.454	1.652
110.0	1.520	1.454	1.520	1.520	1.587	1.587	1.587	1.520	1.520	1.784
112.5	1.587	1.587	1.587	1.587	1.652	1.652	1.587	1.587	1.587	1.851
115.0	1.652	1.652	1.652	1.652	1.718	1.718	1.652	1.652	1.652	1.917
117.5	1.718	1.718	1.784	1.784	1.784	1.784	1.784	1.718	1.718	1.983
120.0	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.784	1.784	1.983
122.5	1.917	1.983	1.983	1.983	1.983	1.983	1.983	1.917	1.917	1.983
125.0	2.115	2.115	2.115	2.181	2.115	2.115	2.115	2.049	2.049	2.181
127.5	2.379	2.379	2.379	2.379	2.313	2.379	2.379	2.313	2.247	2.313
130.0	2.710	2.643	2.710	2.643	2.710	2.710	2.643	2.643	2.578	2.512

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132.5	3.106	3.041	3.041	3.041	3.041	2.974	3.041	2.974	2.974	2.908
135.0	3.437	3.437	3.503	3.437	3.371	3.371	3.437	3.437	3.305	3.371
137.5	3.834	3.834	3.767	3.834	3.767	3.767	3.834	3.767	3.701	3.900
140.0	4.362	4.362	4.296	4.296	4.362	4.296	4.230	4.296	4.230	4.494
142.5	4.957	4.957	4.891	4.957	4.891	4.825	4.825	4.825	4.825	5.089
145.0	5.817	5.750	5.684	5.684	5.684	5.618	5.552	5.552	5.552	5.817
147.5	6.808	6.609	6.676	6.676	6.543	6.609	6.609	6.543	6.543	6.742
150.0	8.130	7.997	7.997	8.196	7.865	7.865	7.733	7.733	7.997	7.799
152.5	9.781	9.848	9.848	9.715	9.650	9.715	9.518	9.584	9.650	9.451
155.0	12.624	12.690	12.756	12.557	12.624	12.624	12.426	12.492	12.557	15.069
157.5	15.994	15.994	16.193	15.928	15.994	15.730	15.730	15.730	15.928	22.075
160.0	19.762	19.828	20.027	19.762	19.828	19.828	19.564	19.498	19.233	26.503
162.5	23.199	23.331	23.463	23.265	23.265	23.000	23.000	23.000	23.331	29.609
165.0	25.379	25.446	25.379	25.446	25.446	25.313	25.313	25.182	24.983	31.064
167.5	26.702	26.767	26.636	26.702	26.636	26.503	26.570	26.305	26.173	31.659
170.0	27.429	27.429	27.429	27.429	27.429	27.362	27.362	27.230	26.966	31.592
172.5	27.627	27.825	27.627	27.759	27.627	27.561	27.561	27.495	27.362	29.742
175.0	27.296	27.429	27.429	27.495	27.429	27.296	27.296	27.362	27.296	26.503
177.5	26.437	26.437	26.503	26.503	26.570	26.636	26.636	26.636	26.570	24.917
180.0	24.756	24.756	24.756	24.756	24.756	24.756	24.756	24.756	24.756	24.756

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	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631
2.5	1398.532	1383.992	1384.652	1382.669	1391.262	1374.738	1378.043	1370.773	1368.790	1361.520
5.0	1393.245	1382.669	1382.669	1380.026	1387.957	1371.434	1374.738	1366.146	1370.112	1363.503
7.5	1385.974	1380.026	1378.043	1375.400	1381.348	1367.468	1370.773	1362.181	1370.112	1363.503
10.0	1377.382	1375.400	1371.434	1368.790	1374.077	1361.520	1364.824	1356.232	1365.486	1362.181
12.5	1365.486	1367.468	1363.503	1360.858	1363.503	1355.572	1356.232	1348.301	1358.215	1358.215
15.0	1350.944	1354.910	1354.249	1350.944	1352.267	1346.979	1348.301	1335.083	1350.284	1351.606
17.5	1334.421	1339.709	1343.013	1338.387	1339.709	1335.083	1337.065	1321.203	1339.709	1343.013
20.0	1317.238	1324.507	1327.812	1321.864	1319.881	1319.220	1321.864	1307.324	1325.830	1331.116
22.5	1296.087	1308.645	1311.289	1303.358	1297.410	1303.358	1300.714	1293.444	1312.611	1317.238
25.0	1274.938	1286.834	1294.105	1282.208	1274.277	1285.513	1277.582	1273.616	1295.427	1298.731
27.5	1254.449	1263.702	1273.616	1259.736	1250.483	1264.363	1255.771	1252.466	1271.633	1278.242
30.0	1231.316	1239.908	1249.162	1235.943	1225.368	1244.535	1234.621	1230.655	1244.535	1255.110
32.5	1208.844	1213.471	1218.097	1210.166	1200.252	1215.454	1210.827	1206.861	1216.115	1227.351
35.0	1185.051	1186.373	1189.017	1181.746	1174.476	1186.373	1182.407	1180.424	1182.407	1194.304
37.5	1157.953	1153.987	1159.275	1155.309	1146.716	1152.004	1149.361	1148.039	1148.039	1154.648
40.0	1126.228	1122.924	1127.550	1126.889	1118.958	1114.331	1115.653	1114.331	1111.688	1115.653
42.5	1093.182	1087.894	1091.199	1094.503	1087.233	1085.250	1082.606	1074.014	1073.354	1077.980
45.0	1056.169	1048.238	1052.203	1060.135	1048.899	1044.272	1050.221	1029.732	1031.054	1033.037
47.5	1018.496	1004.617	1010.565	1020.478	1007.260	1003.295	1007.921	968.265	935.219	959.012
50.0	857.229	920.017	966.282	975.536	962.978	960.334	904.816	746.193	719.094	736.939
52.5	757.428	764.698	878.379	926.627	914.730	866.482	692.657	673.489	672.829	679.438
55.0	700.588	712.485	727.025	877.717	861.194	670.185	641.765	625.902	625.902	633.173
57.5	649.035	664.898	674.151	707.197	678.117	607.396	590.213	578.316	575.671	582.281
60.0	598.144	611.362	619.955	631.851	566.419	556.505	539.320	532.051	518.832	528.085
62.5	530.068	547.251	562.453	500.326	444.147	500.326	484.463	475.871	459.347	468.601
65.0	458.687	476.532	494.377	393.916	387.306	438.859	422.336	413.082	395.899	403.168
67.5	354.260	377.392	401.847	341.702	339.719	344.346	355.582	347.651	351.616	348.972
70.0	239.324	255.054	351.616	270.784	270.982	256.310	251.485	187.969	179.575	175.610
72.5	169.001	183.475	158.623	165.035	198.544	130.138	139.060	134.368	128.419	124.255
75.0	88.895	99.668	105.485	107.931	82.485	87.177	76.735	82.352	75.743	69.266
77.5	52.015	45.472	53.337	47.257	47.521	46.661	30.007	31.460	29.676	30.733

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80.0	23.860	22.075	22.340	23.066	17.515	17.713	16.788	9.848	8.922	9.650
82.5	7.468	8.725	9.055	8.922	6.808	6.213	6.742	6.939	6.213	5.288
85.0	3.834	4.362	4.031	4.230	3.966	3.966	4.097	4.230	3.635	2.512
87.5	2.313	2.446	2.446	2.578	2.776	2.710	2.842	2.842	2.446	2.247
90.0	1.058	1.255	1.255	1.322	1.454	1.388	1.388	1.388	1.255	1.322
92.5	1.058	1.058	1.124	1.124	1.124	1.058	0.991	0.991	0.991	0.991
95.0	1.190	1.190	1.255	1.190	1.190	1.190	1.124	1.058	1.058	1.124
97.5	1.255	1.255	1.322	1.322	1.322	1.255	1.255	1.190	1.190	1.190
100.0	1.388	1.388	1.388	1.388	1.388	1.388	1.255	1.322	1.255	1.255
102.5	1.520	1.520	1.520	1.520	1.454	1.454	1.388	1.388	1.388	1.388
105.0	1.587	1.587	1.652	1.587	1.587	1.520	1.454	1.454	1.454	1.454
107.5	1.718	1.652	1.652	1.718	1.652	1.652	1.587	1.520	1.520	1.587
110.0	1.718	1.784	1.784	1.718	1.718	1.652	1.652	1.652	1.652	1.587
112.5	1.851	1.851	1.784	1.784	1.851	1.784	1.718	1.718	1.718	1.718
115.0	1.917	1.851	1.917	1.851	1.851	1.784	1.784	1.784	1.784	1.784
117.5	1.917	1.851	1.851	1.917	1.851	1.851	1.784	1.784	1.784	1.851
120.0	1.917	1.917	1.917	1.917	1.851	1.851	1.851	1.851	1.851	1.917
122.5	1.983	1.983	1.983	1.983	1.983	1.983	1.983	1.917	1.983	1.917
125.0	2.115	2.115	2.115	2.115	2.115	2.049	2.049	2.049	2.049	2.049
127.5	2.247	2.247	2.247	2.247	2.247	2.247	2.247	2.247	2.247	2.247
130.0	2.578	2.512	2.512	2.578	2.512	2.512	2.512	2.512	2.446	2.512
132.5	2.908	2.842	2.842	2.842	2.842	2.842	2.842	2.842	2.842	2.842
135.0	3.305	3.371	3.371	3.305	3.305	3.305	3.238	3.305	3.371	3.305
137.5	3.834	3.900	3.834	3.767	3.834	3.767	3.767	3.834	3.834	3.767
140.0	4.429	4.494	4.429	4.362	4.494	4.429	4.362	4.429	4.362	4.362
142.5	5.023	5.023	5.089	5.023	5.023	5.023	5.023	5.023	5.023	5.023
145.0	5.817	5.750	5.750	5.750	5.684	5.750	5.750	5.684	5.817	5.750
147.5	6.676	6.543	6.609	6.543	6.543	6.609	6.609	6.543	6.609	6.543
150.0	7.667	7.601	7.667	7.468	7.535	7.535	7.535	7.535	7.667	7.601
152.5	9.584	9.451	9.319	9.518	9.385	9.253	9.518	9.451	9.385	9.584
155.0	14.673	15.268	14.937	15.532	15.202	14.937	15.598	15.268	15.069	15.730
157.5	22.274	22.075	21.877	22.207	22.075	22.009	22.340	22.141	22.075	22.406
160.0	26.636	26.371	26.239	26.503	26.437	26.305	26.570	26.371	26.371	26.570
162.5	29.412	29.544	29.345	29.412	29.412	29.345	29.279	28.883	28.221	28.618
165.0	30.866	30.932	30.733	30.800	30.733	30.535	29.941	29.279	27.958	28.420
167.5	31.526	31.460	31.328	31.262	31.064	30.733	29.808	29.015	28.155	28.486
170.0	31.395	31.196	30.866	30.535	29.941	29.279	28.553	27.958	27.495	27.495
172.5	29.609	29.279	28.553	28.155	27.099	26.636	26.239	25.711	25.776	25.975
175.0	26.239	25.975	25.512	25.313	25.248	24.917	24.785	24.785	24.719	24.785
177.5	24.851	24.653	24.520	24.520	24.388	24.323	24.257	24.124	23.992	23.794
180.0	24.756	24.756	24.756	24.756	24.756	24.756	24.756	24.756	24.756	24.756

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	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631
2.5	1372.755	1366.807	1370.112	1357.554	1368.129	1366.146	1366.807	1401.837	1402.497	1383.992
5.0	1367.468	1364.163	1367.468	1359.537	1366.146	1363.503	1364.163	1397.210	1399.192	1380.687
7.5	1361.520	1359.537	1364.824	1360.858	1360.198	1359.537	1359.537	1391.262	1393.245	1375.400
10.0	1353.589	1351.606	1358.215	1362.181	1351.606	1352.267	1352.267	1382.669	1383.992	1367.468
12.5	1346.979	1342.353	1350.284	1359.537	1340.370	1342.353	1341.031	1369.451	1370.773	1356.232
15.0	1335.744	1333.099	1337.726	1354.910	1330.456	1330.456	1327.151	1356.232	1356.893	1341.031
17.5	1323.186	1321.864	1325.168	1342.353	1315.916	1315.916	1311.289	1342.353	1344.335	1318.758
20.0	1307.984	1308.645	1311.950	1326.490	1300.053	1299.392	1293.444	1319.683	1317.369	1311.620
22.5	1288.817	1294.765	1294.105	1307.984	1284.191	1279.564	1274.938	1310.958	1306.992	1290.535
25.0	1272.955	1275.599	1271.633	1284.851	1264.363	1257.754	1255.771	1285.579	1282.142	1267.866

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

27.5	1253.126	1249.822	1248.500	1254.449	1240.569	1233.960	1232.638	1257.555	1254.515	1244.337
30.0	1229.334	1225.368	1225.368	1220.080	1214.792	1211.488	1206.861	1227.021	1225.566	1219.023
32.5	1207.523	1198.931	1198.931	1189.678	1185.712	1184.390	1177.120	1195.362	1196.419	1188.025
35.0	1177.120	1171.832	1170.510	1157.953	1153.987	1153.987	1142.090	1164.694	1166.743	1156.763
37.5	1143.412	1141.430	1138.125	1122.924	1119.619	1119.619	1105.739	1134.688	1131.251	1117.768
40.0	1107.722	1109.044	1105.078	1091.199	1087.894	1085.911	1068.066	1094.173	1092.454	1073.552
42.5	1068.066	1072.692	1070.710	1054.848	1050.882	1040.307	1027.749	1050.551	1047.181	1025.039
45.0	1026.427	1034.358	1027.088	1017.174	1005.278	996.686	982.145	996.883	994.240	977.452
47.5	971.570	989.415	982.145	975.536	955.047	943.811	933.236	939.515	929.799	928.543
50.0	792.458	936.541	938.523	928.610	904.155	892.258	875.735	817.441	839.384	873.091
52.5	663.575	739.583	892.919	875.735	857.889	818.233	703.232	683.205	688.823	704.289
55.0	618.632	629.868	752.141	822.860	782.544	662.254	644.409	632.644	631.851	635.618
57.5	578.316	578.316	586.908	749.497	620.615	607.396	582.281	574.879	572.962	577.059
60.0	526.102	525.441	534.694	543.947	560.470	545.269	515.527	518.369	513.279	514.205
62.5	470.584	469.261	477.193	399.864	495.038	477.854	453.399	452.408	447.517	444.147
65.0	406.473	408.456	398.542	346.989	387.306	405.813	386.645	372.634	364.372	366.421
67.5	342.363	345.006	345.006	286.315	295.106	344.346	346.328	234.169	228.088	227.691
70.0	180.831	212.027	219.958	218.835	187.705	193.521	182.880	168.273	162.457	161.531
72.5	127.626	112.689	108.459	145.207	108.856	110.970	119.629	107.864	102.577	101.189
75.0	79.444	71.976	66.225	55.254	71.513	53.800	55.519	48.578	46.199	44.613
77.5	30.138	30.271	33.047	32.451	31.460	29.742	30.997	24.388	24.257	20.819
80.0	9.518	14.409	15.003	13.417	15.598	16.523	14.409	12.492	12.293	10.310
82.5	4.957	5.288	5.354	5.684	6.279	5.552	6.279	5.684	5.552	4.626
85.0	2.181	2.578	3.238	3.834	3.635	3.437	3.371	2.776	2.908	2.643
87.5	1.983	2.379	2.446	2.512	2.379	2.313	2.181	1.784	1.520	1.322
90.0	1.322	1.322	1.190	1.190	1.124	1.124	1.124	0.859	0.925	0.925
92.5	1.058	1.124	1.190	1.190	1.190	1.255	1.255	0.991	0.991	0.991
95.0	1.124	1.190	1.255	1.255	1.322	1.322	1.322	1.058	1.058	1.124
97.5	1.255	1.322	1.388	1.454	1.388	1.454	1.454	1.190	1.255	1.255
100.0	1.322	1.388	1.454	1.520	1.520	1.587	1.587	1.255	1.322	1.322
102.5	1.388	1.520	1.587	1.652	1.652	1.652	1.718	1.388	1.454	1.454
105.0	1.520	1.587	1.652	1.718	1.784	1.784	1.784	1.454	1.520	1.520
107.5	1.652	1.652	1.784	1.784	1.851	1.851	1.917	1.587	1.587	1.587
110.0	1.718	1.718	1.784	1.851	1.983	1.917	1.917	1.718	1.652	1.652
112.5	1.718	1.851	1.917	1.983	1.983	1.983	2.049	1.718	1.784	1.718
115.0	1.851	1.851	1.917	1.983	1.983	2.049	1.983	1.851	1.784	1.851
117.5	1.851	1.851	1.983	1.983	1.983	2.049	2.049	1.917	1.917	1.917
120.0	1.917	1.917	1.983	1.983	2.049	2.049	2.049	1.983	1.917	1.983
122.5	1.917	1.983	2.049	2.049	2.049	2.115	2.115	2.049	2.115	2.115
125.0	2.049	2.115	2.115	2.181	2.247	2.247	2.247	2.247	2.247	2.247
127.5	2.247	2.313	2.313	2.313	2.379	2.379	2.379	2.446	2.512	2.512
130.0	2.512	2.578	2.578	2.643	2.578	2.643	2.643	2.776	2.776	2.776
132.5	2.908	2.908	2.908	2.974	2.974	3.041	3.041	3.172	3.106	3.106
135.0	3.371	3.371	3.305	3.437	3.371	3.503	3.437	3.503	3.503	3.569
137.5	3.834	3.834	3.834	3.900	3.900	3.966	3.966	3.900	3.834	3.900
140.0	4.362	4.429	4.429	4.429	4.494	4.494	4.494	4.429	4.362	4.429
142.5	5.023	5.023	5.023	5.023	5.089	5.089	5.155	4.957	4.957	5.023
145.0	5.618	5.684	5.684	5.817	5.817	5.750	5.883	5.750	5.750	5.883
147.5	6.543	6.609	6.477	6.676	6.609	6.609	6.609	6.676	6.742	6.676
150.0	7.535	7.601	7.601	7.733	7.667	7.667	7.601	8.063	8.063	7.997
152.5	9.451	9.385	9.584	9.518	9.715	9.253	9.518	10.046	10.113	9.848
155.0	15.399	15.069	15.730	15.466	16.127	15.862	15.466	12.955	13.086	12.756
157.5	22.274	22.075	22.471	22.340	22.670	22.471	22.274	16.325	15.994	16.127
160.0	26.503	26.371	26.239	26.570	26.437	26.636	26.503	20.158	19.762	19.828
162.5	29.345	29.345	29.279	29.478	29.345	29.544	29.412	23.463	23.199	23.265
165.0	29.941	30.535	30.667	30.800	30.733	30.800	30.800	25.248	25.248	25.248

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

167.5	28.949	30.138	30.866	31.196	31.262	31.328	31.328	26.503	26.503	26.437
170.0	27.296	28.155	29.742	30.337	30.800	31.196	31.130	27.165	27.099	27.099
172.5	25.842	25.644	26.966	27.693	28.155	28.949	29.081	27.099	27.165	27.165
175.0	24.653	24.323	24.257	24.520	25.049	25.644	26.041	26.834	26.767	26.834
177.5	23.661	23.595	23.529	23.529	23.661	24.058	24.323	26.173	26.173	25.975
180.0	24.756	24.756	24.756	24.756	24.756	24.756	24.756	24.756	24.756	24.756

Vert. Horizontal Angles
Angles

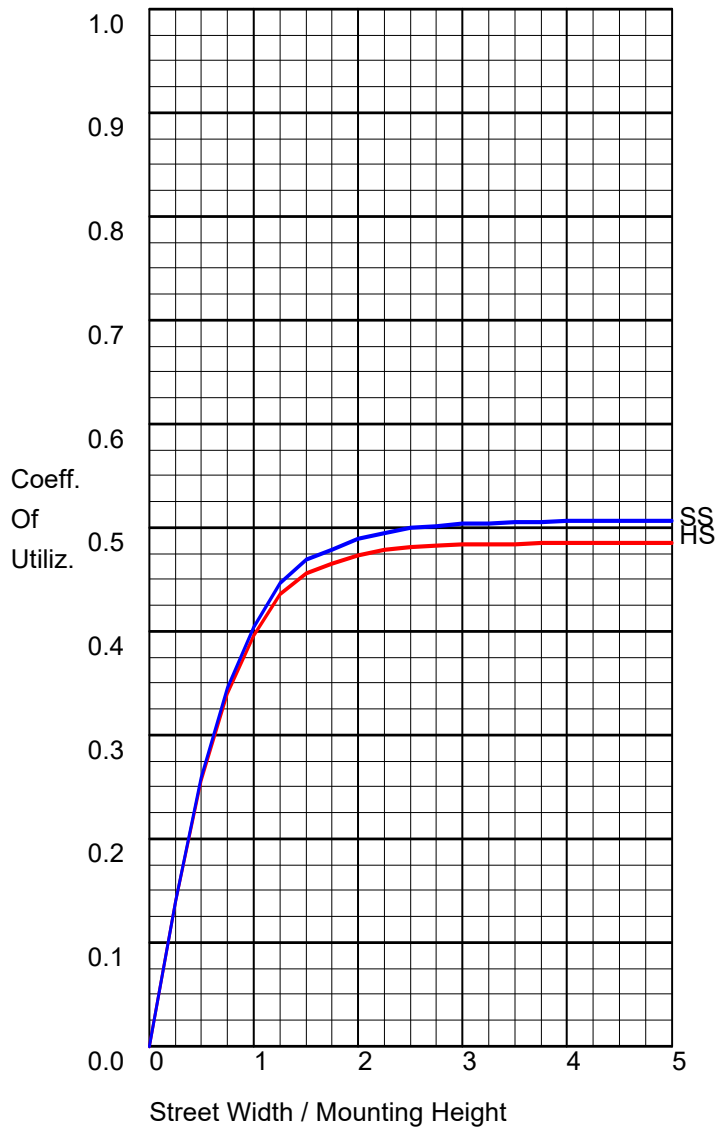
	300	310	320	330	340	350	360
0.0	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631	1375.631
2.5	1380.687	1378.704	1389.940	1371.434	1375.400	1372.095	1360.198
5.0	1376.721	1374.738	1385.314	1367.468	1370.773	1371.434	1353.589
7.5	1372.095	1369.451	1373.417	1360.858	1362.181	1364.824	1344.335
10.0	1365.486	1361.520	1359.537	1353.589	1354.910	1358.215	1333.099
12.5	1355.572	1352.267	1343.013	1345.658	1345.658	1350.284	1317.700
15.0	1343.013	1339.709	1317.700	1335.744	1333.099	1338.387	1307.786
17.5	1318.692	1314.659	1310.166	1317.238	1314.792	1317.435	1289.412
20.0	1314.527	1305.803	1290.800	1314.329	1302.036	1308.513	1273.616
22.5	1291.329	1283.728	1269.915	1296.087	1283.530	1285.909	1255.308
25.0	1265.486	1261.455	1247.840	1271.633	1264.891	1261.586	1235.083
27.5	1240.899	1236.406	1229.531	1244.270	1242.486	1237.265	1214.000
30.0	1214.661	1209.902	1210.761	1216.842	1215.718	1214.595	1190.867
32.5	1184.588	1182.143	1183.399	1187.166	1187.299	1184.654	1163.901
35.0	1151.608	1153.855	1154.846	1155.705	1157.028	1153.326	1134.423
37.5	1118.561	1120.015	1125.434	1118.231	1125.237	1119.553	1100.121
40.0	1080.293	1082.606	1086.903	1080.557	1085.118	1085.250	1063.440
42.5	1036.539	1040.307	1045.396	1045.660	1045.594	1045.594	1022.924
45.0	990.737	996.817	1006.401	1000.122	1001.841	1000.783	974.742
47.5	940.308	957.492	958.549	953.328	951.742	944.009	884.789
50.0	885.318	907.592	903.957	900.322	839.714	720.548	672.300
52.5	812.946	848.108	841.036	759.345	645.466	644.739	619.955
55.0	646.392	783.204	773.819	608.124	593.252	591.072	575.870
57.5	588.296	622.730	589.353	554.389	542.890	535.157	527.292
60.0	533.504	543.286	491.601	500.722	486.975	473.293	469.394
62.5	463.577	385.125	373.030	440.643	420.485	406.010	404.821
65.0	388.958	310.175	317.446	367.809	345.601	339.785	329.805
67.5	265.761	244.479	255.252	243.421	195.569	183.937	180.897
70.0	135.161	159.417	180.236	122.735	132.517	131.261	129.609
72.5	89.226	89.490	80.171	81.691	79.444	82.550	76.735
75.0	42.763	39.656	40.780	39.855	29.015	30.337	29.147
77.5	21.546	19.432	13.747	14.673	10.377	8.790	8.526
80.0	8.856	7.667	5.948	5.618	6.147	6.345	6.080
82.5	3.966	3.900	3.834	3.701	3.900	3.767	3.635
85.0	2.643	2.643	2.578	2.512	2.643	2.578	2.643
87.5	1.255	1.124	0.991	1.058	0.925	0.859	0.991
90.0	0.925	0.925	0.925	0.859	0.859	0.793	0.793
92.5	0.991	1.058	0.991	0.925	0.925	0.925	0.859
95.0	1.124	1.124	1.124	1.058	0.991	0.925	0.925
97.5	1.190	1.255	1.190	1.190	1.124	1.058	0.991
100.0	1.322	1.322	1.322	1.255	1.190	1.124	1.124
102.5	1.454	1.388	1.454	1.388	1.322	1.255	1.255
105.0	1.520	1.520	1.454	1.454	1.454	1.322	1.322
107.5	1.652	1.587	1.587	1.587	1.520	1.454	1.454
110.0	1.718	1.718	1.718	1.652	1.587	1.520	1.520
112.5	1.784	1.784	1.784	1.718	1.718	1.652	1.587

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

115.0	1.851	1.917	1.851	1.784	1.718	1.718	1.652
117.5	1.917	1.917	1.917	1.851	1.784	1.784	1.718
120.0	1.983	1.983	1.983	1.917	1.851	1.851	1.851
122.5	2.115	2.115	2.049	2.049	2.049	1.983	1.917
125.0	2.247	2.247	2.247	2.247	2.181	2.115	2.115
127.5	2.446	2.512	2.446	2.446	2.446	2.379	2.379
130.0	2.776	2.776	2.776	2.776	2.710	2.710	2.710
132.5	3.172	3.106	3.172	3.172	3.106	3.106	3.106
135.0	3.569	3.569	3.437	3.503	3.503	3.437	3.437
137.5	3.966	3.834	3.900	3.900	3.834	3.834	3.834
140.0	4.429	4.429	4.362	4.296	4.296	4.429	4.362
142.5	4.957	5.023	5.023	4.891	4.957	4.957	4.957
145.0	5.750	5.684	5.684	5.750	5.684	5.684	5.817
147.5	6.742	6.742	6.676	6.676	6.609	6.742	6.808
150.0	8.063	8.130	7.997	8.063	7.997	8.063	8.130
152.5	9.980	10.046	9.848	9.781	9.781	9.914	9.781
155.0	12.888	12.624	12.756	12.624	12.690	12.888	12.624
157.5	16.325	15.994	16.193	15.928	16.061	16.193	15.994
160.0	20.092	20.158	19.960	19.695	19.828	20.092	19.762
162.5	23.397	23.265	23.265	23.199	23.331	23.397	23.199
165.0	25.182	25.313	25.248	25.313	25.446	25.578	25.379
167.5	26.371	26.503	26.503	26.503	26.636	26.636	26.702
170.0	27.099	27.099	27.230	27.230	27.362	27.362	27.429
172.5	27.230	27.362	27.362	27.495	27.561	27.627	27.627
175.0	26.966	27.099	27.165	27.099	27.230	27.362	27.296
177.5	25.975	26.107	26.173	26.371	26.305	26.173	26.437
180.0	24.756	24.756	24.756	24.756	24.756	24.756	24.756

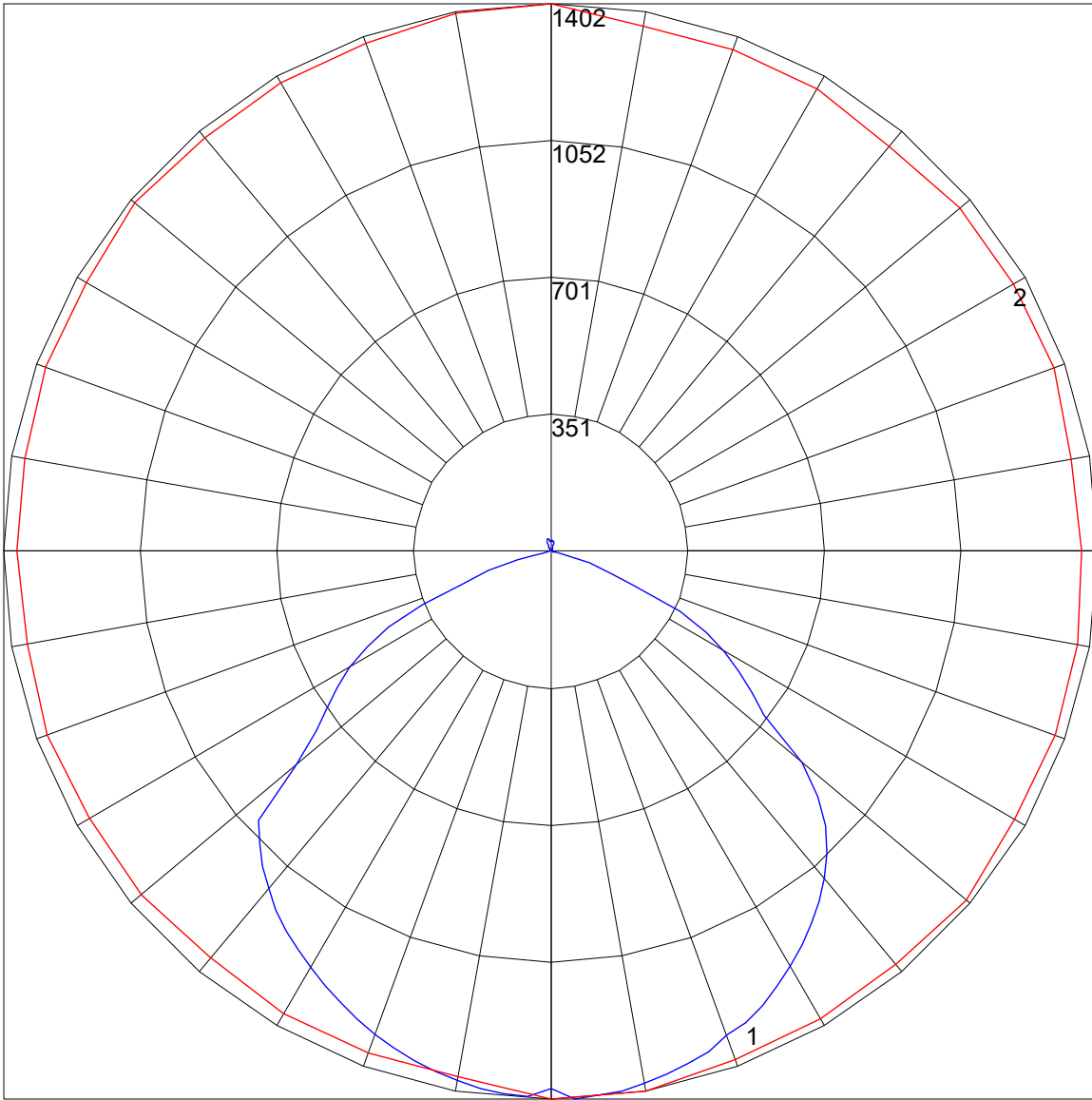
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

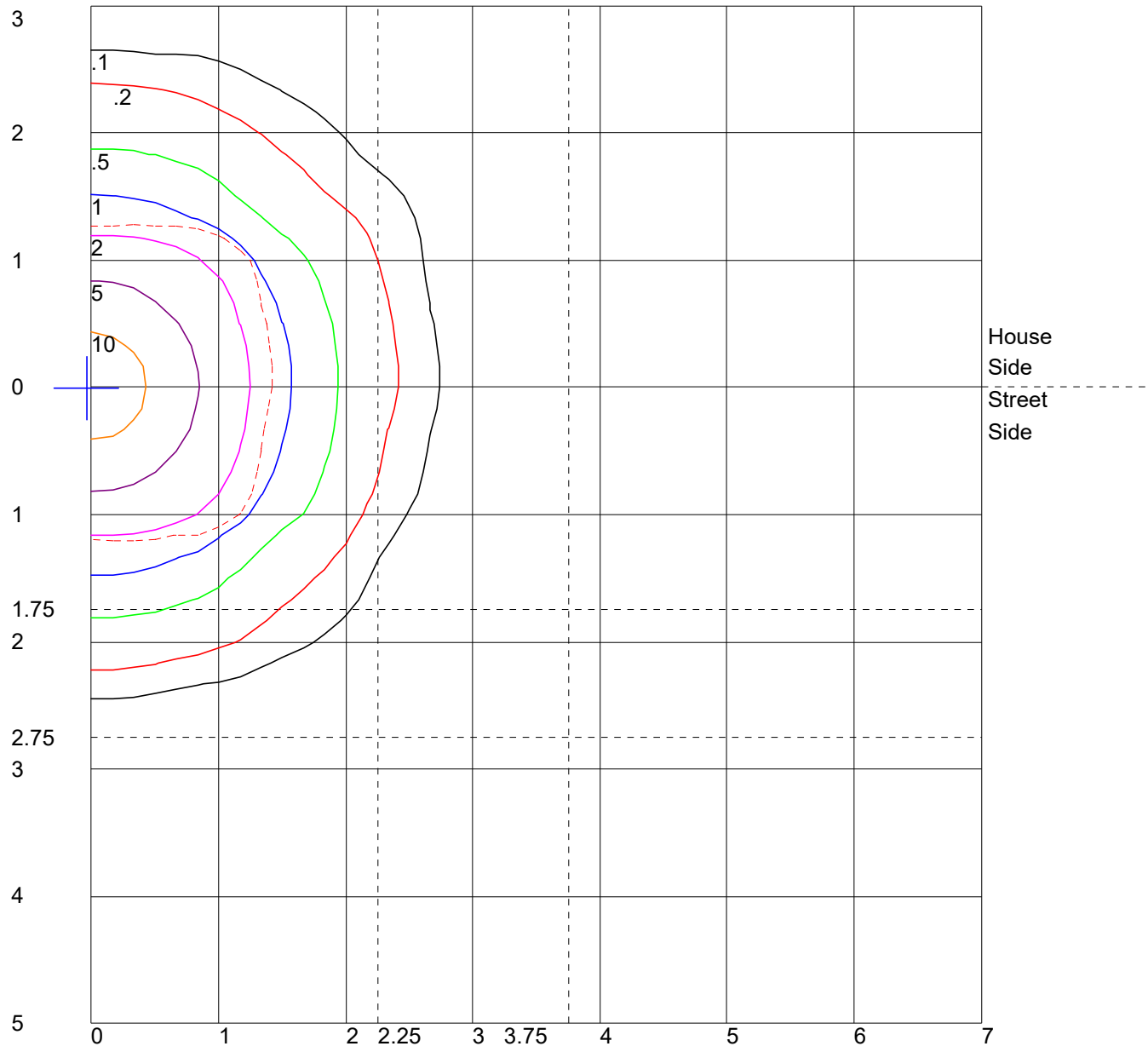
	Lumens	Percent Of Luminaire
Downward Street Side	1799.6	48.5
Downward House Side	1880.2	50.7
Downward Total	3679.8	99.2
Upward Street Side	14.1	0.4
Upward House Side	15.5	0.4
Upward Total	29.6	0.8
Total Flux	3709.4	100.0

POLAR GRAPH



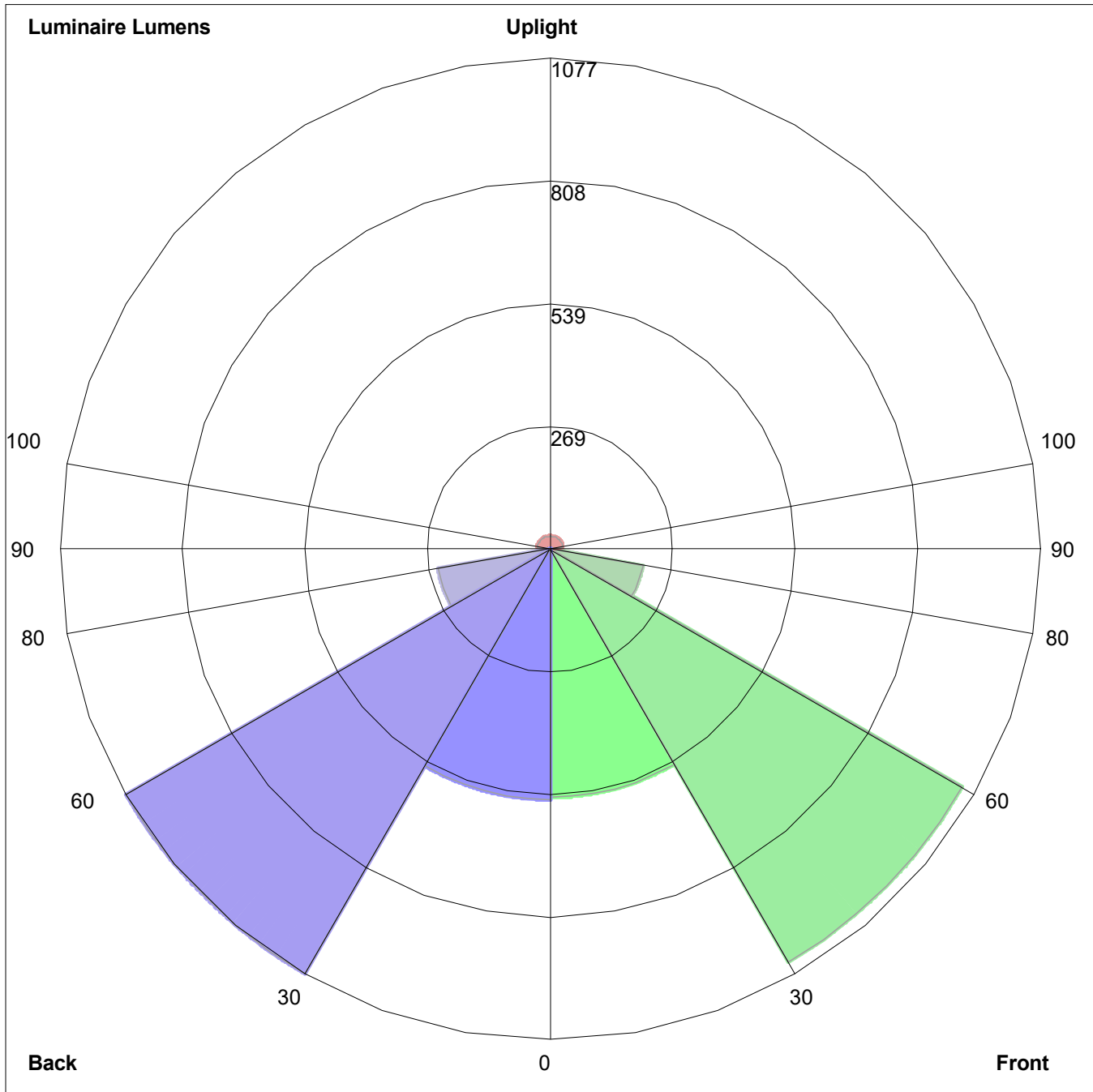
Maximum Candela = 1402.497 Located At Horizontal Angle = 280, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (280 - 100) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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=545.4, Medium=1045.8, High=206.7, Very High=1.8
 Back: Low=550.1, Medium= 1077.0, High=250.2, Very High=2.9
 Uplight: Low=1.2, High=28.3

BUG Rating : B2-U2-G0