



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : KH15QF1X37U5KC.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] Q2016041802  
[TESTLAB] QSSI  
[ISSUEDATE] 04/18/2016  
[MANUFAC] DURAGUARD  
[LUMCAT] KH15QF1X37U5KC  
[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	4054
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	41.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	1532.784
Maximum Candela Angle	280H 2.5V
Maximum Candela (<90 Degrees Vertical)	1532.784
Maximum Candela Angle (<90 Degrees Vertical)	280H 2.5V
Maximum Candela At 90 Degrees Vertical	1.589 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	26.076 (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)	596.0	N.A.	14.7
FM - Front-Medium (30-60)	1142.9	N.A.	28.2
FH - Front-High (60-80)	225.9	N.A.	5.6
FVH - Front-Very High (80-90)	2.0	N.A.	0.0
BL - Back-Low (0-30)	601.2	N.A.	14.8
BM - Back-Medium (30-60)	1177.1	N.A.	29.0
BH - Back-High (60-80)	273.4	N.A.	6.7
BVH - Back-Very High (80-90)	3.1	N.A.	0.1
UL - Uplight-Low (90-100)	1.3	N.A.	0.0
UH - Uplight-High (100-180)	31.0	N.A.	0.8
Total	4053.9	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	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422
2.5	1486.555	1480.054	1502.446	1497.390	1497.390	1477.165	1492.334	1493.778	1492.334	1531.339
5.0	1479.332	1476.442	1501.002	1497.390	1494.501	1472.831	1490.889	1493.056	1489.444	1526.283
7.5	1469.219	1470.664	1495.945	1493.778	1490.167	1465.608	1487.277	1485.833	1482.943	1514.004
10.0	1456.939	1461.273	1489.444	1485.833	1484.388	1455.495	1480.054	1476.442	1477.165	1501.724
12.5	1440.109	1441.193	1479.332	1473.553	1477.165	1447.549	1470.664	1463.440	1472.831	1486.555
15.0	1429.274	1435.197	1464.163	1455.495	1466.330	1438.953	1457.662	1452.606	1461.273	1469.219
17.5	1409.193	1419.812	1438.881	1441.843	1437.003	1428.552	1438.881	1438.231	1442.060	1456.217
20.0	1391.930	1403.848	1430.936	1423.496	1434.331	1417.789	1430.213	1427.830	1430.502	1441.048
22.5	1371.921	1385.068	1410.855	1406.376	1412.011	1404.643	1409.844	1407.821	1408.255	1409.266
25.0	1349.818	1361.809	1388.607	1387.379	1388.390	1385.140	1385.934	1384.056	1385.862	1397.708
27.5	1326.776	1336.310	1363.759	1363.326	1363.037	1366.143	1360.870	1362.675	1362.459	1367.371
30.0	1301.494	1308.212	1335.444	1336.961	1328.798	1342.378	1334.866	1337.394	1336.310	1345.701
32.5	1272.023	1277.657	1307.562	1307.706	1305.900	1315.146	1307.056	1311.751	1305.684	1325.475
35.0	1239.807	1245.802	1271.590	1272.312	1273.107	1285.097	1276.646	1279.969	1274.768	1300.194
37.5	1202.318	1213.153	1230.128	1235.618	1237.929	1246.380	1243.708	1242.480	1240.096	1269.134
40.0	1162.229	1173.569	1192.422	1195.239	1200.368	1204.702	1203.691	1209.108	1200.512	1233.017
42.5	1117.950	1127.774	1150.383	1147.132	1152.694	1162.229	1161.434	1168.585	1159.267	1196.178
45.0	1065.292	1084.578	1103.504	1095.486	1115.350	1117.878	1117.589	1121.562	1115.639	1146.338
47.5	966.983	1012.996	1050.484	1046.728	1067.098	1070.276	1072.227	1073.021	1060.958	1082.773
50.0	734.754	766.753	854.011	995.587	1015.235	1025.925	1021.230	981.574	885.504	894.244
52.5	677.546	697.915	713.662	811.321	954.631	970.667	931.372	815.727	802.725	812.621
55.0	629.366	645.763	660.571	673.212	844.620	896.050	768.776	763.069	751.223	760.613
57.5	576.275	589.710	601.990	620.843	637.023	729.626	713.445	704.416	692.931	705.716
60.0	512.999	522.678	538.353	562.334	575.986	592.383	650.603	642.296	630.955	642.874
62.5	442.427	450.951	459.835	495.880	443.438	448.639	585.160	573.602	559.228	570.641
65.0	360.443	368.822	387.024	420.179	376.478	388.830	498.697	491.401	484.972	497.685
67.5	197.702	199.941	227.101	298.467	305.618	321.509	318.836	333.644	318.692	389.336
70.0	141.649	144.611	158.190	144.538	226.739	248.554	198.207	244.364	242.775	257.655
72.5	83.863	88.847	102.643	97.659	108.927	141.793	139.410	171.481	167.364	182.677
75.0	31.855	34.600	34.166	50.202	62.698	66.816	83.501	67.321	77.867	91.447
77.5	9.318	10.329	14.736	19.286	22.464	30.410	33.661	35.105	41.101	50.563
80.0	6.645	7.223	6.862	6.501	7.873	10.690	15.169	16.830	16.469	21.742
82.5	3.973	4.262	4.334	4.262	4.334	4.262	4.695	4.984	5.779	6.645
85.0	2.889	2.962	2.889	2.962	2.962	2.889	2.889	3.034	3.106	3.612
87.5	1.083	1.083	1.083	1.156	1.445	1.445	1.734	1.878	1.734	2.384
90.0	0.867	0.867	0.867	0.867	0.939	0.867	0.867	0.939	0.867	1.083
92.5	0.939	0.939	0.939	0.939	1.011	1.011	1.011	1.011	0.939	1.228
95.0	1.011	1.011	1.011	1.011	1.083	1.156	1.156	1.083	1.011	1.300
97.5	1.083	1.083	1.156	1.156	1.228	1.228	1.228	1.156	1.228	1.445
100.0	1.228	1.228	1.228	1.300	1.300	1.300	1.300	1.300	1.228	1.517
102.5	1.372	1.372	1.372	1.372	1.445	1.445	1.445	1.445	1.372	1.661
105.0	1.445	1.445	1.445	1.445	1.517	1.589	1.517	1.517	1.517	1.734
107.5	1.589	1.517	1.517	1.589	1.589	1.589	1.589	1.589	1.589	1.806
110.0	1.661	1.589	1.661	1.661	1.734	1.734	1.734	1.661	1.661	1.950
112.5	1.734	1.734	1.734	1.734	1.806	1.806	1.734	1.734	1.734	2.023
115.0	1.806	1.806	1.806	1.806	1.878	1.878	1.806	1.806	1.806	2.095
117.5	1.878	1.878	1.950	1.950	1.950	1.950	1.950	1.878	1.878	2.167
120.0	2.023	2.023	2.023	2.023	2.023	2.023	2.023	1.950	1.950	2.167
122.5	2.095	2.167	2.167	2.167	2.167	2.167	2.167	2.095	2.095	2.167
125.0	2.311	2.311	2.311	2.384	2.311	2.311	2.311	2.239	2.239	2.384
127.5	2.600	2.600	2.600	2.600	2.528	2.600	2.600	2.528	2.456	2.528
130.0	2.962	2.889	2.962	2.889	2.962	2.962	2.889	2.889	2.817	2.745

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132.5	3.395	3.323	3.323	3.323	3.323	3.250	3.323	3.250	3.250	3.178
135.0	3.756	3.756	3.828	3.756	3.684	3.684	3.756	3.756	3.612	3.684
137.5	4.190	4.190	4.117	4.190	4.117	4.117	4.190	4.117	4.045	4.262
140.0	4.767	4.767	4.695	4.695	4.767	4.695	4.623	4.695	4.623	4.912
142.5	5.417	5.417	5.345	5.417	5.345	5.273	5.273	5.273	5.273	5.562
145.0	6.357	6.284	6.212	6.212	6.212	6.140	6.068	6.068	6.068	6.357
147.5	7.440	7.223	7.296	7.296	7.151	7.223	7.223	7.151	7.151	7.368
150.0	8.885	8.740	8.740	8.957	8.596	8.596	8.451	8.451	8.740	8.523
152.5	10.690	10.763	10.763	10.618	10.546	10.618	10.402	10.474	10.546	10.329
155.0	13.797	13.869	13.941	13.724	13.797	13.797	13.580	13.652	13.724	16.469
157.5	17.480	17.480	17.697	17.408	17.480	17.191	17.191	17.191	17.408	24.126
160.0	21.598	21.670	21.887	21.598	21.670	21.670	21.381	21.309	21.020	28.965
162.5	25.354	25.498	25.643	25.426	25.426	25.137	25.137	25.137	25.498	32.360
165.0	27.737	27.810	27.737	27.810	27.810	27.665	27.665	27.521	27.304	33.950
167.5	29.182	29.254	29.110	29.182	29.110	28.965	29.038	28.749	28.604	34.600
170.0	29.977	29.977	29.977	29.977	29.977	29.904	29.904	29.760	29.471	34.527
172.5	30.193	30.410	30.193	30.338	30.193	30.121	30.121	30.049	29.904	32.505
175.0	29.832	29.977	29.977	30.049	29.977	29.832	29.832	29.904	29.832	28.965
177.5	28.893	28.893	28.965	28.965	29.038	29.110	29.110	29.110	29.038	27.232
180.0	27.056	27.056	27.056	27.056	27.056	27.056	27.056	27.056	27.056	27.056

**Vert. Horizontal Angles**

	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>170</b>	<b>180</b>	<b>190</b>
0.0	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422
2.5	1528.450	1512.559	1513.281	1511.114	1520.505	1502.446	1506.058	1498.112	1495.945	1488.000
5.0	1522.672	1511.114	1511.114	1508.225	1516.893	1498.835	1502.446	1493.056	1497.390	1490.167
7.5	1514.726	1508.225	1506.058	1503.169	1509.670	1494.501	1498.112	1488.722	1497.390	1490.167
10.0	1505.336	1503.169	1498.835	1495.945	1501.724	1488.000	1491.611	1482.221	1492.334	1488.722
12.5	1492.334	1494.501	1490.167	1487.277	1490.167	1481.499	1482.221	1473.553	1484.388	1484.388
15.0	1476.442	1480.776	1480.054	1476.442	1477.887	1472.108	1473.553	1459.107	1475.720	1477.165
17.5	1458.384	1464.163	1467.774	1462.718	1464.163	1459.107	1461.273	1443.938	1464.163	1467.774
20.0	1439.604	1447.549	1451.161	1444.660	1442.493	1441.771	1444.660	1428.769	1448.994	1454.772
22.5	1416.489	1430.213	1433.103	1424.435	1417.934	1424.435	1421.545	1413.600	1434.547	1439.604
25.0	1393.375	1406.376	1414.322	1401.320	1392.652	1404.932	1396.264	1391.930	1415.767	1419.378
27.5	1370.982	1381.095	1391.930	1376.761	1366.648	1381.817	1372.427	1368.815	1389.763	1396.986
30.0	1345.701	1355.091	1365.204	1350.757	1339.200	1360.147	1349.312	1344.978	1360.147	1371.705
32.5	1321.141	1326.198	1331.254	1322.586	1311.751	1328.365	1323.308	1318.974	1329.087	1341.367
35.0	1295.138	1296.582	1299.472	1291.526	1283.580	1296.582	1292.248	1290.081	1292.248	1305.250
37.5	1265.522	1261.188	1266.967	1262.633	1253.242	1259.021	1256.132	1254.687	1254.687	1261.910
40.0	1230.850	1227.239	1232.295	1231.573	1222.905	1217.848	1219.293	1217.848	1214.959	1219.293
42.5	1194.734	1188.955	1192.567	1196.178	1188.233	1186.066	1183.176	1173.786	1173.064	1178.120
45.0	1154.283	1145.615	1149.949	1158.617	1146.338	1141.281	1147.782	1125.390	1126.835	1129.002
47.5	1113.110	1097.942	1104.443	1115.277	1100.831	1096.497	1101.553	1058.213	1022.097	1048.101
50.0	936.862	1005.483	1056.046	1066.159	1052.435	1049.545	988.870	815.511	785.895	805.398
52.5	827.790	835.736	959.977	1012.707	999.705	946.975	757.002	736.054	735.332	742.555
55.0	765.670	778.672	794.563	959.254	941.196	732.443	701.382	684.046	684.046	691.992
57.5	709.328	726.664	736.777	772.893	741.111	663.821	645.041	632.039	629.149	636.373
60.0	653.709	668.155	677.546	690.547	619.037	608.202	589.421	581.476	567.029	577.142
62.5	579.309	598.089	614.703	546.804	485.406	546.804	529.468	520.078	502.019	512.132
65.0	501.297	520.800	540.303	430.509	423.285	479.627	461.569	451.456	432.676	440.621
67.5	387.169	412.450	439.177	373.445	371.278	376.334	388.614	379.946	384.280	381.390
70.0	261.556	278.747	384.280	295.939	296.155	280.120	274.847	205.431	196.257	191.923
72.5	184.700	200.519	173.359	180.366	216.988	142.227	151.978	146.850	140.349	135.798
75.0	97.153	108.927	115.284	117.957	90.147	95.275	83.863	90.002	82.779	75.700
77.5	56.847	49.696	58.292	51.647	51.936	50.996	32.794	34.383	32.433	33.588

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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	26.076	24.126	24.415	25.209	19.142	19.358	18.347	10.763	9.751	10.546
<b>82.5</b>	8.162	9.535	9.896	9.751	7.440	6.790	7.368	7.584	6.790	5.779
<b>85.0</b>	4.190	4.767	4.406	4.623	4.334	4.334	4.478	4.623	3.973	2.745
<b>87.5</b>	2.528	2.673	2.673	2.817	3.034	2.962	3.106	3.106	2.673	2.456
<b>90.0</b>	1.156	1.372	1.372	1.445	1.589	1.517	1.517	1.517	1.372	1.445
<b>92.5</b>	1.156	1.156	1.228	1.228	1.228	1.156	1.083	1.083	1.083	1.083
<b>95.0</b>	1.300	1.300	1.372	1.300	1.300	1.300	1.228	1.156	1.156	1.228
<b>97.5</b>	1.372	1.372	1.445	1.445	1.445	1.372	1.372	1.300	1.300	1.300
<b>100.0</b>	1.517	1.517	1.517	1.517	1.517	1.517	1.372	1.445	1.372	1.372
<b>102.5</b>	1.661	1.661	1.661	1.661	1.589	1.589	1.517	1.517	1.517	1.517
<b>105.0</b>	1.734	1.734	1.806	1.734	1.734	1.661	1.589	1.589	1.589	1.589
<b>107.5</b>	1.878	1.806	1.806	1.878	1.806	1.806	1.734	1.661	1.661	1.734
<b>110.0</b>	1.878	1.950	1.950	1.878	1.878	1.806	1.806	1.806	1.806	1.734
<b>112.5</b>	2.023	2.023	1.950	1.950	2.023	1.950	1.878	1.878	1.878	1.878
<b>115.0</b>	2.095	2.023	2.095	2.023	2.023	1.950	1.950	1.950	1.950	1.950
<b>117.5</b>	2.095	2.023	2.023	2.095	2.023	2.023	1.950	1.950	1.950	2.023
<b>120.0</b>	2.095	2.095	2.095	2.095	2.023	2.023	2.023	2.023	2.023	2.095
<b>122.5</b>	2.167	2.167	2.167	2.167	2.167	2.167	2.167	2.095	2.167	2.095
<b>125.0</b>	2.311	2.311	2.311	2.311	2.311	2.239	2.239	2.239	2.239	2.239
<b>127.5</b>	2.456	2.456	2.456	2.456	2.456	2.456	2.456	2.456	2.456	2.456
<b>130.0</b>	2.817	2.745	2.745	2.817	2.745	2.745	2.745	2.745	2.673	2.745
<b>132.5</b>	3.178	3.106	3.106	3.106	3.106	3.106	3.106	3.106	3.106	3.106
<b>135.0</b>	3.612	3.684	3.684	3.612	3.612	3.612	3.539	3.612	3.684	3.612
<b>137.5</b>	4.190	4.262	4.190	4.117	4.190	4.117	4.117	4.190	4.190	4.117
<b>140.0</b>	4.840	4.912	4.840	4.767	4.912	4.840	4.767	4.840	4.767	4.767
<b>142.5</b>	5.490	5.490	5.562	5.490	5.490	5.490	5.490	5.490	5.490	5.490
<b>145.0</b>	6.357	6.284	6.284	6.284	6.212	6.284	6.284	6.212	6.357	6.284
<b>147.5</b>	7.296	7.151	7.223	7.151	7.151	7.223	7.223	7.151	7.223	7.151
<b>150.0</b>	8.379	8.307	8.379	8.162	8.235	8.235	8.235	8.235	8.379	8.307
<b>152.5</b>	10.474	10.329	10.185	10.402	10.257	10.113	10.402	10.329	10.257	10.474
<b>155.0</b>	16.036	16.686	16.325	16.975	16.614	16.325	17.047	16.686	16.469	17.191
<b>157.5</b>	24.343	24.126	23.909	24.270	24.126	24.054	24.415	24.198	24.126	24.487
<b>160.0</b>	29.110	28.821	28.677	28.965	28.893	28.749	29.038	28.821	28.821	29.038
<b>162.5</b>	32.144	32.288	32.071	32.144	32.144	32.071	31.999	31.566	30.843	31.277
<b>165.0</b>	33.733	33.805	33.588	33.661	33.588	33.372	32.722	31.999	30.555	31.060
<b>167.5</b>	34.455	34.383	34.238	34.166	33.950	33.588	32.577	31.710	30.771	31.132
<b>170.0</b>	34.311	34.094	33.733	33.372	32.722	31.999	31.205	30.555	30.049	30.049
<b>172.5</b>	32.360	31.999	31.205	30.771	29.616	29.110	28.677	28.099	28.171	28.388
<b>175.0</b>	28.677	28.388	27.882	27.665	27.593	27.232	27.087	27.087	27.015	27.087
<b>177.5</b>	27.160	26.943	26.798	26.798	26.654	26.582	26.510	26.365	26.221	26.004
<b>180.0</b>	27.056	27.056	27.056	27.056	27.056	27.056	27.056	27.056	27.056	27.056

**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>
<b>0.0</b>	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422
<b>2.5</b>	1500.279	1493.778	1497.390	1483.666	1495.223	1493.056	1493.778	1532.062	1532.784	1512.559
<b>5.0</b>	1494.501	1490.889	1494.501	1485.833	1493.056	1490.167	1490.889	1527.005	1529.172	1508.947
<b>7.5</b>	1488.000	1485.833	1491.611	1487.277	1486.555	1485.833	1485.833	1520.505	1522.672	1503.169
<b>10.0</b>	1479.332	1477.165	1484.388	1488.722	1477.165	1477.887	1477.887	1511.114	1512.559	1494.501
<b>12.5</b>	1472.108	1467.052	1475.720	1485.833	1464.885	1467.052	1465.608	1496.668	1498.112	1482.221
<b>15.0</b>	1459.829	1456.939	1461.996	1480.776	1454.050	1454.050	1450.438	1482.221	1482.943	1465.608
<b>17.5</b>	1446.105	1444.660	1448.271	1467.052	1438.159	1438.159	1433.103	1467.052	1469.219	1441.265
<b>20.0</b>	1429.491	1430.213	1433.825	1449.716	1420.823	1420.101	1413.600	1442.276	1439.748	1433.464
<b>22.5</b>	1408.543	1415.044	1414.322	1429.491	1403.487	1398.431	1393.375	1432.741	1428.407	1410.421
<b>25.0</b>	1391.208	1394.097	1389.763	1404.209	1381.817	1374.594	1372.427	1405.004	1401.248	1385.646

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : KH15QF1X37U5KC.IES**

**CANDELA TABULATION - (Cont.)**

27.5	1369.537	1365.926	1364.481	1370.982	1355.813	1348.590	1347.145	1374.377	1371.055	1359.931
30.0	1343.534	1339.200	1339.200	1333.421	1327.642	1324.031	1318.974	1341.006	1339.416	1332.265
32.5	1319.697	1310.307	1310.307	1300.194	1295.860	1294.415	1286.470	1306.406	1307.562	1298.388
35.0	1286.470	1280.691	1279.246	1265.522	1261.188	1261.188	1248.186	1272.890	1275.129	1264.222
37.5	1249.631	1247.464	1243.852	1227.239	1223.627	1223.627	1208.458	1240.096	1236.340	1221.604
40.0	1210.625	1212.070	1207.736	1192.567	1188.955	1186.788	1167.285	1195.817	1193.939	1173.281
42.5	1167.285	1172.341	1170.175	1152.839	1148.505	1136.947	1123.223	1148.143	1144.460	1120.261
45.0	1121.778	1130.446	1122.501	1111.666	1098.664	1089.274	1073.382	1089.490	1086.601	1068.254
47.5	1061.825	1081.328	1073.382	1066.159	1043.767	1031.487	1019.930	1026.792	1016.174	1014.801
50.0	866.074	1023.542	1025.708	1014.874	988.147	975.145	957.087	893.378	917.359	954.198
52.5	725.219	808.287	975.868	957.087	937.584	894.244	768.559	746.672	752.812	769.715
55.0	676.101	688.380	822.012	899.301	855.239	723.775	704.272	691.414	690.547	694.665
57.5	632.039	632.039	641.429	819.122	678.268	663.821	636.373	628.283	626.188	630.666
60.0	574.975	574.252	584.365	594.478	612.536	595.922	563.417	566.523	560.961	561.973
62.5	514.299	512.854	521.522	437.010	541.025	522.245	495.518	494.435	489.090	485.406
65.0	444.233	446.400	435.565	379.223	423.285	443.511	422.563	407.250	398.221	400.460
67.5	374.167	377.056	377.056	312.913	322.520	376.334	378.501	255.922	249.276	248.843
70.0	197.630	231.723	240.391	239.164	205.142	211.498	199.869	183.905	177.549	176.537
72.5	139.482	123.157	118.534	158.696	118.968	121.279	130.742	117.884	112.106	110.589
75.0	86.824	78.662	72.377	60.387	78.156	58.798	60.676	53.091	50.491	48.757
77.5	32.938	33.083	36.117	35.466	34.383	32.505	33.877	26.654	26.510	22.753
80.0	10.402	15.747	16.397	14.663	17.047	18.058	15.747	13.652	13.435	11.268
82.5	5.417	5.779	5.851	6.212	6.862	6.068	6.862	6.212	6.068	5.056
85.0	2.384	2.817	3.539	4.190	3.973	3.756	3.684	3.034	3.178	2.889
87.5	2.167	2.600	2.673	2.745	2.600	2.528	2.384	1.950	1.661	1.445
90.0	1.445	1.445	1.300	1.300	1.228	1.228	1.228	0.939	1.011	1.011
92.5	1.156	1.228	1.300	1.300	1.300	1.372	1.372	1.083	1.083	1.083
95.0	1.228	1.300	1.372	1.372	1.445	1.445	1.445	1.156	1.156	1.228
97.5	1.372	1.445	1.517	1.589	1.517	1.589	1.589	1.300	1.372	1.372
100.0	1.445	1.517	1.589	1.661	1.661	1.734	1.734	1.372	1.445	1.445
102.5	1.517	1.661	1.734	1.806	1.806	1.806	1.878	1.517	1.589	1.589
105.0	1.661	1.734	1.806	1.878	1.950	1.950	1.950	1.589	1.661	1.661
107.5	1.806	1.806	1.950	1.950	2.023	2.023	2.095	1.734	1.734	1.734
110.0	1.878	1.878	1.950	2.023	2.167	2.095	2.095	1.878	1.806	1.806
112.5	1.878	2.023	2.095	2.167	2.167	2.167	2.239	1.878	1.950	1.878
115.0	2.023	2.023	2.095	2.167	2.167	2.167	2.239	2.023	1.950	2.023
117.5	2.023	2.023	2.167	2.167	2.167	2.239	2.239	2.095	2.095	2.095
120.0	2.095	2.095	2.167	2.167	2.239	2.239	2.239	2.167	2.095	2.167
122.5	2.095	2.167	2.239	2.239	2.239	2.311	2.311	2.239	2.311	2.311
125.0	2.239	2.311	2.311	2.384	2.456	2.456	2.456	2.456	2.456	2.456
127.5	2.456	2.528	2.528	2.528	2.600	2.600	2.600	2.673	2.745	2.745
130.0	2.745	2.817	2.817	2.889	2.817	2.889	2.889	3.034	3.034	3.034
132.5	3.178	3.178	3.178	3.250	3.250	3.323	3.323	3.467	3.395	3.395
135.0	3.684	3.684	3.612	3.756	3.684	3.828	3.756	3.828	3.828	3.901
137.5	4.190	4.190	4.190	4.262	4.262	4.334	4.334	4.262	4.190	4.262
140.0	4.767	4.840	4.840	4.840	4.912	4.912	4.912	4.840	4.767	4.840
142.5	5.490	5.490	5.490	5.490	5.562	5.562	5.634	5.417	5.417	5.490
145.0	6.140	6.212	6.212	6.357	6.357	6.284	6.429	6.284	6.284	6.429
147.5	7.151	7.223	7.079	7.296	7.223	7.223	7.223	7.296	7.368	7.296
150.0	8.235	8.307	8.307	8.451	8.379	8.379	8.307	8.812	8.812	8.740
152.5	10.329	10.257	10.474	10.402	10.618	10.113	10.402	10.979	11.052	10.763
155.0	16.830	16.469	17.191	16.903	17.625	17.336	16.903	14.158	14.302	13.941
157.5	24.343	24.126	24.559	24.415	24.776	24.559	24.343	17.842	17.480	17.625
160.0	28.965	28.821	28.677	29.038	28.893	29.110	28.965	22.031	21.598	21.670
162.5	32.071	32.071	31.999	32.216	32.071	32.288	32.144	25.643	25.354	25.426
165.0	32.722	33.372	33.516	33.661	33.588	33.661	33.661	27.593	27.593	27.593

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : KH15QF1X37U5KC.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	31.638	32.938	33.733	34.094	34.166	34.238	34.238	28.965	28.965	28.893
<b>170.0</b>	29.832	30.771	32.505	33.155	33.661	34.094	34.022	29.688	29.616	29.616
<b>172.5</b>	28.243	28.026	29.471	30.266	30.771	31.638	31.783	29.616	29.688	29.688
<b>175.0</b>	26.943	26.582	26.510	26.798	27.376	28.026	28.460	29.327	29.254	29.327
<b>177.5</b>	25.859	25.787	25.715	25.715	25.859	26.293	26.582	28.604	28.604	28.388
<b>180.0</b>	27.056	27.056	27.056	27.056	27.056	27.056	27.056	27.056	27.056	27.056

**Vert. Horizontal Angles**  
**Angles**

	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>	<b>350</b>	<b>360</b>
<b>0.0</b>	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422	1503.422
<b>2.5</b>	1508.947	1506.780	1519.060	1498.835	1503.169	1499.557	1486.555
<b>5.0</b>	1504.613	1502.446	1514.004	1494.501	1498.112	1498.835	1479.332
<b>7.5</b>	1499.557	1496.668	1501.002	1487.277	1488.722	1491.611	1469.219
<b>10.0</b>	1492.334	1488.000	1485.833	1479.332	1480.776	1484.388	1456.939
<b>12.5</b>	1481.499	1477.887	1467.774	1470.664	1470.664	1475.720	1440.109
<b>15.0</b>	1467.774	1464.163	1440.109	1459.829	1456.939	1462.718	1429.274
<b>17.5</b>	1441.193	1436.786	1431.875	1439.604	1436.931	1439.820	1409.193
<b>20.0</b>	1436.642	1427.107	1410.710	1436.425	1422.990	1430.069	1391.930
<b>22.5</b>	1411.288	1402.981	1387.885	1416.489	1402.765	1405.365	1371.921
<b>25.0</b>	1383.045	1378.639	1363.759	1389.763	1382.395	1378.783	1349.818
<b>27.5</b>	1356.174	1351.263	1343.750	1359.858	1357.908	1352.202	1326.776
<b>30.0</b>	1327.498	1322.297	1323.236	1329.882	1328.654	1327.426	1301.494
<b>32.5</b>	1294.632	1291.959	1293.332	1297.449	1297.594	1294.704	1272.023
<b>35.0</b>	1258.588	1261.044	1262.127	1263.066	1264.511	1260.466	1239.807
<b>37.5</b>	1222.471	1224.060	1229.983	1222.110	1229.767	1223.555	1202.318
<b>40.0</b>	1180.648	1183.176	1187.872	1180.937	1185.921	1186.066	1162.229
<b>42.5</b>	1132.830	1136.947	1142.509	1142.798	1142.726	1142.726	1117.950
<b>45.0</b>	1082.773	1089.418	1099.892	1093.030	1094.908	1093.752	1065.292
<b>47.5</b>	1027.659	1046.439	1047.595	1041.889	1040.155	1031.704	966.983
<b>50.0</b>	967.561	991.904	987.931	983.958	917.720	787.484	734.754
<b>52.5</b>	888.466	926.894	919.165	829.885	705.427	704.633	677.546
<b>55.0</b>	706.439	855.961	845.704	664.616	648.363	645.980	629.366
<b>57.5</b>	642.946	680.579	644.102	605.890	593.322	584.871	576.275
<b>60.0</b>	583.065	593.755	537.269	547.237	532.213	517.260	512.999
<b>62.5</b>	506.642	420.902	407.683	481.577	459.546	443.727	442.427
<b>65.0</b>	425.091	338.989	346.935	401.977	377.706	371.350	360.443
<b>67.5</b>	290.449	267.190	278.964	266.034	213.737	201.024	197.702
<b>70.0</b>	147.717	174.226	196.979	134.137	144.827	143.455	141.649
<b>72.5</b>	97.515	97.803	87.619	89.280	86.824	90.219	83.863
<b>75.0</b>	46.735	43.340	44.568	43.557	31.710	33.155	31.855
<b>77.5</b>	23.548	21.237	15.024	16.036	11.341	9.607	9.318
<b>80.0</b>	9.679	8.379	6.501	6.140	6.718	6.934	6.645
<b>82.5</b>	4.334	4.262	4.190	4.045	4.262	4.117	3.973
<b>85.0</b>	2.889	2.889	2.817	2.745	2.889	2.817	2.889
<b>87.5</b>	1.372	1.228	1.083	1.156	1.011	0.939	1.083
<b>90.0</b>	1.011	1.011	1.011	0.939	0.939	0.867	0.867
<b>92.5</b>	1.083	1.156	1.083	1.011	1.011	1.011	0.939
<b>95.0</b>	1.228	1.228	1.228	1.156	1.083	1.011	1.011
<b>97.5</b>	1.300	1.372	1.300	1.300	1.228	1.156	1.083
<b>100.0</b>	1.445	1.445	1.445	1.372	1.300	1.228	1.228
<b>102.5</b>	1.589	1.517	1.589	1.517	1.445	1.372	1.372
<b>105.0</b>	1.661	1.661	1.589	1.589	1.589	1.445	1.445
<b>107.5</b>	1.806	1.734	1.734	1.734	1.661	1.589	1.589
<b>110.0</b>	1.878	1.878	1.878	1.806	1.734	1.661	1.661
<b>112.5</b>	1.950	1.950	1.950	1.878	1.878	1.806	1.734

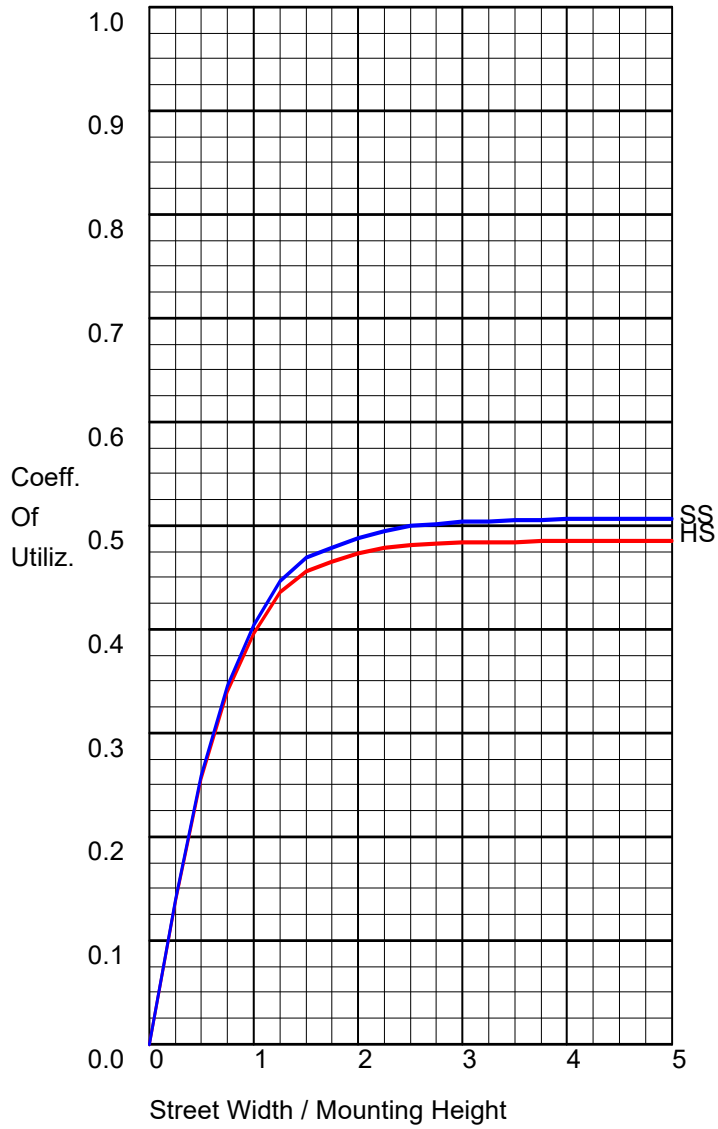
**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : KH15QF1X37U5KC.IES**

**CANDELA TABULATION - (Cont.)**

<b>115.0</b>	2.023	2.095	2.023	1.950	1.878	1.878	1.806
<b>117.5</b>	2.095	2.095	2.095	2.023	1.950	1.950	1.878
<b>120.0</b>	2.167	2.167	2.167	2.095	2.023	2.023	2.023
<b>122.5</b>	2.311	2.311	2.239	2.239	2.239	2.167	2.095
<b>125.0</b>	2.456	2.456	2.456	2.456	2.384	2.311	2.311
<b>127.5</b>	2.673	2.745	2.673	2.673	2.673	2.600	2.600
<b>130.0</b>	3.034	3.034	3.034	3.034	2.962	2.962	2.962
<b>132.5</b>	3.467	3.395	3.467	3.467	3.395	3.395	3.395
<b>135.0</b>	3.901	3.901	3.756	3.828	3.828	3.756	3.756
<b>137.5</b>	4.334	4.190	4.262	4.262	4.190	4.190	4.190
<b>140.0</b>	4.840	4.840	4.767	4.695	4.695	4.840	4.767
<b>142.5</b>	5.417	5.490	5.490	5.345	5.417	5.417	5.417
<b>145.0</b>	6.284	6.212	6.212	6.284	6.212	6.212	6.357
<b>147.5</b>	7.368	7.368	7.296	7.296	7.223	7.368	7.440
<b>150.0</b>	8.812	8.885	8.740	8.812	8.740	8.812	8.885
<b>152.5</b>	10.907	10.979	10.763	10.690	10.690	10.835	10.690
<b>155.0</b>	14.085	13.797	13.941	13.797	13.869	14.085	13.797
<b>157.5</b>	17.842	17.480	17.697	17.408	17.553	17.697	17.480
<b>160.0</b>	21.959	22.031	21.814	21.525	21.670	21.959	21.598
<b>162.5</b>	25.570	25.426	25.426	25.354	25.498	25.570	25.354
<b>165.0</b>	27.521	27.665	27.593	27.665	27.810	27.954	27.737
<b>167.5</b>	28.821	28.965	28.965	28.965	29.110	29.110	29.182
<b>170.0</b>	29.616	29.616	29.760	29.760	29.904	29.904	29.977
<b>172.5</b>	29.760	29.904	29.904	30.049	30.121	30.193	30.193
<b>175.0</b>	29.471	29.616	29.688	29.616	29.760	29.904	29.832
<b>177.5</b>	28.388	28.532	28.604	28.821	28.749	28.604	28.893
<b>180.0</b>	27.056	27.056	27.056	27.056	27.056	27.056	27.056



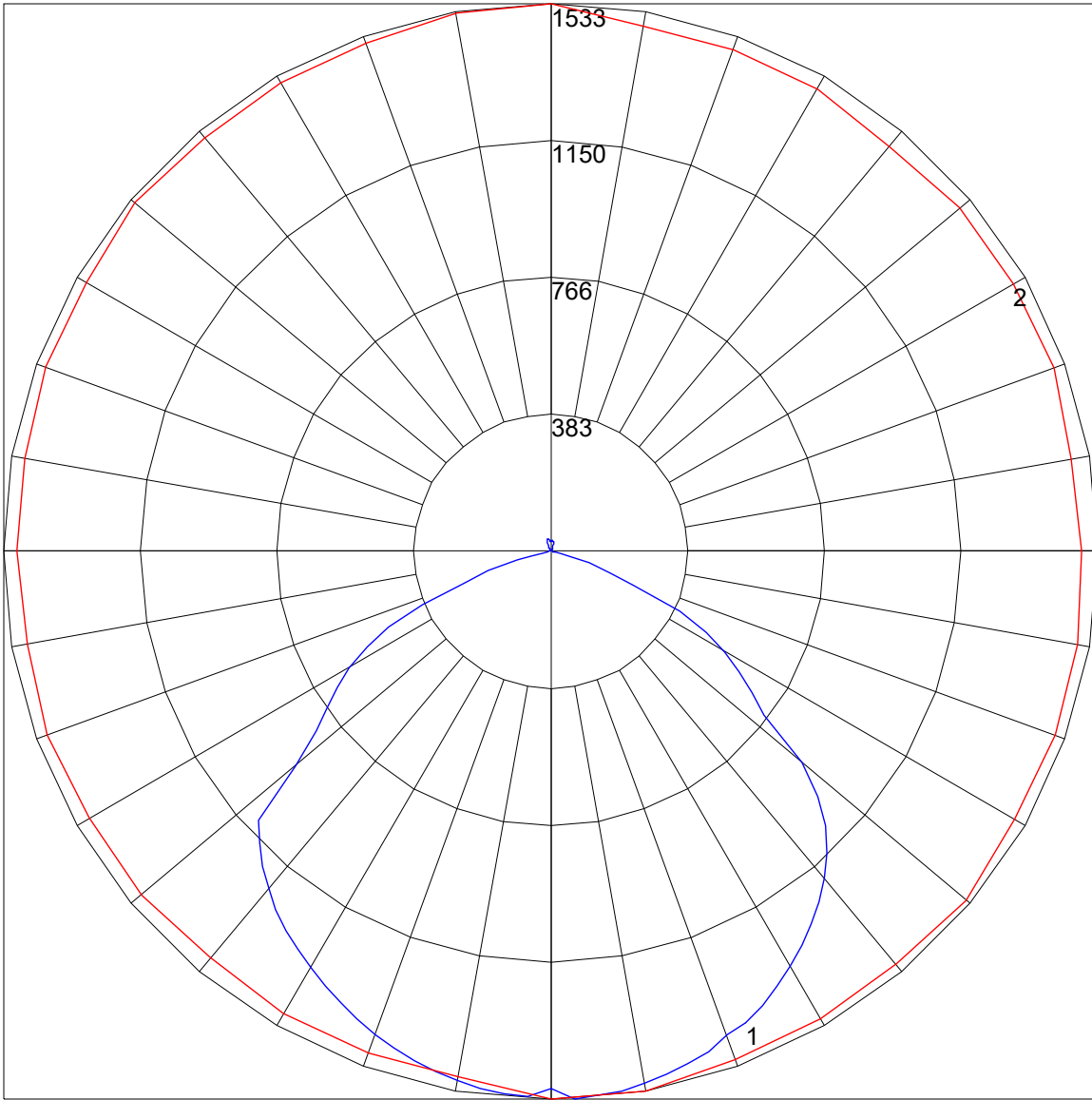
**COEFFICIENTS OF UTILIZATION**



**FLUX DISTRIBUTION**

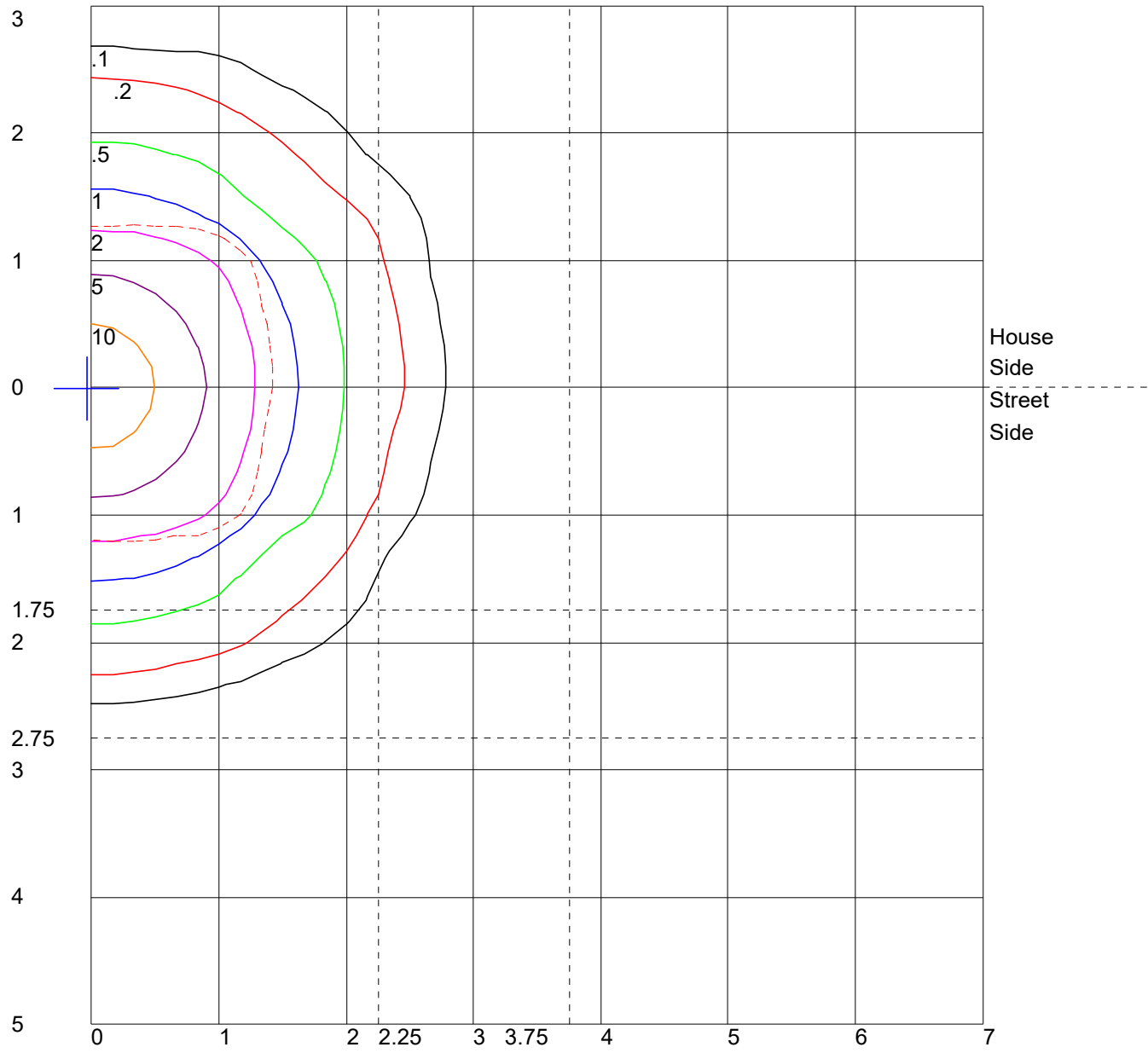
	Lumens	Percent Of Luminaire
Downward Street Side	1966.8	48.5
Downward House Side	2054.8	50.7
Downward Total	4021.6	99.2
Upward Street Side	15.4	0.4
Upward House Side	16.9	0.4
Upward Total	32.3	0.8
Total Flux	4053.9	100.0

POLAR GRAPH



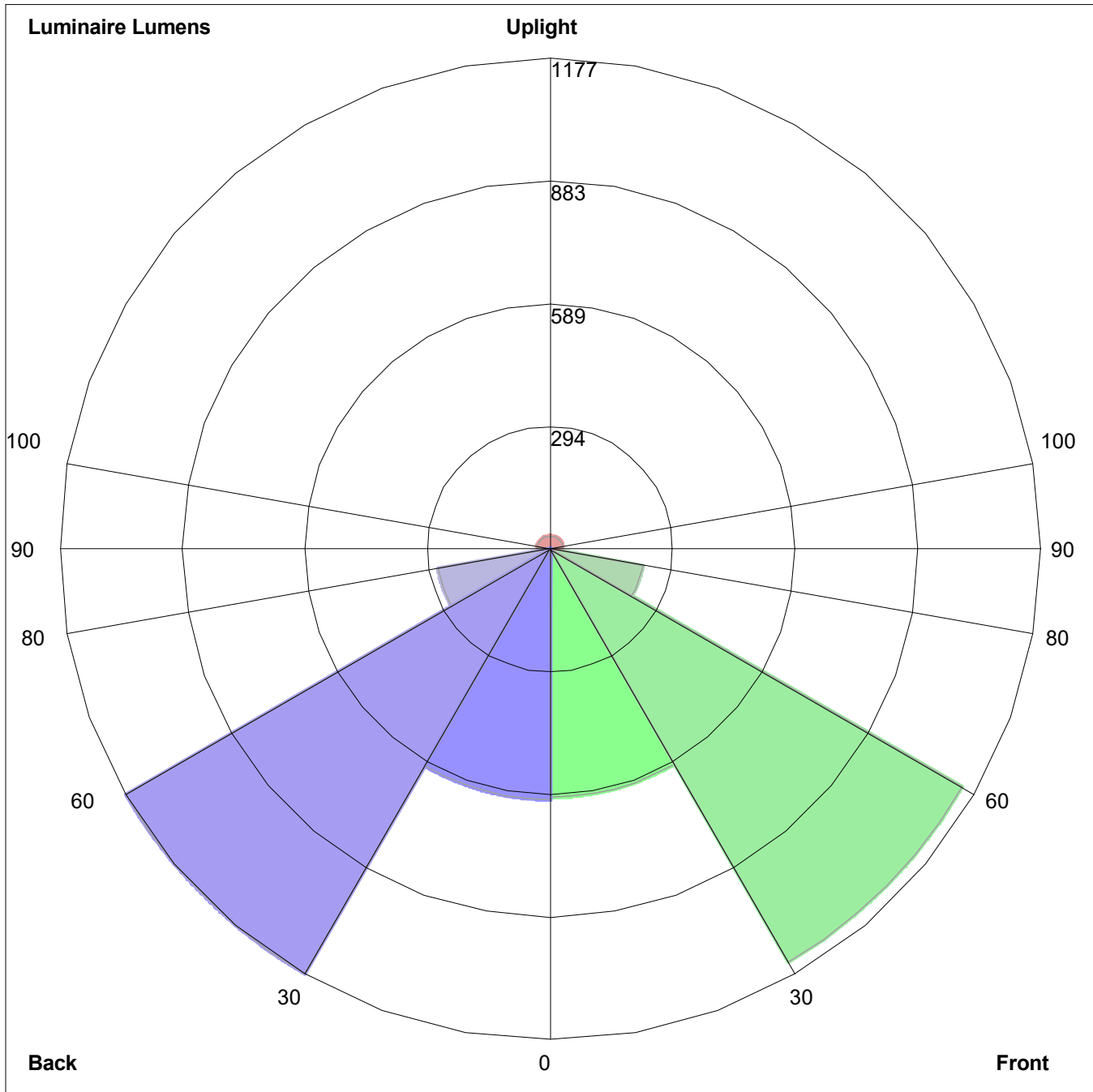
Maximum Candela = 1532.784 Located At Horizontal Angle = 280, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (280 - 100) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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=596.0, Medium=1142.9, High=225.9, Very High=2.0  
Back: Low=601.2, Medium=1177.1, High=273.4, Very High=3.1  
Uplight: Low=1.3, High=31.0

BUG Rating : B2-U2-G0