



IES FLOOD REPORT

PHOTOMETRIC FILENAME : FLS 1 MD F UV 740.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] UL Verification Services (Guangzhou) Co., Ltd.

[TESTDATE] 2/26/2015

[ISSUEDATE] 2/26/2015

[MANUFAC] LumenFocus, LLC

[LUMCAT] FLS 1 MD F UV 740

[LUMINAIRE]

[LAMPCAT]

[LAMP]

Note: Candela values converted from Type-C to Type-B

CHARACTERISTICS

NEMA Type	6 H x 6 V
Maximum Candela	1462.45
Maximum Candela Angle	-1H -3V
Horizontal Beam Angle (50%)	73.7
Vertical Beam Angle (50%)	87.0
Horizontal Field Angle (10%)	106.3
Vertical Field Angle (10%)	114.1
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1671
Beam Efficiency	N.A.
Field Lumens	2270
Field Efficiency	N.A.
Spill Lumens	68
Luminaire Lumens	2338
Total Efficiency	N.A.
Total Luminaire Watts	19.566
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.051	90	.091
85	.091	85	.35
75	5.297	75	24.761
65	71.111	65	41.299
55	41.713	55	464.403
47.5	408.327	47.5	863.536
42.5	630.687	42.5	1076.959
37.5	707.742	37.5	1156.733
33	846.441	33	1236.379
29	1018.552	29	1296.469
25.5	1110.241	25.5	1315.376
22.5	1170.849	22.5	1349.824
19.5	1186.519	19.5	1408.749
17	1201.024	17	1426.88
15	1221.615	15	1438.665
13	1254.768	13	1426.88
11	1284.943	11	1404.605
9	1320.297	9	1368.344
7	1351.379	7	1345.292
5	1384.532	5	1349.177
3	1399.036	3	1381.942
1	1436.722	1	1423.124
0	1442.923	0	1442.923
-1	1451.874	-1	1450.449
-3	1411.857	-3	1453.169
-5	1374.43	-5	1439.571
-7	1357.077	-7	1409.915
-9	1332.859	-9	1367.567
-11	1311.621	-11	1331.694
-13	1295.174	-13	1316.671
-15	1269.532	-15	1288.828
-17	1233.789	-17	1271.604
-19.5	1191.829	-19.5	1230.162
-22.5	1167.094	-22.5	1176.289
-25.5	1137.178	-25.5	1113.738
-29	1072.944	-29	1057.662
-33	900.056	-33	940.85
-37.5	717.066	-37.5	703.986
-42.5	624.211	-42.5	564.121
-47.5	468.677	-47.5	253.699
-55	68.637	-55	45.301
-65	70.593	-65	16.033
-75	5.815	-75	2.797
-85	.104	-85	.557
-90	.065	-90	.118

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CANDELA TABULATION

Maximum Candela = 1462.45

Beam Edge = 731.225 Cd (50% of Max.)

Field Edge = 146.245 Cd (10% of Max.)

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	-90.0	-85.0	-75.0	-65.0	-55.0	-47.5	-42.5	-37.5	-33.0	-29.0
90.0	0.065	0.068	0.074	0.080	0.085	0.090	0.093	0.095	0.098	0.100
85.0	0.065	0.061	0.078	0.079	0.093	0.090	0.112	0.155	0.186	0.217
75.0	0.065	0.078	0.087	0.173	0.622	1.326	1.785	4.334	7.153	10.020
65.0	0.065	0.085	0.159	3.403	4.243	6.735	9.129	12.983	14.557	15.685
55.0	0.065	0.104	0.494	5.530	18.510	29.986	65.827	126.486	180.335 *	241.747 *
47.5	0.065	0.084	2.952	9.585	39.689	92.357	226.582 *	406.030 *	508.110 *	559.414 *
42.5	0.065	0.083	3.643	15.961	49.379	145.945	300.192 *	470.967 *	568.253 *	634.171 *
37.5	0.065	0.091	4.043	25.250	44.457	173.493 *	366.992 *	534.848 *	623.801 *	704.058 *
33.0	0.065	0.100	4.322	32.702	41.364	208.191 *	442.593 *	599.058 *	690.465 *	795.782 *
29.0	0.065	0.108	4.579	41.147	43.081	261.966 *	517.395 *	642.813 *	747.820 *	877.791 *
25.5	0.065	0.114	4.832	48.062	44.633	319.662 *	566.911 *	671.701 *	786.032 *	925.030 *
22.5	0.065	0.113	5.018	53.342	60.138	382.020 *	594.492 *	683.624 *	807.105 *	955.146 *
19.5	0.065	0.111	5.188	56.313	57.112	419.518 *	603.947 *	690.748 *	828.040 *	975.731 *
17.0	0.065	0.110	5.315	58.616	60.043	441.769 *	612.374 *	695.312 *	842.366 *	1004.526 *
15.0	0.065	0.109	5.420	60.368	64.926	455.558 *	621.277 *	707.977 *	857.395 *	1028.093 *
13.0	0.065	0.108	5.515	61.868	68.467	466.099 *	625.695 *	714.399 *	876.348 *	1054.768 *
11.0	0.065	0.105	5.612	63.351	71.075	473.886 *	627.473 *	722.746 *	897.825 *	1057.323 *
9.0	0.065	0.105	5.691	64.843	71.212	479.865 *	629.311 *	731.143 *	909.559 *	1063.214 *
7.0	0.065	0.105	5.751	66.288	75.281	482.455 *	630.084 *	734.959 *	913.522 *	1067.467 *
5.0	0.065	0.105	5.849	67.658	76.678	481.911 *	629.951 *	732.323 *	915.720 *	1071.216 *
3.0	0.065	0.104	5.835	69.102	78.325	482.694 *	630.062 *	728.012 *	913.054 *	1073.512 *
1.0	0.065	0.104	5.822	70.096	71.869	473.355 *	626.164 *	721.438 *	906.214 *	1074.366 *
0.0	0.065	0.104	5.815	70.593	68.637	468.677 *	624.211 *	717.066 *	900.056 *	1072.944 *
-1.0	0.065	0.104	5.796	69.474	68.044	469.948 *	623.012 *	717.958 *	900.012 *	1069.799 *
-3.0	0.065	0.105	5.758	67.239	66.860	472.486 *	620.617 *	717.073 *	894.664 *	1059.563 *
-5.0	0.065	0.106	5.720	64.519	58.419	464.200 *	614.222 *	712.630 *	885.717 *	1047.259 *
-7.0	0.065	0.106	5.576	61.848	50.874	456.760 *	608.114 *	704.988 *	872.091 *	1031.657 *
-9.0	0.065	0.107	5.471	59.060	41.795	445.844 *	601.207 *	693.092 *	856.004 *	1010.772 *
-11.0	0.065	0.108	5.350	56.169	39.989	431.448 *	593.442 *	679.457 *	837.038 *	983.791 *
-13.0	0.065	0.111	5.216	53.278	38.111	406.709 *	586.080 *	666.035 *	810.677 *	956.874 *
-15.0	0.065	0.113	5.087	50.326	36.719	379.429 *	576.975 *	651.829 *	787.746 *	920.634 *
-17.0	0.065	0.114	4.940	47.156	35.308	351.090 *	563.120 *	636.915 *	764.828 *	888.095 *
-19.5	0.065	0.117	4.763	43.129	33.953	266.750 *	543.221 *	619.036 *	728.690 *	845.709 *
-22.5	0.065	0.119	4.518	38.346	33.123	243.739 *	518.643 *	599.894 *	691.455 *	802.028 *
-25.5	0.065	0.122	4.238	31.865	32.285	187.522 *	464.879 *	571.763 *	659.035 *	754.185 *
-29.0	0.065	0.117	3.892	24.705	31.435	114.275	376.614 *	532.475 *	616.021 *	698.688 *
-33.0	0.065	0.110	3.499	17.527	28.536	70.329	292.743 *	469.790 *	539.700 *	627.716 *
-37.5	0.065	0.103	3.065	13.448	22.411	41.920	165.484 *	369.192 *	473.791 *	519.297 *
-42.5	0.065	0.095	2.550	9.173	15.517	22.376	74.145	224.875 *	387.522 *	393.639 *
-47.5	0.065	0.096	1.850	5.849	10.437	16.195	19.208	71.851	186.430 *	214.291 *
-55.0	0.065	0.113	0.445	3.796	6.643	7.911	8.795	11.158	19.333	27.285
-65.0	0.065	0.095	0.232	1.166	2.983	3.525	3.628	4.625	6.014	7.695
-75.0	0.065	0.082	0.142	0.288	0.552	0.895	1.125	1.459	1.837	2.174
-85.0	0.065	0.064	0.092	0.138	0.210	0.284	0.322	0.362	0.418	0.463
-90.0	0.065	0.068	0.074	0.081	0.093	0.102	0.103	0.101	0.098	0.096

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>-25.5</u>	<u>-22.5</u>	<u>-19.5</u>	<u>-17.0</u>	<u>-15.0</u>	<u>-13.0</u>	<u>-11.0</u>	<u>-9.0</u>	<u>-7.0</u>	<u>-5.0</u>
90.0	0.102	0.104	0.102	0.101	0.100	0.098	0.097	0.096	0.095	0.094
85.0	0.246	0.268	0.278	0.288	0.296	0.304	0.324	0.329	0.334	0.338
75.0	12.867	15.131	16.558	17.596	18.519	19.338	20.218	21.101	21.974	23.006
65.0	15.488	14.905	15.590	18.851	21.519	24.228	26.920	29.581	32.227	34.852
55.0	314.719 *	384.242 *	480.466 *	493.640 *	488.152 *	484.285 *	478.781 *	476.332 *	477.759 *	478.429 *
47.5	605.966 *	644.543 *	694.193 *	748.054 *	769.382 *	783.328 *	795.665 *	807.615 *	821.577 *	836.542 *
42.5	700.070 *	753.931 *	809.872 *	851.011 *	880.734 *	908.728 *	936.209 *	964.477 *	991.089 *	1017.418 *
37.5	789.489 *	847.325 *	900.574 *	930.362 *	950.803 *	977.658 *	1012.063 *	1046.246 *	1074.862 *	1099.677 *
33.0	889.224 *	949.845 *	1002.628 *	1031.674 *	1050.954 *	1066.886 *	1102.197 *	1129.154 *	1154.061 *	1179.270 *
29.0	993.162 *	1041.988 *	1070.638 *	1098.035 *	1114.752 *	1129.937 *	1146.854 *	1175.469 *	1204.497 *	1232.709 *
25.5	1025.563 *	1081.645 *	1113.069 *	1135.417 *	1152.361 *	1165.639 *	1177.978 *	1201.415 *	1234.584 *	1260.267 *
22.5	1049.363 *	1106.302 *	1142.320 *	1165.697 *	1182.210 *	1200.141 *	1217.515 *	1237.674 *	1268.512 *	1295.503 *
19.5	1081.823 *	1125.923 *	1164.843 *	1191.710 *	1212.677 *	1233.750 *	1258.057 *	1282.420 *	1305.776 *	1336.352 *
17.0	1096.476 *	1136.060 *	1173.660 *	1206.538 *	1229.463 *	1256.625 *	1278.590 *	1298.108 *	1320.926 *	1351.221 *
15.0	1102.254 *	1139.802 *	1176.132 *	1204.650 *	1240.991 *	1263.888 *	1283.110 *	1301.722 *	1323.295 *	1354.009 *
13.0	1105.155 *	1140.354 *	1169.073 *	1200.965 *	1233.165 *	1258.978 *	1273.437 *	1290.412 *	1313.320 *	1337.947 *
11.0	1105.573 *	1136.102 *	1155.932 *	1190.779 *	1221.386 *	1241.718 *	1251.653 *	1269.279 *	1291.720 *	1313.351 *
9.0	1112.505 *	1133.282 *	1140.298 *	1178.427 *	1206.234 *	1230.393 *	1242.215 *	1247.429 *	1267.732 *	1289.434 *
7.0	1120.025 *	1139.716 *	1144.752 *	1168.813 *	1195.823 *	1224.438 *	1240.174 *	1249.868 *	1257.704 *	1284.967 *
5.0	1126.105 *	1146.255 *	1161.264 *	1188.238 *	1214.757 *	1230.904 *	1246.758 *	1265.683 *	1284.246 *	1297.268 *
3.0	1131.565 *	1154.556 *	1175.163 *	1207.893 *	1238.071 *	1258.012 *	1272.336 *	1290.549 *	1318.897 *	1333.593 *
1.0	1136.105 *	1163.234 *	1187.038 *	1226.436 *	1260.223 *	1283.504 *	1299.986 *	1320.807 *	1346.740 *	1363.716 *
0.0	1137.178 *	1167.094 *	1191.829 *	1233.789 *	1269.532 *	1295.174 *	1311.621 *	1332.859 *	1357.077 *	1374.430 *
-1.0	1132.100 *	1161.234 *	1187.314 *	1229.295 *	1264.234 *	1290.073 *	1307.930 *	1333.149 *	1357.496 *	1376.378 *
-3.0	1119.576 *	1147.930 *	1175.623 *	1215.964 *	1249.080 *	1276.778 *	1295.392 *	1325.015 *	1354.440 *	1384.413 *
-5.0	1106.209 *	1133.534 *	1161.434 *	1199.872 *	1230.992 *	1259.702 *	1281.652 *	1316.983 *	1357.237 *	1391.879 *
-7.0	1090.899 *	1118.295 *	1144.527 *	1178.157 *	1211.958 *	1243.121 *	1270.556 *	1306.823 *	1345.579 *	1378.078 *
-9.0	1073.878 *	1100.456 *	1127.982 *	1164.554 *	1196.293 *	1224.029 *	1251.158 *	1279.528 *	1319.911 *	1346.131 *
-11.0	1056.129 *	1085.670 *	1116.419 *	1150.544 *	1180.280 *	1203.689 *	1227.874 *	1258.377 *	1289.430 *	1317.729 *
-13.0	1035.355 *	1070.211 *	1102.214 *	1133.463 *	1163.384 *	1187.471 *	1210.276 *	1237.718 *	1265.659 *	1290.293 *
-15.0	1010.660 *	1046.863 *	1080.959 *	1113.873 *	1140.085 *	1170.877 *	1196.356 *	1219.107 *	1242.241 *	1260.668 *
-17.0	976.945 *	1017.591 *	1054.908 *	1086.778 *	1116.827 *	1144.657 *	1173.320 *	1197.633 *	1218.268 *	1237.261 *
-19.5	928.556 *	978.247 *	1013.182 *	1048.695 *	1080.544 *	1111.017 *	1134.631 *	1158.782 *	1181.912 *	1199.931 *
-22.5	876.115 *	924.823 *	961.991 *	998.280 *	1028.524 *	1055.428 *	1079.277 *	1106.080 *	1128.010 *	1145.656 *
-25.5	826.036 *	874.947 *	919.255 *	951.486 *	972.646 *	994.138 *	1018.491 *	1042.200 *	1064.406 *	1085.171 *
-29.0	774.600 *	819.420 *	858.444 *	890.675 *	918.627 *	941.323 *	957.089 *	977.569 *	997.859 *	1017.117 *
-33.0	680.708 *	724.719 *	759.300 *	794.154 *	830.474 *	850.268 *	865.160 *	882.328 *	897.269 *	912.915 *
-37.5	562.579 *	613.633 *	646.925 *	663.453 *	678.127 *	692.483 *	699.235 *	704.493 *	709.894 *	710.968 *
-42.5	418.039 *	481.022 *	516.305 *	534.193 *	547.604 *	557.258 *	567.268 *	572.912 *	574.455 *	573.813 *
-47.5	220.064 *	209.091 *	230.085 *	238.765 *	235.162 *	248.589 *	281.558 *	309.252 *	314.365 *	301.293 *
-55.0	35.284	43.230	46.026	45.125	45.574	45.953	46.327	46.585	46.632	46.465
-65.0	9.740	11.705	13.570	14.881	15.605	15.991	16.267	16.488	16.592	16.579
-75.0	2.472	2.693	2.801	2.847	2.880	2.893	2.905	2.907	2.898	2.904
-85.0	0.498	0.530	0.543	0.551	0.555	0.558	0.563	0.562	0.561	0.560
-90.0	0.094	0.092	0.096	0.099	0.101	0.103	0.105	0.108	0.110	0.112

Vert. Angles	Horizontal Angles									
	<u>-3.0</u>	<u>-1.0</u>	<u>0.0</u>	<u>1.0</u>	<u>3.0</u>	<u>5.0</u>	<u>7.0</u>	<u>9.0</u>	<u>11.0</u>	<u>13.0</u>
90.0	0.093	0.092	0.091	0.092	0.093	0.094	0.095	0.096	0.097	0.098
85.0	0.343	0.348	0.350	0.349	0.348	0.347	0.346	0.345	0.344	0.319
75.0	23.708	24.410	24.761	24.948	25.322	25.697	25.564	25.568	25.452	25.205
65.0	37.491	40.030	41.299	41.275	41.227	41.069	40.916	40.729	40.508	40.235

CANDELA TABULATION - (Cont.)

55.0	483.703	* 470.839	* 464.403	* 469.820	* 480.648	* 471.907	* 466.719	* 458.886	* 449.583	* 439.441	*
47.5	853.777	* 860.281	* 863.536	* 861.093	* 856.211	* 838.185	* 820.656	* 801.759	* 782.387	* 765.587	*
42.5	1043.973	*1065.953	*1076.959	*1068.457	*1051.479	*1030.004	*1008.795	*986.702	* 962.195	* 937.614	*
37.5	1123.711	*1146.287	*1156.733	*1148.887	*1131.575	*1112.968	*1093.764	*1071.728	*1048.294	*1022.426	*
33.0	1203.423	*1226.236	*1236.379	*1228.730	*1211.019	*1192.263	*1172.517	*1152.580	*1127.634	*1099.449	*
29.0	1258.955	*1284.292	*1296.469	*1287.425	*1268.420	*1248.667	*1227.599	*1206.185	*1183.410	*1160.430	*
25.5	1283.110	*1304.725	*1315.376	*1307.879	*1292.315	*1274.852	*1254.440	*1232.167	*1208.383	*1185.596	*
22.5	1319.458	*1340.625	*1349.824	*1343.436	*1328.105	*1310.475	*1291.140	*1266.641	*1240.591	*1210.764	*
19.5	1366.383	*1395.397	*1408.749	*1402.116	*1384.917	*1362.983	*1337.594	*1308.864	*1277.157	*1247.620	*
17.0	1381.642	*1412.406	*1426.880	*1419.663	*1403.464	*1387.523	*1369.893	*1341.779	*1306.350	*1271.217	*
15.0	1388.136	*1421.588	*1438.665	*1429.627	*1412.484	*1394.888	*1371.925	*1343.813	*1317.312	*1286.750	*
13.0	1372.268	*1407.471	*1426.880	*1416.282	*1399.831	*1384.828	*1361.260	*1336.044	*1311.727	*1284.354	*
11.0	1344.600	*1382.734	*1404.605	*1391.729	*1372.504	*1357.410	*1335.514	*1316.788	*1293.678	*1264.486	*
9.0	1315.482	*1349.545	*1368.344	*1356.068	*1337.959	*1322.720	*1306.723	*1288.395	*1264.496	*1236.350	*
7.0	1303.408	*1332.813	*1345.292	*1335.205	*1315.981	*1297.675	*1281.626	*1260.056	*1232.218	*1205.570	*
5.0	1324.110	*1347.091	*1349.177	*1341.811	*1312.454	*1284.742	*1273.389	*1240.824	*1206.084	*1186.938	*
3.0	1360.127	*1384.310	*1381.942	*1375.786	*1323.176	*1309.116	*1282.749	*1254.731	*1231.823	*1213.768	*
1.0	1403.158	*1436.754	*1423.124	*1405.268	*1373.293	*1359.987	*1331.683	*1301.296	*1268.701	*1242.103	*
0.0	1411.857	*1451.874	*1442.923	*1436.722	*1399.036	*1384.532	*1351.379	*1320.297	*1284.943	*1254.768	*
-1.0	1412.965	*1458.176	*1450.449	*1450.072	*1409.334	*1390.311	*1359.900	*1324.894	*1289.018	*1257.032	*
-3.0	1438.750	*1462.450	*1453.169	*1443.260	*1410.420	*1390.290	*1364.756	*1326.299	*1291.084	*1255.211	*
-5.0	1429.936	*1444.916	*1439.571	*1427.447	*1397.392	*1377.268	*1348.236	*1312.662	*1282.981	*1247.806	*
-7.0	1410.429	*1415.029	*1409.915	*1398.843	*1368.546	*1350.719	*1319.928	*1284.759	*1256.125	*1227.776	*
-9.0	1364.356	*1370.388	*1367.567	*1359.945	*1335.416	*1305.456	*1279.876	*1251.214	*1225.083	*1198.647	*
-11.0	1329.274	*1332.928	*1331.694	*1321.977	*1296.536	*1270.719	*1249.192	*1222.277	*1188.368	*1168.417	*
-13.0	1304.534	*1313.990	*1316.671	*1304.541	*1277.163	*1244.965	*1220.248	*1192.663	*1164.059	*1137.601	*
-15.0	1275.328	*1285.630	*1288.828	*1277.169	*1250.149	*1218.613	*1189.198	*1169.209	*1144.943	*1111.267	*
-17.0	1252.894	*1266.550	*1271.604	*1258.664	*1229.588	*1199.328	*1168.342	*1144.439	*1116.865	*1091.754	*
-19.5	1214.271	*1226.130	*1230.162	*1219.049	*1192.983	*1164.260	*1133.423	*1107.447	*1080.261	*1060.581	*
-22.5	1159.399	*1171.779	*1176.289	*1165.481	*1140.355	*1113.562	*1083.881	*1050.644	*1033.383	*1013.388	*
-25.5	1098.564	*1109.261	*1113.738	*1103.648	*1081.838	*1057.641	*1027.478	*997.556	* 975.793	* 962.714	*
-29.0	1035.085	*1051.111	*1057.662	*1047.443	*1023.550	*996.345	* 967.531	* 937.743	* 906.781	* 891.700	*
-33.0	926.834	* 937.987	* 940.850	* 934.257	* 915.873	* 895.322	* 874.520	* 856.476	* 837.801	* 817.384	*
-37.5	710.736	* 707.540	* 703.986	* 708.580	* 713.927	* 716.493	* 717.967	* 711.720	* 703.389	* 693.324	*
-42.5	572.700	* 566.983	* 564.121	* 567.264	* 573.542	* 575.215	* 576.411	* 575.096	* 571.016	* 566.162	*
-47.5	284.918	* 264.112	* 253.699	* 266.743	* 292.804	* 316.518	* 338.438	* 350.958	* 355.817	* 357.299	*
-55.0	46.253	45.619	45.301	45.043	44.528	43.556	42.517	41.222	39.601	37.781	
-65.0	16.580	16.215	16.033	16.141	16.357	16.241	16.165	16.016	15.807	15.541	
-75.0	2.861	2.818	2.797	2.798	2.801	2.803	2.743	2.696	2.631	2.544	
-85.0	0.559	0.558	0.557	0.552	0.543	0.534	0.525	0.515	0.506	0.498	
-90.0	0.114	0.117	0.118	0.115	0.111	0.106	0.102	0.097	0.092	0.088	

Vert.
Angles

Horizontal Angles

	<u>15.0</u>	<u>17.0</u>	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29.0</u>	<u>33.0</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>
90.0	0.100	0.101	0.102	0.104	0.097	0.089	0.080	0.070	0.058	0.055
85.0	0.310	0.300	0.286	0.267	0.234	0.195	0.156	0.125	0.108	0.104
75.0	24.935	24.531	24.039	22.531	18.484	14.409	9.781	5.173	1.637	0.807
65.0	39.920	39.575	39.126	35.665	30.612	24.555	17.991	10.368	2.659	3.469
55.0	417.548	* 376.393	* 313.418	* 266.236	* 238.592	* 225.865	* 203.601	* 104.697	24.194	14.146
47.5	747.859	* 730.759	* 695.328	* 651.643	* 607.267	* 554.063	* 500.519	* 443.747	* 270.640	* 75.928
42.5	912.860	* 881.500	* 832.813	* 778.436	* 699.181	* 633.491	* 569.934	* 472.740	* 327.415	* 170.588
37.5	992.514	* 965.854	* 928.676	* 872.238	* 809.418	* 729.990	* 633.946	* 542.045	* 379.228	* 184.977
33.0	1075.356	*1050.269	*1017.019	*966.862	* 894.688	* 807.970	* 708.543	* 610.692	* 465.112	* 228.445
29.0	1136.599	*1117.185	*1087.145	*1042.152	*984.211	* 887.064	* 758.991	* 658.823	* 529.621	* 287.533
25.5	1164.527	*1142.869	*1114.376	*1086.579	*1027.069	*927.419	* 792.338	* 681.347	* 580.408	* 359.711

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

22.5	1184.184	*1160.713	*1128.229	*1095.552	*1056.427	*960.081	* 824.470	* 693.427	* 598.934	* 392.167	*
19.5	1213.443	*1178.129	*1147.447	*1118.394	*1076.898	*986.868	* 848.351	* 703.022	* 605.496	* 408.238	*
17.0	1238.021	*1207.766	*1169.877	*1140.253	*1097.480	*1017.087	*862.453	* 711.129	* 611.638	* 424.112	*
15.0	1250.335	*1217.925	*1187.854	*1153.598	*1115.808	*1036.868	*874.692	* 724.225	* 620.979	* 425.111	*
13.0	1248.753	*1214.997	*1194.152	*1166.974	*1130.897	*1054.843	*885.477	* 733.953	* 629.343	* 411.466	*
11.0	1232.214	*1203.142	*1184.741	*1175.935	*1141.234	*1052.201	*896.554	* 738.933	* 632.503	* 398.176	*
9.0	1207.645	*1180.918	*1164.404	*1174.555	*1138.353	*1050.966	*897.474	* 740.587	* 635.745	* 416.997	*
7.0	1178.319	*1158.649	*1161.182	*1170.135	*1134.152	*1047.251	*893.072	* 741.708	* 637.367	* 427.600	*
5.0	1179.549	*1170.886	*1167.586	*1168.795	*1129.785	*1040.983	*885.532	* 734.380	* 637.087	* 427.338	*
3.0	1196.811	*1183.451	*1174.772	*1168.990	*1123.596	*1035.435	*873.465	* 725.390	* 637.009	* 430.452	*
1.0	1214.129	*1195.683	*1182.459	*1170.682	*1115.813	*1026.669	*857.286	* 714.274	* 632.797	* 415.710	*
0.0	1221.615	*1201.024	*1186.519	*1170.849	*1110.241	*1018.552	*846.441	* 707.742	* 630.687	* 408.327	*
-1.0	1223.074	*1200.573	*1184.473	*1167.988	*1108.299	*1016.435	*845.369	* 706.377	* 629.224	* 406.175	*
-3.0	1221.933	*1196.875	*1179.982	*1159.729	*1100.575	*1004.299	*837.911	* 702.109	* 626.303	* 401.879	*
-5.0	1215.144	*1189.921	*1173.933	*1150.192	*1090.059	*987.859	* 826.886	* 696.796	* 618.729	* 371.917	*
-7.0	1201.912	*1180.524	*1165.394	*1137.107	*1076.219	*969.876	* 813.416	* 691.168	* 611.019	* 339.717	*
-9.0	1177.484	*1161.413	*1150.183	*1118.743	*1059.606	*948.696	* 800.420	* 681.709	* 600.925	* 298.012	*
-11.0	1152.094	*1137.611	*1125.949	*1094.952	*1038.424	*923.390	* 782.708	* 672.135	* 588.138	* 256.999	*
-13.0	1119.868	*1110.567	*1098.323	*1065.578	*1006.232	*889.948	* 757.565	* 659.348	* 574.089	* 251.647	*
-15.0	1089.967	*1079.910	*1068.368	*1034.736	*974.160	* 857.701	* 730.172	* 646.429	* 550.078	* 247.649	*
-17.0	1064.983	*1051.491	*1038.014	*1002.151	*936.832	* 828.871	* 706.408	* 633.002	* 517.008	* 228.841	*
-19.5	1041.610	*1021.564	*998.564	* 960.042	* 886.389	* 788.165	* 685.290	* 617.343	* 455.444	* 171.491	*
-22.5	996.559	* 979.530	* 951.549	* 897.967	* 834.097	* 740.373	* 659.103	* 588.582	* 387.639	* 112.538	
-25.5	943.926	* 921.960	* 889.800	* 842.581	* 765.871	* 691.861	* 627.746	* 549.185	* 271.328	* 62.411	
-29.0	875.408	* 853.076	* 813.430	* 762.242	* 698.692	* 644.593	* 583.536	* 471.054	* 254.903	* 45.541	
-33.0	795.050	* 770.752	* 731.599	* 677.767	* 632.214	* 578.821	* 517.026	* 361.442	* 147.468	* 41.504	
-37.5	680.503	* 658.055	* 626.929	* 589.380	* 551.978	* 502.744	* 430.211	* 248.104	* 88.603	* 28.063	
-42.5	551.838	* 533.678	* 509.850	* 483.125	* 442.675	* 350.224	* 250.242	* 125.879	* 28.007	* 23.501	
-47.5	303.435	* 255.163	* 268.930	* 228.134	* 186.469	* 122.573	* 72.877	* 21.540	* 17.545	* 20.001	
-55.0	35.777	33.554	30.525	26.940	23.648	19.450	14.056	8.860	9.012	9.651	
-65.0	15.205	14.839	14.368	12.567	10.457	7.826	5.653	3.903	2.585	2.968	
-75.0	2.451	2.300	2.087	1.782	1.483	1.282	1.119	0.929	0.714	0.550	
-85.0	0.489	0.480	0.468	0.453	0.425	0.379	0.323	0.262	0.191	0.147	
-90.0	0.083	0.078	0.073	0.066	0.067	0.069	0.072	0.074	0.077	0.077	

Vert. Angles **Horizontal Angles**

	55.0	65.0	75.0	85.0	90.0
90.0	0.064	0.075	0.069	0.058	0.052
85.0	0.098	0.094	0.072	0.027	0.052
75.0	0.480	0.137	0.086	0.053	0.052
65.0	4.022	0.936	0.118	0.047	0.052
55.0	10.651	5.949	0.294	0.055	0.052
47.5	23.372	7.765	0.570	0.041	0.051
42.5	28.637	10.432	1.044	0.050	0.051
37.5	33.841	14.901	2.608	0.070	0.051
33.0	40.238	21.441	3.636	0.070	0.051
29.0	43.146	28.366	4.133	0.069	0.051
25.5	50.838	33.984	4.517	0.069	0.051
22.5	61.049	38.995	4.824	0.074	0.051
19.5	65.583	43.956	5.037	0.078	0.051
17.0	75.837	48.096	5.143	0.081	0.051
15.0	79.999	51.478	5.223	0.083	0.051
13.0	81.901	54.689	5.264	0.085	0.051
11.0	80.639	57.825	5.309	0.092	0.051
9.0	77.164	60.656	5.339	0.091	0.051

IES FLOOD REPORT
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CANDELA TABULATION - (Cont.)

7.0	71.801	63.353	5.355	0.091	0.051
5.0	64.574	65.872	5.402	0.091	0.051
3.0	56.316	68.518	5.360	0.091	0.051
1.0	46.585	70.246	5.318	0.091	0.051
0.0	41.713	71.111	5.297	0.091	0.051
-1.0	41.467	70.233	5.287	0.091	0.051
-3.0	40.975	68.480	5.266	0.092	0.051
-5.0	40.367	65.753	5.245	0.093	0.051
-7.0	39.758	63.112	5.137	0.093	0.051
-9.0	39.104	60.222	5.061	0.094	0.051
-11.0	38.715	57.105	4.971	0.094	0.051
-13.0	38.304	53.631	4.867	0.088	0.051
-15.0	38.251	49.984	4.769	0.086	0.051
-17.0	38.185	46.092	4.661	0.084	0.051
-19.5	37.566	41.221	4.529	0.081	0.051
-22.5	36.365	35.170	4.335	0.077	0.051
-25.5	36.100	28.692	4.107	0.072	0.051
-29.0	36.154	21.153	3.822	0.072	0.051
-33.0	35.172	14.594	3.511	0.072	0.051
-37.5	32.327	9.764	2.553	0.072	0.051
-42.5	25.933	7.556	0.937	0.052	0.051
-47.5	15.673	6.049	0.553	0.043	0.051
-55.0	6.430	3.952	0.262	0.055	0.052
-65.0	2.796	0.837	0.144	0.043	0.052
-75.0	0.362	0.182	0.094	0.050	0.052
-85.0	0.119	0.080	0.060	0.019	0.052
-90.0	0.072	0.066	0.061	0.055	0.052

IES FLOOD REPORT
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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 1169.14

Total Field Lumens (one side of beam only) = 1135.00

* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>1</u>	<u>3</u>	<u>5</u>	<u>7</u>	<u>9</u>	<u>11</u>	<u>13</u>	<u>15</u>	<u>17</u>
90										
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.04	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.06	0.08
65	0.10	0.20	0.19	0.19	0.18	0.17	0.17	0.16	0.15	0.18
55	0.77 *	1.57 *	1.57 *	1.55 *	1.53 *	1.50 *	1.48 *	1.44 *	1.39 *	1.61 *
47.5	1.52 *	3.05 *	3.02 *	2.96 *	2.90 *	2.84 *	2.78 *	2.71 *	2.62 *	3.07 *
42.5	1.47 *	2.92 *	2.86 *	2.79 *	2.72 *	2.64 *	2.56 *	2.48 *	2.39 *	2.82 *
37.5	1.69 *	3.34 *	3.27 *	3.19 *	3.11 *	3.01 *	2.91 *	2.80 *	2.70 *	3.21 *
33	1.63 *	3.23 *	3.16 *	3.09 *	3.02 *	2.93 *	2.83 *	2.74 *	2.65 *	3.18 *
29	1.54 *	3.03 *	2.98 *	2.91 *	2.84 *	2.77 *	2.69 *	2.61 *	2.54 *	3.06 *
25.5	1.39 *	2.74 *	2.69 *	2.63 *	2.57 *	2.50 *	2.44 *	2.38 *	2.32 *	2.81 *
22.5	1.21 *	2.40 *	2.36 *	2.32 *	2.26 *	2.20 *	2.15 *	2.09 *	2.04 *	2.47 *
19.5	1.26 *	2.48 *	2.44 *	2.39 *	2.33 *	2.27 *	2.21 *	2.15 *	2.08 *	2.52 *
17	1.08 *	2.12 *	2.08 *	2.04 *	1.99 *	1.94 *	1.89 *	1.83 *	1.77 *	2.13 *
15	0.87 *	1.72 *	1.68 *	1.65 *	1.61 *	1.57 *	1.53 *	1.48 *	1.43 *	1.73 *
13	0.87 *	1.71 *	1.68 *	1.64 *	1.60 *	1.57 *	1.53 *	1.49 *	1.44 *	1.73 *
11	0.86 *	1.69 *	1.65 *	1.62 *	1.59 *	1.55 *	1.52 *	1.48 *	1.43 *	1.72 *
9	0.84 *	1.65 *	1.62 *	1.59 *	1.56 *	1.53 *	1.49 *	1.45 *	1.41 *	1.70 *
7	0.82 *	1.62 *	1.59 *	1.56 *	1.53 *	1.50 *	1.47 *	1.43 *	1.39 *	1.68 *
5	0.82 *	1.62 *	1.58 *	1.55 *	1.53 *	1.49 *	1.46 *	1.42 *	1.38 *	1.69 *
3	0.83 *	1.64 *	1.60 *	1.57 *	1.54 *	1.50 *	1.47 *	1.44 *	1.40 *	1.70 *
1	0.85 *	1.68 *	1.64 *	1.61 *	1.58 *	1.54 *	1.50 *	1.46 *	1.42 *	1.72 *
0	0.44 *	0.86 *	0.84 *	0.82 *	0.80 *	0.78 *	0.76 *	0.74 *	0.72 *	0.87 *
-1	0.44 *	0.87 *	0.85 *	0.83 *	0.81 *	0.79 *	0.77 *	0.74 *	0.72 *	0.87 *
-3	0.88 *	1.75 *	1.70 *	1.66 *	1.62 *	1.57 *	1.53 *	1.48 *	1.43 *	1.73 *
	0.88 *	1.74 *	1.70 *	1.66 *	1.61 *	1.56 *	1.52 *	1.47 *	1.42 *	1.72 *

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-5	0.87 *	1.72 *	1.69 *	1.65 *	1.60 *	1.55 *	1.50 *	1.45 *	1.41 *	1.70 *
-7	0.85 *	1.68 *	1.65 *	1.61 *	1.57 *	1.52 *	1.47 *	1.43 *	1.39 *	1.68 *
-9	0.82 *	1.63 *	1.61 *	1.57 *	1.53 *	1.49 *	1.44 *	1.40 *	1.36 *	1.65 *
-11	0.80 *	1.60 *	1.57 *	1.54 *	1.50 *	1.46 *	1.41 *	1.38 *	1.34 *	1.62 *
-13	0.79 *	1.57 *	1.54 *	1.50 *	1.47 *	1.43 *	1.39 *	1.35 *	1.31 *	1.59 *
-15	0.78 *	1.54 *	1.51 *	1.47 *	1.44 *	1.40 *	1.36 *	1.32 *	1.28 *	1.55 *
-17	0.95 *	1.88 *	1.84 *	1.80 *	1.76 *	1.71 *	1.66 *	1.61 *	1.56 *	1.88 *
-19.5	1.10 *	2.17 *	2.13 *	2.08 *	2.02 *	1.97 *	1.91 *	1.86 *	1.80 *	2.16 *
-22.5	1.04 *	2.06 *	2.02 *	1.98 *	1.92 *	1.87 *	1.82 *	1.77 *	1.71 *	2.05 *
-25.5	1.15 *	2.28 *	2.23 *	2.18 *	2.11 *	2.05 *	1.99 *	1.94 *	1.88 *	2.25 *
-29	1.21 *	2.40 *	2.35 *	2.29 *	2.23 *	2.17 *	2.11 *	2.05 *	1.97 *	2.34 *
-33	1.13 *	2.25 *	2.22 *	2.19 *	2.16 *	2.11 *	2.06 *	2.01 *	1.93 *	2.30 *
-37.5	0.97 *	1.95 *	1.96 *	1.95 *	1.94 *	1.91 *	1.88 *	1.84 *	1.77 *	2.12 *
-42.5	0.63 *	1.29 *	1.33 *	1.35 *	1.36 *	1.34 *	1.31 *	1.24 *	1.17 *	1.40 *
-47.5	0.35 *	0.74 *	0.78 *	0.82 *	0.84 *	0.83 *	0.79 *	0.73 *	0.65 *	0.78 *
-55	0.09	0.19	0.19	0.19	0.18	0.18	0.17	0.17	0.16	0.19
-65	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.06
-75	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	36.67	72.69	71.53	70.15	68.59	66.85	65.06	63.15	61.07	73.32

Vert. Horizontal Angles

	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29</u>	<u>33</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>	<u>55</u>	<u>65</u>
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.08	0.07	0.07	0.05	0.04	0.02	0.01	0.01	0.00	0.00
75	0.20	0.17	0.17	0.15	0.12	0.07	0.04	0.04	0.03	0.01
65	1.65 *	1.36	1.31	1.21	0.94	0.52	0.21	0.16	0.10	0.02
55	3.30 *	2.91 *	2.97 *	2.91 *	2.60 *	1.82 *	0.81	0.41	0.17	0.03
47.5	3.12 *	2.84 *	2.96 *	2.96 *	2.76 *	2.13 *	1.08 *	0.56	0.18	0.03

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

42.5										
	3.58 *	3.26 *	3.38 *	3.33 *	3.09 *	2.47 *	1.38 *	0.74	0.21	0.05
37.5										
	3.59 *	3.30 *	3.42 *	3.34 *	3.11 *	2.59 *	1.48 *	0.77	0.22	0.06
33										
	3.49 *	3.24 *	3.38 *	3.28 *	3.03 *	2.60 *	1.58 *	0.82 *	0.22	0.07
29										
	3.22 *	3.02 *	3.17 *	3.06 *	2.81 *	2.47 *	1.61 *	0.88 *	0.22	0.08
25.5										
	2.84 *	2.67 *	2.82 *	2.73 *	2.49 *	2.22 *	1.53 *	0.90 *	0.22	0.08
22.5										
	2.89 *	2.73 *	2.89 *	2.81 *	2.55 *	2.26 *	1.62 *	0.99 *	0.25	0.08
19.5										
	2.45 *	2.31 *	2.47 *	2.40 *	2.16 *	1.91 *	1.39 *	0.87 *	0.22	0.07
17										
	1.98 *	1.87 *	2.01 *	1.96 *	1.76 *	1.55 *	1.13 *	0.72 *	0.19	0.06
15										
	1.99 *	1.89 *	2.04 *	2.00 *	1.78 *	1.57 *	1.15 *	0.73 *	0.20	0.06
13										
	1.99 *	1.90 *	2.06 *	2.03 *	1.81 *	1.58 *	1.15 *	0.73 *	0.21	0.07
11										
	1.98 *	1.90 *	2.07 *	2.04 *	1.83 *	1.59 *	1.16 *	0.74 *	0.21	0.07
9										
	1.97 *	1.90 *	2.07 *	2.05 *	1.84 *	1.60 *	1.17 *	0.75 *	0.21	0.07
7										
	1.97 *	1.91 *	2.07 *	2.05 *	1.83 *	1.60 *	1.17 *	0.75 *	0.21	0.07
5										
	1.99 *	1.91 *	2.07 *	2.04 *	1.82 *	1.59 *	1.17 *	0.75 *	0.21	0.08
3										
	2.00 *	1.91 *	2.07 *	2.03 *	1.80 *	1.58 *	1.16 *	0.73 *	0.20	0.08
1										
	1.00 *	0.96 *	1.03 *	1.01 *	0.89 *	0.78 *	0.58 *	0.36 *	0.10	0.04
0										
	1.00 *	0.96 *	1.03 *	1.00 *	0.89 *	0.78 *	0.57 *	0.35 *	0.10	0.04
-1										
	2.00 *	1.90 *	2.04 *	1.99 *	1.77 *	1.56 *	1.14 *	0.70 *	0.19	0.08
-3										
	1.98 *	1.88 *	2.02 *	1.97 *	1.76 *	1.55 *	1.13 *	0.68 *	0.18	0.07
-5										
	1.96 *	1.86 *	1.99 *	1.94 *	1.74 *	1.53 *	1.10 *	0.65 *	0.17	0.07
-7										
	1.93 *	1.83 *	1.96 *	1.91 *	1.71 *	1.51 *	1.07 *	0.61 *	0.16	0.07
-9										
	1.90 *	1.80 *	1.92 *	1.86 *	1.68 *	1.49 *	1.03 *	0.57 *	0.15	0.07
-11										
	1.87 *	1.76 *	1.87 *	1.81 *	1.64 *	1.46 *	0.99 *	0.54 *	0.14	0.06
-13										
	1.83 *	1.72 *	1.81 *	1.75 *	1.60 *	1.43 *	0.96 *	0.51	0.14	0.06
-15										
	1.78 *	1.67 *	1.75 *	1.69 *	1.55 *	1.39 *	0.92 *	0.48	0.13	0.06
-17										
	2.15 *	2.01 *	2.10 *	2.03 *	1.89 *	1.67 *	1.04 *	0.52	0.15	0.06
-19.5										
	2.46 *	2.28 *	2.38 *	2.33 *	2.18 *	1.89 *	1.09 *	0.50	0.17	0.07
-22.5										
	2.32 *	2.14 *	2.24 *	2.20 *	2.08 *	1.73 *	0.91 *	0.40	0.16	0.06

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

-25.5	2.53 *	2.32 *	2.43 *	2.41 *	2.26 *	1.78 *	0.84 *	0.34	0.16	0.06
-29	2.62 *	2.41 *	2.53 *	2.51 *	2.29 *	1.70 *	0.72	0.29	0.16	0.05
-33	2.58 *	2.36 *	2.48 *	2.46 *	2.15 *	1.41 *	0.53	0.24	0.15	0.04
-37.5	2.38 *	2.16 *	2.22 *	2.16 *	1.76 *	0.97	0.32	0.19	0.13	0.03
-42.5	1.56 *	1.39 *	1.39 *	1.29 *	0.94	0.43	0.15	0.13	0.09	0.02
-47.5	0.87	0.76	0.75	0.66	0.43	0.18	0.11	0.12	0.08	0.02
-55	0.21	0.18	0.17	0.14	0.10	0.08	0.06	0.08	0.05	0.01
-65	0.07	0.06	0.05	0.04	0.04	0.03	0.02	0.03	0.02	0.00
-75	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	83.30	77.50	81.62	79.62	71.48	59.10	37.29	21.38	6.45	2.21

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90	0.00	0.00	0.01	
85	0.00	0.00	1.04	
75	0.00	0.00	2.66	
65	0.00	0.00	21.89	
55	0.00	0.00	45.41	
47.5	0.00	0.00	44.25	
42.5	0.00	0.00	50.73	
37.5	0.00	0.00	50.37	
33	0.00	0.00	48.70	
29	0.00	0.00	45.04	
25.5	0.00	0.00	40.00	
22.5	0.00	0.00	41.20	
19.5	0.00	0.00	35.14	
17	0.00	0.00	28.51	
15	0.00	0.00	28.68	

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

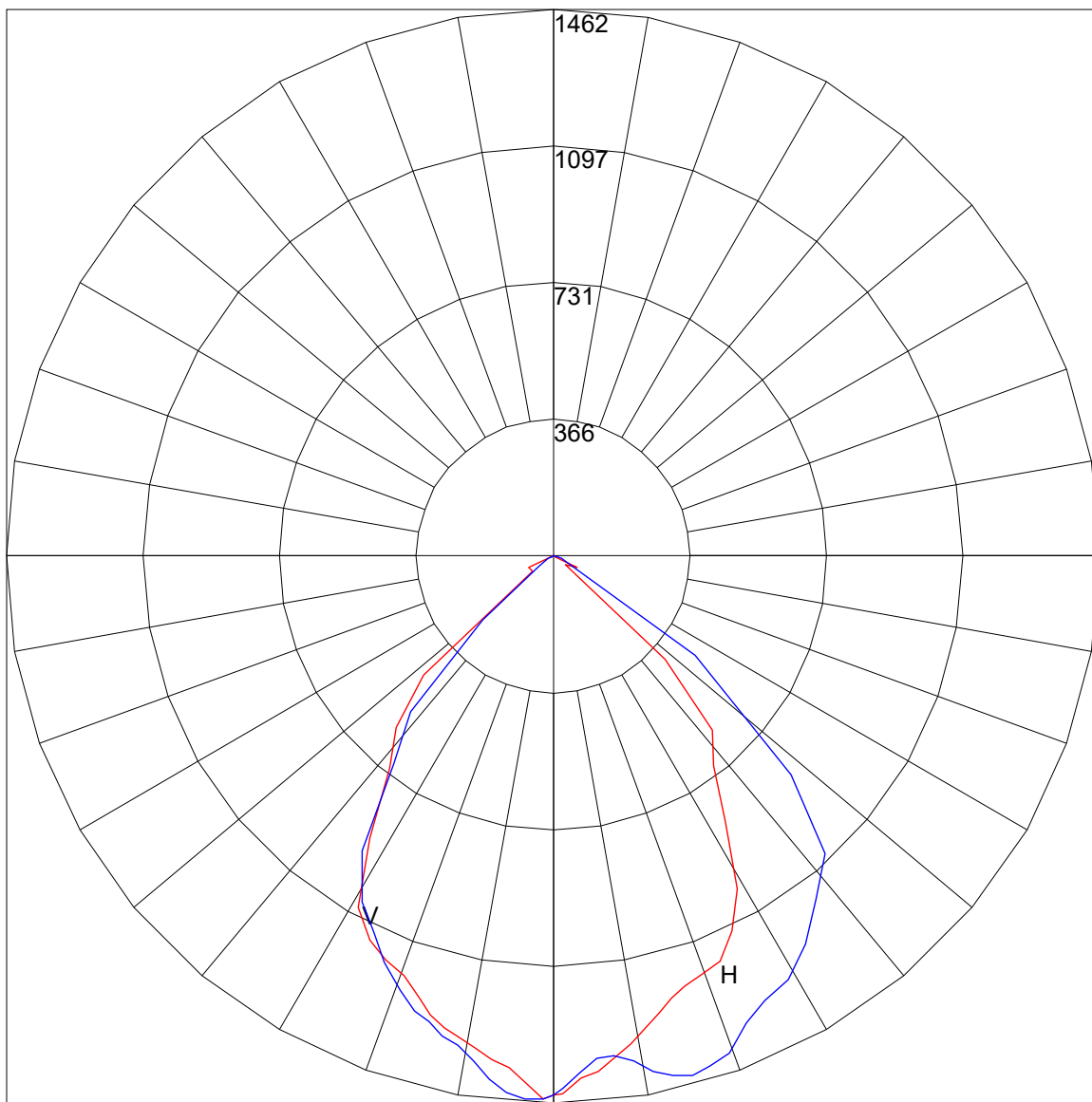
13			
	0.00	0.00	28.62
11			
	0.00	0.00	28.42
9			
	0.00	0.00	28.23
7			
	0.00	0.00	28.17
5			
	0.00	0.00	28.32
3			
	0.00	0.00	28.58
1			
	0.00	0.00	14.38
0			
	0.00	0.00	14.40
-1			
	0.00	0.00	28.74
-3			
	0.00	0.00	28.52
-5			
	0.00	0.00	28.13
-7			
	0.00	0.00	27.60
-9			
	0.00	0.00	26.98
-11			
	0.00	0.00	26.37
-13			
	0.00	0.00	25.75
-15			
	0.00	0.00	25.09
-17			
	0.00	0.00	30.26
-19.5			
	0.00	0.00	34.55
-22.5			
	0.00	0.00	32.48
-25.5			
	0.00	0.00	35.19
-29			
	0.00	0.00	36.38
-33			
	0.00	0.00	34.76
-37.5			
	0.00	0.00	30.60
-42.5			
	0.00	0.00	19.81
-47.5			
	0.00	0.00	11.31
-55			
	0.00	0.00	2.80
-65			
	0.00	0.00	0.89
-75			
	0.00	0.00	0.17

IES FLOOD REPORT
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LUMENS TABULATION - (Cont.)

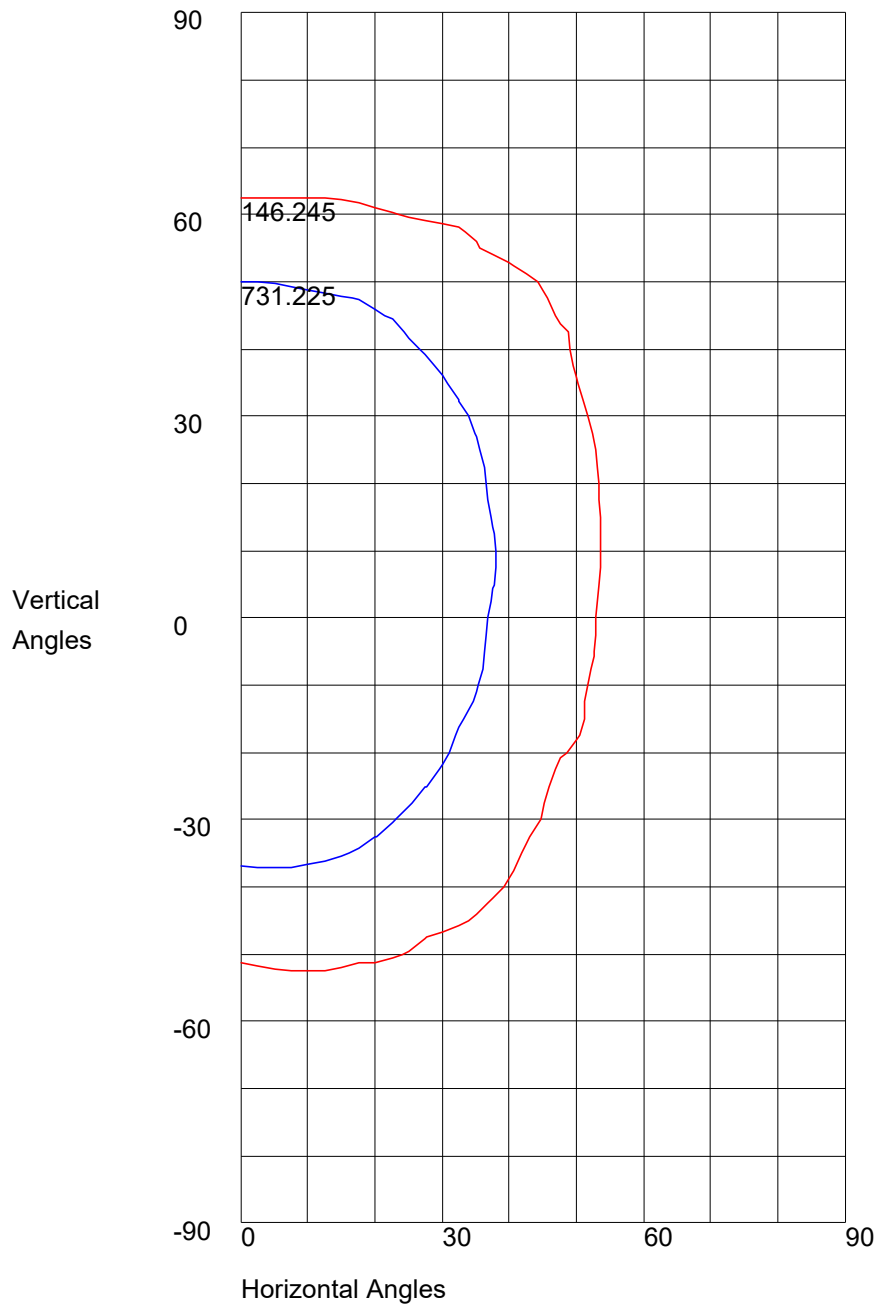
-85	0.00	0.00	0.02
-90			
Total	0.12	0.00	1169.14

AXIAL CANDELA DISPLAY



Maximum Candela = 1462.45 Located At Horizontal Angle =-1, Vertical Angle =-3
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 1462.45 Located At Horizontal Angle =-1, Vertical Angle =-3
50% Maximum Candela = 731.225
10% Maximum Candela = 146.245