

IES Report

ZipTwo® | 707 | Square 3536/30, Soft Wash | 80 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-35-A3-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	100	104	106	106
Total Lumens, 4' rail length (1219mm)	3950	4075	4158	4158
Lumens per foot (305mm)	988	1019	1040	1040
Input Power (W), 4' rail length (1219mm)	39.6	39.6	39.6	39.6
Watts per foot (305mm)	9.9	9.9	9.9	9.9
CRI	82	82	82	82

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_A3_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L092011501 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 9/9/2020

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-HO-35-A3-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,

[MORE] square 3536/30 soft wash lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4158
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.74
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24885	24290	22949
55	24019	23414	21838
65	23115	22465	20615
75	22214	21452	19022
85	21282	20459	17389

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PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_A3_WH.IES

CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196
5	1289.636	1289.357	1288.905	1287.600	1285.999	1283.511	1281.040	1277.978	1274.620	1270.531
10	1354.990	1354.538	1352.641	1349.735	1346.081	1341.279	1335.433	1328.299	1320.851	1311.664
15	1405.154	1404.580	1401.796	1397.568	1391.600	1383.578	1374.670	1363.742	1351.336	1338.217
20	1440.163	1439.293	1435.639	1429.810	1422.085	1411.279	1399.169	1384.744	1368.110	1350.310
25	1458.242	1457.076	1452.848	1445.557	1435.778	1422.659	1407.921	1389.547	1369.276	1347.404
30	1460.573	1458.398	1453.439	1444.983	1433.603	1418.431	1400.926	1379.629	1355.999	1330.334
35	1445.696	1443.661	1437.536	1428.349	1415.507	1398.734	1378.759	1355.129	1328.873	1299.119
40	1415.368	1413.176	1406.477	1396.559	1382.691	1364.021	1341.853	1316.484	1288.174	1255.810
45	1371.033	1368.701	1362.124	1351.197	1336.320	1316.623	1292.698	1266.007	1235.383	1200.670
50	1314.727	1312.534	1305.244	1294.021	1278.552	1257.846	1232.616	1204.324	1173.108	1137.368
55	1248.502	1246.327	1238.741	1226.770	1210.883	1189.725	1164.930	1134.741	1100.463	1063.418
60	1174.709	1172.221	1164.791	1152.680	1135.768	1113.878	1088.074	1057.154	1022.146	983.779
65	1093.033	1090.406	1083.254	1071.144	1053.657	1031.472	1004.937	973.721	937.547	899.197
70	1006.103	1003.475	996.046	983.639	965.561	943.532	916.980	885.034	849.016	809.779
75	914.213	911.882	903.860	891.315	873.811	851.643	825.091	793.875	756.552	716.880
80	818.827	816.495	808.317	795.928	777.989	755.821	728.242	697.044	661.879	621.772
85	718.777	715.993	708.128	696.017	678.809	655.475	628.923	596.107	566.213	527.707
90	615.803	613.315	605.433	593.775	578.898	556.574	530.909	499.989	466.303	427.640
95	514.866	512.378	504.948	492.994	476.656	455.062	430.128	400.078	366.392	330.513
100	410.431	408.239	400.948	389.429	373.682	353.411	329.486	301.194	269.387	235.405
105	307.162	305.266	298.567	287.622	272.902	253.779	231.472	205.216	175.601	144.246
110	207.982	206.242	199.822	189.904	176.332	158.688	138.278	114.057	86.930	58.203
115	113.483	111.430	105.740	96.709	84.599	68.556	50.025	28.153	7.882	0.000
120	24.795	23.038	18.235	11.084	4.089	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196
5	1266.442	1262.074	1256.976	1252.017	1247.058	1241.507	1235.974	1230.284	1225.169	1219.044
10	1302.181	1292.124	1281.319	1269.521	1258.142	1245.892	1233.347	1221.097	1208.830	1195.571
15	1323.340	1307.871	1290.958	1273.158	1255.514	1237.279	1217.582	1198.773	1180.242	1160.406
20	1330.334	1309.768	1287.304	1263.536	1239.611	1215.407	1189.586	1164.652	1139.700	1113.443
25	1322.887	1297.518	1269.800	1240.637	1211.458	1181.999	1149.322	1118.559	1087.918	1055.693
30	1301.746	1271.557	1239.037	1205.194	1171.507	1136.498	1098.566	1062.688	1026.965	989.625
35	1266.894	1233.190	1197.016	1158.527	1120.160	1079.165	1038.188	997.646	957.244	915.379
40	1219.775	1183.600	1143.789	1101.350	1059.051	1014.559	969.197	924.862	880.962	834.869
45	1163.190	1123.796	1080.349	1035.265	989.764	941.775	893.212	846.092	798.399	749.244
50	1096.235	1054.527	1009.165	961.315	913.483	863.162	811.675	761.354	711.625	659.547
55	1022.006	978.541	931.126	881.832	831.946	780.616	727.076	673.258	621.476	570.285
60	941.044	895.543	848.285	798.556	745.607	692.520	637.814	586.049	531.500	476.360

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_A3_WH.IES

CANDELA TABULATION - (Cont.)

65	856.010	809.048	760.780	710.024	655.754	599.465	548.413	494.003	438.289	383.165
70	766.905	719.942	669.761	609.087	566.213	510.481	455.793	401.244	346.121	293.312
75	674.285	627.026	579.037	526.246	473.593	418.313	364.199	310.520	255.241	205.511
80	581.369	534.406	484.520	432.599	380.834	326.859	273.041	221.258	169.476	128.064
85	484.520	438.445	390.160	339.404	289.675	238.032	186.545	137.547	89.854	43.761
90	385.932	342.763	296.374	248.681	201.579	154.025	105.896	58.046	13.572	0.000
95	290.684	249.847	205.946	160.880	116.684	72.193	26.552	0.000	0.000	0.000
100	198.064	160.010	119.155	77.152	35.740	3.654	0.000	0.000	0.000	0.000
105	109.829	74.524	36.749	5.255	0.000	0.000	0.000	0.000	0.000	0.000
110	26.692	3.358	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196
5	1213.511	1207.821	1202.427	1197.468	1192.509	1188.559	1183.896	1179.668	1175.875	1172.516
10	1183.600	1171.507	1159.536	1148.313	1137.664	1127.155	1117.532	1108.049	1099.889	1092.442
15	1141.753	1122.787	1105.283	1087.483	1071.144	1055.693	1040.955	1026.809	1014.559	1003.180
20	1088.944	1063.853	1040.381	1016.891	995.593	975.322	956.356	937.547	921.643	906.766
25	1025.643	996.324	966.727	938.417	912.613	888.253	865.354	842.891	823.786	806.142
30	954.320	919.033	886.356	853.679	823.490	795.197	769.080	743.572	721.839	701.551
35	876.299	836.905	799.861	763.408	729.860	698.645	669.622	641.173	616.969	595.080
40	791.996	748.809	708.406	670.057	633.012	599.308	567.083	537.625	511.943	488.035
45	703.169	657.215	614.046	573.939	534.841	498.962	464.980	434.200	407.073	382.000
50	611.123	562.994	518.798	476.360	435.522	398.912	364.060	331.957	304.100	278.870
55	520.121	470.235	424.577	380.242	340.274	301.768	267.647	235.405	207.112	181.151
60	425.604	377.041	328.321	285.586	246.053	208.574	174.296	141.184	113.622	87.957
65	332.253	284.420	238.189	196.168	154.460	118.285	84.738	52.948	25.665	4.385
70	243.722	195.733	151.102	110.420	69.565	33.982	6.421	0.000	0.000	0.000
75	157.957	112.456	69.130	29.319	0.000	0.000	0.000	0.000	0.000	0.000
80	77.308	33.251	2.627	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	6.716	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_A3_WH.IES

CANDELA TABULATION - (Cont.)

140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196	1228.196
5	1169.611	1166.827	1164.652	1163.033	1161.728	1160.998	1160.702
10	1085.743	1080.192	1075.390	1071.875	1068.969	1067.647	1067.072
15	993.122	984.944	977.950	972.556	968.467	966.431	965.265
20	894.082	883.589	874.976	867.686	862.727	859.525	858.499
25	790.969	778.128	767.340	758.727	752.602	749.105	747.643
30	683.768	669.465	656.641	647.158	640.146	636.074	635.048
35	575.975	559.793	546.082	535.433	527.986	523.479	521.861
40	467.173	449.964	435.383	424.003	415.982	411.301	409.561
45	360.267	342.171	326.998	315.044	306.727	301.629	300.167
50	256.563	238.189	222.424	210.175	202.014	196.620	195.158
55	158.688	141.775	124.845	112.752	104.278	99.041	97.423
60	65.494	47.258	31.946	19.836	11.675	6.995	5.829
65	2.627	2.627	2.627	2.627	2.627	2.627	2.627
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_A3_WH.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	450.10	N.A.	10.80
0-30	954.80	N.A.	23.00
0-40	1561.8	N.A.	37.60
0-60	2772.28	N.A.	66.70
0-80	3631.39	N.A.	87.30
0-90	3898.45	N.A.	93.80
10-90	3782.01	N.A.	91.00
20-40	1111.7	N.A.	26.70
20-50	1742.2	N.A.	41.90
40-70	1693.12	N.A.	40.70
60-80	859.10	N.A.	20.70
70-80	376.47	N.A.	9.10
80-90	267.06	N.A.	6.40
90-110	240.19	N.A.	5.80
90-120	259.35	N.A.	6.20
90-130	259.79	N.A.	6.20
90-150	259.79	N.A.	6.20
90-180	259.79	N.A.	6.20
110-180	19.60	N.A.	0.50
0-180	4158.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.43
10-20	333.66
20-30	504.70
30-40	607.00
40-50	630.50
50-60	579.99
60-70	482.63
70-80	376.47
80-90	267.06
90-100	163.34
100-110	76.85
110-120	19.16
120-130	0.44
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

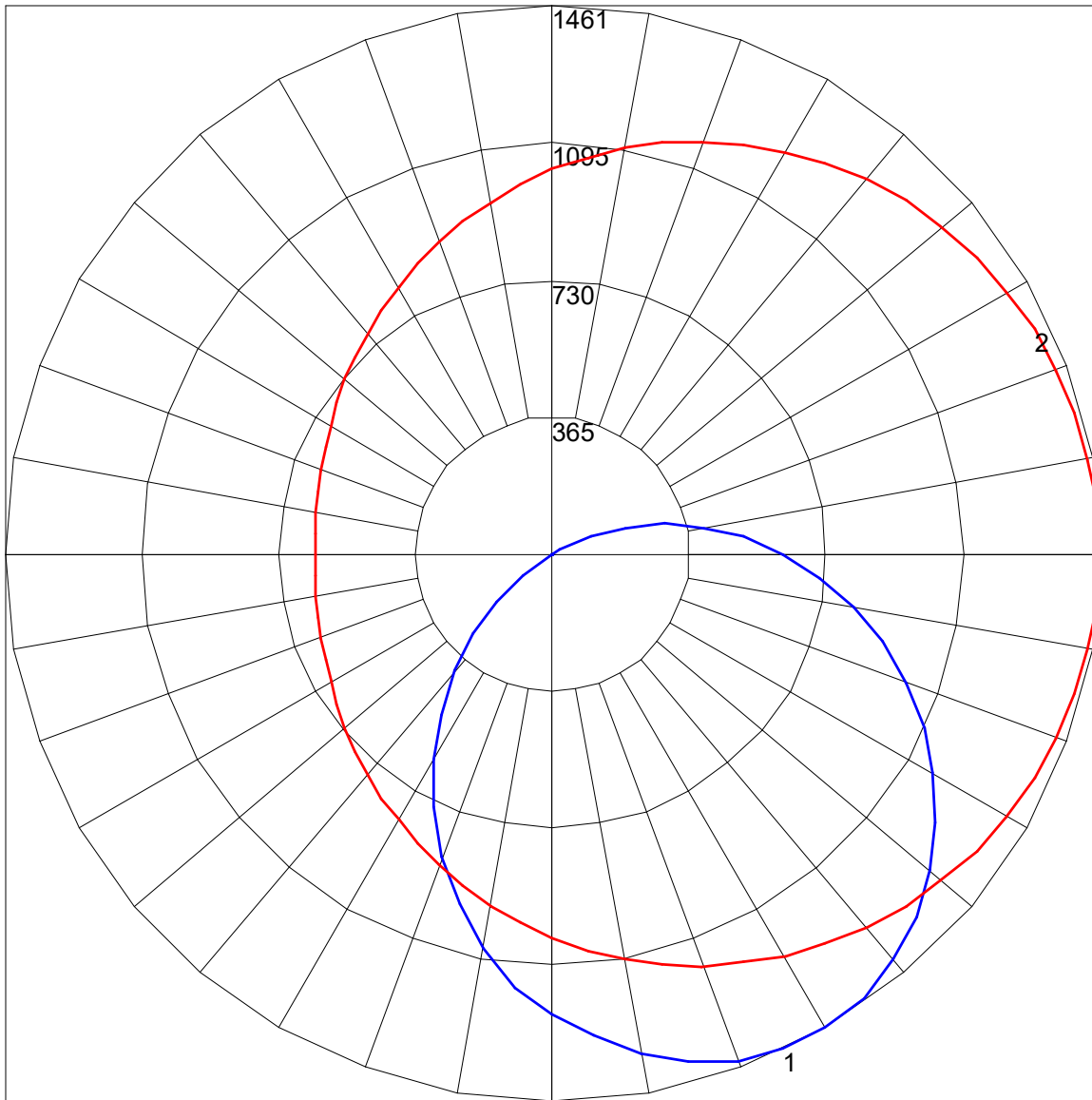
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_A3_WH.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	105	99	94	90	102	96	92	88	91	87	84	86	83	80	81	79	76	74
2	95	86	78	72	92	83	76	70	79	73	68	74	69	65	70	66	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	54	62	57	53	50
4	79	66	57	50	76	64	56	49	61	53	48	58	51	46	55	49	45	42
5	72	59	49	42	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	45	39	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	23	32	26	22	20

POLAR GRAPH



Maximum Candela = 1460.573 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)