

IES Report

ZipTwo® | 707 | Square 3554, Single Side Diffuse | 80 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-35-JA-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	99	102	104	104
Total Lumens, 4' rail length (1219mm)	3905	4029	4111	4111
Lumens per foot (305mm)	976	1007	1028	1028
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_JA_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011210 (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-JA-BL

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

[MORE] square 3554, single side diffuse black lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4111
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Unknown
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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	27.457	27.457	27.457	27.457	27.457	27.457	27.457	27.457	27.457	27.457
5	1.757	1.757	1.897	1.897	1.897	1.897	1.897	2.192	2.192	2.192
10	0.870	1.027	1.166	1.166	1.166	1.305	1.305	1.462	1.601	1.757
15	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.166
20	1.166	1.462	1.462	1.305	1.305	1.305	1.305	1.305	1.305	1.305
25	1.757	1.757	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.462
30	2.036	2.036	2.036	2.036	2.036	1.897	1.897	1.897	1.601	1.601
35	2.627	2.488	2.488	2.488	2.488	2.192	2.192	2.192	2.036	1.897
40	2.923	2.923	2.923	2.923	2.767	2.767	2.488	2.488	2.332	2.192
45	3.497	3.358	3.358	3.358	3.202	3.062	3.062	2.767	2.627	2.488
50	3.793	3.793	3.793	3.654	3.654	3.358	3.358	3.062	2.923	2.627
55	4.089	4.089	4.089	4.089	3.932	3.932	3.654	3.358	3.358	3.062
60	4.385	4.524	4.385	4.385	4.228	4.228	3.932	3.793	3.497	3.202
65	4.959	4.820	4.820	4.663	4.524	4.524	4.228	3.932	3.793	3.497
70	5.255	5.098	5.098	4.959	4.820	4.820	4.524	4.228	4.089	3.793
75	5.551	5.394	5.394	5.255	5.098	4.959	4.820	4.524	4.228	3.932
80	5.551	5.551	5.551	5.551	5.394	5.098	5.098	4.820	4.385	4.089
85	5.829	5.829	5.829	5.690	5.551	5.394	5.098	4.820	4.524	4.228
90	6.125	6.125	5.986	5.829	5.690	5.551	5.394	5.098	4.820	4.385
95	6.125	6.125	6.125	5.986	5.829	5.690	5.394	5.098	4.820	4.385
100	6.125	6.125	6.125	6.125	5.986	5.690	5.394	5.255	4.959	4.663
105	6.421	6.421	6.421	6.264	6.125	5.986	5.690	5.394	5.098	4.663
110	6.716	6.560	6.421	6.421	6.264	5.986	5.829	5.551	5.255	4.959
115	6.716	6.716	6.560	6.421	6.264	6.125	5.986	5.690	5.255	4.959
120	6.716	6.560	6.560	6.421	6.264	6.125	5.986	5.690	5.394	4.959
125	6.716	6.560	6.421	6.264	6.264	5.986	5.829	5.690	5.394	5.098
130	6.421	6.421	6.264	6.264	5.986	5.986	5.690	5.551	5.255	4.820
135	6.125	6.125	6.125	5.986	5.986	5.690	5.551	5.394	5.255	4.959
140	5.829	5.829	5.829	5.690	5.690	5.394	5.255	5.394	5.255	4.959
145	5.551	5.551	5.551	5.394	5.098	5.255	5.394	5.394	5.098	5.098
150	5.255	5.255	5.098	4.820	4.959	5.098	5.255	5.255	5.394	5.098
155	4.663	4.820	4.663	4.663	4.820	5.098	5.255	5.394	5.098	5.098
160	4.385	4.385	4.089	4.228	4.524	5.098	5.098	4.959	4.820	4.820
165	3.793	3.654	3.793	4.089	4.663	4.663	4.663	4.385	4.524	4.524
170	3.497	3.497	3.654	4.385	4.663	4.663	4.959	5.394	5.986	6.560
175	5.551	6.264	6.856	7.586	7.726	7.882	8.161	8.317	8.456	8.456
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	27.457	27.457	27.457	27.457	27.457	27.457	27.457	27.457	27.457	27.457
5	2.192	2.332	2.627	3.793	5.986	9.344	14.442	20.271	26.831	33.982
10	1.757	1.897	2.036	2.036	2.192	2.332	4.524	12.980	26.552	42.299
15	1.166	1.462	1.601	1.757	2.036	2.036	2.332	6.995	25.961	50.025
20	1.305	1.166	1.305	1.462	1.757	1.897	2.036	3.497	24.795	57.316
25	1.305	1.305	1.305	1.305	1.462	1.757	2.036	2.192	23.629	64.328
30	1.601	1.601	1.305	1.305	1.305	1.462	1.757	2.036	22.463	70.888
35	1.757	1.601	1.601	1.601	1.305	1.305	1.601	2.036	21.002	76.717
40	2.036	1.897	1.757	1.601	1.462	1.305	1.462	1.897	21.002	79.936
45	2.332	2.036	1.897	1.757	1.601	1.305	1.305	1.757	19.540	84.303
50	2.488	2.332	2.036	1.757	1.601	1.462	1.305	1.601	17.644	87.661
55	2.627	2.332	2.192	2.036	1.757	1.601	1.305	1.462	13.572	92.759
60	2.923	2.627	2.332	2.036	1.757	1.601	1.462	1.305	11.519	94.656

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CANDELA TABULATION - (Cont.)

65	3.202	2.923	2.627	2.332	2.036	1.757	1.462	1.305	9.344	95.543
70	3.358	2.923	2.627	2.332	2.036	1.757	1.462	1.305	7.291	95.822
75	3.497	3.202	2.923	2.488	2.036	1.757	1.601	1.305	5.394	95.248
80	3.793	3.358	2.923	2.627	2.192	2.036	1.757	1.462	5.829	91.019
85	3.793	3.497	3.062	2.627	2.332	2.036	1.757	1.462	4.385	88.966
90	4.089	3.497	3.202	2.767	2.332	2.036	1.757	1.462	2.923	86.339
95	4.089	3.654	3.202	2.767	2.488	2.036	1.757	1.601	2.192	86.200
100	4.228	3.793	3.358	2.923	2.488	2.192	1.897	1.601	2.036	82.998
105	4.385	3.932	3.497	3.062	2.627	2.332	2.036	1.757	2.332	77.308
110	4.524	4.089	3.654	3.062	2.767	2.332	2.036	1.897	2.488	68.121
115	4.663	4.089	3.654	3.202	2.923	2.627	2.332	1.897	2.923	56.306
120	4.663	4.228	3.793	3.497	3.062	2.767	2.488	2.192	3.497	43.465
125	4.663	4.228	3.793	3.497	3.062	2.767	2.488	2.767	3.793	34.574
130	4.524	4.228	3.932	3.654	3.202	2.923	2.627	3.358	4.089	28.153
135	4.820	4.385	4.089	3.793	3.358	3.062	2.767	3.793	4.385	25.091
140	4.663	4.524	4.228	3.932	3.497	3.062	3.358	4.228	4.663	21.298
145	4.959	4.663	4.228	3.793	3.497	3.202	4.089	4.663	5.098	17.939
150	4.959	4.663	4.385	3.932	3.654	4.228	4.959	5.255	5.829	15.747
155	4.820	4.524	4.385	3.932	4.228	5.394	5.986	6.264	6.716	13.572
160	4.524	4.385	4.385	4.820	5.829	6.560	6.856	6.856	7.447	11.675
165	4.820	5.255	5.829	6.716	7.151	7.291	7.447	7.726	8.021	10.353
170	7.151	7.586	7.726	7.882	8.021	8.161	8.317	8.317	8.752	9.918
175	8.317	8.317	8.456	8.456	8.613	8.613	8.891	8.891	9.344	9.779
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

	100	105	110	115	120	125	130	135	140	145
0	27.457	27.457	27.457	27.457	27.457	27.457	27.457	27.457	27.457	27.457
5	40.403	47.258	53.818	60.100	66.659	72.488	78.178	83.572	88.392	92.759
10	57.176	72.784	87.800	103.269	117.850	131.701	144.838	158.114	169.772	180.560
15	73.515	98.310	122.235	146.578	169.928	192.531	213.968	235.840	254.510	272.310
20	89.558	123.401	157.383	190.199	222.424	253.936	285.151	315.044	342.171	367.836
25	104.731	150.962	190.199	232.046	273.615	313.879	355.151	394.388	429.971	464.406
30	119.451	169.041	220.963	273.615	324.527	375.144	426.178	475.333	520.260	563.151
35	141.619	190.339	250.873	311.112	375.579	435.818	495.030	554.103	605.885	657.511
40	148.631	209.740	278.870	347.722	421.950	491.672	560.228	626.435	691.198	749.975
45	152.998	227.087	303.961	381.269	464.841	543.158	618.135	697.914	769.080	835.739
50	161.907	245.027	326.563	411.301	503.051	584.292	672.388	757.857	839.237	912.752
55	171.668	258.164	346.121	437.558	536.303	627.322	719.212	811.675	896.709	979.115
60	177.497	268.813	361.711	461.622	560.524	656.780	757.561	855.871	945.568	1033.369
65	181.586	276.677	376.884	478.256	581.804	682.010	784.253	889.558	983.500	1074.502
70	184.214	279.305	382.574	490.367	589.843	703.604	808.613	913.048	1009.896	1103.247
75	185.380	282.367	387.829	494.734	595.967	714.827	821.297	927.194	1025.208	1119.290
80	182.178	283.255	389.725	497.222	599.465	719.351	826.256	932.449	1033.090	1124.249
85	180.421	281.932	388.403	495.900	598.142	717.454	823.786	932.588	1029.297	1119.568
90	177.497	278.139	383.896	490.802	595.237	709.729	814.738	918.581	1017.047	1106.014
95	176.332	275.807	377.041	482.050	587.946	697.183	800.156	901.964	995.315	1084.855
100	171.373	268.517	367.401	470.096	576.845	676.616	779.729	879.361	969.493	1056.719
105	165.109	259.765	358.649	457.829	558.035	654.449	754.499	850.042	937.251	1021.276
110	157.957	246.210	343.928	439.454	535.572	620.606	726.502	815.608	899.336	979.550
115	148.039	234.100	324.527	415.094	512.378	593.914	688.292	775.361	855.140	930.691
120	138.713	218.788	305.266	391.187	482.485	567.658	647.732	729.704	806.716	875.846
125	105.009	192.374	274.346	353.690	440.620	523.914	594.941	681.436	750.706	815.033
130	85.904	160.724	241.825	313.009	389.864	463.084	537.625	613.454	687.996	748.374
135	69.130	141.184	204.189	273.180	340.709	404.741	469.069	536.007	599.308	667.290

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CANDELA TABULATION - (Cont.)

140	56.150	108.071	168.310	229.715	294.913	349.618	403.576	460.317	514.866	561.968
145	45.501	83.276	134.485	183.344	241.094	302.360	348.296	389.569	433.486	480.153
150	39.672	67.529	104.435	148.335	188.738	239.789	293.903	331.957	362.738	393.362
155	32.677	56.150	82.702	111.430	147.900	180.560	216.891	262.392	292.442	318.246
160	25.961	45.362	66.068	86.635	106.036	129.665	158.827	184.214	211.340	232.638
165	18.809	32.381	49.451	64.328	79.936	93.194	107.062	120.338	133.754	153.294
170	13.276	20.428	30.624	41.569	51.626	61.109	68.852	77.743	85.765	90.863
175	10.649	12.110	15.016	18.809	23.194	28.588	33.251	37.340	40.699	43.900
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

	150	155	160	165	170	175	180
0	27.457	27.457	27.457	27.457	27.457	27.457	27.457
5	96.709	100.050	102.834	105.166	106.627	107.358	107.636
10	190.199	198.221	205.076	210.470	214.107	216.160	216.734
15	288.214	301.472	313.148	322.196	328.460	332.114	333.419
20	390.752	410.292	427.205	440.620	449.668	455.358	457.115
25	495.030	521.130	543.593	561.533	573.782	580.499	582.535
30	599.604	632.716	660.434	683.611	699.515	709.294	712.634
35	704.770	744.442	778.128	805.985	825.526	838.367	842.160
40	804.680	851.504	891.315	923.401	946.734	961.768	966.431
45	895.978	949.361	997.490	1033.960	1060.217	1077.286	1082.524
50	981.743	1040.677	1092.877	1132.844	1162.459	1181.999	1187.550
55	1054.092	1118.263	1174.848	1217.739	1250.120	1270.096	1277.090
60	1113.304	1180.973	1240.202	1287.739	1321.008	1341.853	1348.274
65	1157.500	1227.500	1289.357	1338.060	1372.634	1393.931	1401.065
70	1187.828	1259.308	1320.556	1372.042	1406.912	1429.079	1436.074
75	1204.167	1276.655	1338.060	1388.381	1424.260	1447.315	1454.170
80	1206.220	1281.040	1341.853	1392.174	1427.479	1450.220	1457.076
85	1200.374	1272.427	1336.163	1383.857	1418.570	1441.033	1447.750
90	1187.828	1257.846	1318.659	1365.639	1399.621	1421.632	1428.488
95	1165.661	1233.347	1292.698	1338.495	1371.764	1393.340	1399.900
100	1134.741	1200.809	1258.873	1304.078	1336.024	1356.156	1362.559
105	1096.670	1161.137	1216.277	1260.178	1291.237	1310.359	1316.762
110	1051.604	1113.008	1166.827	1207.960	1237.575	1256.245	1262.509
115	999.108	1057.154	1106.449	1146.556	1175.735	1193.083	1198.634
120	939.600	994.288	1040.085	1078.156	1104.552	1121.761	1127.450
125	872.645	922.670	968.171	1001.875	1026.809	1042.556	1047.236
130	802.784	849.016	888.983	919.312	941.932	956.356	960.880
135	725.911	767.479	803.654	831.076	851.504	864.484	868.417
140	629.219	681.715	714.096	739.326	756.691	767.479	771.272
145	527.707	569.850	621.041	643.069	658.381	667.429	670.631
150	430.859	469.069	511.804	548.987	561.968	569.711	572.338
155	337.943	365.800	396.877	436.096	458.995	465.276	467.608
160	250.282	262.392	284.716	311.982	348.000	356.752	358.805
165	167.440	176.627	181.151	195.298	214.838	240.799	241.825
170	95.543	99.319	98.745	96.413	104.435	122.513	139.444
175	45.797	46.667	47.119	43.900	40.403	40.994	58.046
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	36.93	N.A.	0.90
0-30	122.52	N.A.	3.00
0-40	284.63	N.A.	6.90
0-60	875.92	N.A.	21.30
0-80	1742.25	N.A.	42.40
0-90	2211.36	N.A.	53.80
10-90	2206.39	N.A.	53.70
20-40	247.70	N.A.	6.00
20-50	499.24	N.A.	12.10
40-70	1002.44	N.A.	24.40
60-80	866.33	N.A.	21.10
70-80	455.18	N.A.	11.10
80-90	469.11	N.A.	11.40
90-110	870.63	N.A.	21.20
90-120	1225.91	N.A.	29.80
90-130	1505.14	N.A.	36.60
90-150	1819.99	N.A.	44.30
90-180	1899.67	N.A.	46.20
110-180	1029.04	N.A.	25.00
0-180	4111.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4.97
10-20	31.96
20-30	85.59
30-40	162.11
40-50	251.54
50-60	339.75
60-70	411.15
70-80	455.18
80-90	469.11
90-100	454.94
100-110	415.68
110-120	355.28
120-130	279.24
130-140	195.87
140-150	118.97
150-160	58.58
160-170	18.80
170-180	2.30

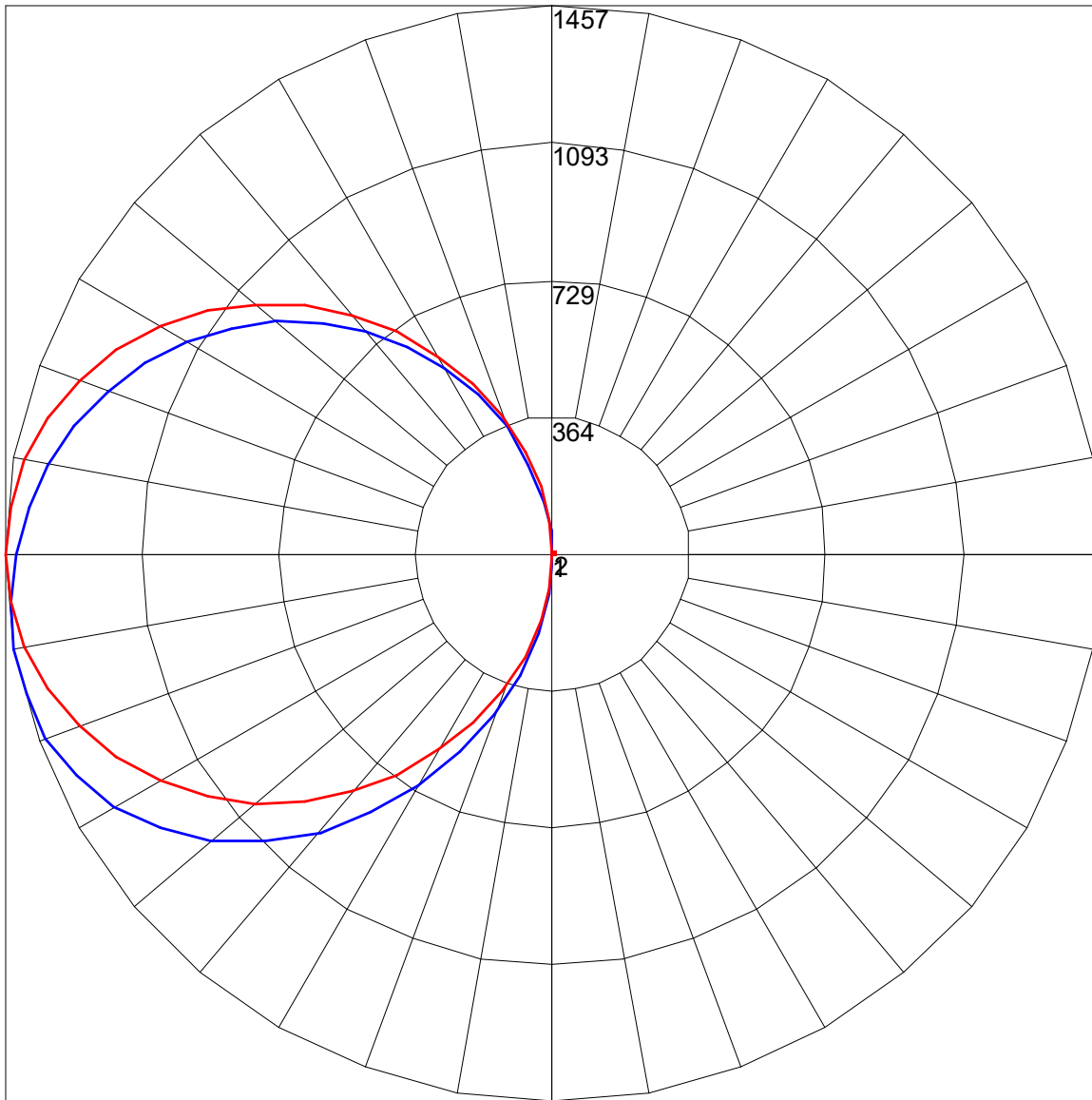
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 PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_JA_BL.IES

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	93	86	80	74	85	79	73	68	66	62	58	54	51	48	43	41	39	33
2	82	72	63	56	75	66	58	51	54	48	43	44	40	35	35	31	28	23
3	73	61	51	44	67	56	47	40	46	39	34	37	32	27	29	25	21	17
4	66	53	43	35	60	48	39	32	40	33	27	32	26	22	25	20	17	13
5	60	46	36	29	55	42	33	27	35	28	22	28	22	18	21	17	13	10
6	55	41	31	24	50	37	29	22	31	24	19	25	19	15	19	15	11	8
7	51	36	27	21	46	33	25	19	28	21	16	22	17	12	17	13	9	6
8	47	33	24	18	43	30	22	16	25	18	13	20	15	11	15	11	8	5
9	43	30	21	15	39	27	19	14	23	16	12	18	13	9	14	10	7	4
10	40	27	19	13	37	25	17	12	21	14	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 1457.076 Located At Horizontal Angle = 180, Vertical Angle = 80
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)