

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-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	105	109	111	111
Total Lumens, 4' rail length (1219mm)	4143	4274	4361	4361
Lumens per foot (305mm)	1036	1068	1090	1090
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_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011209 (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-WH

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

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

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4361
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815
5	2.036	2.036	2.192	2.192	2.192	2.488	2.488	2.488	2.488	2.627
10	0.870	1.027	1.166	1.166	1.166	1.305	1.462	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	1.462	1.462	1.462	1.462	1.462	1.462	1.462	1.462	1.462	1.462
25	1.757	1.757	1.897	1.897	1.757	1.757	1.757	1.601	1.601	1.601
30	2.332	2.332	2.192	2.192	2.192	2.192	2.036	1.897	1.897	1.897
35	2.627	2.767	2.767	2.627	2.627	2.488	2.488	2.332	2.192	2.036
40	3.202	3.202	3.202	3.062	3.062	3.062	2.767	2.627	2.488	2.332
45	3.793	3.654	3.654	3.654	3.497	3.358	3.202	3.062	2.923	2.627
50	4.089	4.089	4.089	3.932	3.932	3.654	3.654	3.358	3.202	2.923
55	4.385	4.524	4.524	4.385	4.228	4.228	3.932	3.793	3.497	3.202
60	4.959	4.959	4.820	4.820	4.663	4.524	4.228	4.089	3.793	3.497
65	5.255	5.255	5.098	5.098	4.959	4.820	4.524	4.385	4.089	3.793
70	5.551	5.551	5.551	5.394	5.255	5.098	4.820	4.663	4.385	4.089
75	5.829	5.829	5.829	5.690	5.551	5.394	5.098	4.820	4.524	4.228
80	6.125	6.125	6.125	5.986	5.829	5.690	5.394	5.098	4.820	4.385
85	6.421	6.421	6.264	6.264	5.986	5.986	5.690	5.394	4.959	4.663
90	6.421	6.421	6.421	6.264	6.264	5.986	5.690	5.394	5.098	4.663
95	6.421	6.421	6.421	6.264	6.264	5.986	5.690	5.551	5.098	4.663
100	6.716	6.716	6.560	6.421	6.421	6.125	5.986	5.690	5.255	4.959
105	6.716	6.716	6.716	6.716	6.421	6.264	6.125	5.690	5.394	5.098
110	6.995	6.995	6.716	6.716	6.716	6.421	6.264	5.986	5.690	5.255
115	6.995	6.995	6.856	6.716	6.716	6.421	6.264	5.986	5.690	5.394
120	6.995	6.995	6.716	6.716	6.716	6.421	6.264	6.125	5.829	5.255
125	6.995	6.856	6.716	6.716	6.560	6.421	6.125	5.986	5.690	5.394
130	6.995	6.716	6.716	6.421	6.421	6.264	5.986	5.986	5.551	5.394
135	6.716	6.421	6.421	6.421	6.264	6.125	5.829	5.690	5.551	5.394
140	6.716	6.264	6.125	6.125	5.986	5.690	5.829	5.690	5.690	5.690
145	6.421	6.125	5.829	5.829	5.551	5.690	5.829	5.829	5.986	5.829
150	6.125	5.829	5.551	5.394	5.394	5.690	5.986	6.125	6.125	5.829
155	5.829	5.551	5.394	4.959	5.394	5.690	6.125	6.125	5.986	5.829
160	5.255	5.255	4.524	4.820	5.255	5.986	5.829	5.829	5.690	5.690
165	4.959	4.385	4.089	4.663	5.690	5.551	5.551	5.551	5.829	5.986
170	5.255	4.385	4.663	5.829	6.125	6.560	6.995	7.586	8.317	9.187
175	8.752	9.779	10.788	11.815	11.815	12.250	12.406	12.545	12.685	12.685
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	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815
5	2.767	2.923	3.793	5.986	8.317	11.815	17.209	23.629	30.189	37.775
10	1.897	2.036	2.332	2.488	2.627	2.923	6.856	15.608	29.615	46.093
15	1.305	1.462	1.757	2.036	2.332	2.627	2.923	8.891	28.588	53.975
20	1.462	1.462	1.305	1.462	1.757	2.036	2.627	4.385	27.562	61.544
25	1.601	1.601	1.462	1.305	1.462	1.757	2.332	2.627	26.117	68.695
30	1.757	1.601	1.601	1.601	1.305	1.601	2.036	2.627	24.656	75.255
35	1.897	1.897	1.757	1.601	1.601	1.305	1.757	2.332	24.656	79.344
40	2.192	2.036	1.897	1.757	1.601	1.601	1.601	2.192	22.759	84.303
45	2.332	2.332	2.036	1.757	1.757	1.601	1.305	2.036	21.002	88.235
50	2.627	2.332	2.332	2.036	1.757	1.601	1.462	1.757	16.913	94.221
55	2.923	2.627	2.332	2.036	1.897	1.757	1.601	1.601	14.581	96.988
60	3.202	2.923	2.627	2.332	2.036	1.757	1.601	1.601	12.406	98.884

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CANDELA TABULATION - (Cont.)

65	3.497	3.062	2.767	2.332	2.036	1.757	1.601	1.462	10.057	109.968
70	3.793	3.202	2.923	2.488	2.332	2.036	1.757	1.462	7.882	110.699
75	3.793	3.497	3.062	2.627	2.332	2.036	1.757	1.462	5.690	107.636
80	4.089	3.654	3.202	2.767	2.332	2.036	1.757	1.462	6.264	106.766
85	4.228	3.793	3.358	2.767	2.488	2.036	1.757	1.601	4.959	105.166
90	4.385	3.932	3.358	2.923	2.488	2.192	1.757	1.601	3.497	116.249
95	4.385	3.932	3.358	3.062	2.488	2.192	2.036	1.757	2.488	102.382
100	4.524	4.089	3.654	3.062	2.767	2.332	2.036	1.757	2.332	88.392
105	4.663	4.228	3.793	3.202	2.767	2.488	2.036	1.897	2.627	82.998
110	4.820	4.385	3.793	3.497	2.923	2.627	2.192	2.036	2.923	73.358
115	4.959	4.524	3.932	3.654	3.062	2.767	2.627	2.332	3.497	59.369
120	4.959	4.663	4.089	3.793	3.358	3.062	2.923	2.923	4.089	43.326
125	4.959	4.663	4.385	3.793	3.654	3.358	3.062	3.497	4.663	34.574
130	5.098	4.820	4.385	4.089	3.793	3.654	3.202	4.385	5.098	28.292
135	5.098	4.959	4.663	4.385	4.089	3.793	3.654	4.959	5.394	24.795
140	5.394	5.255	4.959	4.663	4.228	3.793	4.385	5.551	5.690	20.863
145	5.690	5.394	4.959	4.663	4.228	3.932	4.959	5.829	6.125	17.365
150	5.829	5.551	5.255	4.820	4.820	5.098	6.125	6.560	6.856	16.339
155	5.690	5.394	5.255	5.255	5.829	6.560	7.151	7.291	7.586	15.608
160	5.551	5.690	5.829	6.716	7.882	8.317	8.161	8.456	8.752	13.711
165	6.421	7.291	8.317	9.622	10.510	10.214	10.214	10.353	10.510	13.120
170	10.057	11.084	11.954	11.675	11.675	11.815	11.954	11.954	12.110	13.276
175	12.545	12.545	12.685	12.685	12.685	12.980	12.980	12.980	13.120	13.415
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	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815	30.815
5	44.631	51.487	58.481	65.337	71.758	77.743	83.729	89.262	94.221	98.745
10	61.700	77.308	93.786	108.959	123.836	138.121	152.128	165.248	176.923	188.007
15	78.474	102.973	128.934	153.433	177.219	200.396	222.581	245.183	264.584	283.394
20	94.813	129.369	164.239	197.786	231.472	264.149	296.670	327.729	356.039	382.870
25	110.264	153.433	196.759	241.686	284.995	328.756	371.194	410.866	448.502	483.946
30	124.845	175.757	229.871	283.098	339.839	392.788	444.118	495.169	541.993	581.525
35	143.672	198.064	261.522	324.232	391.761	454.488	516.328	577.732	633.012	685.508
40	150.806	218.788	291.119	363.173	441.055	513.700	580.638	656.206	721.387	782.513
45	159.558	239.633	317.968	399.052	485.982	568.249	646.427	727.076	801.183	872.784
50	171.825	256.563	342.171	431.294	527.255	597.412	703.900	793.162	875.116	953.590
55	179.690	270.709	363.034	458.995	559.932	654.884	754.064	850.477	938.869	1024.616
60	186.110	282.367	383.600	485.843	586.328	690.623	796.224	898.171	992.392	1083.550
65	191.365	288.788	394.528	504.652	595.967	718.916	829.319	935.807	1034.099	1129.208
70	194.567	295.069	404.741	515.005	609.383	743.415	856.898	963.212	1064.445	1162.024
75	196.463	299.297	411.301	524.192	633.290	757.422	869.287	980.716	1086.473	1182.295
80	193.697	300.898	414.364	528.716	649.055	763.686	876.734	991.957	1094.634	1190.160
85	192.531	300.463	414.085	528.873	648.898	763.686	875.846	987.293	1092.737	1187.689
90	193.105	300.602	410.588	524.349	633.882	757.422	868.556	978.680	1079.461	1176.605
95	188.738	295.208	403.871	516.171	611.558	742.110	855.140	962.933	1061.818	1156.769
100	183.187	287.187	392.788	505.975	602.527	722.848	829.771	937.843	1034.534	1126.720
105	176.488	274.346	383.740	489.932	593.618	700.246	806.577	908.524	1001.283	1090.545
110	168.902	263.558	365.504	467.468	573.782	675.886	774.770	872.784	961.768	1047.236
115	158.984	250.717	347.722	445.144	549.283	643.365	737.429	830.641	915.240	998.221
120	140.018	235.265	327.590	419.775	517.928	600.039	694.991	785.575	864.919	938.278
125	129.961	207.408	294.913	380.538	474.602	564.021	647.732	731.896	805.985	874.541
130	94.360	176.627	260.200	336.185	418.748	498.092	573.939	660.713	737.882	803.793
135	71.462	154.756	221.258	294.913	366.966	435.383	504.513	566.927	645.697	719.942

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CANDELA TABULATION - (Cont.)

140	57.611	118.581	179.690	251.743	317.237	377.041	435.383	496.057	550.014	614.481
145	47.258	88.235	147.743	201.283	262.827	328.460	374.987	420.506	468.043	517.928
150	41.864	72.053	111.865	167.005	207.251	262.392	319.708	359.675	391.030	424.873
155	34.852	60.830	88.531	121.783	165.404	200.987	241.390	288.353	320.438	347.287
160	27.718	49.016	70.453	92.916	115.519	145.412	176.488	204.485	233.508	256.702
165	21.437	35.148	52.948	69.287	85.904	101.077	115.954	132.866	149.640	171.373
170	17.069	23.629	32.956	44.631	55.576	65.789	74.820	84.007	92.620	98.745
175	14.303	15.747	18.531	22.028	25.822	30.624	35.444	40.264	44.057	47.398
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	30.815	30.815	30.815	30.815	30.815	30.815	30.815
5	102.677	106.331	109.237	111.586	113.030	113.918	114.057
10	198.064	206.381	213.533	219.066	223.016	225.191	225.782
15	299.872	313.879	325.989	335.472	341.736	345.668	347.130
20	406.934	427.205	444.848	458.855	468.338	474.028	476.064
25	516.032	543.019	566.648	581.665	596.107	603.536	606.164
30	624.834	659.112	688.135	711.469	727.964	738.613	742.406
35	732.766	775.657	810.370	839.393	859.804	872.941	876.873
40	837.793	886.652	929.682	962.342	986.406	1002.170	1006.677
45	936.973	992.252	1040.816	1078.000	1105.718	1123.361	1128.042
50	1025.347	1086.752	1140.727	1182.295	1213.215	1232.181	1238.010
55	1102.220	1169.454	1227.065	1273.454	1306.270	1326.541	1333.397
60	1166.252	1236.548	1298.684	1347.404	1381.682	1403.119	1410.705
65	1215.251	1288.627	1351.197	1403.849	1440.024	1462.627	1469.621
70	1249.964	1325.671	1389.547	1441.764	1480.131	1502.299	1509.885
75	1271.401	1347.108	1411.714	1464.523	1500.976	1524.901	1531.757
80	1276.655	1352.798	1420.901	1471.814	1508.423	1531.757	1539.047
85	1273.454	1350.762	1416.238	1466.420	1502.142	1525.928	1533.218
90	1263.240	1337.051	1401.361	1450.220	1486.256	1508.719	1515.714
95	1241.368	1313.700	1376.427	1426.017	1460.869	1482.602	1489.457
100	1209.126	1279.283	1340.687	1388.381	1422.520	1443.226	1450.951
105	1170.620	1238.149	1297.518	1344.046	1376.427	1396.698	1403.693
110	1123.953	1188.994	1243.839	1289.792	1321.286	1340.687	1347.108
115	1068.969	1130.948	1183.461	1225.465	1255.949	1274.915	1280.884
120	1004.780	1065.019	1113.878	1154.142	1182.591	1200.078	1205.924
125	935.807	991.661	1038.328	1074.067	1100.324	1117.237	1122.491
130	862.292	911.012	953.746	986.841	1010.627	1026.374	1031.472
135	780.895	825.247	863.893	893.212	915.083	928.499	932.588
140	679.540	734.367	768.506	795.493	814.303	826.256	829.910
145	566.492	621.041	669.465	692.798	709.294	719.490	723.144
150	464.684	504.809	551.771	586.919	601.205	609.957	612.880
155	367.993	397.747	429.832	473.158	496.335	503.486	505.818
160	274.798	287.483	311.390	340.135	380.103	388.403	390.595
165	186.406	195.889	199.526	215.134	235.561	262.827	263.993
170	104.574	108.959	108.228	105.601	114.057	135.355	151.102
175	49.729	51.191	51.922	49.294	44.927	45.501	63.005
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	38.67	N.A.	0.90
0-30	127.83	N.A.	2.90
0-40	296.77	N.A.	6.80
0-60	914.79	N.A.	21.00
0-80	1827.84	N.A.	41.90
0-90	2326.46	N.A.	53.30
10-90	2321.16	N.A.	53.20
20-40	258.10	N.A.	5.90
20-50	520.68	N.A.	11.90
40-70	1049.95	N.A.	24.10
60-80	913.05	N.A.	20.90
70-80	481.12	N.A.	11.00
80-90	498.62	N.A.	11.40
90-110	928.31	N.A.	21.30
90-120	1308.46	N.A.	30.00
90-130	1608.28	N.A.	36.90
90-150	1947.37	N.A.	44.70
90-180	2034.63	N.A.	46.70
110-180	1106.32	N.A.	25.40
0-180	4361.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5.30
10-20	33.36
20-30	89.16
30-40	168.94
40-50	262.57
50-60	355.45
60-70	431.93
70-80	481.12
80-90	498.62
90-100	484.77
100-110	443.54
110-120	380.16
120-130	299.82
130-140	210.64
140-150	128.45
150-160	63.80
160-170	20.81
170-180	2.65

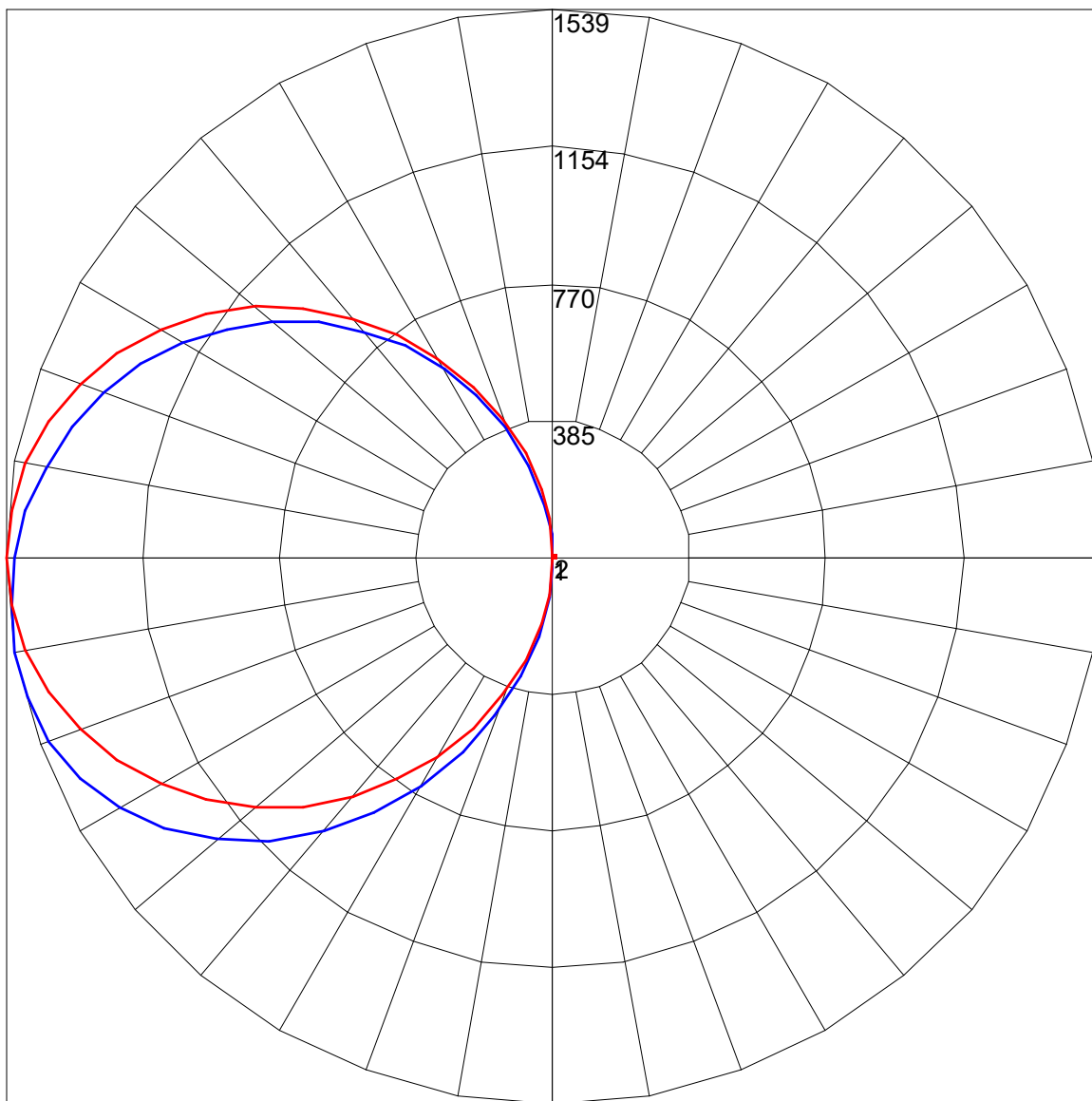
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_JA_WH.IES

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	93	86	80	74	85	79	73	68	66	62	58	54	51	48	43	40	38	33
2	82	72	63	56	75	66	58	51	54	48	43	44	39	35	34	31	28	23
3	73	61	51	44	67	56	47	40	46	39	34	37	32	27	29	24	21	17
4	66	53	43	35	60	48	39	32	40	33	27	32	26	22	24	20	16	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	18	25	19	15	19	14	11	8
7	51	36	27	21	46	33	25	19	27	21	16	22	17	12	17	13	9	6
8	47	33	24	18	42	30	22	16	25	18	13	20	15	11	15	11	8	5
9	43	30	21	15	39	27	19	14	22	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 = 1539.047 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.)