

IES Report

ZipTwo® | 707 | Square 3536/30, Soft Wash | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-A3-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	87	89	91	92
Total Lumens, 4' rail length (1219mm)	3405	3513	3585	3621
Lumens per foot (305mm)	851	878	896	905
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	95	95	95	95

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_359_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-359-A3-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 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	3585
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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	21452	20939	19783
55	20706	20184	18826
65	19927	19366	17771
75	19150	18493	16398
85	18347	17637	14990

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_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	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790
5	1111.755	1111.515	1111.125	1110.000	1108.620	1106.475	1104.345	1101.705	1098.810	1095.285
10	1168.095	1167.705	1166.070	1163.565	1160.415	1156.275	1151.235	1145.085	1138.665	1130.745
15	1211.340	1210.845	1208.445	1204.800	1199.655	1192.740	1185.060	1175.640	1164.945	1153.635
20	1241.520	1240.770	1237.620	1232.595	1225.935	1216.620	1206.180	1193.745	1179.405	1164.060
25	1257.105	1256.100	1252.455	1246.170	1237.740	1226.430	1213.725	1197.885	1180.410	1161.555
30	1259.115	1257.240	1252.965	1245.675	1235.865	1222.785	1207.695	1189.335	1168.965	1146.840
35	1246.290	1244.535	1239.255	1231.335	1220.265	1205.805	1188.585	1168.215	1145.580	1119.930
40	1220.145	1218.255	1212.480	1203.930	1191.975	1175.880	1156.770	1134.900	1110.495	1082.595
45	1181.925	1179.915	1174.245	1164.825	1152.000	1135.020	1114.395	1091.385	1064.985	1035.060
50	1133.385	1131.495	1125.210	1115.535	1102.200	1084.350	1062.600	1038.210	1011.300	980.490
55	1076.295	1074.420	1067.880	1057.560	1043.865	1025.625	1004.250	978.225	948.675	916.740
60	1012.680	1010.535	1004.130	993.690	979.110	960.240	937.995	911.340	881.160	848.085
65	942.270	940.005	933.840	923.400	908.325	889.200	866.325	839.415	808.230	775.170
70	867.330	865.065	858.660	847.965	832.380	813.390	790.500	762.960	731.910	698.085
75	788.115	786.105	779.190	768.375	753.285	734.175	711.285	684.375	652.200	618.000
80	705.885	703.875	696.825	686.145	670.680	651.570	627.795	600.900	570.585	536.010
85	619.635	617.235	610.455	600.015	585.180	565.065	542.175	513.885	488.115	454.920
90	530.865	528.720	521.925	511.875	499.050	479.805	457.680	431.025	401.985	368.655
95	443.850	441.705	435.300	424.995	410.910	392.295	370.800	344.895	315.855	284.925
100	353.820	351.930	345.645	335.715	322.140	304.665	284.040	259.650	232.230	202.935
105	264.795	263.160	257.385	247.950	235.260	218.775	199.545	176.910	151.380	124.350
110	179.295	177.795	172.260	163.710	152.010	136.800	119.205	98.325	74.940	50.175
115	97.830	96.060	91.155	83.370	72.930	59.100	43.125	24.270	6.795	0.000
120	21.375	19.860	15.720	9.555	3.525	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	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790
5	1091.760	1087.995	1083.600	1079.325	1075.050	1070.265	1065.495	1060.590	1056.180	1050.900
10	1122.570	1113.900	1104.585	1094.415	1084.605	1074.045	1063.230	1052.670	1042.095	1030.665
15	1140.810	1127.475	1112.895	1097.550	1082.340	1066.620	1049.640	1033.425	1017.450	1000.350
20	1146.840	1129.110	1109.745	1089.255	1068.630	1047.765	1025.505	1004.010	982.500	959.865
25	1140.420	1118.550	1094.655	1069.515	1044.360	1018.965	990.795	964.275	937.860	910.080
30	1122.195	1096.170	1068.135	1038.960	1009.920	979.740	947.040	916.110	885.315	853.125
35	1092.150	1063.095	1031.910	998.730	965.655	930.315	894.990	860.040	825.210	789.120
40	1051.530	1020.345	986.025	949.440	912.975	874.620	835.515	797.295	759.450	719.715
45	1002.750	968.790	931.335	892.470	853.245	811.875	770.010	729.390	688.275	645.900
50	945.030	909.075	869.970	828.720	787.485	744.105	699.720	656.340	613.470	568.575
55	881.040	843.570	802.695	760.200	717.195	672.945	626.790	580.395	535.755	491.625
60	811.245	772.020	731.280	688.410	642.765	597.000	549.840	505.215	458.190	410.655

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PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A3_WH.IES

CANDELA TABULATION - (Cont.)

65	737.940	697.455	655.845	612.090	565.305	516.780	472.770	425.865	377.835	330.315
70	661.125	620.640	577.380	525.075	488.115	440.070	392.925	345.900	298.380	252.855
75	581.280	540.540	499.170	453.660	408.270	360.615	313.965	267.690	220.035	177.165
80	501.180	460.695	417.690	372.930	328.305	281.775	235.380	190.740	146.100	110.400
85	417.690	377.970	336.345	292.590	249.720	205.200	160.815	118.575	77.460	37.725
90	332.700	295.485	255.495	214.380	173.775	132.780	91.290	50.040	11.700	0.000
95	250.590	215.385	177.540	138.690	100.590	62.235	22.890	0.000	0.000	0.000
100	170.745	137.940	102.720	66.510	30.810	3.150	0.000	0.000	0.000	0.000
105	94.680	64.245	31.680	4.530	0.000	0.000	0.000	0.000	0.000	0.000
110	23.010	2.895	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. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790
5	1046.130	1041.225	1036.575	1032.300	1028.025	1024.620	1020.600	1016.955	1013.685	1010.790
10	1020.345	1009.920	999.600	989.925	980.745	971.685	963.390	955.215	948.180	941.760
15	984.270	967.920	952.830	937.485	923.400	910.080	897.375	885.180	874.620	864.810
20	938.745	917.115	896.880	876.630	858.270	840.795	824.445	808.230	794.520	781.695
25	884.175	858.900	833.385	808.980	786.735	765.735	745.995	726.630	710.160	694.950
30	822.690	792.270	764.100	735.930	709.905	685.515	663.000	641.010	622.275	604.785
35	755.430	721.470	689.535	658.110	629.190	602.280	577.260	552.735	531.870	513.000
40	682.755	645.525	610.695	577.635	545.700	516.645	488.865	463.470	441.330	420.720
45	606.180	566.565	529.350	494.775	461.070	430.140	400.845	374.310	350.925	329.310
50	526.830	485.340	447.240	410.655	375.450	343.890	313.845	286.170	262.155	240.405
55	448.380	405.375	366.015	327.795	293.340	260.145	230.730	202.935	178.545	156.165
60	366.900	325.035	283.035	246.195	212.115	179.805	150.255	121.710	97.950	75.825
65	286.425	245.190	205.335	169.110	133.155	101.970	73.050	45.645	22.125	3.780
70	210.105	168.735	130.260	95.190	59.970	29.295	5.535	0.000	0.000	0.000
75	136.170	96.945	59.595	25.275	0.000	0.000	0.000	0.000	0.000	0.000
80	66.645	28.665	2.265	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	5.790	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_359_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	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790	1058.790
5	1008.285	1005.885	1004.010	1002.615	1001.490	1000.860	1000.605
10	935.985	931.200	927.060	924.030	921.525	920.385	919.890
15	856.140	849.090	843.060	838.410	834.885	833.130	832.125
20	770.760	761.715	754.290	748.005	743.730	740.970	740.085
25	681.870	670.800	661.500	654.075	648.795	645.780	644.520
30	589.455	577.125	566.070	557.895	551.850	548.340	547.455
35	496.530	482.580	470.760	461.580	455.160	451.275	449.880
40	402.735	387.900	375.330	365.520	358.605	354.570	353.070
45	310.575	294.975	281.895	271.590	264.420	260.025	258.765
50	221.175	205.335	191.745	181.185	174.150	169.500	168.240
55	136.800	122.220	107.625	97.200	89.895	85.380	83.985
60	56.460	40.740	27.540	17.100	10.065	6.030	5.025
65	2.265	2.265	2.265	2.265	2.265	2.265	2.265
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A3_WH.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	388.01	N.A.	10.80
0-30	823.10	N.A.	23.00
0-40	1346.38	N.A.	37.60
0-60	2389.9	N.A.	66.70
0-80	3130.51	N.A.	87.30
0-90	3360.73	N.A.	93.80
10-90	3260.36	N.A.	91.00
20-40	958.37	N.A.	26.70
20-50	1501.9	N.A.	41.90
40-70	1459.58	N.A.	40.70
60-80	740.61	N.A.	20.70
70-80	324.54	N.A.	9.10
80-90	230.22	N.A.	6.40
90-110	207.06	N.A.	5.80
90-120	223.58	N.A.	6.20
90-130	223.96	N.A.	6.20
90-150	223.96	N.A.	6.20
90-180	223.96	N.A.	6.20
110-180	16.90	N.A.	0.50
0-180	3584.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.37
10-20	287.64
20-30	435.09
30-40	523.28
40-50	543.53
50-60	499.99
60-70	416.06
70-80	324.54
80-90	230.22
90-100	140.81
100-110	66.25
110-120	16.52
120-130	0.38
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

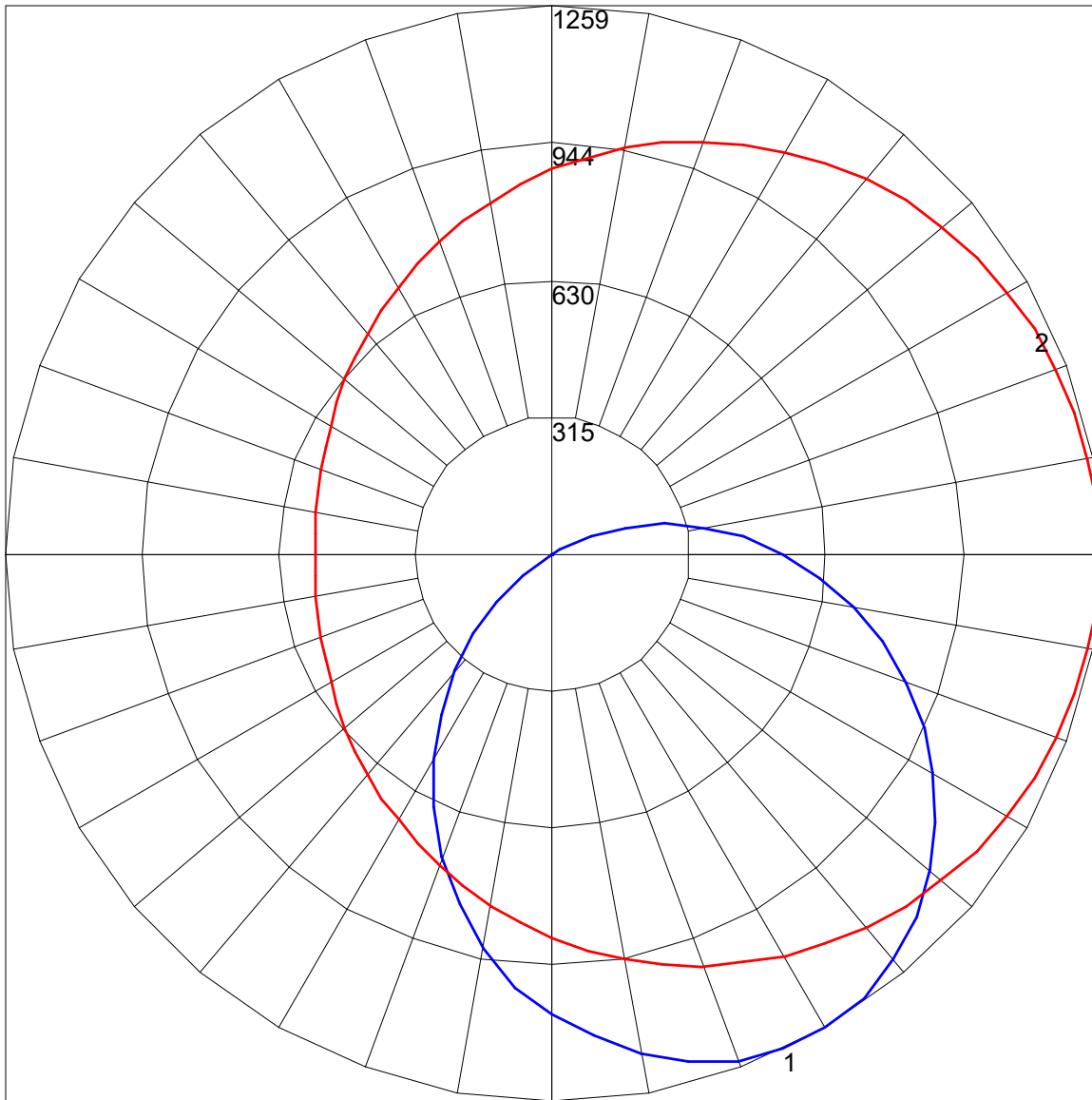
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_A3_WH.IES

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 = 1259.115 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.)