

IES Report

ZipTwo® | 707 | Square 3572, Single Side Diffuse | 80 CRI | SO

707-Z2-4-48-XX-XX-X-0-Z-SO-35-HA-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	114	117	120	120
Total Lumens, 4' rail length (1219mm)	2955	3049	3111	3111
Lumens per foot (305mm)	739	762	778	778
Input Power (W), 4' rail length (1219mm)	26.1	26.1	26.1	26.1
Watts per foot (305mm)	6.6	6.6	6.6	6.6
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_SO_35_HA_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011204 (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-SO-35-HA-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, square 3572,

[MORE] single side diffuse lens, standard output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3111
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	26.19
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	Vertical Rectangle
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.22 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	48	111
55	0	49	80
65	0	52	80
75	0	54	62
85	0	57	44

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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	13.514	13.514	13.514	13.514	13.514	13.514	13.514	13.514	13.514	13.514
5	0.974	1.067	1.067	1.067	1.172	1.172	1.264	1.264	1.264	1.357
10	0.777	0.777	0.777	0.974	0.974	0.974	0.974	0.974	1.067	1.172
15	0.974	0.870	0.974	0.870	0.974	0.974	0.974	0.974	0.974	0.974
20	0.974	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.067	1.067
25	1.357	1.357	1.357	1.357	1.264	1.264	1.264	1.264	1.264	1.264
30	1.554	1.554	1.659	1.659	1.659	1.462	1.462	1.462	1.357	1.264
35	1.949	1.949	1.949	1.844	1.844	1.844	1.752	1.659	1.554	1.554
40	2.332	2.332	2.239	2.239	2.239	2.042	2.042	1.949	1.752	1.752
45	2.529	2.529	2.529	2.529	2.436	2.436	2.239	2.134	1.949	1.949
50	2.923	2.923	2.819	2.819	2.819	2.622	2.622	2.436	2.332	2.134
55	3.109	3.109	3.109	3.109	3.016	3.016	2.819	2.622	2.529	2.332
60	3.503	3.399	3.399	3.399	3.213	3.213	3.016	2.923	2.726	2.529
65	3.700	3.700	3.596	3.596	3.503	3.399	3.213	3.109	2.923	2.726
70	3.886	3.886	3.793	3.793	3.700	3.596	3.399	3.306	3.109	2.923
75	4.083	4.083	3.990	3.990	3.886	3.793	3.596	3.399	3.306	3.016
80	4.280	4.280	4.176	4.176	3.990	3.990	3.793	3.596	3.399	3.109
85	4.478	4.478	4.373	4.280	4.176	3.990	3.886	3.700	3.503	3.306
90	4.478	4.478	4.478	4.373	4.373	4.176	3.990	3.793	3.596	3.306
95	4.663	4.663	4.663	4.570	4.478	4.373	4.176	3.990	3.700	3.503
100	4.860	4.768	4.663	4.663	4.570	4.478	4.280	3.990	3.793	3.503
105	4.860	4.860	4.860	4.860	4.663	4.570	4.373	4.176	3.990	3.700
110	5.058	4.965	4.860	4.860	4.768	4.663	4.478	4.280	3.990	3.793
115	5.058	5.058	4.965	4.860	4.860	4.663	4.478	4.373	4.176	3.793
120	5.058	5.058	4.965	4.860	4.860	4.663	4.570	4.373	4.176	3.886
125	5.058	5.058	4.965	4.860	4.860	4.663	4.478	4.280	4.083	3.886
130	4.860	4.965	4.860	4.860	4.663	4.663	4.478	4.373	4.083	3.886
135	4.860	4.768	4.768	4.663	4.663	4.478	4.280	4.176	4.083	3.990
140	4.663	4.663	4.570	4.570	4.478	4.176	4.280	4.176	4.083	3.990
145	4.478	4.478	4.478	4.373	3.990	4.083	4.280	4.280	4.280	4.176
150	4.280	4.280	4.280	3.886	3.886	4.083	4.176	4.478	4.478	4.373
155	4.083	3.886	3.793	3.596	3.793	3.990	4.478	4.478	4.478	4.373
160	3.700	3.700	3.213	3.399	3.793	4.373	4.478	4.478	4.373	4.570
165	3.700	3.213	3.109	3.503	4.478	4.768	4.965	5.255	5.255	5.440
170	4.663	4.083	4.176	5.058	5.348	5.545	5.638	5.638	5.638	5.638
175	3.503	4.083	4.860	5.255	5.440	5.638	5.638	5.742	5.835	5.742
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	13.514	13.514	13.514	13.514	13.514	13.514	13.514	13.514	13.514	13.514
5	1.357	1.462	1.554	1.752	2.239	3.213	5.058	7.876	11.577	16.437
10	1.172	1.172	1.264	1.264	1.462	1.462	1.844	3.990	10.892	22.168
15	1.067	1.067	1.172	1.264	1.264	1.462	1.462	2.332	10.405	28.107
20	1.067	1.067	1.067	1.172	1.264	1.264	1.462	1.752	9.628	33.942
25	1.067	1.067	1.067	1.067	1.172	1.264	1.462	1.659	9.721	39.289
30	1.264	1.264	1.172	1.067	1.067	1.264	1.357	1.659	9.234	44.532
35	1.357	1.357	1.264	1.172	1.172	1.264	1.357	1.659	7.586	49.103
40	1.554	1.462	1.357	1.264	1.172	1.067	1.264	1.554	7.006	54.648
45	1.752	1.554	1.554	1.357	1.264	1.172	1.264	1.554	6.415	58.534
50	1.949	1.752	1.554	1.357	1.357	1.172	1.172	1.462	5.742	61.944
55	2.134	1.949	1.752	1.554	1.357	1.172	1.172	1.357	5.348	64.566
60	2.332	2.042	1.844	1.659	1.462	1.357	1.172	1.264	4.768	73.312

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CANDELA TABULATION - (Cont.)

65	2.529	2.239	1.949	1.752	1.554	1.357	1.172	1.172	5.928	80.411
70	2.529	2.332	2.042	1.844	1.554	1.357	1.172	1.067	5.440	79.738
75	2.726	2.436	2.134	1.844	1.659	1.462	1.172	1.067	4.860	80.411
80	2.923	2.529	2.239	1.949	1.659	1.462	1.264	1.067	4.373	80.411
85	2.923	2.622	2.332	2.042	1.752	1.462	1.357	1.172	3.596	79.437
90	3.016	2.726	2.436	2.042	1.844	1.554	1.357	1.172	2.923	80.608
95	3.109	2.819	2.436	2.134	1.844	1.659	1.357	1.172	2.726	79.054
100	3.213	2.923	2.622	2.239	1.949	1.659	1.462	1.172	2.529	77.012
105	3.306	3.016	2.726	2.436	2.042	1.752	1.554	1.357	3.306	74.286
110	3.503	3.109	2.819	2.436	2.134	1.949	1.659	1.462	3.109	54.555
115	3.596	3.213	2.923	2.622	2.332	2.042	1.844	1.844	3.109	48.616
120	3.596	3.306	3.016	2.726	2.436	2.134	1.949	2.239	3.109	41.714
125	3.596	3.399	3.109	2.819	2.529	2.332	2.134	2.436	3.213	34.614
130	3.596	3.399	3.213	3.016	2.622	2.529	2.529	2.726	3.306	27.712
135	3.793	3.596	3.399	3.016	2.819	2.819	2.923	2.923	3.399	23.049
140	3.886	3.700	3.399	3.213	3.109	3.213	3.109	3.213	3.503	19.743
145	4.083	3.886	3.700	3.399	3.596	3.700	3.399	3.399	3.700	15.950
150	4.176	4.083	3.886	4.083	4.176	4.083	3.793	3.793	4.280	14.094
155	4.176	4.176	4.478	4.663	4.478	4.280	4.176	4.280	4.570	12.737
160	4.860	4.965	5.058	4.860	4.663	4.570	4.570	4.663	4.768	10.602
165	5.348	5.348	5.150	4.965	4.860	4.860	4.860	4.965	4.965	8.561
170	5.545	5.348	5.255	5.255	5.348	5.348	5.348	5.440	5.348	7.192
175	5.742	5.638	5.742	5.742	5.835	5.835	5.835	5.835	5.835	6.415
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	13.514	13.514	13.514	13.514	13.514	13.514	13.514	13.514	13.514	13.514
5	21.390	26.738	31.993	37.050	42.108	46.678	51.144	55.332	59.218	62.617
10	33.837	45.994	58.046	69.623	81.490	92.278	102.579	112.601	121.835	130.291
15	46.481	65.540	84.692	102.973	122.125	139.629	156.449	172.979	188.349	201.956
20	58.534	84.692	110.942	136.428	163.351	187.955	211.874	235.213	257.091	276.730
25	70.203	102.973	136.428	169.186	203.615	235.700	266.916	298.514	326.424	352.478
30	85.469	120.965	161.507	201.376	243.971	283.539	322.144	361.618	390.212	427.448
35	95.584	139.049	185.240	232.000	282.472	329.336	375.330	419.676	461.576	501.735
40	102.683	154.895	207.118	260.791	318.548	372.708	424.142	477.143	525.758	572.425
45	111.337	169.093	227.244	289.084	349.856	398.866	468.478	529.934	584.976	637.478
50	119.120	179.893	247.370	312.713	379.517	444.083	509.808	577.483	637.385	695.722
55	125.431	190.194	260.397	332.839	397.497	476.458	549.098	617.352	682.498	745.022
60	130.593	198.847	272.936	347.130	419.375	501.248	575.836	650.122	718.864	787.130
65	132.344	205.366	282.379	359.867	441.937	520.306	597.609	675.108	748.618	814.935
70	135.256	210.122	289.571	369.205	453.514	534.215	613.269	695.142	767.584	835.548
75	136.718	215.377	293.944	374.947	460.613	542.288	622.410	702.728	776.330	846.533
80	139.339	216.549	295.696	377.476	461.088	545.594	625.808	705.930	779.253	849.166
85	138.655	216.062	295.208	379.413	460.126	541.604	623.767	703.215	775.553	844.492
90	137.495	214.113	295.116	375.910	455.648	535.966	614.429	694.747	765.542	833.309
95	135.163	208.278	287.912	369.402	447.679	526.431	605.392	681.140	750.462	816.002
100	131.950	203.325	281.010	358.312	439.118	515.353	589.837	663.149	730.046	793.742
105	127.867	197.386	272.264	347.130	412.577	498.626	570.291	640.981	707.298	766.516
110	120.478	189.996	262.056	333.813	403.146	478.883	547.439	616.668	677.834	734.419
115	113.181	181.633	250.189	318.153	390.502	455.845	520.794	584.675	644.287	697.763
120	104.435	171.912	236.095	300.359	368.625	429.780	490.750	550.838	605.102	656.630
125	92.962	153.248	212.953	274.201	337.606	396.627	457.690	513.509	564.166	611.807
130	88.775	132.240	189.614	244.261	299.582	354.519	410.338	467.805	519.042	563.679
135	64.566	110.652	163.838	213.046	261.951	310.567	360.458	408.877	457.400	506.990

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CANDELA TABULATION - (Cont.)

140	51.539	101.616	136.033	181.146	228.218	269.248	311.054	353.742	393.414	435.905
145	41.226	77.302	113.761	149.350	192.630	234.726	267.009	299.384	333.326	364.147
150	33.942	62.617	95.097	124.851	156.554	193.012	228.404	255.339	277.704	302.308
155	28.490	50.947	76.235	102.289	129.131	151.392	179.104	210.030	230.063	246.488
160	23.235	40.646	59.311	78.567	98.797	118.726	137.495	155.776	175.322	189.416
165	17.702	29.847	43.662	56.886	72.048	85.272	98.113	110.560	122.612	136.520
170	12.354	20.033	28.490	37.433	46.191	53.870	61.944	70.203	76.618	82.267
175	7.876	10.695	14.581	18.572	22.945	27.225	30.821	34.232	37.050	39.579
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	13.514	13.514	13.514	13.514	13.514	13.514	13.514
5	65.633	68.254	70.400	72.152	73.416	74.089	74.286
10	137.692	143.910	149.164	153.433	156.449	158.201	158.688
15	214.507	225.005	233.949	241.141	246.106	249.122	250.282
20	294.918	310.277	323.315	333.616	340.912	345.483	347.130
25	376.501	395.746	412.577	426.474	436.392	442.517	444.756
30	456.912	483.360	505.435	522.545	534.992	543.066	545.490
35	538.298	569.224	595.764	616.285	631.550	641.271	644.287
40	614.533	650.412	682.010	707.194	724.896	735.788	739.581
45	685.421	726.160	762.039	790.436	810.167	822.417	826.894
50	748.722	793.637	833.019	864.432	886.495	900.114	904.881
55	801.711	850.524	891.947	926.956	950.968	965.944	970.410
60	844.979	896.320	939.878	975.862	1000.952	1017.181	1022.146
65	875.510	930.552	975.467	1012.030	1038.386	1055.206	1060.460
70	897.202	951.548	999.781	1036.054	1062.398	1079.415	1084.762
75	910.229	964.389	1011.346	1047.526	1073.974	1090.887	1095.852
80	912.560	966.326	1012.518	1048.396	1075.239	1091.282	1096.432
85	906.923	959.912	1005.221	1041.297	1066.678	1082.431	1087.871
90	894.372	946.003	990.733	1025.742	1050.345	1065.506	1070.564
95	875.313	925.587	967.892	1003.087	1027.203	1042.074	1046.842
100	850.906	899.336	940.076	973.530	997.252	1011.740	1016.311
105	821.257	867.738	907.016	939.101	961.570	976.059	980.525
110	785.471	829.818	869.188	898.652	920.530	934.241	938.324
115	747.353	788.974	825.247	853.250	873.666	886.495	890.683
120	703.111	742.400	776.237	802.001	821.744	833.309	837.010
125	654.982	691.256	722.750	747.458	765.055	775.843	779.439
130	602.771	636.016	664.703	687.462	703.308	713.133	716.625
135	547.242	577.193	602.864	623.384	637.872	646.619	649.345
140	480.344	515.249	537.811	556.000	569.316	577.100	579.919
145	403.436	440.185	470.531	486.666	497.652	504.948	507.187
150	330.217	360.157	390.885	414.909	424.537	430.464	432.703
155	261.278	282.564	307.852	337.015	350.830	356.074	357.640
160	201.179	210.610	227.731	247.370	273.331	278.481	279.850
165	144.884	150.232	153.050	163.548	179.301	197.200	198.163
170	88.102	91.698	92.475	92.475	99.864	117.949	126.208
175	41.331	42.201	42.491	40.159	37.433	38.025	51.724
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	26.67	N.A.	0.90
0-30	90.93	N.A.	2.90
0-40	213.76	N.A.	6.90
0-60	662.33	N.A.	21.30
0-80	1318.34	N.A.	42.40
0-90	1672.91	N.A.	53.80
10-90	1669.61	N.A.	53.70
20-40	187.08	N.A.	6.00
20-50	378.02	N.A.	12.20
40-70	760.03	N.A.	24.40
60-80	656.01	N.A.	21.10
70-80	344.56	N.A.	11.10
80-90	354.57	N.A.	11.40
90-110	655.22	N.A.	21.10
90-120	922.14	N.A.	29.60
90-130	1132.9	N.A.	36.40
90-150	1373.59	N.A.	44.20
90-180	1438.05	N.A.	46.20
110-180	782.83	N.A.	25.20
0-180	3110.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3.30
10-20	23.37
20-30	64.26
30-40	122.82
40-50	190.94
50-60	257.64
60-70	311.45
70-80	344.56
80-90	354.57
90-100	342.91
100-110	312.31
110-120	266.92
120-130	210.77
130-140	149.02
140-150	91.66
150-160	46.38
160-170	16.03
170-180	2.05

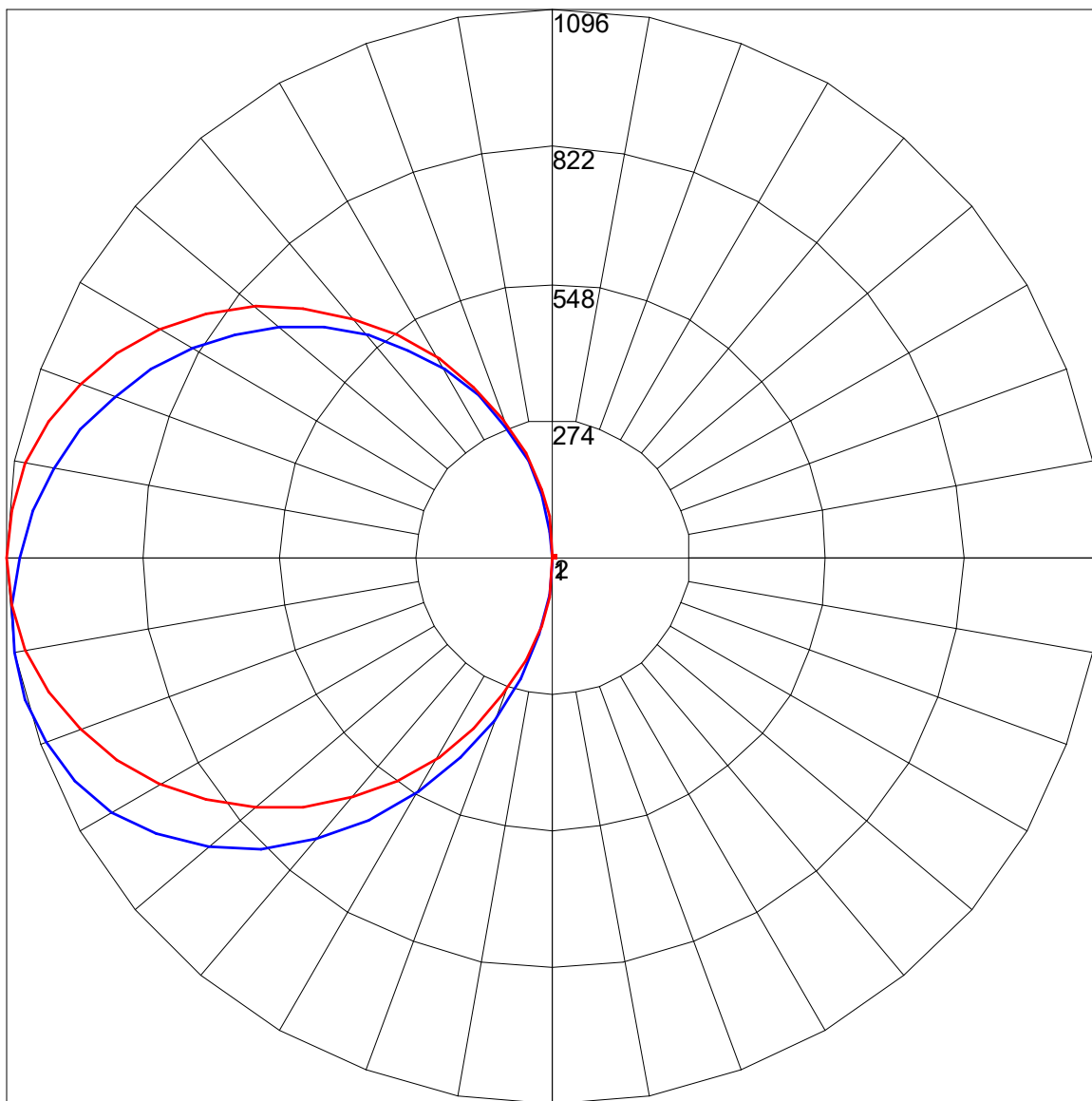
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	39	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	18	25	19	15	19	15	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	29	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 = 1096.432 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.)