

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	106	110	112	112
Total Lumens, 4' rail length (1219mm)	2762	2849	2907	2907
Lumens per foot (305mm)	691	712	727	727
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_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-SO-35-JA-WH

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

[MORE] square 3554, 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	2907
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	26.18
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	20.544	20.544	20.544	20.544	20.544	20.544	20.544	20.544	20.544	20.544
5	1.357	1.357	1.462	1.462	1.462	1.659	1.659	1.659	1.659	1.752
10	0.580	0.684	0.777	0.777	0.777	0.870	0.974	0.974	1.067	1.172
15	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777
20	0.974	0.974	0.974	0.974	0.974	0.974	0.974	0.974	0.974	0.974
25	1.172	1.172	1.264	1.264	1.172	1.172	1.172	1.067	1.067	1.067
30	1.554	1.554	1.462	1.462	1.462	1.462	1.357	1.264	1.264	1.264
35	1.752	1.844	1.844	1.752	1.752	1.659	1.659	1.554	1.462	1.357
40	2.134	2.134	2.134	2.042	2.042	2.042	1.844	1.752	1.659	1.554
45	2.529	2.436	2.436	2.436	2.332	2.239	2.134	2.042	1.949	1.752
50	2.726	2.726	2.726	2.622	2.622	2.436	2.436	2.239	2.134	1.949
55	2.923	3.016	3.016	2.923	2.819	2.819	2.622	2.529	2.332	2.134
60	3.306	3.306	3.213	3.213	3.109	3.016	2.819	2.726	2.529	2.332
65	3.503	3.503	3.399	3.399	3.306	3.213	3.016	2.923	2.726	2.529
70	3.700	3.700	3.700	3.596	3.503	3.399	3.213	3.109	2.923	2.726
75	3.886	3.886	3.886	3.793	3.700	3.596	3.399	3.213	3.016	2.819
80	4.083	4.083	4.083	3.990	3.886	3.793	3.596	3.399	3.213	2.923
85	4.280	4.280	4.176	4.176	3.990	3.990	3.793	3.596	3.306	3.109
90	4.280	4.280	4.280	4.176	4.176	3.990	3.793	3.596	3.399	3.109
95	4.280	4.280	4.280	4.176	4.176	3.990	3.793	3.700	3.399	3.109
100	4.478	4.478	4.373	4.280	4.280	4.083	3.990	3.793	3.503	3.306
105	4.478	4.478	4.478	4.478	4.280	4.176	4.083	3.793	3.596	3.399
110	4.663	4.663	4.478	4.478	4.478	4.280	4.176	3.990	3.793	3.503
115	4.663	4.663	4.570	4.478	4.478	4.280	4.176	3.990	3.793	3.596
120	4.663	4.663	4.478	4.478	4.478	4.280	4.176	4.083	3.886	3.503
125	4.663	4.570	4.478	4.478	4.373	4.280	4.083	3.990	3.793	3.596
130	4.663	4.478	4.478	4.280	4.280	4.176	3.990	3.990	3.700	3.596
135	4.478	4.280	4.280	4.280	4.176	4.083	3.886	3.793	3.700	3.596
140	4.478	4.176	4.083	4.083	3.990	3.793	3.886	3.793	3.793	3.793
145	4.280	4.083	3.886	3.886	3.700	3.793	3.886	3.886	3.990	3.886
150	4.083	3.886	3.700	3.596	3.596	3.793	3.990	4.083	4.083	3.886
155	3.886	3.700	3.596	3.306	3.596	3.793	4.083	4.083	3.990	3.886
160	3.503	3.503	3.016	3.213	3.503	3.990	3.886	3.886	3.793	3.793
165	3.306	2.923	2.726	3.109	3.793	3.700	3.700	3.700	3.886	3.990
170	3.503	2.923	3.109	3.886	4.083	4.373	4.663	5.058	5.545	6.125
175	5.835	6.519	7.192	7.876	7.876	8.166	8.271	8.364	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	20.544	20.544	20.544	20.544	20.544	20.544	20.544	20.544	20.544	20.544
5	1.844	1.949	2.529	3.990	5.545	7.876	11.472	15.753	20.126	25.184
10	1.264	1.357	1.554	1.659	1.752	1.949	4.570	10.405	19.743	30.728
15	0.870	0.974	1.172	1.357	1.554	1.752	1.949	5.928	19.059	35.983
20	0.974	0.974	0.870	0.974	1.172	1.357	1.752	2.923	18.374	41.029
25	1.067	1.067	0.974	0.870	0.974	1.172	1.554	1.752	17.412	45.797
30	1.172	1.067	1.067	1.067	0.870	1.067	1.357	1.752	16.437	50.170
35	1.264	1.264	1.172	1.067	1.067	0.870	1.172	1.554	16.437	52.896
40	1.462	1.357	1.264	1.172	1.067	1.067	1.067	1.462	15.173	56.202
45	1.554	1.554	1.357	1.172	1.172	1.067	0.870	1.357	14.001	58.824
50	1.752	1.554	1.554	1.357	1.172	1.067	0.974	1.172	11.275	62.814
55	1.949	1.752	1.554	1.357	1.264	1.172	1.067	1.067	9.721	64.658
60	2.134	1.949	1.752	1.554	1.357	1.172	1.067	1.067	8.271	65.923

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CANDELA TABULATION - (Cont.)

65	2.332	2.042	1.844	1.554	1.357	1.172	1.067	0.974	6.705	73.312
70	2.529	2.134	1.949	1.659	1.554	1.357	1.172	0.974	5.255	73.799
75	2.529	2.332	2.042	1.752	1.554	1.357	1.172	0.974	3.793	71.758
80	2.726	2.436	2.134	1.844	1.554	1.357	1.172	0.974	4.176	71.178
85	2.819	2.529	2.239	1.844	1.659	1.357	1.172	1.067	3.306	70.110
90	2.923	2.622	2.239	1.949	1.659	1.462	1.172	1.067	2.332	77.500
95	2.923	2.622	2.239	2.042	1.659	1.462	1.357	1.172	1.659	68.254
100	3.016	2.726	2.436	2.042	1.844	1.554	1.357	1.172	1.554	58.928
105	3.109	2.819	2.529	2.134	1.844	1.659	1.357	1.264	1.752	55.332
110	3.213	2.923	2.529	2.332	1.949	1.752	1.462	1.357	1.949	48.906
115	3.306	3.016	2.622	2.436	2.042	1.844	1.752	1.554	2.332	39.579
120	3.306	3.109	2.726	2.529	2.239	2.042	1.949	1.949	2.726	28.884
125	3.306	3.109	2.923	2.529	2.436	2.239	2.042	2.332	3.109	23.049
130	3.399	3.213	2.923	2.726	2.529	2.436	2.134	2.923	3.399	18.862
135	3.399	3.306	3.109	2.923	2.726	2.529	2.436	3.306	3.596	16.530
140	3.596	3.503	3.306	3.109	2.819	2.529	2.923	3.700	3.793	13.908
145	3.793	3.596	3.306	3.109	2.819	2.622	3.306	3.886	4.083	11.577
150	3.886	3.700	3.503	3.213	3.213	3.399	4.083	4.373	4.570	10.892
155	3.793	3.596	3.503	3.503	3.886	4.373	4.768	4.860	5.058	10.405
160	3.700	3.793	3.886	4.478	5.255	5.545	5.440	5.638	5.835	9.141
165	4.280	4.860	5.545	6.415	7.006	6.809	6.809	6.902	7.006	8.746
170	6.705	7.389	7.969	7.784	7.784	7.876	7.969	7.969	8.074	8.851
175	8.364	8.364	8.456	8.456	8.456	8.654	8.654	8.654	8.746	8.944
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	20.544	20.544	20.544	20.544	20.544	20.544	20.544	20.544	20.544	20.544
5	29.754	34.324	38.988	43.558	47.838	51.829	55.819	59.508	62.814	65.830
10	41.134	51.539	62.524	72.639	82.557	92.081	101.419	110.165	117.949	125.338
15	52.316	68.649	85.956	102.289	118.146	133.597	148.387	163.456	176.390	188.929
20	63.208	86.246	109.492	131.857	154.315	176.100	197.780	218.486	237.359	255.246
25	73.509	102.289	131.173	161.124	189.996	219.170	247.463	273.911	299.002	322.631
30	83.230	117.172	153.248	188.732	226.560	261.858	296.078	330.113	361.328	387.684
35	95.781	132.043	174.348	216.154	261.174	302.992	344.218	385.155	422.008	457.005
40	100.537	145.858	194.080	242.115	294.037	342.467	387.092	437.471	480.924	521.675
45	106.372	159.755	211.978	266.034	323.988	378.833	430.952	484.718	534.122	581.856
50	114.550	171.042	228.114	287.529	351.503	398.274	469.266	528.774	583.410	635.726
55	119.793	180.473	242.022	305.996	373.288	436.589	502.709	566.985	625.913	683.078
60	124.074	188.245	255.734	323.895	390.885	460.416	530.816	598.780	661.594	722.367
65	127.577	192.525	263.018	336.435	397.312	479.277	552.879	623.871	689.400	752.805
70	129.711	196.713	269.828	343.337	406.255	495.610	571.265	642.141	709.630	774.683
75	130.976	199.532	274.201	349.462	422.194	504.948	579.524	653.811	724.316	788.197
80	129.131	200.599	276.242	352.478	432.703	509.124	584.489	661.304	729.756	793.440
85	128.354	200.309	276.057	352.582	432.599	509.124	583.898	658.196	728.492	791.793
90	128.737	200.402	273.725	349.566	422.588	504.948	579.037	652.454	719.641	784.404
95	125.825	196.806	269.248	344.114	407.705	494.740	570.094	641.956	707.878	771.180
100	122.125	191.458	261.858	337.316	401.685	481.899	553.181	625.228	689.690	751.146
105	117.659	182.897	255.826	326.621	395.746	466.830	537.718	605.682	667.522	727.030
110	112.601	175.705	243.670	311.646	382.522	450.590	516.513	581.856	641.178	698.158
115	105.989	167.144	231.814	296.763	366.189	428.910	491.620	553.761	610.160	665.480
120	93.345	156.844	218.393	279.850	345.286	400.026	463.327	523.717	576.613	625.518
125	86.640	138.272	196.608	253.692	316.402	376.014	431.822	487.931	537.324	583.028
130	62.907	117.752	173.466	224.124	279.166	332.062	382.626	440.475	491.921	535.862
135	47.641	103.170	147.506	196.608	244.644	290.255	336.342	377.951	430.464	479.962

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CANDELA TABULATION - (Cont.)

140	38.408	79.054	119.793	167.829	211.491	251.360	290.255	330.704	366.676	409.654
145	31.506	58.824	98.496	134.189	175.218	218.973	249.992	280.337	312.028	345.286
150	27.910	48.036	74.576	111.337	138.168	174.928	213.138	239.784	260.687	283.249
155	23.235	40.554	59.021	81.188	110.270	133.992	160.927	192.235	213.626	231.524
160	18.479	32.677	46.968	61.944	77.012	96.941	117.659	136.323	155.672	171.135
165	14.291	23.432	35.299	46.191	57.269	67.384	77.302	88.578	99.760	114.248
170	11.380	15.753	21.970	29.754	37.050	43.860	49.880	56.005	61.747	65.830
175	9.535	10.498	12.354	14.686	17.214	20.416	23.629	26.842	29.371	31.598
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	20.544	20.544	20.544	20.544	20.544	20.544	20.544
5	68.452	70.888	72.825	74.391	75.354	75.945	76.038
10	132.043	137.588	142.355	146.044	148.677	150.127	150.522
15	199.914	209.252	217.326	223.648	227.824	230.446	231.420
20	271.289	284.803	296.566	305.904	312.226	316.019	317.376
25	344.021	362.013	377.766	387.776	397.404	402.358	404.109
30	416.556	439.408	458.757	474.312	485.309	492.408	494.937
35	488.511	517.105	540.247	559.596	573.202	581.960	584.582
40	558.528	591.101	619.788	641.561	657.604	668.114	671.118
45	624.648	661.502	693.877	718.666	737.145	748.908	752.028
50	683.565	724.501	760.484	788.197	808.810	821.454	825.340
55	734.814	779.636	818.044	848.969	870.847	884.361	888.931
60	777.502	824.366	865.789	898.269	921.121	935.412	940.470
65	810.167	859.084	900.798	935.900	960.016	975.084	979.748
70	833.309	883.781	926.364	961.176	986.754	1001.532	1006.590
75	847.600	898.072	941.143	976.349	1000.651	1016.601	1021.171
80	851.104	901.865	947.268	981.209	1005.616	1021.171	1026.032
85	848.969	900.508	944.159	977.613	1001.428	1017.285	1022.146
90	842.160	891.367	934.241	966.814	990.837	1005.813	1010.476
95	827.579	875.800	917.618	950.678	973.913	988.401	992.972
100	806.084	852.855	893.792	925.587	948.346	962.150	967.301
105	780.413	825.433	865.012	896.030	917.618	931.132	935.795
110	749.302	792.663	829.226	859.862	880.858	893.792	898.072
115	712.646	753.965	788.974	816.976	837.300	849.944	853.922
120	669.854	710.013	742.586	769.428	788.394	800.052	803.950
125	623.871	661.107	692.218	716.045	733.549	744.824	748.328
130	574.861	607.341	635.831	657.894	673.751	684.249	687.648
135	520.596	550.165	575.928	595.474	610.056	618.999	621.725
140	453.026	489.578	512.337	530.329	542.868	550.838	553.274
145	377.661	414.027	446.310	461.866	472.862	479.660	482.096
150	309.790	336.539	367.848	391.280	400.803	406.638	408.587
155	245.328	265.164	286.555	315.439	330.890	335.658	337.212
160	183.199	191.655	207.594	226.757	253.402	258.935	260.397
165	124.271	130.593	133.017	143.422	157.041	175.218	175.995
170	69.716	72.639	72.152	70.400	76.038	90.236	100.734
175	33.153	34.127	34.614	32.863	29.951	30.334	42.004
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	25.78	N.A.	0.90
0-30	85.22	N.A.	2.90
0-40	197.85	N.A.	6.80
0-60	609.86	N.A.	21.00
0-80	1218.56	N.A.	41.90
0-90	1550.97	N.A.	53.30
10-90	1547.44	N.A.	53.20
20-40	172.07	N.A.	5.90
20-50	347.12	N.A.	11.90
40-70	699.97	N.A.	24.10
60-80	608.70	N.A.	20.90
70-80	320.75	N.A.	11.00
80-90	332.42	N.A.	11.40
90-110	618.87	N.A.	21.30
90-120	872.31	N.A.	30.00
90-130	1072.19	N.A.	36.90
90-150	1298.25	N.A.	44.70
90-180	1356.42	N.A.	46.70
110-180	737.54	N.A.	25.40
0-180	2907.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3.53
10-20	22.24
20-30	59.44
30-40	112.63
40-50	175.05
50-60	236.96
60-70	287.95
70-80	320.75
80-90	332.42
90-100	323.18
100-110	295.69
110-120	253.44
120-130	199.88
130-140	140.43
140-150	85.63
150-160	42.53
160-170	13.88
170-180	1.77

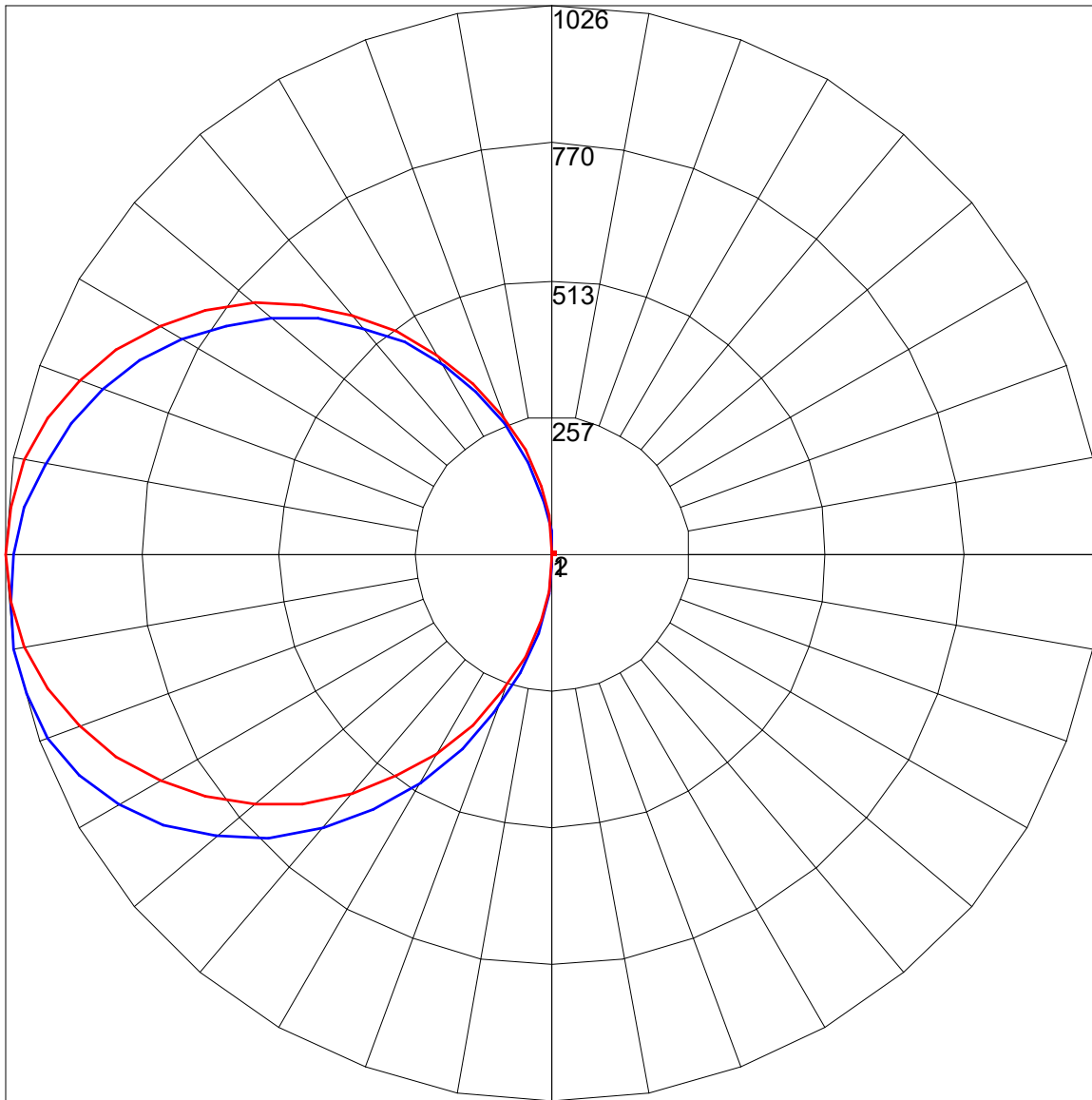
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1026.032 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.)