

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-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	100	103	105	105
Total Lumens, 4' rail length (1219mm)	2604	2686	2741	2741
Lumens per foot (305mm)	651	671	685	685
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_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-SO-35-JA-BL

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

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

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2741
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
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	18.305	18.305	18.305	18.305	18.305	18.305	18.305	18.305	18.305	18.305
5	1.172	1.172	1.264	1.264	1.264	1.264	1.264	1.462	1.462	1.462
10	0.580	0.684	0.777	0.777	0.777	0.870	0.870	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	0.777	0.974	0.974	0.870	0.870	0.870	0.870	0.870	0.870	0.870
25	1.172	1.172	1.067	1.067	1.067	1.067	1.067	1.067	1.067	0.974
30	1.357	1.357	1.357	1.357	1.357	1.264	1.264	1.264	1.067	1.067
35	1.752	1.659	1.659	1.659	1.659	1.462	1.462	1.462	1.357	1.264
40	1.949	1.949	1.949	1.949	1.844	1.844	1.659	1.659	1.554	1.462
45	2.332	2.239	2.239	2.239	2.134	2.042	2.042	1.844	1.752	1.659
50	2.529	2.529	2.529	2.436	2.436	2.239	2.239	2.042	1.949	1.752
55	2.726	2.726	2.726	2.726	2.622	2.622	2.436	2.239	2.239	2.042
60	2.923	3.016	2.923	2.923	2.819	2.819	2.622	2.529	2.332	2.134
65	3.306	3.213	3.213	3.109	3.016	3.016	2.819	2.622	2.529	2.332
70	3.503	3.399	3.399	3.306	3.213	3.213	3.016	2.819	2.726	2.529
75	3.700	3.596	3.596	3.503	3.399	3.306	3.213	3.016	2.819	2.622
80	3.700	3.700	3.700	3.700	3.596	3.399	3.399	3.213	2.923	2.726
85	3.886	3.886	3.886	3.793	3.700	3.596	3.399	3.213	3.016	2.819
90	4.083	4.083	3.990	3.886	3.793	3.700	3.596	3.399	3.213	2.923
95	4.083	4.083	4.083	3.990	3.886	3.793	3.596	3.399	3.213	2.923
100	4.083	4.083	4.083	4.083	3.990	3.793	3.596	3.503	3.306	3.109
105	4.280	4.280	4.280	4.176	4.083	3.990	3.793	3.596	3.399	3.109
110	4.478	4.373	4.280	4.280	4.176	3.990	3.886	3.700	3.503	3.306
115	4.478	4.478	4.373	4.280	4.176	4.083	3.990	3.793	3.503	3.306
120	4.478	4.373	4.373	4.280	4.176	4.083	3.990	3.793	3.596	3.306
125	4.478	4.373	4.280	4.176	4.176	3.990	3.886	3.793	3.596	3.399
130	4.280	4.280	4.176	4.176	3.990	3.990	3.793	3.700	3.503	3.213
135	4.083	4.083	4.083	3.990	3.990	3.793	3.700	3.596	3.503	3.306
140	3.886	3.886	3.886	3.793	3.793	3.596	3.503	3.596	3.503	3.306
145	3.700	3.700	3.700	3.596	3.399	3.503	3.596	3.596	3.399	3.399
150	3.503	3.503	3.399	3.213	3.306	3.399	3.503	3.503	3.596	3.399
155	3.109	3.213	3.109	3.109	3.213	3.399	3.503	3.596	3.399	3.399
160	2.923	2.923	2.726	2.819	3.016	3.399	3.399	3.306	3.213	3.213
165	2.529	2.436	2.529	2.726	3.109	3.109	3.109	2.923	3.016	3.016
170	2.332	2.332	2.436	2.923	3.109	3.109	3.306	3.596	3.990	4.373
175	3.700	4.176	4.570	5.058	5.150	5.255	5.440	5.545	5.638	5.638
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	18.305	18.305	18.305	18.305	18.305	18.305	18.305	18.305	18.305	18.305
5	1.462	1.554	1.752	2.529	3.990	6.229	9.628	13.514	17.887	22.655
10	1.172	1.264	1.357	1.357	1.462	1.554	3.016	8.654	17.702	28.200
15	0.777	0.974	1.067	1.172	1.357	1.357	1.554	4.663	17.307	33.350
20	0.870	0.777	0.870	0.974	1.172	1.264	1.357	2.332	16.530	38.210
25	0.870	0.870	0.870	0.870	0.974	1.172	1.357	1.462	15.753	42.885
30	1.067	1.067	0.870	0.870	0.870	0.974	1.172	1.357	14.976	47.258
35	1.172	1.067	1.067	1.067	0.870	0.870	1.067	1.357	14.001	51.144
40	1.357	1.264	1.172	1.067	0.974	0.870	0.974	1.264	14.001	53.290
45	1.554	1.357	1.264	1.172	1.067	0.870	0.870	1.172	13.027	56.202
50	1.659	1.554	1.357	1.172	1.067	0.974	0.870	1.067	11.762	58.441
55	1.752	1.554	1.462	1.357	1.172	1.067	0.870	0.974	9.048	61.840
60	1.949	1.752	1.554	1.357	1.172	1.067	0.974	0.870	7.679	63.104

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CANDELA TABULATION - (Cont.)

65	2.134	1.949	1.752	1.554	1.357	1.172	0.974	0.870	6.229	63.696
70	2.239	1.949	1.752	1.554	1.357	1.172	0.974	0.870	4.860	63.881
75	2.332	2.134	1.949	1.659	1.357	1.172	1.067	0.870	3.596	63.498
80	2.529	2.239	1.949	1.752	1.462	1.357	1.172	0.974	3.886	60.680
85	2.529	2.332	2.042	1.752	1.554	1.357	1.172	0.974	2.923	59.311
90	2.726	2.332	2.134	1.844	1.554	1.357	1.172	0.974	1.949	57.559
95	2.726	2.436	2.134	1.844	1.659	1.357	1.172	1.067	1.462	57.466
100	2.819	2.529	2.239	1.949	1.659	1.462	1.264	1.067	1.357	55.332
105	2.923	2.622	2.332	2.042	1.752	1.554	1.357	1.172	1.554	51.539
110	3.016	2.726	2.436	2.042	1.844	1.554	1.357	1.264	1.659	45.414
115	3.109	2.726	2.436	2.134	1.949	1.752	1.554	1.264	1.949	37.538
120	3.109	2.819	2.529	2.332	2.042	1.844	1.659	1.462	2.332	28.977
125	3.109	2.819	2.529	2.332	2.042	1.844	1.659	1.844	2.529	23.049
130	3.016	2.819	2.622	2.436	2.134	1.949	1.752	2.239	2.726	18.769
135	3.213	2.923	2.726	2.529	2.239	2.042	1.844	2.529	2.923	16.727
140	3.109	3.016	2.819	2.622	2.332	2.042	2.239	2.819	3.109	14.198
145	3.306	3.109	2.819	2.529	2.332	2.134	2.726	3.109	3.399	11.960
150	3.306	3.109	2.923	2.622	2.436	2.819	3.306	3.503	3.886	10.498
155	3.213	3.016	2.923	2.622	2.819	3.596	3.990	4.176	4.478	9.048
160	3.016	2.923	2.923	3.213	3.886	4.373	4.570	4.570	4.965	7.784
165	3.213	3.503	3.886	4.478	4.768	4.860	4.965	5.150	5.348	6.902
170	4.768	5.058	5.150	5.255	5.348	5.440	5.545	5.545	5.835	6.612
175	5.545	5.545	5.638	5.638	5.742	5.742	5.928	5.928	6.229	6.519
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	18.305	18.305	18.305	18.305	18.305	18.305	18.305	18.305	18.305	18.305
5	26.935	31.506	35.879	40.066	44.440	48.326	52.119	55.715	58.928	61.840
10	38.118	48.523	58.534	68.846	78.567	87.800	96.558	105.409	113.181	120.373
15	49.010	65.540	81.490	97.718	113.286	128.354	142.645	157.226	169.673	181.540
20	59.705	82.267	104.922	126.800	148.283	169.290	190.101	210.030	228.114	245.224
25	69.820	100.642	126.800	154.698	182.410	209.252	236.768	262.926	286.648	309.604
30	79.634	112.694	147.308	182.410	216.352	250.096	284.119	316.889	346.840	375.434
35	94.412	126.892	167.249	207.408	250.386	290.545	330.020	369.402	403.924	438.341
40	99.087	139.826	185.913	231.814	281.300	327.781	373.485	417.623	460.798	499.983
45	101.999	151.392	202.640	254.179	309.894	362.106	412.090	465.276	512.720	557.160
50	107.938	163.351	217.709	274.201	335.368	389.528	448.259	505.238	559.491	608.501
55	114.446	172.109	230.747	291.705	357.535	418.215	479.474	541.117	597.806	652.744
60	118.332	179.208	241.141	307.748	373.682	437.854	505.041	570.581	630.379	688.912
65	121.058	184.452	251.256	318.838	387.869	454.674	522.835	593.038	655.667	716.335
70	122.809	186.203	255.049	326.911	393.228	469.069	539.075	608.698	673.264	735.498
75	123.586	188.245	258.552	329.823	397.312	476.551	547.532	618.129	683.472	746.193
80	121.452	188.836	259.817	331.482	399.643	479.567	550.838	621.632	688.727	749.499
85	120.280	187.955	258.935	330.600	398.762	478.303	549.190	621.725	686.198	746.379
90	118.332	185.426	255.931	327.201	396.824	473.152	543.158	612.387	678.032	737.342
95	117.554	183.872	251.360	321.366	391.964	464.789	533.438	601.309	663.543	723.237
100	114.248	179.011	244.934	313.397	384.563	451.078	519.819	586.241	646.329	704.480
105	110.072	173.176	239.099	305.219	372.024	436.299	502.999	566.695	624.834	680.850
110	105.305	164.140	229.286	292.970	357.048	413.737	484.335	543.738	599.558	653.034
115	98.693	156.066	216.352	276.730	341.585	395.943	458.861	516.908	570.094	620.461
120	92.475	145.858	203.510	260.791	321.656	378.438	431.822	486.469	537.811	583.898
125	70.006	128.250	182.897	235.793	293.747	349.276	396.627	454.291	500.470	543.356
130	57.269	107.149	161.217	208.672	259.910	308.722	358.417	408.970	458.664	498.916
135	46.087	94.122	136.126	182.120	227.140	269.828	312.713	357.338	399.539	444.860

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CANDELA TABULATION - (Cont.)

140	37.433	72.048	112.207	153.143	196.608	233.079	269.050	306.878	343.244	374.645
145	30.334	55.518	89.656	122.229	160.730	201.573	232.197	259.712	288.991	320.102
150	26.448	45.020	69.623	98.890	125.825	159.860	195.936	221.305	241.825	262.241
155	21.785	37.433	55.135	74.286	98.600	120.373	144.594	174.928	194.961	212.164
160	17.307	30.241	44.045	57.756	70.690	86.443	105.885	122.809	140.894	155.092
165	12.540	21.588	32.967	42.885	53.290	62.130	71.375	80.226	89.169	102.196
170	8.851	13.618	20.416	27.712	34.417	40.739	45.901	51.829	57.176	60.575
175	7.099	8.074	10.011	12.540	15.463	19.059	22.168	24.894	27.132	29.267
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	18.305	18.305	18.305	18.305	18.305	18.305	18.305
5	64.473	66.700	68.556	70.110	71.085	71.572	71.758
10	126.800	132.147	136.718	140.314	142.738	144.107	144.490
15	192.142	200.982	208.765	214.797	218.973	221.409	222.279
20	260.501	273.528	284.803	293.747	299.779	303.572	304.744
25	330.020	347.420	362.396	374.355	382.522	386.999	388.356
30	399.736	421.811	440.290	455.741	466.343	472.862	475.090
35	469.846	496.294	518.752	537.324	550.350	558.911	561.440
40	536.454	567.669	594.210	615.600	631.156	641.178	644.287
45	597.319	632.908	664.993	689.307	706.811	718.191	721.682
50	654.495	693.784	728.584	755.230	774.973	788.000	791.700
55	702.728	745.509	783.232	811.826	833.414	846.730	851.394
60	742.203	787.315	826.802	858.493	880.672	894.569	898.849
65	771.667	818.334	859.572	892.040	915.089	929.288	934.044
70	791.886	839.538	880.370	914.695	937.941	952.720	957.383
75	802.778	851.104	892.040	925.587	949.506	964.876	969.447
80	804.147	854.027	894.569	928.116	951.652	966.814	971.384
85	800.249	848.285	890.776	922.571	945.713	960.689	965.166
90	791.886	838.564	879.106	910.426	933.081	947.755	952.325
95	777.107	822.231	861.799	892.330	914.509	928.893	933.266
100	756.494	800.539	839.248	869.385	890.683	904.104	908.373
105	731.113	774.091	810.852	840.118	860.824	873.573	877.842
110	701.069	742.006	777.884	805.307	825.050	837.497	841.673
115	666.072	704.770	737.632	764.370	783.824	795.389	799.089
120	626.400	662.859	693.390	718.771	736.368	747.840	751.634
125	581.763	615.113	645.447	667.916	684.539	695.037	698.158
130	535.189	566.010	592.656	612.874	627.954	637.571	640.587
135	483.940	511.653	535.769	554.051	567.669	576.323	578.944
140	419.479	454.476	476.064	492.884	504.461	511.653	514.182
145	351.805	379.900	414.027	428.713	438.921	444.953	447.087
150	287.239	312.713	341.202	365.992	374.645	379.807	381.559
155	225.295	243.867	264.584	290.731	305.996	310.184	311.738
160	166.854	174.928	189.811	207.988	232.000	237.835	239.204
165	111.627	117.752	120.768	130.198	143.225	160.532	161.217
170	63.696	66.213	65.830	64.276	69.623	81.676	92.962
175	30.531	31.111	31.413	29.267	26.935	27.330	38.698
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	24.62	N.A.	0.90
0-30	81.68	N.A.	3.00
0-40	189.75	N.A.	6.90
0-60	583.95	N.A.	21.30
0-80	1161.5	N.A.	42.40
0-90	1474.24	N.A.	53.80
10-90	1470.93	N.A.	53.70
20-40	165.13	N.A.	6.00
20-50	332.83	N.A.	12.10
40-70	668.29	N.A.	24.40
60-80	577.56	N.A.	21.10
70-80	303.46	N.A.	11.10
80-90	312.74	N.A.	11.40
90-110	580.42	N.A.	21.20
90-120	817.27	N.A.	29.80
90-130	1003.43	N.A.	36.60
90-150	1213.32	N.A.	44.30
90-180	1266.45	N.A.	46.20
110-180	686.03	N.A.	25.00
0-180	2740.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3.32
10-20	21.30
20-30	57.06
30-40	108.07
40-50	167.70
50-60	226.50
60-70	274.10
70-80	303.46
80-90	312.74
90-100	303.29
100-110	277.12
110-120	236.85
120-130	186.16
130-140	130.58
140-150	79.31
150-160	39.06
160-170	12.53
170-180	1.53

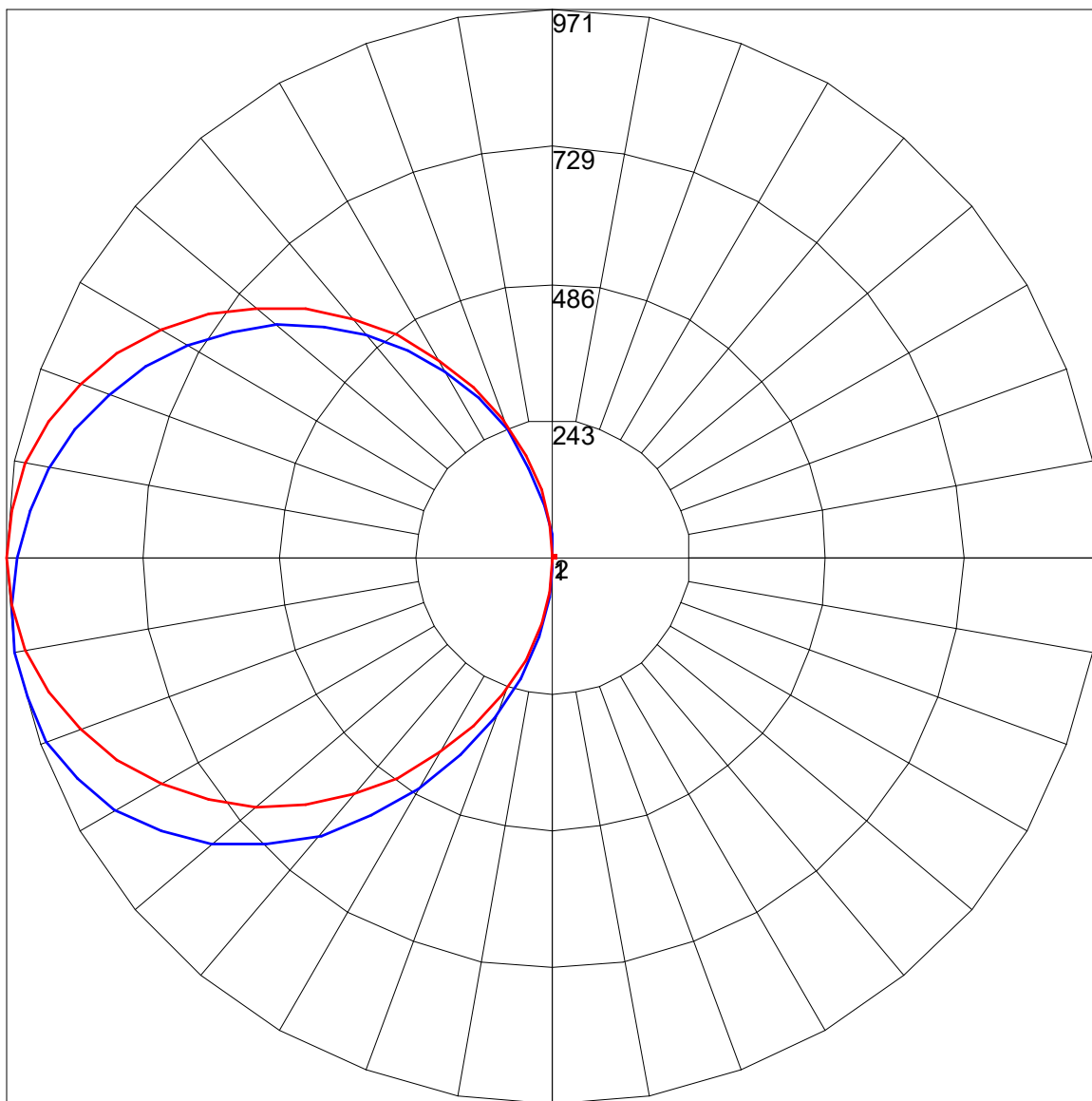
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	18	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 = 971.384 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.)