

IES Report

ZipTwo® | 707 | Ceiling Cable | Square 3570, Single Side Diffuse | 80 CRI | SO
707-Z2-S-4-48-CC-XX-XX-XX-X-X-Z-SO-X-HA-WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	117	121	123	123
Total Lumens, 4' rail length (1219mm)	3038	3134	3198	3198
Lumens per foot (305mm)	760	784	800	800
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_CC_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] 5/12/2021

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-CC-Z-SO-35-HA-WH

[LUMINAIRE] ZipTwo LED, 48", ceiling cable suspended, 3500K, 80 CRI, zipper board, square 3570,

[MORE] single side diffuse lens, standard output, white painted finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3198
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
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	49	114
55	0	51	82
65	0	54	82
75	0	56	63
85	0	59	45

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	13.894	13.894	13.894	13.894	13.894	13.894	13.894	13.894	13.894	13.894
5	1.002	1.097	1.097	1.097	1.205	1.205	1.300	1.300	1.300	1.395
10	0.799	0.799	0.799	1.002	1.002	1.002	1.002	1.002	1.097	1.205
15	1.002	0.894	1.002	0.894	1.002	1.002	1.002	1.002	1.002	1.002
20	1.002	1.097	1.097	1.097	1.097	1.097	1.097	1.097	1.097	1.097
25	1.395	1.395	1.395	1.395	1.300	1.300	1.300	1.300	1.300	1.300
30	1.598	1.598	1.705	1.705	1.705	1.503	1.503	1.503	1.395	1.300
35	2.004	2.004	2.004	1.896	1.896	1.896	1.801	1.705	1.598	1.598
40	2.397	2.397	2.302	2.302	2.302	2.099	2.099	2.004	1.801	1.801
45	2.600	2.600	2.600	2.600	2.504	2.504	2.302	2.194	2.004	2.004
50	3.005	3.005	2.898	2.898	2.898	2.695	2.695	2.504	2.397	2.194
55	3.196	3.196	3.196	3.196	3.101	3.101	2.898	2.695	2.600	2.397
60	3.602	3.494	3.494	3.494	3.304	3.304	3.101	3.005	2.803	2.600
65	3.804	3.804	3.697	3.697	3.602	3.494	3.304	3.196	3.005	2.803
70	3.995	3.995	3.900	3.900	3.804	3.697	3.494	3.399	3.196	3.005
75	4.198	4.198	4.103	4.103	3.995	3.900	3.697	3.494	3.399	3.101
80	4.401	4.401	4.293	4.293	4.103	4.103	3.900	3.697	3.494	3.196
85	4.603	4.603	4.496	4.401	4.293	4.103	3.995	3.804	3.602	3.399
90	4.603	4.603	4.603	4.496	4.496	4.293	4.103	3.900	3.697	3.399
95	4.794	4.794	4.794	4.699	4.603	4.496	4.293	4.103	3.804	3.602
100	4.997	4.902	4.794	4.794	4.699	4.603	4.401	4.103	3.900	3.602
105	4.997	4.997	4.997	4.997	4.794	4.699	4.496	4.293	4.103	3.804
110	5.200	5.104	4.997	4.997	4.902	4.794	4.603	4.401	4.103	3.900
115	5.200	5.200	5.104	4.997	4.997	4.794	4.603	4.496	4.293	3.900
120	5.200	5.200	5.104	4.997	4.997	4.794	4.699	4.496	4.293	3.995
125	5.200	5.200	5.104	4.997	4.997	4.794	4.603	4.401	4.198	3.995
130	4.997	5.104	4.997	4.997	4.794	4.794	4.603	4.496	4.198	3.995
135	4.997	4.902	4.902	4.794	4.794	4.603	4.401	4.293	4.198	4.103
140	4.794	4.794	4.699	4.699	4.603	4.293	4.401	4.293	4.198	4.103
145	4.603	4.603	4.603	4.496	4.103	4.198	4.401	4.401	4.401	4.293
150	4.401	4.401	4.401	3.995	3.995	4.198	4.293	4.603	4.603	4.496
155	4.198	3.995	3.900	3.697	3.900	4.103	4.603	4.603	4.603	4.496
160	3.804	3.804	3.304	3.494	3.900	4.496	4.603	4.603	4.496	4.699
165	3.804	3.304	3.196	3.602	4.603	4.902	5.104	5.402	5.402	5.593
170	4.794	4.198	4.293	5.200	5.498	5.701	5.796	5.796	5.796	5.796
175	3.602	4.198	4.997	5.402	5.593	5.796	5.796	5.903	5.999	5.903
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. 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	13.894	13.894	13.894	13.894	13.894	13.894	13.894	13.894	13.894	13.894
5	1.395	1.503	1.598	1.801	2.302	3.304	5.200	8.098	11.902	16.899
10	1.205	1.205	1.300	1.300	1.503	1.503	1.896	4.103	11.199	22.791
15	1.097	1.097	1.205	1.300	1.300	1.503	1.503	2.397	10.698	28.897
20	1.097	1.097	1.097	1.205	1.300	1.300	1.503	1.801	9.899	34.895
25	1.097	1.097	1.097	1.097	1.205	1.300	1.503	1.705	9.994	40.393
30	1.300	1.300	1.205	1.097	1.097	1.300	1.395	1.705	9.493	45.784
35	1.395	1.395	1.300	1.205	1.205	1.300	1.395	1.705	7.800	50.483
40	1.598	1.503	1.395	1.300	1.205	1.097	1.300	1.598	7.203	56.183
45	1.801	1.598	1.598	1.395	1.300	1.205	1.300	1.598	6.595	60.179
50	2.004	1.801	1.598	1.395	1.395	1.205	1.205	1.503	5.903	63.685
55	2.194	2.004	1.801	1.598	1.395	1.205	1.205	1.395	5.498	66.380
60	2.397	2.099	1.896	1.705	1.503	1.395	1.205	1.300	4.902	75.372

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CANDELA TABULATION - (Cont.)

65	2.600	2.302	2.004	1.801	1.598	1.395	1.205	1.205	6.094	82.671
70	2.600	2.397	2.099	1.896	1.598	1.395	1.205	1.097	5.593	81.979
75	2.803	2.504	2.194	1.896	1.705	1.503	1.205	1.097	4.997	82.671
80	3.005	2.600	2.302	2.004	1.705	1.503	1.300	1.097	4.496	82.671
85	3.005	2.695	2.397	2.099	1.801	1.503	1.395	1.205	3.697	81.669
90	3.101	2.803	2.504	2.099	1.896	1.598	1.395	1.205	3.005	82.874
95	3.196	2.898	2.504	2.194	1.896	1.705	1.395	1.205	2.803	81.276
100	3.304	3.005	2.695	2.302	2.004	1.705	1.503	1.205	2.600	79.177
105	3.399	3.101	2.803	2.504	2.099	1.801	1.598	1.395	3.399	76.374
110	3.602	3.196	2.898	2.504	2.194	2.004	1.705	1.503	3.196	56.088
115	3.697	3.304	3.005	2.695	2.397	2.099	1.896	1.896	3.196	49.982
120	3.697	3.399	3.101	2.803	2.504	2.194	2.004	2.302	3.196	42.886
125	3.697	3.494	3.196	2.898	2.600	2.397	2.194	2.504	3.304	35.587
130	3.697	3.494	3.304	3.101	2.695	2.600	2.600	2.803	3.399	28.491
135	3.900	3.697	3.494	3.101	2.898	2.898	3.005	3.005	3.494	23.697
140	3.995	3.804	3.494	3.304	3.196	3.304	3.196	3.304	3.602	20.298
145	4.198	3.995	3.804	3.494	3.697	3.804	3.494	3.494	3.804	16.398
150	4.293	4.198	3.995	4.198	4.293	4.198	3.900	3.900	4.401	14.490
155	4.293	4.293	4.603	4.794	4.603	4.401	4.293	4.401	4.699	13.095
160	4.997	5.104	5.200	4.997	4.794	4.699	4.699	4.794	4.902	10.900
165	5.498	5.498	5.295	5.104	4.997	4.997	4.997	5.104	5.104	8.801
170	5.701	5.498	5.402	5.402	5.498	5.498	5.498	5.593	5.498	7.394
175	5.903	5.796	5.903	5.903	5.999	5.999	5.999	5.999	5.999	6.595
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	13.894	13.894	13.894	13.894	13.894	13.894	13.894	13.894	13.894	13.894
5	21.992	27.489	32.892	38.092	43.291	47.990	52.582	56.887	60.882	64.377
10	34.788	47.287	59.678	71.580	83.780	94.871	105.462	115.766	125.259	133.953
15	47.787	67.382	87.072	105.867	125.557	143.553	160.846	177.841	193.642	207.632
20	60.179	87.072	114.060	140.262	167.942	193.237	217.828	241.824	264.316	284.507
25	72.176	105.867	140.262	173.941	209.337	242.324	274.417	306.904	335.598	362.383
30	87.871	124.364	166.046	207.035	250.828	291.507	331.197	371.781	401.179	439.461
35	98.270	142.957	190.446	238.520	290.410	338.591	385.878	431.471	474.547	515.835
40	105.569	159.248	212.939	268.120	327.500	383.182	436.062	490.552	540.534	588.512
45	114.466	173.845	233.630	297.208	359.688	410.076	481.643	544.827	601.416	655.393
50	122.468	184.948	254.322	321.501	390.183	456.563	524.136	593.712	655.298	715.274
55	128.956	195.539	267.715	342.193	408.668	489.849	564.529	634.702	701.678	765.959
60	134.263	204.435	280.607	356.886	431.161	515.334	592.019	668.393	739.066	809.251
65	136.064	211.138	290.315	369.980	454.357	534.929	614.404	694.081	769.656	837.837
70	139.057	216.028	297.709	379.581	466.259	549.228	630.504	714.677	789.155	859.030
75	140.560	221.430	302.205	385.484	473.558	557.529	639.901	722.477	798.148	870.324
80	143.255	222.635	304.006	388.084	474.047	560.927	643.396	725.769	801.153	873.031
85	142.551	222.134	303.505	390.076	473.057	556.825	641.297	722.978	797.349	868.225
90	141.359	220.130	303.409	386.474	468.453	551.029	631.696	714.272	787.056	856.728
95	138.962	214.131	296.003	379.783	460.260	541.226	622.406	700.283	771.553	838.934
100	135.658	209.039	288.907	368.382	451.459	529.836	606.413	681.786	750.563	816.048
105	131.460	202.933	279.915	356.886	424.172	512.639	586.318	658.995	727.176	788.058
110	123.863	195.336	269.420	343.195	414.476	492.341	562.824	633.998	696.884	755.059
115	116.362	186.737	257.220	327.094	401.477	468.656	535.430	601.106	662.394	717.373
120	107.370	176.743	242.730	308.800	378.984	441.858	504.541	566.318	622.108	675.083
125	95.575	157.554	218.938	281.907	347.094	407.774	470.552	527.940	580.021	629.001
130	91.270	135.956	194.942	251.126	308.001	364.482	421.870	480.952	533.629	579.520
135	66.380	113.762	168.443	219.033	269.313	319.295	370.589	420.368	470.254	521.238

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CANDELA TABULATION - (Cont.)

140	52.987	104.472	139.856	186.236	234.632	276.814	319.796	363.683	404.470	448.155
145	42.385	79.475	116.958	153.547	198.043	241.323	274.513	307.798	342.694	374.381
150	34.895	64.377	97.769	128.360	160.953	198.437	234.823	262.515	285.508	310.803
155	29.290	52.379	78.378	105.163	132.760	155.646	184.137	215.932	236.528	253.416
160	23.888	41.789	60.978	80.775	101.574	122.063	141.359	160.154	180.250	194.740
165	18.199	30.686	44.889	58.485	74.072	87.668	100.870	113.667	126.058	140.357
170	12.701	20.596	29.290	38.485	47.489	55.384	63.685	72.176	78.771	84.579
175	8.098	10.996	14.991	19.094	23.590	27.990	31.687	35.194	38.092	40.692
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	13.894	13.894	13.894	13.894	13.894	13.894	13.894
5	67.477	70.173	72.379	74.180	75.480	76.171	76.374
10	141.562	147.954	153.356	157.745	160.846	162.647	163.148
15	220.536	231.329	240.524	247.918	253.022	256.123	257.315
20	303.207	318.997	332.401	342.992	350.493	355.192	356.886
25	387.082	406.867	424.172	438.459	448.656	454.953	457.255
30	469.753	496.944	519.640	537.231	550.027	558.328	560.820
35	553.426	585.221	612.507	633.605	649.299	659.293	662.394
40	631.804	668.691	701.177	727.069	745.268	756.466	760.366
45	704.683	746.568	783.455	812.650	832.936	845.530	850.133
50	769.764	815.941	856.430	888.726	911.409	925.410	930.311
55	824.242	874.426	917.014	953.007	977.693	993.090	997.681
60	868.726	921.510	966.292	1003.287	1029.083	1045.767	1050.871
65	900.115	956.704	1002.881	1040.472	1067.568	1084.861	1090.263
70	922.416	978.290	1027.878	1065.171	1092.255	1109.750	1115.248
75	935.809	991.492	1039.768	1076.966	1104.157	1121.545	1126.649
80	938.207	993.484	1040.973	1077.860	1105.457	1121.950	1127.246
85	932.410	986.888	1033.471	1070.561	1096.655	1112.851	1118.444
90	919.507	972.589	1018.576	1054.568	1079.864	1095.451	1100.651
95	899.912	951.599	995.094	1031.277	1056.071	1071.360	1076.262
100	874.820	924.611	966.495	1000.890	1025.278	1040.174	1044.873
105	844.337	892.124	932.506	965.493	988.594	1003.489	1008.081
110	807.545	853.138	893.615	923.907	946.400	960.496	964.694
115	768.356	811.147	848.440	877.229	898.219	911.409	915.714
120	722.871	763.264	798.052	824.540	844.838	856.728	860.532
125	673.390	710.682	743.061	768.464	786.555	797.647	801.344
130	619.711	653.891	683.384	706.782	723.073	733.175	736.764
135	562.621	593.414	619.806	640.903	655.799	664.791	667.594
140	493.844	529.729	552.925	571.625	585.316	593.319	596.217
145	414.774	452.556	483.754	500.343	511.637	519.139	521.441
150	339.497	370.278	401.870	426.569	436.468	442.562	444.864
155	268.621	290.505	316.504	346.486	360.690	366.080	367.691
160	206.833	216.528	234.131	254.322	281.012	286.307	287.715
165	148.956	154.454	157.352	168.145	184.340	202.742	203.732
170	90.578	94.275	95.074	95.074	102.671	121.264	129.755
175	42.492	43.387	43.685	41.288	38.485	39.093	53.178
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	27.42	N.A.	0.90
0-30	93.49	N.A.	2.90
0-40	219.76	N.A.	6.90
0-60	680.94	N.A.	21.30
0-80	1355.39	N.A.	42.40
0-90	1719.93	N.A.	53.80
10-90	1716.53	N.A.	53.70
20-40	192.34	N.A.	6.00
20-50	388.65	N.A.	12.20
40-70	781.39	N.A.	24.40
60-80	674.45	N.A.	21.10
70-80	354.24	N.A.	11.10
80-90	364.54	N.A.	11.40
90-110	673.64	N.A.	21.10
90-120	948.05	N.A.	29.60
90-130	1164.74	N.A.	36.40
90-150	1412.19	N.A.	44.20
90-180	1478.47	N.A.	46.20
110-180	804.83	N.A.	25.20
0-180	3198.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3.40
10-20	24.02
20-30	66.07
30-40	126.28
40-50	196.30
50-60	264.88
60-70	320.21
70-80	354.24
80-90	364.54
90-100	352.55
100-110	321.09
110-120	274.42
120-130	216.69
130-140	153.21
140-150	94.24
150-160	47.68
160-170	16.49
170-180	2.11

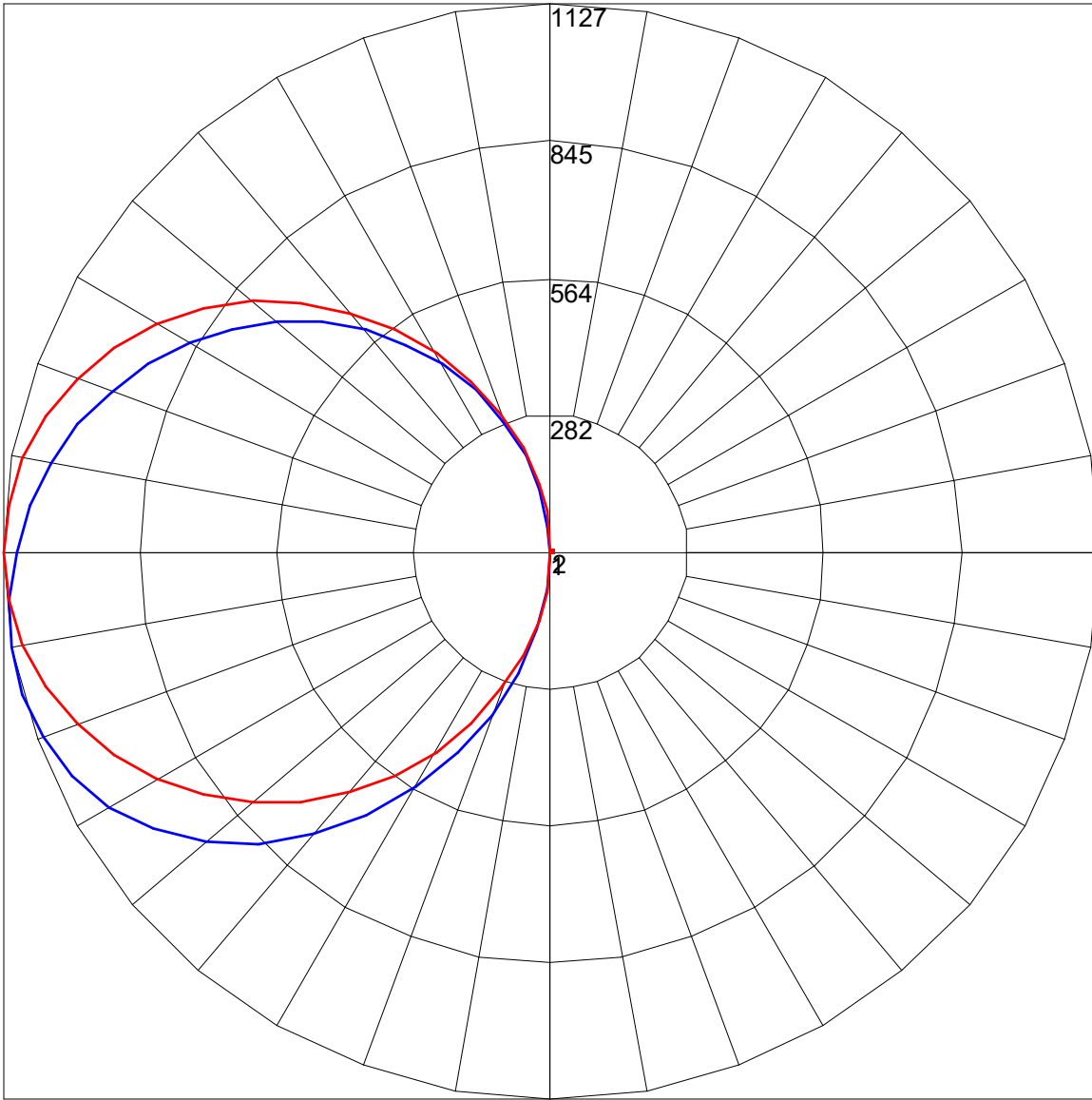
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
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	28	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 = 1127.246 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.)