

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-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	107	110	112	112
Total Lumens, 4' rail length (1219mm)	2775	2863	2921	2921
Lumens per foot (305mm)	694	716	730	730
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011205 (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-BL

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

[MORE] 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	2921
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	26.16
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	43	45
55	0	45	39
65	0	48	34
75	0	51	43
85	0	54	41

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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	4.211	4.211	4.211	4.211	4.211	4.211	4.211	4.211	4.211	4.211
5	1.172	1.172	1.172	1.264	1.264	1.264	1.264	1.462	1.462	1.462
10	0.777	0.777	0.777	0.777	0.777	0.777	0.870	0.974	0.974	0.974
15	0.777	0.777	0.777	0.777	0.777	0.870	0.974	0.974	0.974	0.974
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	1.264	1.264	1.172	1.172	1.067	1.067
30	1.554	1.554	1.462	1.462	1.462	1.462	1.462	1.264	1.264	1.264
35	1.752	1.752	1.752	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	2.332	2.436	2.436	2.332	2.239	2.239	2.134	2.042	1.949	1.752
50	2.726	2.726	2.726	2.622	2.529	2.436	2.436	2.239	2.134	1.949
55	2.923	2.923	2.923	2.923	2.819	2.726	2.622	2.436	2.332	2.134
60	3.109	3.109	3.109	3.109	3.016	3.016	2.819	2.622	2.529	2.332
65	3.503	3.399	3.306	3.306	3.213	3.213	3.016	2.819	2.726	2.529
70	3.700	3.596	3.596	3.503	3.399	3.399	3.213	3.016	2.923	2.726
75	3.700	3.793	3.700	3.700	3.596	3.503	3.399	3.213	3.016	2.819
80	3.886	3.886	3.886	3.886	3.793	3.596	3.503	3.306	3.109	2.923
85	4.083	4.083	4.083	3.990	3.990	3.793	3.596	3.503	3.306	3.109
90	4.280	4.280	4.176	4.083	3.990	3.990	3.793	3.596	3.306	3.109
95	4.280	4.280	4.280	4.176	4.083	3.990	3.793	3.596	3.399	3.109
100	4.478	4.373	4.373	4.280	4.176	3.990	3.886	3.700	3.503	3.306
105	4.478	4.478	4.478	4.373	4.176	4.176	3.990	3.793	3.503	3.306
110	4.478	4.478	4.478	4.373	4.373	4.176	3.990	3.886	3.700	3.399
115	4.478	4.478	4.478	4.373	4.373	4.176	3.990	3.886	3.700	3.399
120	4.478	4.478	4.478	4.373	4.176	4.176	3.990	3.886	3.596	3.306
125	4.478	4.478	4.373	4.373	4.176	4.083	3.990	3.793	3.596	3.399
130	4.280	4.280	4.176	4.176	4.083	3.990	3.793	3.793	3.503	3.306
135	4.083	4.083	4.083	3.990	3.990	3.793	3.700	3.596	3.596	3.399
140	3.886	3.886	3.886	3.793	3.793	3.596	3.596	3.596	3.596	3.399
145	3.700	3.700	3.596	3.596	3.503	3.503	3.596	3.596	3.596	3.503
150	3.503	3.399	3.399	3.213	3.306	3.399	3.596	3.700	3.596	3.503
155	3.109	3.109	2.923	3.016	3.213	3.399	3.503	3.596	3.596	3.399
160	2.726	2.726	2.622	2.726	3.016	3.306	3.399	3.399	3.306	3.306
165	2.529	2.239	2.332	2.529	2.923	3.016	3.109	3.399	3.700	3.886
170	2.923	3.109	3.213	3.700	3.990	4.083	4.176	4.373	4.570	4.478
175	2.923	3.213	3.700	3.990	4.083	4.083	4.176	4.280	4.280	4.280
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	4.211	4.211	4.211	4.211	4.211	4.211	4.211	4.211	4.211	4.211
5	1.554	1.659	1.659	1.659	1.752	1.844	1.949	2.436	3.109	4.663
10	1.172	1.172	1.357	1.462	1.554	1.659	1.752	1.844	3.016	7.679
15	0.974	0.974	1.067	1.172	1.357	1.554	1.659	1.844	2.923	12.644
20	0.974	1.067	1.067	1.067	1.172	1.357	1.554	1.844	2.923	18.664
25	1.067	1.067	1.067	1.067	1.067	1.264	1.462	1.752	2.819	24.604
30	1.172	1.067	1.067	1.067	1.067	1.172	1.357	1.659	2.726	29.267
35	1.357	1.264	1.172	1.067	1.067	1.067	1.357	1.659	2.923	34.614
40	1.462	1.357	1.264	1.172	1.067	1.067	1.264	1.659	2.819	39.475
45	1.554	1.554	1.357	1.264	1.172	1.067	1.264	1.554	2.622	45.414
50	1.752	1.554	1.554	1.357	1.172	1.172	1.067	1.554	2.622	49.497
55	1.949	1.752	1.554	1.357	1.357	1.172	1.067	1.357	2.622	53.093
60	2.134	1.949	1.752	1.554	1.357	1.172	1.067	1.357	2.622	56.202

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CANDELA TABULATION - (Cont.)

65	2.332	2.134	1.844	1.554	1.357	1.172	1.172	1.172	2.529	58.731
70	2.529	2.134	1.949	1.752	1.554	1.357	1.172	1.067	2.332	58.731
75	2.529	2.332	2.042	1.752	1.554	1.357	1.172	1.067	3.399	67.094
80	2.726	2.436	2.134	1.844	1.554	1.357	1.172	1.067	3.306	68.069
85	2.726	2.436	2.239	1.844	1.659	1.357	1.172	1.067	3.306	68.742
90	2.819	2.622	2.239	1.844	1.659	1.462	1.264	1.067	2.923	77.987
95	2.923	2.622	2.239	2.042	1.659	1.462	1.264	1.172	2.923	77.105
100	3.016	2.622	2.436	2.042	1.844	1.554	1.357	1.172	2.622	68.742
105	3.016	2.819	2.436	2.134	1.844	1.659	1.357	1.172	2.436	67.094
110	3.109	2.819	2.436	2.239	1.844	1.659	1.462	1.264	2.239	56.492
115	3.109	2.819	2.529	2.239	2.042	1.752	1.554	1.462	2.923	49.393
120	3.109	2.923	2.529	2.332	2.134	1.752	1.554	1.752	2.819	41.331
125	3.213	2.819	2.622	2.436	2.134	1.949	1.659	1.949	2.819	34.127
130	3.109	2.923	2.726	2.529	2.332	1.949	1.844	2.134	2.923	29.267
135	3.306	3.016	2.726	2.529	2.332	2.042	2.239	2.239	3.016	24.499
140	3.306	3.109	2.923	2.622	2.436	2.239	2.529	2.332	3.109	21.495
145	3.399	3.213	2.923	2.622	2.436	2.819	2.622	2.529	3.213	19.059
150	3.306	3.109	3.016	2.726	3.016	3.213	2.819	2.819	3.503	17.412
155	3.213	3.109	3.016	3.306	3.503	3.306	3.109	3.109	3.990	15.753
160	3.213	3.596	3.886	3.886	3.700	3.399	3.399	3.399	4.373	14.001
165	4.176	4.280	4.280	3.990	3.793	3.700	3.700	3.700	4.860	12.157
170	4.570	4.373	4.176	4.083	4.083	3.990	4.083	4.176	5.440	10.405
175	4.176	4.083	4.083	4.083	4.083	4.176	4.176	4.176	5.545	8.271
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	4.211	4.211	4.211	4.211	4.211	4.211	4.211	4.211	4.211	4.211
5	7.006	10.602	14.883	19.546	24.116	28.582	32.677	36.656	40.159	43.372
10	17.412	28.397	39.672	50.564	61.260	71.270	81.490	90.434	98.797	106.674
15	29.661	47.166	64.948	82.557	99.377	115.710	131.857	147.216	161.020	174.151
20	42.004	65.540	90.144	114.550	138.168	161.124	184.069	205.946	225.782	244.644
25	53.778	83.624	114.643	145.174	176.680	207.408	236.280	265.164	291.415	316.309
30	65.250	101.024	138.956	176.285	215.772	252.810	288.991	324.962	357.825	388.356
35	74.774	117.752	162.098	205.749	253.008	296.960	340.135	384.563	422.298	458.954
40	90.236	133.214	183.779	233.856	288.109	338.871	388.751	436.984	483.940	526.826
45	95.004	148.967	203.418	259.712	320.392	377.371	432.019	488.128	539.852	589.732
50	103.170	161.901	221.119	282.669	349.276	400.026	472.178	534.018	590.997	645.934
55	110.270	173.084	236.570	304.929	372.708	438.144	504.948	573.887	635.054	694.562
60	116.197	180.368	252.033	322.236	393.611	463.234	533.820	606.262	671.512	734.524
65	121.162	187.758	260.200	335.762	400.710	485.112	558.424	631.748	699.422	764.950
70	124.758	193.407	268.076	343.337	410.234	499.310	574.571	649.728	718.968	787.710
75	125.338	197.293	273.621	350.146	424.537	508.451	584.675	662.859	732.482	797.430
80	126.985	199.532	276.544	353.742	435.325	512.534	589.060	667.035	736.658	801.131
85	127.670	202.548	277.321	354.426	435.615	512.534	588.085	663.149	731.890	797.720
90	129.421	201.956	275.570	351.990	423.272	508.161	582.448	655.957	723.434	787.907
95	128.157	199.532	272.159	349.462	410.536	497.559	572.425	643.997	709.723	772.444
100	125.628	195.448	268.760	341.690	403.529	485.599	558.227	627.467	690.768	751.344
105	122.716	188.245	258.842	331.772	398.089	470.531	540.247	606.947	667.522	725.383
110	118.819	182.120	249.794	317.283	389.331	454.186	518.949	582.738	640.007	695.339
115	114.156	174.731	239.006	303.085	371.536	432.900	494.056	554.248	610.160	660.620
120	101.616	165.590	226.652	286.949	351.213	400.803	466.146	524.297	575.244	622.305
125	92.765	151.392	206.724	263.320	324.672	381.942	435.325	487.838	535.282	580.406
130	76.815	130.198	184.556	234.529	288.886	340.715	386.999	445.533	493.476	535.189
135	63.208	109.678	160.242	207.211	253.100	299.489	344.891	387.974	436.589	482.873

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CANDELA TABULATION - (Cont.)

140	50.170	93.542	134.572	179.788	221.212	259.527	297.830	338.871	371.154	416.173
145	40.554	74.089	114.643	147.413	187.282	228.218	259.040	288.689	320.195	352.965
150	35.102	59.218	90.816	119.990	152.366	188.639	223.254	248.344	268.958	291.902
155	30.531	49.590	72.245	97.533	123.876	146.438	174.534	204.589	224.321	241.141
160	26.251	41.516	57.559	74.484	94.227	113.576	131.950	149.744	169.673	184.753
165	21.588	31.888	44.822	56.295	69.043	80.898	93.450	104.922	116.487	130.396
170	16.727	23.235	31.111	39.765	47.641	54.555	61.352	67.674	72.732	77.790
175	11.380	14.883	18.572	22.365	26.355	30.438	33.942	36.946	39.382	41.621
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

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	4.211	4.211	4.211	4.211	4.211	4.211	4.211
5	46.191	48.720	50.657	52.212	53.383	53.963	54.068
10	113.668	119.410	124.468	128.354	131.080	132.634	133.214
15	185.716	195.634	204.102	210.714	215.284	217.999	218.973
20	261.568	275.952	288.399	298.027	304.639	308.920	310.184
25	338.964	358.115	374.262	387.289	395.456	400.710	402.555
30	415.976	440.092	460.416	477.038	488.511	496.190	498.429
35	492.211	521.385	546.754	566.985	581.369	590.510	593.526
40	565.628	600.335	629.892	652.941	669.761	680.560	683.959
45	634.659	673.357	707.101	733.352	752.504	764.858	768.744
50	696.012	738.804	776.133	805.597	826.802	840.026	844.202
55	748.618	794.809	835.455	867.344	890.103	904.104	908.964
60	791.306	840.211	883.096	917.038	940.957	955.631	961.083
65	823.878	874.837	917.908	954.274	979.075	994.236	999.004
70	845.953	897.678	941.340	977.416	1002.507	1018.840	1023.897
75	856.451	910.124	953.880	989.770	1014.954	1030.996	1036.147
80	859.757	912.943	957.580	991.707	1016.601	1032.644	1037.318
85	857.136	907.503	950.968	984.898	1008.922	1024.674	1029.338
90	845.559	894.766	937.350	970.317	994.526	1009.212	1014.176
95	828.159	875.997	917.328	949.796	972.846	986.940	991.614
100	805.307	851.208	890.973	922.676	944.646	958.067	962.638
105	777.304	821.152	858.400	889.616	910.716	923.650	928.209
110	744.824	786.445	821.547	850.524	871.334	883.781	887.957
115	707.588	746.970	780.123	807.151	826.407	838.657	842.450
120	664.703	702.821	734.906	759.313	777.397	788.881	792.477
125	620.461	654.692	684.342	706.904	723.434	734.129	737.238
130	572.042	602.956	629.892	650.702	666.258	675.596	678.507
135	520.016	548.123	572.622	591.971	604.998	613.466	616.088
140	457.980	490.552	512.047	529.157	541.117	548.216	550.942
145	385.828	420.744	449.326	464.104	474.510	480.832	482.873
150	318.548	345.866	376.501	397.404	406.255	411.696	413.447
155	255.142	275.175	297.540	326.517	339.451	344.114	345.576
160	196.028	205.169	221.212	241.442	266.812	271.974	273.238
165	138.956	144.002	146.636	157.528	173.571	191.551	192.328
170	83.137	86.443	86.536	86.350	93.925	112.601	121.348
175	42.885	43.372	43.071	39.672	36.169	36.656	53.093
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	22.17	N.A.	0.80
0-30	79.31	N.A.	2.70
0-40	190.90	N.A.	6.50
0-60	606.28	N.A.	20.80
0-80	1221.35	N.A.	41.80
0-90	1555.95	N.A.	53.30
10-90	1553.59	N.A.	53.20
20-40	168.73	N.A.	5.80
20-50	344.64	N.A.	11.80
40-70	706.62	N.A.	24.20
60-80	615.07	N.A.	21.10
70-80	323.83	N.A.	11.10
80-90	334.61	N.A.	11.50
90-110	620.01	N.A.	21.20
90-120	873.10	N.A.	29.90
90-130	1073.22	N.A.	36.70
90-150	1302.96	N.A.	44.60
90-180	1365.18	N.A.	46.70
110-180	745.17	N.A.	25.50
0-180	2921.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.36
10-20	19.81
20-30	57.13
30-40	111.59
40-50	175.92
50-60	239.46
60-70	291.24
70-80	323.83
80-90	334.61
90-100	324.22
100-110	295.79
110-120	253.09
120-130	200.13
130-140	141.91
140-150	87.83
150-160	44.77
160-170	15.43
170-180	2.01

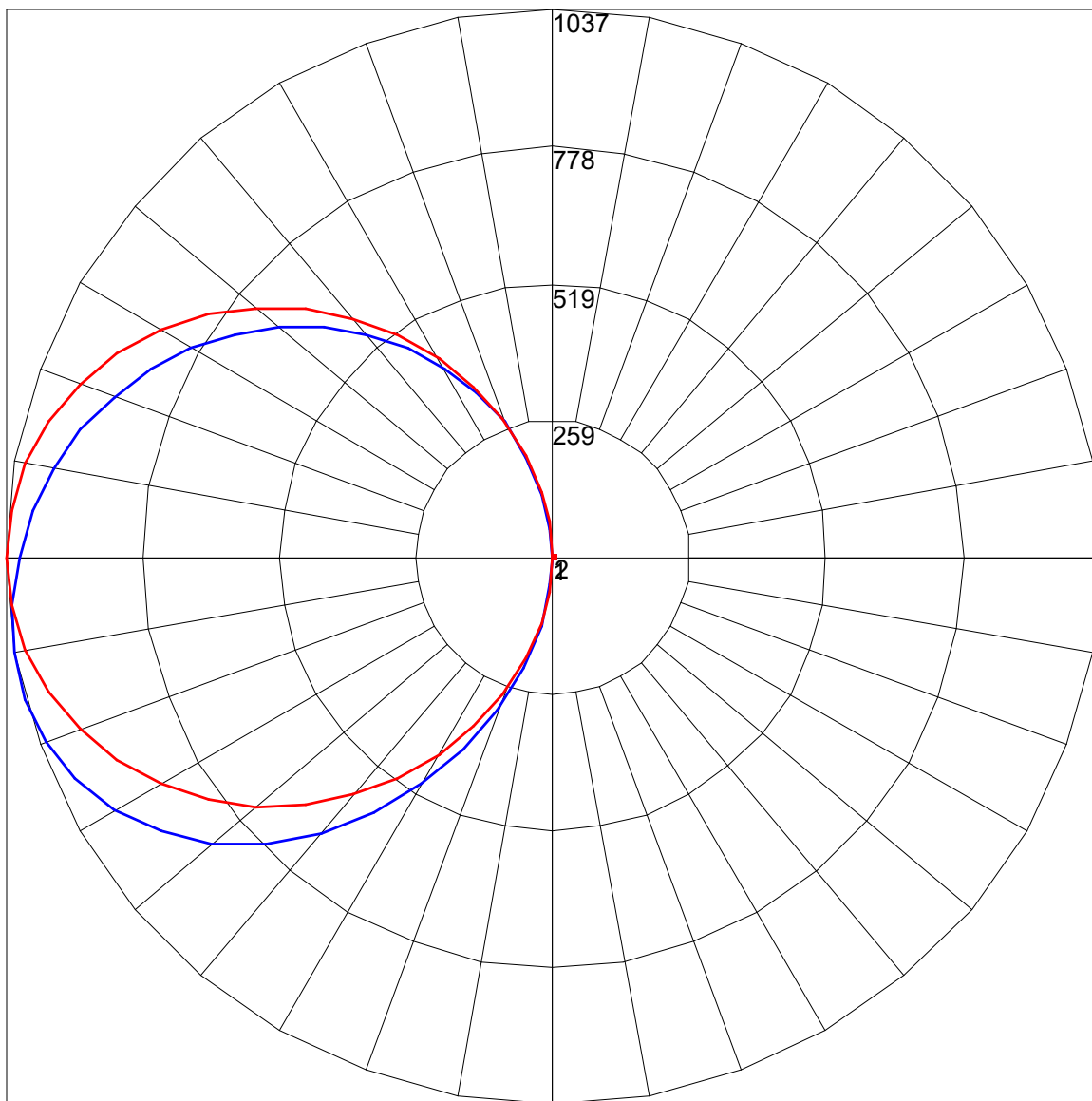
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	79	74	85	79	73	68	66	61	58	54	51	48	43	40	38	33
2	82	71	63	56	75	65	58	51	54	48	43	44	39	35	34	31	27	23
3	73	61	51	43	67	56	47	40	46	39	33	37	31	27	28	24	21	16
4	66	53	43	35	60	48	39	32	39	32	27	32	26	21	24	20	16	12
5	60	46	36	29	54	42	33	26	35	27	22	28	22	17	21	17	13	10
6	55	41	31	24	50	37	28	22	31	24	18	24	19	14	19	14	11	8
7	50	36	27	20	46	33	25	19	27	20	15	22	16	12	17	12	9	6
8	47	33	24	18	42	30	22	16	25	18	13	20	14	10	15	11	8	5
9	43	29	21	15	39	27	19	14	22	16	11	18	13	9	14	10	7	4
10	40	27	19	13	37	25	17	12	20	14	10	16	11	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 1037.318 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.)