

IES Report

ZipTwo® | 707 | Ceiling Cable | Square 3535, Single Side Diffuse | 80 CRI | SO
707-Z2-S-4-48-CC-XX-XX-XX-X-X-Z-SO-X-SA-WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	94	97	99	99
Total Lumens, 4' rail length (1219mm)	2440	2517	2568	2568
Lumens per foot (305mm)	610	629	642	642
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_SA_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011217 (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-SA-WH

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

[MORE] square 3535, 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	2568
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	26.11
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	0.11 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	81	470
55	0	82	292
65	0	86	183
75	0	92	94
85	0	96	76

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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	18.969	18.969	18.969	18.969	18.969	18.969	18.969	18.969	18.969	18.969
5	1.030	1.030	1.128	1.128	1.128	1.238	1.337	1.337	1.337	1.435
10	0.613	0.723	0.822	0.822	0.822	0.822	0.920	0.920	1.030	1.030
15	0.822	0.822	0.822	0.822	0.822	0.822	0.822	0.822	0.822	0.822
20	0.822	0.920	0.920	0.920	0.920	0.920	0.920	0.920	0.920	0.822
25	1.030	1.128	1.128	1.128	1.128	1.128	1.128	1.030	1.030	0.920
30	1.435	1.435	1.435	1.435	1.337	1.337	1.337	1.238	1.128	1.128
35	1.643	1.643	1.643	1.643	1.643	1.545	1.545	1.337	1.337	1.337
40	2.060	2.060	1.950	1.950	1.852	1.753	1.753	1.643	1.545	1.435
45	2.256	2.256	2.256	2.256	2.158	2.060	1.950	1.852	1.753	1.643
50	2.465	2.465	2.465	2.465	2.367	2.367	2.158	2.158	1.950	1.852
55	2.673	2.771	2.771	2.673	2.673	2.575	2.367	2.367	2.158	1.950
60	3.090	2.980	2.980	2.882	2.882	2.771	2.575	2.575	2.367	2.158
65	3.286	3.188	3.188	3.090	2.980	2.980	2.771	2.673	2.575	2.256
70	3.286	3.286	3.286	3.286	3.188	3.090	2.980	2.771	2.575	2.465
75	3.495	3.495	3.495	3.495	3.397	3.188	3.188	2.980	2.771	2.575
80	3.703	3.703	3.703	3.593	3.495	3.397	3.188	2.980	2.882	2.673
85	3.703	3.703	3.703	3.703	3.593	3.495	3.397	3.188	2.980	2.771
90	3.912	3.912	3.912	3.801	3.703	3.593	3.397	3.188	3.090	2.882
95	3.912	3.912	3.912	3.912	3.801	3.593	3.593	3.397	3.188	2.882
100	4.108	4.108	4.108	4.010	3.912	3.801	3.593	3.397	3.286	3.090
105	4.316	4.316	4.218	4.108	4.010	4.010	3.801	3.593	3.397	3.188
110	4.316	4.316	4.316	4.316	4.218	4.010	3.801	3.703	3.495	3.286
115	4.525	4.414	4.414	4.316	4.218	4.108	4.010	3.801	3.593	3.397
120	4.525	4.525	4.414	4.316	4.218	4.218	4.010	3.801	3.593	3.397
125	4.525	4.525	4.414	4.316	4.218	4.108	4.010	3.801	3.593	3.495
130	4.316	4.316	4.316	4.218	4.218	4.010	3.912	3.801	3.495	3.397
135	4.316	4.218	4.108	4.108	4.010	3.912	3.801	3.593	3.593	3.495
140	4.108	4.010	4.010	3.912	3.912	3.703	3.703	3.703	3.593	3.495
145	3.912	3.912	3.801	3.801	3.593	3.593	3.703	3.801	3.703	3.703
150	3.703	3.703	3.703	3.397	3.495	3.593	3.703	3.912	3.912	3.912
155	3.495	3.495	3.397	3.188	3.397	3.593	3.801	3.912	3.912	3.801
160	3.286	3.286	2.882	2.980	3.286	3.703	3.912	3.801	3.703	3.593
165	2.882	2.575	2.673	2.980	3.593	3.703	3.912	4.218	4.623	5.248
170	3.495	4.108	4.218	5.653	5.959	6.474	6.891	7.406	7.713	8.117
175	5.346	5.959	6.989	7.909	7.909	8.117	8.117	8.228	8.326	8.326
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	18.969	18.969	18.969	18.969	18.969	18.969	18.969	18.969	18.969	18.969
5	1.435	1.852	2.673	4.010	5.861	8.228	11.404	15.009	18.712	22.721
10	1.128	1.238	1.238	1.337	1.435	1.753	4.525	10.276	18.601	27.957
15	0.822	1.030	1.030	1.238	1.238	1.238	1.545	6.070	17.988	32.482
20	0.822	0.822	0.822	0.920	1.030	1.238	1.337	3.090	17.375	36.700
25	0.920	0.920	0.920	0.822	0.920	1.128	1.238	1.545	16.860	41.114
30	1.128	1.030	0.920	0.920	0.920	0.920	1.128	1.337	15.830	44.609
35	1.128	1.128	1.128	0.920	0.920	0.920	1.030	1.238	14.800	46.865
40	1.337	1.238	1.128	1.128	0.920	0.920	0.920	1.238	14.898	49.955
45	1.435	1.337	1.238	1.128	1.030	0.920	0.920	1.128	13.574	52.015
50	1.643	1.435	1.337	1.238	1.128	0.920	0.920	1.030	11.207	53.965
55	1.852	1.643	1.435	1.238	1.128	1.030	0.920	0.920	9.761	57.043
60	1.950	1.753	1.545	1.435	1.238	1.030	0.920	0.920	8.117	57.864

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CANDELA TABULATION - (Cont.)

65	2.060	1.852	1.643	1.435	1.238	1.128	0.920	0.920	6.781	58.379
70	2.256	2.060	1.852	1.545	1.337	1.238	1.030	0.920	5.248	58.686
75	2.256	2.060	1.852	1.643	1.435	1.238	1.030	0.920	3.703	58.379
80	2.465	2.158	1.852	1.643	1.435	1.238	1.030	0.920	4.108	56.013
85	2.465	2.256	1.950	1.643	1.435	1.238	1.030	0.920	3.090	54.885
90	2.575	2.256	2.060	1.753	1.435	1.238	1.128	0.920	2.060	53.450
95	2.673	2.465	2.060	1.852	1.643	1.435	1.238	1.030	1.545	53.659
100	2.882	2.465	2.256	1.852	1.643	1.435	1.238	1.128	1.545	52.015
105	2.882	2.673	2.367	2.060	1.852	1.545	1.337	1.238	1.753	49.440
110	3.090	2.771	2.465	2.060	1.852	1.643	1.545	1.435	2.158	44.192
115	3.090	2.771	2.575	2.256	1.950	1.852	1.643	1.643	2.575	34.640
120	3.188	2.980	2.575	2.367	2.158	1.852	1.753	2.158	2.980	26.927
125	3.188	2.980	2.673	2.465	2.256	2.060	1.950	2.673	3.397	21.790
130	3.188	2.980	2.771	2.575	2.367	2.256	2.367	3.188	3.703	18.295
135	3.286	3.188	2.980	2.673	2.465	2.367	2.980	3.593	4.010	15.524
140	3.495	3.397	3.090	2.882	2.575	2.771	3.703	4.010	4.414	13.255
145	3.703	3.397	3.188	2.882	2.771	3.593	4.218	4.316	4.623	10.901
150	3.703	3.495	3.286	3.286	3.801	5.040	4.929	5.040	5.444	10.692
155	3.703	3.495	3.801	4.414	5.444	5.751	5.653	5.861	6.266	10.582
160	3.912	4.414	5.346	6.266	6.474	6.266	6.376	6.585	6.989	9.871
165	6.070	6.891	7.296	7.198	6.989	6.989	7.198	7.406	7.602	8.939
170	8.228	8.117	7.909	7.811	7.909	7.909	8.117	8.326	8.534	9.049
175	8.228	8.228	8.326	8.424	8.534	8.743	8.939	8.939	9.147	9.246
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

	100	105	110	115	120	125	130	135	140	145
0	18.969	18.969	18.969	18.969	18.969	18.969	18.969	18.969	18.969	18.969
5	26.719	30.630	34.542	38.539	42.144	45.737	49.134	52.113	55.093	57.766
10	36.798	45.737	54.676	63.113	71.647	79.458	87.158	94.773	101.345	107.513
15	46.363	60.022	74.112	87.882	101.039	113.779	127.047	138.757	149.658	159.933
20	55.510	74.112	93.228	112.443	130.737	148.726	166.408	183.991	199.613	214.622
25	64.449	87.882	112.443	137.224	161.172	184.703	208.957	231.261	252.033	271.971
30	72.468	104.938	130.333	160.755	190.355	220.066	248.735	277.526	303.828	328.806
35	80.169	112.958	148.113	183.059	220.164	255.111	289.543	323.876	355.635	387.197
40	86.141	124.888	165.071	205.671	248.845	289.445	329.627	371.257	407.344	441.457
45	99.604	135.471	180.497	225.609	274.534	320.480	366.634	409.808	454.614	494.502
50	101.554	146.261	194.475	244.529	298.592	349.577	400.452	449.684	497.482	543.317
55	103.614	154.894	207.007	261.070	319.965	375.683	419.054	485.244	537.051	587.313
60	107.109	161.687	216.976	276.692	335.905	395.204	452.664	514.023	569.533	623.596
65	110.088	167.340	227.362	288.316	350.595	411.341	473.534	537.873	596.154	652.792
70	112.246	169.694	232.193	295.502	362.318	420.905	494.085	556.989	617.220	675.501
75	113.374	172.367	236.509	301.572	372.078	425.945	502.619	568.920	630.279	691.638
80	111.621	173.703	238.766	304.968	376.603	429.023	508.885	577.859	639.218	697.193
85	111.106	173.605	239.489	305.986	378.148	438.072	510.945	580.017	641.180	699.044
90	109.769	174.120	237.846	304.343	376.198	428.618	508.272	574.671	635.834	694.728
95	109.671	171.656	234.866	300.750	371.673	425.639	502.104	567.583	627.704	685.581
100	107.207	168.051	230.244	296.838	362.416	421.212	489.977	555.861	614.866	671.087
105	104.019	161.687	225.927	288.831	352.447	415.559	478.365	540.448	597.490	652.069
110	100.315	156.132	216.363	277.011	342.073	403.224	463.258	521.221	575.799	628.121
115	97.127	149.658	207.216	265.190	327.469	385.542	429.844	497.690	551.238	599.342
120	90.346	140.915	196.315	251.101	309.799	364.574	418.134	471.682	520.301	565.315
125	68.042	124.263	176.279	227.055	283.277	337.548	390.790	430.151	485.563	527.389
130	56.945	107.109	156.340	201.869	251.003	298.592	347.211	398.601	445.577	485.869
135	44.401	93.020	134.551	177.615	220.777	261.794	303.521	347.100	389.968	433.548

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

140	35.879	70.923	113.374	152.220	191.287	226.234	261.892	298.494	334.054	370.852
145	29.502	52.935	89.218	122.313	159.529	199.196	227.264	253.468	281.842	311.541
150	26.621	44.916	68.152	98.574	127.243	161.270	195.702	219.134	237.944	257.171
155	22.611	38.539	55.191	74.725	100.119	122.313	148.530	177.198	195.493	211.017
160	18.601	31.660	44.916	58.894	71.537	87.465	107.611	125.293	143.183	156.745
165	14.285	23.126	34.223	44.401	54.480	63.321	72.260	80.892	90.040	102.989
170	11.097	15.413	21.900	29.392	35.977	42.353	47.282	53.242	58.379	61.469
175	9.662	10.484	12.127	14.187	16.750	20.146	23.028	25.799	27.651	29.809
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	18.969	18.969	18.969	18.969	18.969	18.969	18.969
5	60.022	62.291	63.836	65.062	65.884	66.301	66.399
10	113.166	117.899	121.798	125.085	127.145	128.383	128.690
15	169.179	177.002	183.672	189.019	192.513	194.573	195.088
20	227.975	239.281	249.152	256.754	261.696	264.675	265.803
25	289.849	305.066	318.322	328.707	335.697	340.013	341.251
30	351.527	370.852	387.602	400.661	408.472	414.431	416.074
35	409.183	436.012	455.754	471.891	483.196	490.590	492.957
40	473.227	502.202	525.954	545.794	559.773	568.613	571.274
45	530.883	564.187	592.353	614.142	629.973	640.346	643.228
50	585.363	621.438	652.792	677.144	695.243	706.647	710.448
55	632.952	672.522	707.579	734.813	755.057	767.295	771.304
60	672.522	714.764	751.869	781.580	802.438	815.288	820.021
65	704.280	748.791	787.637	818.587	840.057	853.214	858.046
70	728.853	774.591	813.547	845.514	868.738	882.619	887.242
75	744.058	790.519	829.990	861.749	884.667	899.271	903.893
80	749.919	798.023	837.703	869.670	892.686	907.290	911.704
85	751.464	799.568	839.653	870.283	892.992	907.695	912.734
90	748.276	793.805	833.791	864.213	886.727	901.012	905.536
95	738.001	783.015	822.179	852.699	874.501	888.161	892.796
100	722.379	766.265	804.399	834.723	855.789	868.947	873.263
105	701.509	744.058	781.163	810.665	831.229	844.067	847.979
110	675.612	716.309	750.949	779.311	800.181	812.823	816.735
115	644.356	683.006	715.905	742.623	761.948	774.382	778.085
120	606.638	642.615	675.293	699.866	717.548	729.466	732.863
125	565.622	600.164	629.249	651.554	668.205	679.204	682.282
130	521.846	552.268	578.987	599.649	614.657	624.626	627.397
135	472.712	500.155	524.200	543.010	556.278	565.008	567.583
140	407.135	444.547	465.613	482.375	494.085	501.491	504.054
145	342.686	375.377	407.650	420.292	430.261	436.638	438.477
150	280.910	305.581	333.441	359.436	368.068	373.415	374.960
155	222.016	239.906	260.052	286.465	301.878	305.986	307.323
160	167.855	175.150	189.325	206.602	231.887	237.123	238.459
165	112.443	118.414	120.977	130.541	143.183	161.368	162.189
170	64.339	66.914	66.301	63.836	68.974	80.279	92.296
175	31.244	31.660	32.175	30.214	27.234	27.651	38.858
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	22.02	N.A.	0.90
0-30	72.31	N.A.	2.80
0-40	167.62	N.A.	6.50
0-60	521.27	N.A.	20.30
0-80	1052.55	N.A.	41.00
0-90	1345.76	N.A.	52.40
10-90	1342.67	N.A.	52.30
20-40	145.60	N.A.	5.70
20-50	295.10	N.A.	11.50
40-70	604.00	N.A.	23.50
60-80	531.29	N.A.	20.70
70-80	280.94	N.A.	10.90
80-90	293.21	N.A.	11.40
90-110	553.21	N.A.	21.50
90-120	782.26	N.A.	30.50
90-130	963.36	N.A.	37.50
90-150	1169.06	N.A.	45.50
90-180	1222.71	N.A.	47.60
110-180	669.50	N.A.	26.10
0-180	2568.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3.10
10-20	18.92
20-30	50.29
30-40	95.31
40-50	149.50
50-60	204.16
60-70	250.35
70-80	280.94
80-90	293.21
90-100	287.55
100-110	265.66
110-120	229.06
120-130	181.10
130-140	127.70
140-150	77.99
150-160	39.03
160-170	12.92
170-180	1.69

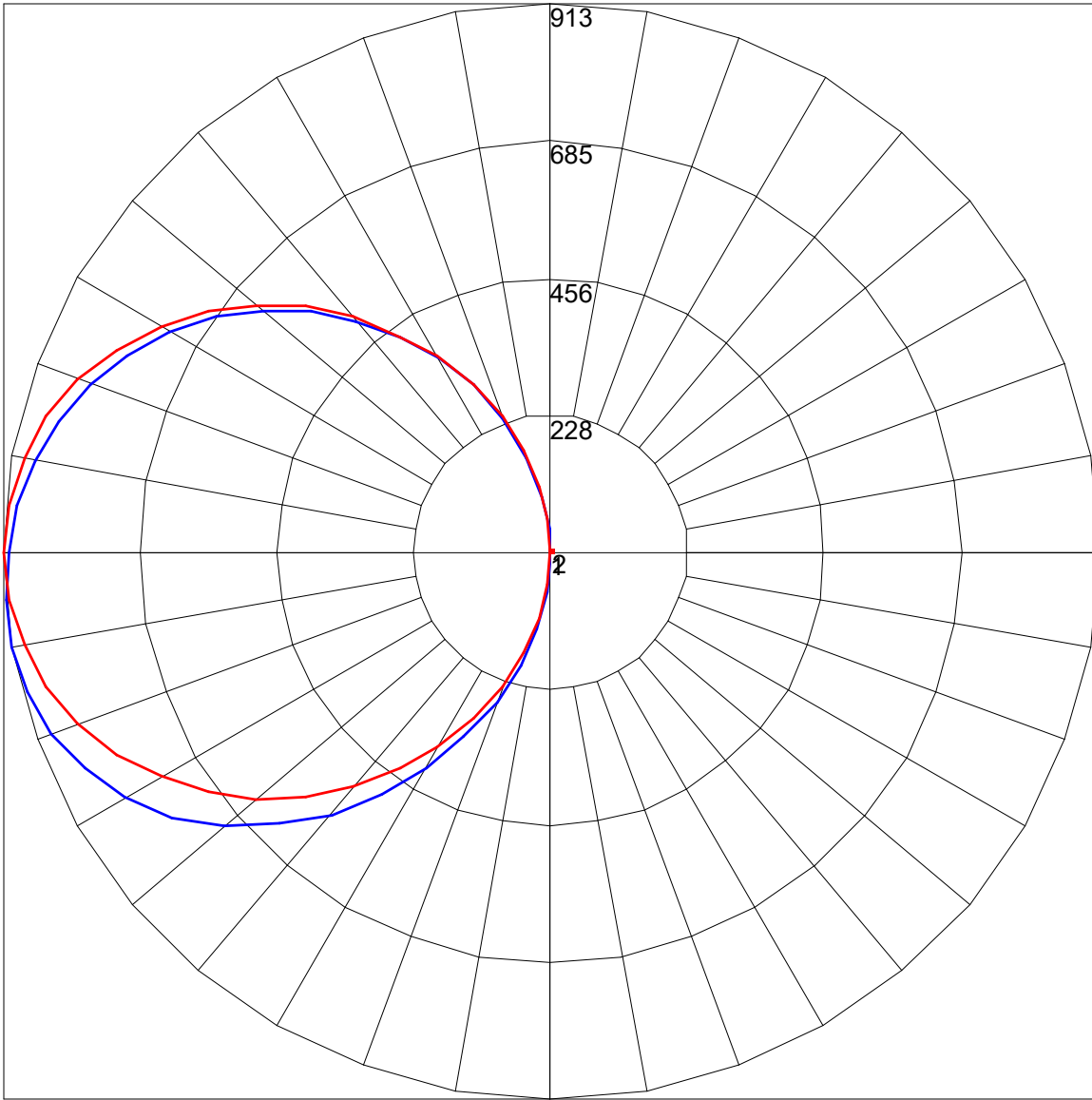
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	71	71	71	58	58	58	52
1	92	86	79	74	85	79	73	68	65	61	57	53	50	47	42	40	37	32
2	82	71	63	56	74	65	58	51	54	48	43	43	39	35	34	30	27	22
3	73	61	51	44	66	56	47	40	46	39	33	36	31	27	28	24	21	16
4	66	53	43	35	60	48	39	32	39	32	27	31	26	21	24	20	16	12
5	60	46	36	29	54	42	33	27	34	27	22	27	22	17	21	16	13	9
6	55	41	31	24	50	37	29	22	31	24	18	24	19	14	18	14	11	8
7	50	36	27	21	46	33	25	19	27	20	16	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	12	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 = 912.734 Located At Horizontal Angle = 180, Vertical Angle = 85
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (85) (Through Max. Cd.)