

IES Report

ZipTwo® | 707 | Square 3519, Single Side Diffuse | 80 CRI | SO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	44	45	46	46
Total Lumens, 4' rail length (1219mm)	1131	1166	1190	1190
Lumens per foot (305mm)	283	292	298	298
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_FA_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011214 (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-FA-WH

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

[MORE] square 3519, 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	1190
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	26.03
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	6.171	6.171	6.171	6.171	6.171	6.171	6.171	6.171	6.171	6.171
5	0.974	0.974	0.974	0.974	0.974	1.067	1.067	1.172	1.172	1.172
10	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.974
15	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.777
20	0.394	0.394	0.487	0.487	0.487	0.487	0.487	0.487	0.580	0.580
25	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.487	0.487	0.487
30	0.777	0.777	0.777	0.684	0.684	0.684	0.684	0.580	0.580	0.580
35	0.777	0.777	0.777	0.777	0.777	0.777	0.777	0.684	0.684	0.684
40	0.974	0.974	0.974	0.974	0.974	0.870	0.870	0.870	0.777	0.684
45	1.172	1.172	1.172	1.067	1.067	1.067	0.974	0.870	0.870	0.870
50	1.357	1.264	1.264	1.172	1.172	1.172	1.067	1.067	0.974	0.870
55	1.357	1.357	1.357	1.357	1.357	1.264	1.264	1.067	1.067	0.974
60	1.554	1.554	1.554	1.462	1.462	1.357	1.264	1.264	1.067	1.067
65	1.554	1.554	1.554	1.554	1.554	1.462	1.357	1.264	1.264	1.067
70	1.752	1.752	1.659	1.659	1.554	1.554	1.462	1.357	1.264	1.264
75	1.752	1.752	1.752	1.752	1.659	1.659	1.554	1.462	1.264	1.264
80	1.949	1.844	1.844	1.752	1.752	1.659	1.659	1.462	1.462	1.264
85	1.949	1.949	1.949	1.844	1.752	1.752	1.659	1.462	1.462	1.264
90	1.949	1.949	1.949	1.949	1.844	1.752	1.659	1.659	1.462	1.357
95	1.949	1.949	2.042	2.042	1.949	1.844	1.844	1.659	1.554	1.462
100	2.332	2.332	2.239	2.239	2.239	2.134	2.134	1.949	1.844	1.659
105	2.529	2.529	2.436	2.436	2.529	2.436	2.332	2.134	1.949	1.949
110	2.726	2.726	2.622	2.622	2.622	2.529	2.436	2.332	2.239	2.042
115	3.109	3.016	2.819	2.923	2.923	2.819	2.726	2.529	2.436	2.332
120	3.306	3.213	3.109	3.109	3.016	3.016	2.923	2.622	2.622	2.529
125	3.503	3.399	3.306	3.213	3.213	3.109	3.109	2.819	2.819	2.726
130	3.503	3.503	3.399	3.306	3.306	3.306	3.306	3.016	2.726	2.726
135	3.503	3.700	3.503	3.399	3.503	3.503	3.213	2.923	2.923	2.923
140	3.700	3.700	3.700	3.596	3.700	3.306	3.306	3.016	3.109	3.109
145	3.886	3.886	3.886	3.793	3.306	3.503	3.399	3.213	3.213	3.399
150	3.886	3.990	4.083	3.596	3.596	3.596	3.596	3.503	3.700	3.793
155	4.083	4.083	3.990	3.700	3.700	3.700	4.083	3.990	3.886	3.793
160	4.083	4.083	3.596	3.793	3.793	4.280	4.280	3.793	3.886	3.793
165	3.886	3.399	3.399	3.700	4.373	4.478	4.280	3.990	3.886	3.886
170	3.886	3.306	3.399	4.176	4.280	4.373	4.280	4.176	4.176	4.373
175	2.726	3.700	4.478	5.058	5.255	5.348	5.545	5.545	6.125	6.612
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	6.171	6.171	6.171	6.171	6.171	6.171	6.171	6.171	6.171	6.171
5	1.357	1.462	1.659	1.844	2.239	2.726	3.596	4.570	5.742	7.192
10	0.974	0.974	0.974	1.172	1.172	1.462	2.042	3.306	5.638	8.851
15	0.777	0.777	0.870	0.974	0.974	1.172	1.357	2.332	5.638	10.602
20	0.580	0.684	0.777	0.777	0.870	0.974	1.172	1.752	5.348	12.447
25	0.487	0.580	0.580	0.684	0.777	0.870	0.974	1.357	5.255	14.094
30	0.487	0.487	0.487	0.580	0.684	0.777	0.870	1.172	4.965	15.660
35	0.580	0.580	0.487	0.487	0.580	0.684	0.777	0.974	4.860	17.110
40	0.684	0.684	0.580	0.487	0.487	0.580	0.777	0.870	4.570	18.479
45	0.684	0.684	0.684	0.580	0.487	0.580	0.684	0.777	4.280	19.743
50	0.870	0.684	0.684	0.684	0.487	0.487	0.580	0.777	3.793	21.298
55	0.870	0.870	0.684	0.684	0.487	0.487	0.580	0.684	3.503	21.680
60	0.870	0.870	0.684	0.684	0.684	0.487	0.487	0.580	3.016	22.562

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CANDELA TABULATION - (Cont.)

65	1.067	0.870	0.870	0.684	0.684	0.487	0.487	0.580	2.622	23.235
70	1.067	0.974	0.870	0.684	0.684	0.487	0.487	0.487	2.726	23.629
75	1.067	1.067	0.870	0.777	0.684	0.684	0.487	0.487	2.239	23.919
80	1.172	1.067	0.870	0.777	0.684	0.684	0.487	0.487	1.357	23.919
85	1.264	1.067	0.974	0.870	0.684	0.684	0.487	0.487	0.974	24.604
90	1.264	1.067	0.974	0.870	0.684	0.684	0.487	0.487	0.487	24.209
95	1.264	1.172	1.067	0.974	0.777	0.684	0.684	0.487	0.580	24.024
100	1.554	1.357	1.264	1.067	0.974	0.777	0.684	0.684	0.974	24.116
105	1.752	1.554	1.462	1.264	1.067	0.974	0.870	0.870	1.462	21.100
110	2.042	1.844	1.659	1.462	1.357	1.264	1.264	1.264	2.134	18.572
115	2.239	2.042	1.949	1.844	1.752	1.752	1.844	1.659	2.923	16.333
120	2.436	2.436	2.332	2.239	2.239	2.239	2.134	2.134	3.700	14.198
125	2.529	2.436	2.436	2.436	2.436	2.436	2.436	2.529	4.176	12.052
130	2.622	2.726	2.622	2.622	2.622	2.622	2.529	2.819	4.663	11.182
135	2.923	2.923	2.819	2.819	2.819	2.819	2.726	3.109	4.965	10.405
140	3.109	3.213	3.016	2.923	2.923	2.819	2.923	3.700	5.348	9.721
145	3.596	3.306	3.213	3.109	3.016	3.016	3.306	4.280	5.742	8.851
150	3.700	3.596	3.503	3.306	3.399	3.503	3.886	5.440	6.705	9.141
155	3.793	3.700	3.700	3.596	3.503	3.886	4.965	6.612	7.586	9.431
160	3.793	3.793	3.700	3.793	3.990	4.570	6.032	7.482	8.271	9.535
165	3.793	3.886	3.990	4.280	4.860	5.928	7.296	8.271	8.944	9.535
170	4.478	4.663	5.150	5.835	6.705	7.679	8.561	9.234	9.628	9.918
175	6.902	7.389	7.876	8.456	8.944	9.431	9.825	10.115	10.312	10.602
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	6.171	6.171	6.171	6.171	6.171	6.171	6.171	6.171	6.171	6.171
5	8.561	10.011	11.577	12.934	14.396	15.660	17.214	18.374	19.453	20.416
10	12.250	15.556	18.966	21.878	24.986	27.910	31.111	33.744	36.169	38.315
15	15.846	21.008	25.961	30.728	35.682	41.029	45.507	49.984	53.963	57.466
20	19.453	26.251	33.060	39.579	46.574	52.989	60.680	66.897	72.639	77.882
25	22.655	31.308	40.159	48.720	57.861	68.069	76.525	84.796	92.278	99.470
30	26.158	36.563	47.351	58.046	69.426	81.966	92.765	103.263	112.891	122.322
35	29.371	41.621	54.555	67.477	81.188	94.122	109.585	122.426	134.282	146.044
40	32.480	46.678	61.747	76.920	92.962	108.228	126.985	141.961	156.159	170.068
45	35.496	51.434	68.742	85.956	104.632	122.322	144.002	161.611	178.234	194.671
50	38.118	56.005	75.354	94.714	115.907	135.836	160.730	180.856	200.112	219.263
55	40.554	60.285	81.386	102.973	127.287	153.050	176.680	199.137	220.818	242.707
60	42.398	64.276	87.418	113.866	140.511	165.787	190.971	216.839	241.628	264.677
65	44.242	67.674	92.475	117.949	149.454	177.167	204.485	232.487	259.620	285.000
70	45.704	70.493	98.113	123.389	152.853	186.400	215.377	246.013	274.201	301.136
75	46.864	72.825	100.247	128.250	159.175	188.732	224.611	256.998	286.555	314.847
80	48.616	75.458	102.973	132.043	169.000	200.204	231.907	264.283	295.603	324.962
85	49.103	76.618	104.632	134.572	167.249	198.557	236.570	269.445	300.463	331.192
90	49.103	77.012	105.409	136.520	167.539	203.510	238.322	271.486	302.795	333.326
95	49.103	76.038	106.279	136.613	167.632	204.972	237.359	271.486	302.215	332.746
100	49.010	75.841	104.818	135.743	166.472	204.288	237.255	268.853	299.199	328.953
105	48.813	75.064	103.658	132.820	164.813	200.796	232.000	263.506	292.970	322.828
110	46.968	73.996	101.512	130.001	160.927	189.996	225.690	256.998	285.198	311.831
115	42.398	72.929	99.864	126.115	155.672	184.753	217.326	246.976	273.528	298.909
120	36.366	68.939	95.004	121.255	149.350	180.960	207.698	234.726	260.501	283.933
125	31.993	58.151	85.759	110.072	136.613	162.574	194.474	220.435	244.261	265.849
130	27.620	47.456	75.261	98.403	122.229	149.350	173.176	198.557	223.938	245.526
135	23.536	41.621	59.705	86.246	108.031	128.064	152.760	174.151	195.448	217.906

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CANDELA TABULATION - (Cont.)

140	20.323	34.812	49.207	67.779	93.345	112.207	132.924	151.102	168.803	187.178
145	17.794	27.910	41.331	53.673	71.758	96.071	112.601	129.816	143.330	158.201
150	16.924	25.381	34.324	46.377	57.466	69.820	92.661	109.980	120.965	130.396
155	15.463	23.142	30.531	37.723	48.128	57.559	67.872	80.226	92.661	102.776
160	13.908	20.126	26.448	32.677	38.210	44.335	51.249	58.638	68.939	73.312
165	12.157	16.437	21.878	26.448	30.821	35.682	38.802	44.822	48.523	53.186
170	10.985	13.317	16.240	19.929	23.235	26.158	28.687	31.888	34.324	36.656
175	10.695	11.090	12.052	13.224	14.686	16.240	17.702	19.743	20.810	21.680
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	6.171	6.171	6.171	6.171	6.171	6.171	6.171
5	21.100	21.878	22.458	22.945	23.235	23.432	23.339
10	40.252	41.806	43.268	44.440	45.112	45.600	45.704
15	60.575	63.498	65.830	67.674	69.043	69.716	70.006
20	82.557	86.733	90.144	92.858	94.714	95.967	96.268
25	105.885	111.337	116.000	119.700	122.322	123.981	124.468
30	130.488	137.495	143.515	148.387	151.693	153.920	154.605
35	156.066	164.813	172.306	178.431	182.712	185.426	186.505
40	182.514	193.117	202.153	209.740	215.180	218.590	219.368
45	209.345	222.082	232.882	241.918	248.634	252.428	253.982
50	235.898	250.769	263.610	274.305	281.984	286.845	288.399
55	261.661	278.876	293.457	305.811	314.754	320.392	322.434
60	286.555	305.811	322.526	336.632	346.457	353.069	354.914
65	309.012	330.217	348.684	363.950	375.040	382.232	384.668
70	327.004	349.763	369.298	385.642	396.233	403.622	405.664
75	341.110	365.702	386.709	401.580	413.934	421.904	424.142
80	352.965	377.278	397.404	414.224	426.671	434.942	437.366
85	359.287	383.983	404.214	421.416	433.968	441.740	443.978
90	361.816	386.222	406.151	423.562	435.812	443.491	446.310
95	360.551	384.958	404.596	421.614	434.060	441.450	444.176
100	356.375	380.190	398.669	415.582	427.936	435.325	437.761
105	348.592	371.444	388.751	405.861	417.438	424.920	427.066
110	337.119	359.090	377.766	390.015	402.752	409.758	411.696
115	321.854	343.151	361.236	375.330	385.735	391.175	393.414
120	306.101	325.357	341.980	355.204	364.727	370.956	372.801
125	286.160	303.665	318.930	330.704	339.544	345.286	346.933
130	263.900	279.548	293.364	304.059	312.028	317.179	318.548
135	239.876	253.982	266.232	275.662	282.669	287.135	288.399
140	206.631	226.177	237.649	245.816	252.033	255.826	256.894
145	173.571	189.614	207.304	214.994	220.238	223.451	224.425
150	142.448	154.698	168.513	183.094	187.758	190.391	191.168
155	111.140	120.675	131.080	143.330	154.025	156.449	157.134
160	76.525	79.541	86.838	95.874	108.518	114.550	115.130
165	56.782	59.125	59.601	63.301	68.939	80.121	80.898
170	37.828	38.605	37.538	35.009	36.656	42.294	48.418
175	22.168	22.365	22.272	20.810	18.479	18.084	23.339
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	7.91	N.A.	0.70
0-30	26.33	N.A.	2.20
0-40	62.29	N.A.	5.20
0-60	205.33	N.A.	17.30
0-80	442.86	N.A.	37.20
0-90	581.47	N.A.	48.90
10-90	580.37	N.A.	48.80
20-40	54.38	N.A.	4.60
20-50	113.04	N.A.	9.50
40-70	252.36	N.A.	21.20
60-80	237.53	N.A.	20.00
70-80	128.21	N.A.	10.80
80-90	138.61	N.A.	11.60
90-110	270.04	N.A.	22.70
90-120	384.40	N.A.	32.30
90-130	475.84	N.A.	40.00
90-150	580.47	N.A.	48.80
90-180	608.54	N.A.	51.10
110-180	338.50	N.A.	28.40
0-180	1190.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.10
10-20	6.82
20-30	18.41
30-40	35.97
40-50	58.66
50-60	84.37
60-70	109.32
70-80	128.21
80-90	138.61
90-100	139.23
100-110	130.81
110-120	114.36
120-130	91.44
130-140	64.78
140-150	39.85
150-160	19.92
160-170	6.97
170-180	1.17

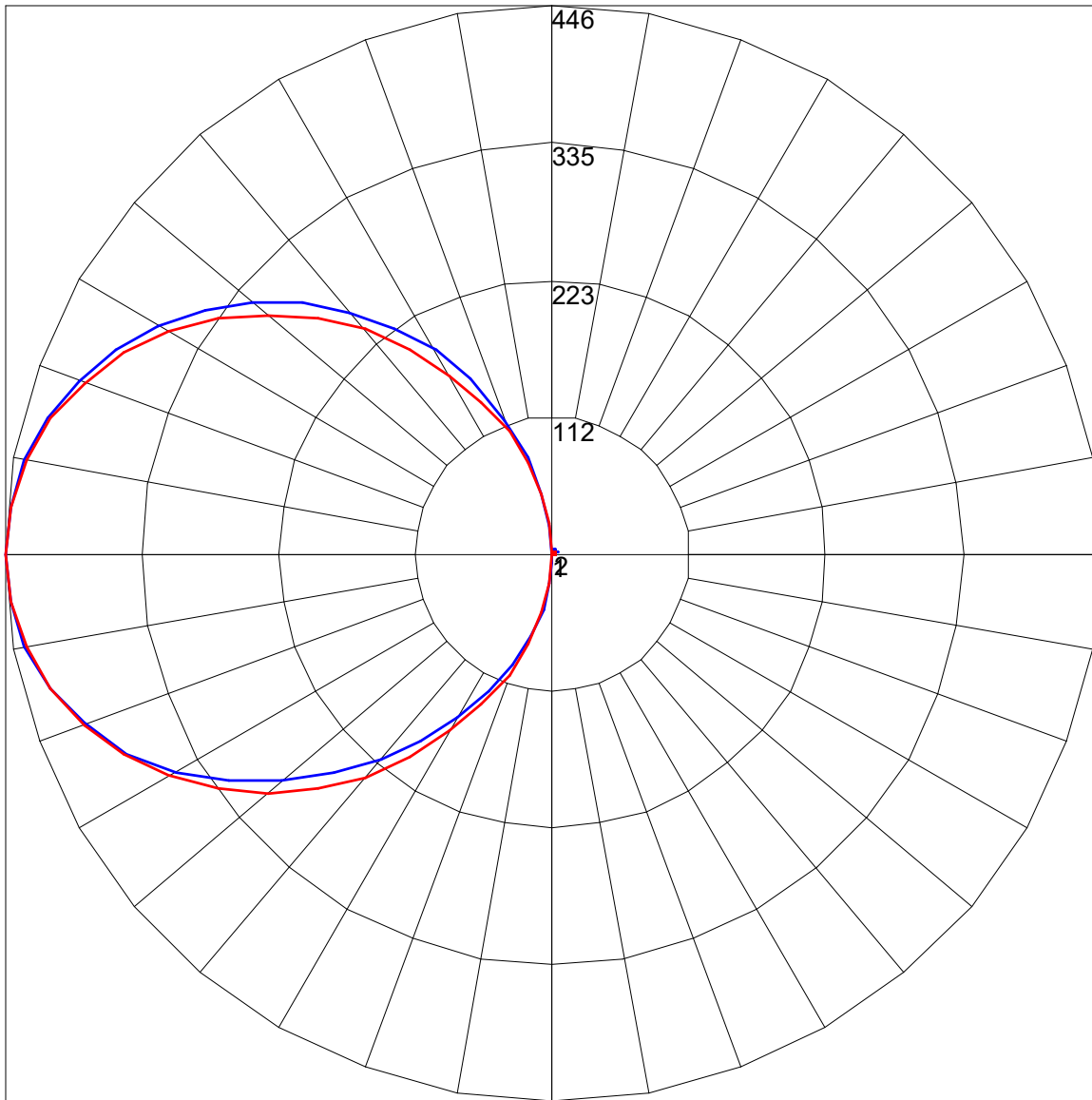
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	92	85	78	73	83	77	72	67	64	59	55	51	48	45	39	37	35	29
2	81	71	62	55	73	64	57	50	52	46	41	41	37	33	31	28	25	20
3	72	60	51	43	65	55	46	39	44	38	32	35	30	25	26	22	19	14
4	65	52	42	35	59	47	38	32	38	31	26	30	24	20	22	18	14	10
5	60	46	36	29	54	41	33	26	33	26	21	26	21	16	19	15	12	8
6	54	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	10	6
7	50	36	27	20	45	33	24	19	27	20	15	21	15	11	15	11	8	5
8	46	32	24	18	42	29	22	16	24	17	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	8	13	9	6	3
10	40	27	19	13	36	24	17	12	20	14	10	16	11	7	12	8	5	3

POLAR GRAPH



Maximum Candela = 446.31 Located At Horizontal Angle = 180, Vertical Angle = 90
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)