

IES Report

ZipTwo® | 707 | Square 3519, Side Diffuse | 80 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-35-F9-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	58	59	61	61
Total Lumens, 4' rail length (1219mm)	2255	2326	2373	2373
Lumens per foot (305mm)	564	581	593	593
Input Power (W), 4' rail length (1219mm)	39.6	39.6	39.6	39.6
Watts per foot (305mm)	9.9	9.9	9.9	9.9
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_HO_35_F9_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011213 (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-HO-35-F9-BL

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

[MORE] square 3519, side diffuse black lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2373
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	39.55
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	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.05 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6134	4160	346
55	8589	5754	347
65	11630	7886	342
75	15352	10936	369
85	20832	16342	637

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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	17.087	17.087	17.087	17.087	17.087	17.087	17.087	17.087	17.087	17.087
5	33.251	33.251	32.956	32.677	32.242	31.651	30.920	30.050	29.180	27.997
10	56.306	56.011	55.576	54.845	53.679	52.513	50.756	48.859	46.528	44.196
15	81.380	81.101	80.214	78.909	76.873	74.385	71.618	68.260	64.328	60.378
20	109.394	108.959	107.793	105.740	102.677	98.884	94.517	89.401	83.729	77.882
25	141.184	140.453	138.556	135.650	131.422	126.011	119.886	112.595	104.731	96.553
30	175.322	174.592	172.103	168.171	162.620	155.626	147.743	138.121	127.629	116.684
35	211.497	210.470	207.408	202.588	195.437	186.702	176.488	164.674	151.693	137.982
40	249.707	248.385	244.592	238.328	229.576	218.788	206.381	191.939	176.192	159.715
45	289.675	287.918	283.255	275.807	264.724	251.743	236.866	219.797	200.987	181.743
50	329.347	327.590	321.761	312.852	299.872	284.716	267.055	246.784	224.912	202.884
55	368.132	365.661	359.380	348.731	333.854	316.349	296.078	272.902	248.246	223.016
60	402.845	400.513	393.362	381.704	364.634	345.233	322.631	296.966	269.248	241.390
65	432.599	429.693	421.811	408.535	390.891	369.889	345.390	317.533	287.326	257.572
70	453.896	451.130	442.673	429.241	411.023	388.699	363.034	334.741	302.064	270.274
75	466.738	463.675	455.497	442.082	423.412	400.948	374.987	345.825	313.444	279.601
80	471.992	469.365	461.187	448.067	430.128	407.369	380.538	351.219	319.568	286.317
85	472.567	469.939	461.779	449.077	431.729	409.126	383.740	353.846	322.492	289.223
90	469.643	467.033	459.447	446.606	429.536	407.665	382.435	353.116	321.169	288.353
95	464.980	462.509	454.923	442.813	425.604	403.871	379.216	350.349	318.838	286.317
100	458.281	455.793	448.207	436.392	419.323	397.886	373.526	345.233	314.174	282.367
105	447.772	445.440	437.993	426.335	409.561	388.855	364.930	337.212	307.023	276.242
110	432.895	430.424	423.412	412.032	395.711	375.718	352.524	325.832	296.809	267.212
115	413.354	411.023	404.167	393.362	377.476	358.945	336.916	311.843	284.264	256.128
120	389.429	387.237	380.834	370.324	355.882	338.378	318.107	294.478	269.108	242.695
125	361.137	359.240	353.411	343.772	330.652	314.905	296.513	275.668	251.447	227.087
130	330.513	328.460	323.362	314.905	303.230	288.944	272.310	253.640	230.741	204.050
135	297.540	296.078	291.276	283.985	273.615	261.087	245.914	223.886	199.822	175.757
140	262.827	261.365	257.433	250.577	241.094	229.280	208.435	188.442	169.772	151.989
145	224.321	223.155	219.797	214.264	206.538	189.312	173.426	158.688	143.811	129.369
150	190.199	189.034	186.406	181.882	169.041	154.756	142.071	130.100	120.478	110.560
155	155.486	154.599	152.128	143.237	131.266	120.773	112.021	106.471	99.615	89.854
160	119.312	118.581	114.649	103.408	96.118	89.854	86.791	81.832	73.950	66.503
165	79.640	78.770	71.914	68.556	64.606	64.171	60.830	55.871	51.347	47.833
170	51.626	47.258	44.631	43.326	45.223	44.770	43.604	42.160	40.542	38.802
175	31.216	27.422	28.292	30.346	30.485	30.050	29.458	29.180	28.449	27.562
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	17.087	17.087	17.087	17.087	17.087	17.087	17.087	17.087	17.087	17.087
5	26.987	25.665	24.360	22.898	21.593	20.132	18.670	17.504	16.339	15.608
10	41.569	38.645	35.583	32.242	29.023	25.665	22.324	18.966	16.182	14.877
15	56.150	51.487	46.963	41.864	36.610	31.216	25.961	20.706	16.043	14.581
20	71.462	64.467	57.751	50.912	44.057	36.610	29.319	22.168	15.469	15.016
25	87.957	78.474	69.426	59.943	50.912	41.864	32.816	23.490	15.016	15.608
30	105.305	93.055	81.380	69.861	58.046	46.823	35.879	24.795	14.442	16.774
35	123.401	108.367	93.786	79.483	65.059	51.487	38.802	25.961	13.711	17.939
40	142.210	124.114	106.627	89.262	72.193	56.011	41.273	26.987	12.841	18.966
45	161.611	140.018	119.608	98.745	79.344	60.535	43.761	27.857	11.954	19.975
50	179.846	155.051	131.996	108.367	86.060	64.763	45.797	28.449	10.945	21.002
55	197.194	170.207	143.672	117.415	92.759	68.852	47.693	28.588	9.779	21.733
60	212.802	183.344	154.025	125.437	98.745	72.784	49.451	28.727	8.456	22.168

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CANDELA TABULATION - (Cont.)

65	226.652	194.723	163.212	132.431	104.000	75.986	50.756	28.588	7.151	22.463
70	237.893	204.050	170.798	138.417	108.228	78.770	52.217	27.718	5.986	22.603
75	245.914	211.045	176.488	142.784	111.430	80.806	52.217	27.283	4.820	22.603
80	251.169	215.725	180.281	145.708	113.483	81.971	52.652	26.692	4.228	22.463
85	252.770	218.057	182.456	147.465	114.788	83.729	52.948	26.396	3.062	22.898
90	253.066	218.353	182.752	147.604	114.788	83.572	53.679	26.831	1.897	22.759
95	251.447	217.326	182.021	147.169	114.492	83.433	53.383	26.692	2.192	23.490
100	248.385	213.533	179.986	146.734	113.483	82.841	53.244	24.499	2.627	24.499
105	242.991	209.305	176.488	144.107	112.752	80.806	49.451	21.593	3.358	23.925
110	236.292	203.023	171.529	140.314	108.959	76.142	47.833	19.401	4.089	20.863
115	226.948	196.028	165.109	134.189	102.834	73.950	45.223	17.939	5.255	18.670
120	215.273	186.406	156.948	125.576	98.153	68.852	40.107	16.634	6.125	16.774
125	201.579	171.825	141.184	113.918	87.661	60.830	35.583	15.469	6.995	15.312
130	177.358	150.232	125.732	101.077	77.152	53.383	31.216	14.442	8.021	15.016
135	153.729	132.588	110.560	88.235	67.234	46.388	26.987	14.007	8.891	15.016
140	133.597	114.788	95.543	75.986	57.316	39.098	24.795	13.711	9.622	15.173
145	115.814	100.346	80.371	63.005	47.833	32.677	22.759	13.276	10.353	15.173
150	98.449	82.267	67.234	53.522	39.968	32.242	22.324	14.007	12.250	16.339
155	77.012	65.633	55.576	44.057	37.480	30.189	21.593	15.312	14.442	17.800
160	59.212	49.729	43.900	39.237	33.843	27.127	20.271	16.339	16.043	18.670
165	44.927	41.864	38.210	33.843	29.023	23.925	19.401	17.644	17.504	19.401
170	36.749	34.278	31.355	28.292	24.656	21.437	19.697	19.401	19.540	20.567
175	26.117	24.795	23.194	21.733	21.141	20.706	20.567	20.706	21.002	21.437
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	17.087	17.087	17.087	17.087	17.087	17.087	17.087	17.087	17.087	17.087
5	15.173	15.016	15.173	15.608	16.339	17.365	18.374	19.262	20.271	21.141
10	15.312	17.365	20.271	23.194	26.396	29.023	31.355	33.843	36.035	37.915
15	17.504	22.324	27.127	31.651	36.314	40.403	44.492	48.424	51.922	55.280
20	20.428	27.422	33.686	39.968	46.388	52.217	58.046	63.893	68.852	73.654
25	23.629	32.086	40.264	48.285	56.881	64.467	72.349	79.936	86.930	93.351
30	26.692	36.610	46.823	56.741	67.234	77.447	87.070	96.709	105.896	114.057
35	29.458	41.134	53.244	65.198	78.317	90.289	102.242	114.196	125.141	135.929
40	31.790	45.501	59.647	73.654	89.123	103.408	117.554	131.996	145.412	158.114
45	34.278	49.590	65.789	82.111	99.772	116.545	133.162	150.092	166.274	181.012
50	36.610	53.818	71.914	90.289	110.420	129.369	148.474	168.032	186.702	203.911
55	38.645	57.611	77.587	98.014	120.182	141.775	163.212	185.240	206.538	226.217
60	40.403	60.830	82.702	104.870	129.369	152.998	176.627	201.579	224.617	246.645
65	41.864	63.736	87.226	111.134	137.547	162.916	188.599	215.864	241.094	265.159
70	43.030	66.224	91.159	116.389	144.542	171.668	198.952	227.818	254.806	280.471
75	44.057	68.121	93.925	120.773	150.092	178.385	206.973	236.431	265.315	292.146
80	45.362	70.453	96.413	123.836	154.164	183.187	212.663	243.148	271.718	300.028
85	45.658	71.183	97.718	125.732	156.652	186.406	216.299	246.923	275.807	304.256
90	45.953	71.618	99.319	127.768	157.087	186.841	216.891	248.246	276.973	305.266
95	46.388	71.618	99.180	128.360	157.522	186.980	216.734	248.107	276.242	304.256
100	47.398	72.193	99.319	127.333	156.948	186.980	216.299	245.914	273.772	301.037
105	47.833	72.053	98.884	126.011	155.921	184.353	212.802	241.686	268.656	295.069
110	47.119	71.618	97.718	123.975	152.859	180.421	207.704	235.405	262.392	286.891
115	45.362	70.592	95.543	120.773	148.474	174.592	200.552	227.818	252.474	275.668
120	38.367	67.669	92.029	116.389	142.645	167.144	191.661	217.169	240.224	261.957
125	33.843	60.100	84.303	106.627	131.126	155.191	179.986	204.641	225.782	245.618
130	29.458	49.590	76.282	96.553	118.285	139.444	161.020	183.918	207.547	227.540
135	25.387	42.595	64.328	86.495	105.896	124.271	142.784	162.342	182.021	202.153

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CANDELA TABULATION - (Cont.)

140	23.925	37.045	50.617	73.358	93.786	110.420	125.141	141.479	158.114	174.592
145	22.463	30.624	43.900	56.150	77.882	97.875	111.430	122.948	134.920	148.335
150	23.194	30.050	37.636	49.155	59.804	76.717	94.656	107.358	116.093	124.114
155	23.194	29.615	34.852	40.994	50.321	59.073	68.399	84.164	95.091	103.269
160	23.038	28.727	33.686	38.071	41.708	47.398	54.114	60.674	67.825	73.654
165	22.463	26.692	31.511	35.583	38.645	41.273	43.169	46.528	49.590	53.975
170	22.463	25.091	27.997	31.216	33.982	36.749	38.367	39.098	40.699	41.708
175	22.168	23.333	24.656	25.961	27.562	29.023	30.485	31.651	32.521	32.956
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	17.087	17.087	17.087	17.087	17.087	17.087	17.087
5	21.872	22.603	23.194	23.629	23.925	23.925	23.925
10	39.672	41.134	42.439	43.465	44.196	44.492	44.631
15	57.907	60.535	62.866	64.467	65.494	66.224	66.503
20	77.882	81.832	84.895	87.365	89.123	90.132	90.428
25	99.180	104.435	108.663	112.021	114.492	116.093	116.684
30	121.783	128.360	133.893	138.417	141.619	143.672	144.403
35	145.568	153.590	160.724	166.414	170.503	173.130	173.861
40	169.928	179.986	188.599	195.733	200.692	204.050	205.076
45	195.002	207.112	217.326	226.217	232.203	236.431	237.736
50	219.797	234.674	246.923	257.433	264.584	269.543	271.005
55	244.453	261.800	275.964	287.918	296.670	302.203	303.961
60	267.212	286.595	302.795	316.349	326.267	332.688	334.585
65	287.918	308.485	327.294	341.875	352.959	359.815	362.007
70	304.831	327.590	347.130	362.599	373.978	381.408	383.896
75	317.376	340.709	361.137	377.041	388.855	396.424	398.773
80	326.424	349.462	369.593	385.497	397.451	405.037	407.230
85	330.652	353.411	373.526	389.725	401.244	408.395	410.431
90	331.226	353.551	373.387	388.994	400.374	407.073	409.561
95	329.626	351.793	371.194	386.663	397.451	404.167	406.638
100	325.989	347.722	366.096	381.843	392.492	399.347	401.383
105	319.568	340.431	358.370	373.247	384.175	390.595	392.631
110	310.225	330.217	347.565	362.007	372.221	378.937	380.973
115	297.105	316.941	333.280	346.834	356.909	362.877	364.930
120	281.932	299.732	316.071	328.321	337.369	343.337	345.094
125	264.149	280.331	295.208	306.431	314.609	319.864	321.465
130	244.018	259.190	271.875	282.089	289.379	294.043	295.504
135	222.581	235.700	247.080	255.832	262.392	266.481	267.786
140	192.374	210.610	220.823	228.549	233.943	237.597	238.624
145	162.481	177.062	193.558	200.396	205.216	208.139	209.148
150	134.763	145.708	158.392	171.529	175.897	178.228	179.116
155	108.802	116.389	125.576	136.660	146.143	148.335	148.770
160	78.770	83.572	90.724	98.884	111.430	115.084	115.814
165	57.176	59.212	59.369	62.710	68.121	77.882	78.474
170	41.708	41.569	40.264	38.071	39.533	45.501	51.922
175	32.956	32.816	32.086	29.893	26.552	24.934	31.216
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	17.39	N.A.	0.70
0-30	55.99	N.A.	2.40
0-40	130.59	N.A.	5.50
0-60	425.73	N.A.	17.90
0-80	908.28	N.A.	38.30
0-90	1183.43	N.A.	49.90
10-90	1180.82	N.A.	49.80
20-40	113.19	N.A.	4.80
20-50	234.45	N.A.	9.90
40-70	518.58	N.A.	21.90
60-80	482.55	N.A.	20.30
70-80	259.11	N.A.	10.90
80-90	275.15	N.A.	11.60
90-110	530.06	N.A.	22.30
90-120	753.85	N.A.	31.80
90-130	931.75	N.A.	39.30
90-150	1134.1	N.A.	47.80
90-180	1189.89	N.A.	50.10
110-180	659.83	N.A.	27.80
0-180	2373.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.61
10-20	14.78
20-30	38.59
30-40	74.60
40-50	121.26
50-60	173.89
60-70	223.44
70-80	259.11
80-90	275.15
90-100	273.53
100-110	256.52
110-120	223.79
120-130	177.90
130-140	125.48
140-150	76.87
150-160	39.10
160-170	14.13
170-180	2.56

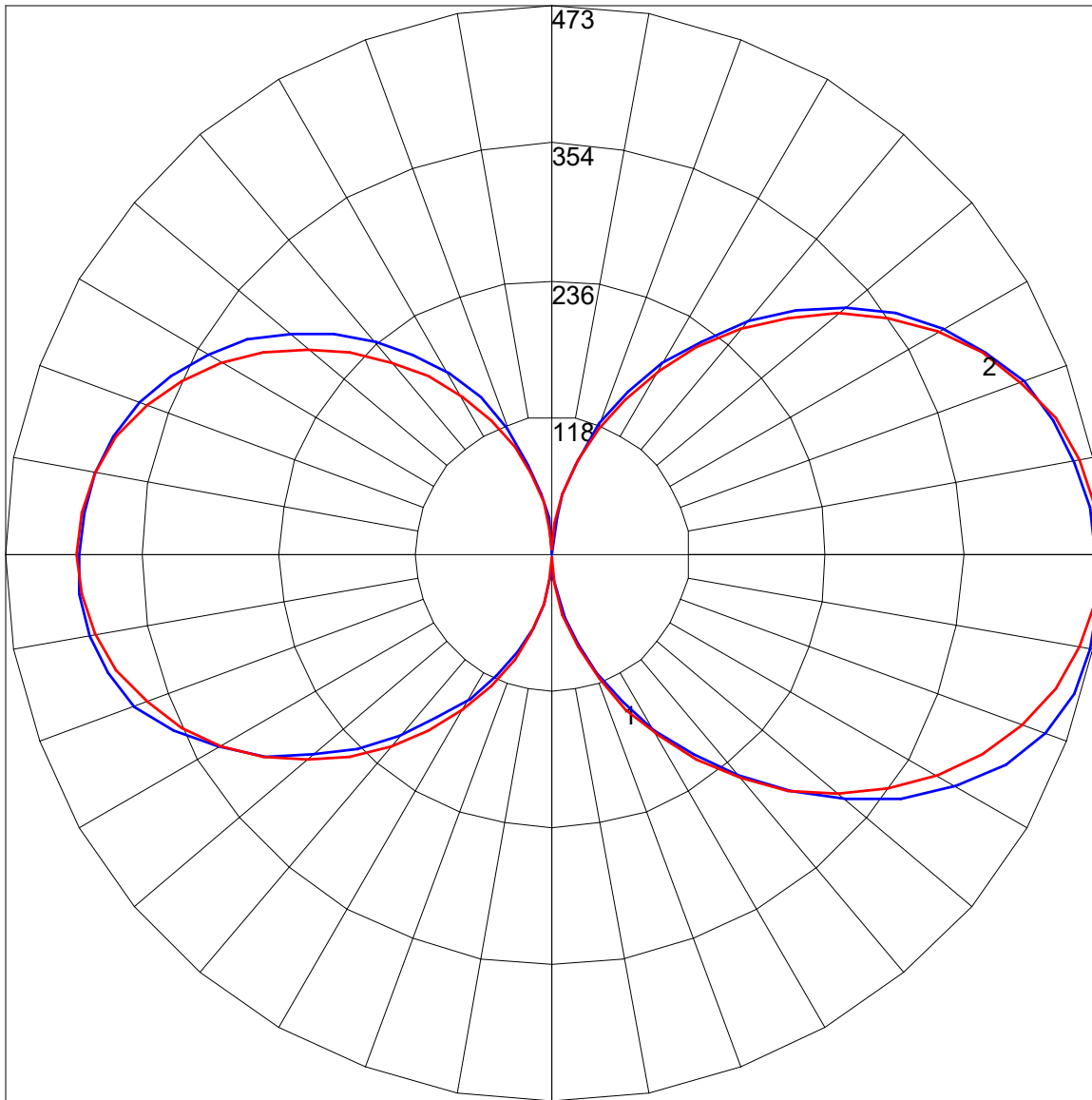
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	92	85	79	73	84	78	72	67	64	60	56	52	48	45	40	38	35	30
2	81	71	62	55	74	65	57	50	53	47	42	42	37	33	32	28	25	20
3	73	60	51	43	66	55	46	39	45	38	32	35	30	26	26	22	19	14
4	66	52	42	35	59	47	39	32	38	31	26	30	25	20	22	18	15	11
5	60	46	36	29	54	42	33	26	34	27	21	26	21	17	20	15	12	8
6	55	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	10	7
7	50	36	27	20	45	33	25	19	27	20	15	21	16	12	16	11	8	5
8	46	32	24	18	42	30	22	16	24	18	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	9	13	9	6	4
10	40	27	19	13	36	24	17	12	20	14	10	16	11	8	12	8	5	3

POLAR GRAPH



Maximum Candela = 472.567 Located At Horizontal Angle = 0, Vertical Angle = 85
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (85) (Through Max. Cd.)