

IES Report

ZipTwo® | 707 | Ceiling Cable | Square 3535, Side Diffuse | 80 CRI | SO

707-Z2-S-4-48-CC-XX-XX-XX-X-X-Z-SO-X-S9-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	76	79	80	80
Total Lumens, 4' rail length (1219mm)	1976	2038	2080	2080
Lumens per foot (305mm)	494	510	520	520
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_S9_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911537 (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-S9-BL
[LUMINAIRE] ZipTwo LED, 48", ceiling cable suspended, 3500K, 80 CRI, zipper board, square 3535,
[MORE] side diffuse lens, standard output, black anodized finish
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2079
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
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	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6249	6427	7628
55	4947	5298	7258
65	3478	3961	6778
75	2027	2518	6328
85	606	921	4889

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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	320.218	320.218	320.218	320.218	320.218	320.218	320.218	320.218	320.218	320.218
5	332.859	332.770	332.680	332.159	331.737	331.225	330.633	329.959	329.214	328.397
10	347.610	347.377	346.703	345.922	344.935	343.750	342.385	340.419	338.345	336.154
15	362.361	361.948	360.862	359.623	357.935	355.385	352.602	349.630	346.488	342.807
20	374.104	373.503	372.174	370.414	367.443	364.255	360.709	356.355	352.018	347.063
25	379.823	378.854	377.669	374.796	371.581	367.640	363.223	359.030	352.620	346.129
30	376.735	375.684	374.230	371.312	367.811	363.690	359.273	353.401	346.955	340.105
35	364.022	362.963	361.158	358.824	355.170	351.237	346.757	340.069	334.089	326.763
40	341.442	340.598	338.704	336.280	333.640	330.633	325.246	319.716	312.605	305.854
45	310.738	310.334	308.960	307.452	304.650	302.208	297.675	294.434	287.260	282.771
50	275.894	275.239	273.928	272.446	270.292	267.679	264.564	260.739	256.053	250.549
55	235.484	234.927	234.478	233.751	232.405	230.142	227.583	224.297	221.200	217.079
60	193.943	193.602	193.476	193.018	192.363	190.854	188.825	186.787	184.229	180.673
65	153.147	153.120	153.416	153.120	152.671	151.908	150.830	149.259	147.446	145.399
70	114.541	114.793	115.206	115.242	115.304	114.775	114.200	113.365	112.126	110.393
75	79.321	79.832	80.371	80.766	80.793	80.811	80.389	79.868	79.491	78.863
80	47.862	48.634	49.415	49.918	49.998	50.016	50.097	50.007	49.352	48.742
85	20.021	21.520	22.301	22.822	23.047	23.029	23.127	23.181	23.199	23.002
90	4.354	3.986	3.843	3.762	3.690	3.537	3.313	3.160	2.936	2.783
95	20.021	21.520	22.301	22.822	23.047	23.029	23.127	23.181	23.199	23.002
100	47.862	48.634	49.415	49.918	49.998	50.016	50.097	50.007	49.352	48.742
105	79.321	79.832	80.371	80.766	80.793	80.811	80.389	79.868	79.491	78.863
110	114.541	114.793	115.206	115.242	115.304	114.775	114.200	113.365	112.126	110.393
115	153.147	153.120	153.416	153.120	152.671	151.908	150.830	149.259	147.446	145.399
120	193.943	193.602	193.476	193.018	192.363	190.854	188.825	186.787	184.229	180.673
125	235.484	234.927	234.478	233.751	232.405	230.142	227.583	224.297	221.200	217.079
130	275.894	275.239	273.928	272.446	270.292	267.679	264.564	260.739	256.053	250.549
135	310.738	310.334	308.960	307.452	304.650	302.208	297.675	294.434	287.260	282.771
140	341.442	340.598	338.704	336.280	333.640	330.633	325.246	319.716	312.605	305.854
145	364.022	362.963	361.158	358.824	355.170	351.237	346.757	340.069	334.089	326.763
150	376.735	375.684	374.230	371.312	367.811	363.690	359.273	353.401	346.955	340.105
155	379.823	378.854	377.669	374.796	371.581	367.640	363.223	359.030	352.620	346.129
160	374.104	373.503	372.174	370.414	367.443	364.255	360.709	356.355	352.018	347.063
165	362.361	361.948	360.862	359.623	357.935	355.385	352.602	349.630	346.488	342.807
170	347.610	347.377	346.703	345.922	344.935	343.750	342.385	340.419	338.345	336.154
175	332.859	332.770	332.680	332.159	331.737	331.225	330.633	329.959	329.214	328.397
180	319.617	319.617	319.617	319.617	319.617	319.617	319.617	319.617	319.617	319.617

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	320.218	320.218	320.218	320.218	320.218	320.218	320.218	320.218	320.218	320.218
5	327.526	326.593	325.605	324.582	323.531	322.445	321.350	320.236	319.132	318.288
10	333.874	331.504	329.125	326.880	324.662	322.445	320.236	318.046	315.891	314.248
15	338.946	335.050	331.163	327.311	323.495	320.102	316.807	313.611	310.513	308.107
20	341.559	335.849	330.354	325.031	319.904	314.984	310.693	306.644	302.801	300.063
25	339.934	332.994	325.865	319.177	312.767	306.724	301.418	297.082	293.132	289.639
30	332.662	325.031	317.121	309.427	302.837	296.310	290.465	285.105	280.221	276.307
35	318.961	311.680	303.016	295.448	288.355	281.442	274.781	269.026	264.043	260.290
40	300.161	292.979	285.096	276.944	269.313	262.598	255.792	249.983	245.037	241.589
45	275.185	268.577	260.901	253.162	246.293	239.955	233.697	228.364	224.001	220.679
50	245.333	239.847	233.024	226.120	219.880	214.009	208.613	203.935	200.407	197.444
55	212.114	207.383	201.969	196.519	190.953	186.168	181.957	178.043	174.335	172.620
60	177.136	173.392	169.630	165.267	160.895	157.142	153.982	151.037	148.335	146.862

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CANDELA TABULATION - (Cont.)

65	142.750	139.895	136.708	133.305	130.396	127.829	124.740	122.639	121.652	119.749
70	108.445	106.766	104.683	102.493	100.607	98.920	96.783	95.409	94.673	93.551
75	77.130	76.681	75.990	75.613	75.191	73.673	72.776	72.327	71.680	71.600
80	48.436	48.580	47.700	46.506	46.102	45.141	44.118	44.019	43.687	43.274
85	22.355	22.687	22.391	21.538	21.906	21.664	20.820	21.386	21.332	20.820
90	2.559	2.334	2.029	2.029	1.733	1.428	1.885	1.508	1.050	2.029
95	22.355	22.687	22.391	21.538	21.906	21.664	20.820	21.386	21.332	20.820
100	48.436	48.580	47.700	46.506	46.102	45.141	44.118	44.019	43.687	43.274
105	77.130	76.681	75.990	75.613	75.191	73.673	72.776	72.327	71.680	71.600
110	108.445	106.766	104.683	102.493	100.607	98.920	96.783	95.409	94.673	93.551
115	142.750	139.895	136.708	133.305	130.396	127.829	124.740	122.639	121.652	119.749
120	177.136	173.392	169.630	165.267	160.895	157.142	153.982	151.037	148.335	146.862
125	212.114	207.383	201.969	196.519	190.953	186.168	181.957	178.043	174.335	172.620
130	245.333	239.847	233.024	226.120	219.880	214.009	208.613	203.935	200.407	197.444
135	275.185	268.577	260.901	253.162	246.293	239.955	233.697	228.364	224.001	220.679
140	300.161	292.979	285.096	276.944	269.313	262.598	255.792	249.983	245.037	241.589
145	318.961	311.680	303.016	295.448	288.355	281.442	274.781	269.026	264.043	260.290
150	332.662	325.031	317.121	309.427	302.837	296.310	290.465	285.105	280.221	276.307
155	339.934	332.994	325.865	319.177	312.767	306.724	301.418	297.082	293.132	289.639
160	341.559	335.849	330.354	325.031	319.904	314.984	310.693	306.644	302.801	300.063
165	338.946	335.050	331.163	327.311	323.495	320.102	316.807	313.611	310.513	308.107
170	333.874	331.504	329.125	326.880	324.662	322.445	320.236	318.046	315.891	314.248
175	327.526	326.593	325.605	324.582	323.531	322.445	321.350	320.236	319.132	318.288
180	319.617	319.617	319.617	319.617	319.617	319.617	319.617	319.617	319.617	319.617

Vert. Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	320.218	320.218	320.218	320.218	320.218	320.218	320.218	320.218	320.218	320.218
5	317.453	316.636	315.855	315.101	314.383	313.709	313.090	312.515	312.003	311.555
10	312.659	311.142	309.705	308.358	307.110	306.401	305.782	305.243	304.776	304.399
15	305.836	303.717	301.903	300.790	299.937	299.255	298.743	298.527	298.447	298.150
20	297.522	295.295	293.518	292.162	291.157	290.842	290.869	290.941	290.932	290.932
25	286.515	284.118	282.322	281.047	280.751	280.877	281.074	280.975	281.299	281.981
30	272.886	270.687	268.972	268.352	268.325	268.442	268.595	269.017	269.735	270.355
35	257.184	254.867	253.575	253.341	253.404	253.916	254.059	254.805	255.640	256.268
40	238.716	236.409	235.628	235.583	235.807	236.436	237.199	237.998	238.905	239.784
45	218.076	216.280	215.795	215.580	215.876	216.540	217.357	218.713	219.359	220.661
50	195.146	193.934	193.979	193.772	194.284	195.083	195.963	196.834	197.839	198.836
55	171.076	170.043	169.810	170.052	170.780	171.588	172.458	173.697	174.209	173.976
60	145.731	145.084	145.013	145.363	145.937	146.970	147.616	146.826	145.884	144.366
65	118.950	119.354	119.515	119.838	120.467	121.149	121.104	118.707	116.588	114.972
70	93.174	93.398	93.892	94.143	94.556	94.305	92.994	91.261	89.807	88.783
75	72.075	68.565	68.565	68.798	69.373	68.825	67.434	66.069	64.965	64.013
80	43.902	44.154	44.522	44.872	44.998	43.409	42.197	41.003	39.566	38.004
85	21.736	21.969	21.520	20.335	18.764	16.924	16.412	16.062	15.586	15.406
90	1.805	1.957	2.182	2.406	2.631	3.160	3.537	3.690	3.914	4.067
95	21.736	21.969	21.520	20.335	18.764	16.924	16.412	16.062	15.586	15.406
100	43.902	44.154	44.522	44.872	44.998	43.409	42.197	41.003	39.566	38.004
105	72.075	68.565	68.565	68.798	69.373	68.825	67.434	66.069	64.965	64.013
110	93.174	93.398	93.892	94.143	94.556	94.305	92.994	91.261	89.807	88.783
115	118.950	119.354	119.515	119.838	120.467	121.149	121.104	118.707	116.588	114.972
120	145.731	145.084	145.013	145.363	145.937	146.970	147.616	146.826	145.884	144.366
125	171.076	170.043	169.810	170.052	170.780	171.588	172.458	173.697	174.209	173.976
130	195.146	193.934	193.979	193.772	194.284	195.083	195.963	196.834	197.839	198.836
135	218.076	216.280	215.795	215.580	215.876	216.540	217.357	218.713	219.359	220.661

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CANDELA TABULATION - (Cont.)

140	238.716	236.409	235.628	235.583	235.807	236.436	237.199	237.998	238.905	239.784
145	257.184	254.867	253.575	253.341	253.404	253.916	254.059	254.805	255.640	256.268
150	272.886	270.687	268.972	268.352	268.325	268.442	268.595	269.017	269.735	270.355
155	286.515	284.118	282.322	281.047	280.751	280.877	281.074	280.975	281.299	281.981
160	297.522	295.295	293.518	292.162	291.157	290.842	290.869	290.941	290.932	290.932
165	305.836	303.717	301.903	300.790	299.937	299.255	298.743	298.527	298.447	298.150
170	312.659	311.142	309.705	308.358	307.110	306.401	305.782	305.243	304.776	304.399
175	317.453	316.636	315.855	315.101	314.383	313.709	313.090	312.515	312.003	311.555
180	319.617	319.617	319.617	319.617	319.617	319.617	319.617	319.617	319.617	319.617

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	320.218	320.218	320.218	320.218	320.218	320.218	320.218
5	311.169	310.854	310.603	310.432	310.334	310.307	310.360
10	304.130	303.699	303.385	303.178	303.079	303.088	303.214
15	298.052	298.123	298.375	298.366	298.366	298.483	298.698
20	291.228	291.273	291.426	291.812	291.848	291.929	292.225
25	282.062	282.538	282.996	283.319	283.857	283.884	284.243
30	271.154	271.647	272.204	272.725	273.317	273.524	273.937
35	257.453	258.019	258.602	259.347	259.743	260.182	260.542
40	240.574	241.688	242.137	242.604	243.223	243.842	244.058
45	221.218	222.376	223.005	223.561	224.100	224.621	224.791
50	199.689	200.524	201.260	201.790	202.238	202.660	202.966
55	175.448	175.493	177.208	178.258	178.662	178.967	179.264
60	143.504	143.747	145.623	149.367	153.102	154.071	154.350
65	114.398	113.913	114.613	116.552	121.840	128.278	128.619
70	89.582	90.301	90.417	90.058	90.328	98.426	102.654
75	63.358	64.193	65.234	66.374	66.240	65.064	75.487
80	37.699	37.726	38.282	39.494	40.114	39.512	46.362
85	16.196	16.933	18.100	19.024	19.904	20.838	20.542
90	4.588	5.270	5.943	6.626	7.003	7.146	0.000
95	16.196	16.933	18.100	19.024	19.904	20.838	20.542
100	37.699	37.726	38.282	39.494	40.114	39.512	46.362
105	63.358	64.193	65.234	66.374	66.240	65.064	75.487
110	89.582	90.301	90.417	90.058	90.328	98.426	102.654
115	114.398	113.913	114.613	116.552	121.840	128.278	128.619
120	143.504	143.747	145.623	149.367	153.102	154.071	154.350
125	175.448	175.493	177.208	178.258	178.662	178.967	179.264
130	199.689	200.524	201.260	201.790	202.238	202.660	202.966
135	221.218	222.376	223.005	223.561	224.100	224.621	224.791
140	240.574	241.688	242.137	242.604	243.223	243.842	244.058
145	257.453	258.019	258.602	259.347	259.743	260.182	260.542
150	271.154	271.647	272.204	272.725	273.317	273.524	273.937
155	282.062	282.538	282.996	283.319	283.857	283.884	284.243
160	291.228	291.273	291.426	291.812	291.848	291.929	292.225
165	298.052	298.123	298.375	298.366	298.366	298.483	298.698
170	304.130	303.699	303.385	303.178	303.079	303.088	303.214
175	311.169	310.854	310.603	310.432	310.334	310.307	310.360
180	319.617	319.617	319.617	319.617	319.617	319.617	319.617

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	121.27	N.A.	5.80
0-30	265.45	N.A.	12.80
0-40	446.17	N.A.	21.50
0-60	809.33	N.A.	38.90
0-80	1015.41	N.A.	48.80
0-90	1039.65	N.A.	50.00
10-90	1009.05	N.A.	48.50
20-40	324.90	N.A.	15.60
20-50	515.84	N.A.	24.80
40-70	492.69	N.A.	23.70
60-80	206.09	N.A.	9.90
70-80	76.55	N.A.	3.70
80-90	24.23	N.A.	1.20
90-110	100.78	N.A.	4.80
90-120	230.32	N.A.	11.10
90-130	402.54	N.A.	19.40
90-150	774.19	N.A.	37.20
90-180	1039.64	N.A.	50.00
110-180	938.86	N.A.	45.20
0-180	2079.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	30.59
10-20	90.68
20-30	144.18
30-40	180.72
40-50	190.94
50-60	172.21
60-70	129.54
70-80	76.55
80-90	24.23
90-100	24.23
100-110	76.55
110-120	129.54
120-130	172.21
130-140	190.94
140-150	180.72
150-160	144.18
160-170	90.68
170-180	30.59

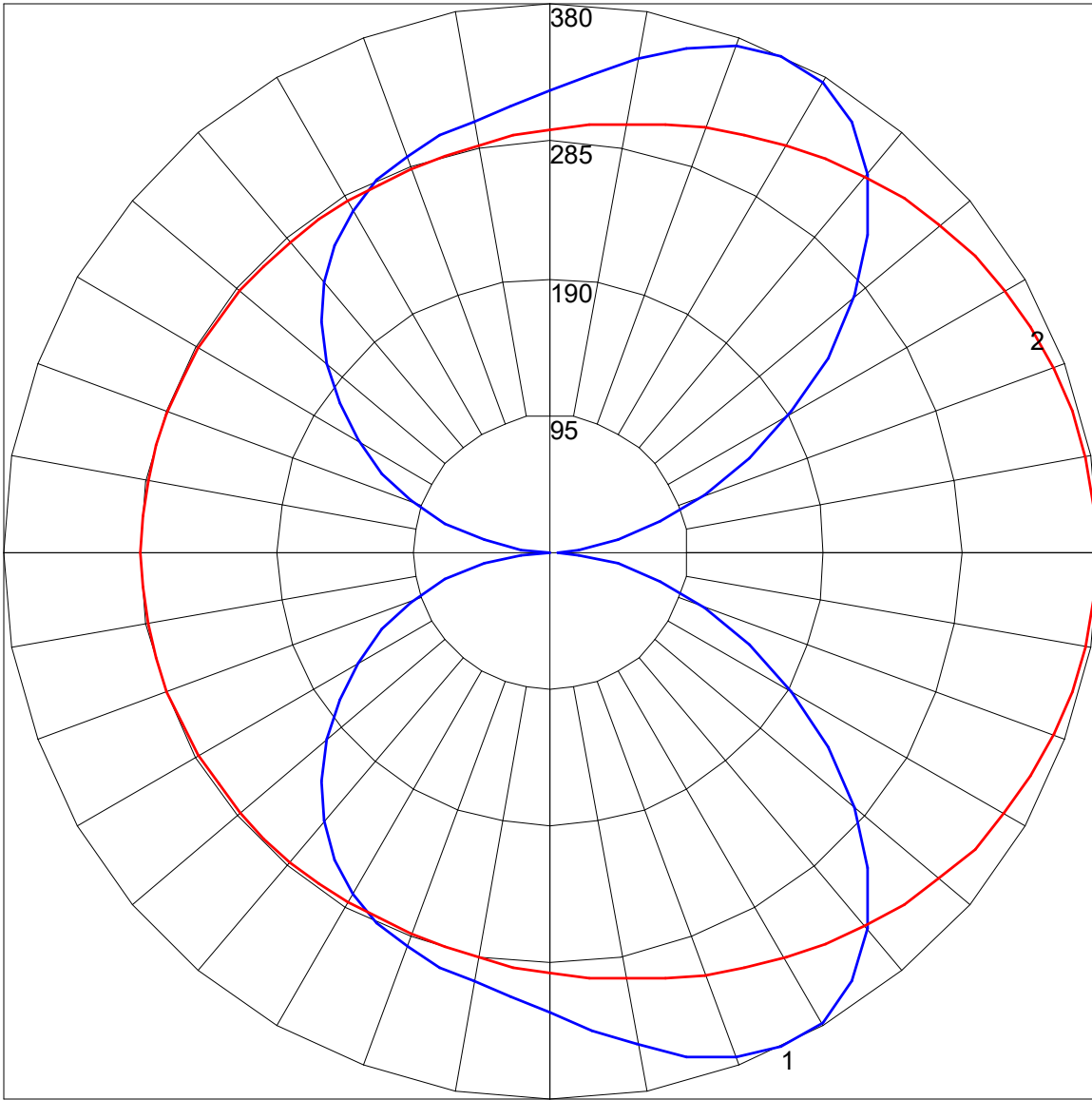
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	85	90	86	82	79	73	70	68	60	59	57	49	48	47	41
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34
3	81	71	63	57	74	66	59	54	56	51	46	46	43	40	38	35	33	29
4	74	63	54	48	67	58	51	45	49	44	39	41	37	34	34	31	28	24
5	67	56	47	41	62	52	44	39	44	38	34	37	32	29	30	27	24	21
6	62	50	41	36	57	46	39	33	39	34	29	33	29	25	27	24	21	18
7	57	45	37	31	53	42	34	29	36	30	26	30	25	22	25	21	19	16
8	53	41	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17	14
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15	13
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	13	11

POLAR GRAPH



Maximum Candela = 379.823 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)