

IES Report

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

707-Z2-4-48-XX-XX-X-0-Z-SO-35-S9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	103
Total Lumens, 4' rail length (1219mm)	2552	2633	2687	2687
Lumens per foot (305mm)	638	658	672	672
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_S9.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] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-SO-35-S9-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, square side diffuse lens,

[MORE] standard output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2687
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	8074	8303	9856
55	6391	6845	9377
65	4493	5118	8758
75	2619	3253	8176
85	783	1190	6317

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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	413.737	413.737	413.737	413.737	413.737	413.737	413.737	413.737	413.737	413.737
5	430.070	429.954	429.838	429.165	428.620	427.959	427.193	426.323	425.360	424.305
10	449.129	448.827	447.957	446.948	445.672	444.141	442.378	439.837	437.158	434.327
15	468.188	467.654	466.250	464.650	462.469	459.174	455.578	451.739	447.679	442.923
20	483.360	482.583	480.866	478.593	474.753	470.635	466.053	460.427	454.824	448.421
25	490.750	489.497	487.966	484.254	480.101	475.008	469.301	463.884	455.602	447.215
30	486.759	485.402	483.523	479.753	475.229	469.904	464.197	456.611	448.282	439.431
35	470.334	468.965	466.633	463.617	458.896	453.815	448.027	439.385	431.659	422.194
40	441.160	440.069	437.622	434.490	431.079	427.193	420.233	413.088	403.900	395.177
45	401.488	400.966	399.191	397.242	393.623	390.468	384.610	380.422	371.154	365.354
50	356.468	355.621	353.928	352.014	349.230	345.854	341.829	336.887	330.832	323.721
55	304.256	303.537	302.957	302.018	300.278	297.354	294.048	289.803	285.801	280.476
60	250.583	250.142	249.980	249.388	248.542	246.593	243.971	241.338	238.032	233.438
65	197.873	197.838	198.221	197.838	197.258	196.272	194.880	192.850	190.507	187.862
70	147.993	148.318	148.851	148.898	148.979	148.294	147.552	146.473	144.872	142.634
75	102.486	103.147	103.843	104.354	104.388	104.412	103.866	103.194	102.706	101.894
80	61.840	62.837	63.846	64.496	64.600	64.624	64.728	64.612	63.765	62.976
85	25.868	27.805	28.814	29.487	29.777	29.754	29.882	29.951	29.974	29.719
90	5.626	5.150	4.965	4.860	4.768	4.570	4.280	4.083	3.793	3.596
95	25.868	27.805	28.814	29.487	29.777	29.754	29.882	29.951	29.974	29.719
100	61.840	62.837	63.846	64.496	64.600	64.624	64.728	64.612	63.765	62.976
105	102.486	103.147	103.843	104.354	104.388	104.412	103.866	103.194	102.706	101.894
110	147.993	148.318	148.851	148.898	148.979	148.294	147.552	146.473	144.872	142.634
115	197.873	197.838	198.221	197.838	197.258	196.272	194.880	192.850	190.507	187.862
120	250.583	250.142	249.980	249.388	248.542	246.593	243.971	241.338	238.032	233.438
125	304.256	303.537	302.957	302.018	300.278	297.354	294.048	289.803	285.801	280.476
130	356.468	355.621	353.928	352.014	349.230	345.854	341.829	336.887	330.832	323.721
135	401.488	400.966	399.191	397.242	393.623	390.468	384.610	380.422	371.154	365.354
140	441.160	440.069	437.622	434.490	431.079	427.193	420.233	413.088	403.900	395.177
145	470.334	468.965	466.633	463.617	458.896	453.815	448.027	439.385	431.659	422.194
150	486.759	485.402	483.523	479.753	475.229	469.904	464.197	456.611	448.282	439.431
155	490.750	489.497	487.966	484.254	480.101	475.008	469.301	463.884	455.602	447.215
160	483.360	482.583	480.866	478.593	474.753	470.635	466.053	460.427	454.824	448.421
165	468.188	467.654	466.250	464.650	462.469	459.174	455.578	451.739	447.679	442.923
170	449.129	448.827	447.957	446.948	445.672	444.141	442.378	439.837	437.158	434.327
175	430.070	429.954	429.838	429.165	428.620	427.959	427.193	426.323	425.360	424.305
180	412.960	412.960	412.960	412.960	412.960	412.960	412.960	412.960	412.960	412.960

**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	413.737	413.737	413.737	413.737	413.737	413.737	413.737	413.737	413.737	413.737
5	423.180	421.973	420.697	419.375	418.018	416.614	415.199	413.760	412.334	411.243
10	431.381	428.318	425.244	422.344	419.479	416.614	413.760	410.930	408.146	406.023
15	437.935	432.900	427.878	422.901	417.971	413.586	409.329	405.200	401.198	398.089
20	441.310	433.933	426.834	419.955	413.331	406.974	401.430	396.198	391.233	387.695
25	439.211	430.244	421.034	412.392	404.109	396.302	389.447	383.844	378.740	374.228
30	429.815	419.955	409.735	399.794	391.280	382.846	375.295	368.370	362.059	357.002
35	412.113	402.706	391.512	381.733	372.569	363.637	355.030	347.594	341.156	336.307
40	387.823	378.543	368.358	357.825	347.965	339.288	330.496	322.990	316.599	312.144
45	355.552	347.014	337.096	327.097	318.223	310.033	301.948	295.058	289.420	285.128
50	316.982	309.894	301.078	292.158	284.096	276.509	269.538	263.494	258.935	255.107
55	274.062	267.948	260.954	253.912	246.720	240.538	235.097	230.040	225.249	223.033
60	228.868	224.031	219.170	213.533	207.884	203.035	198.952	195.147	191.655	189.753

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CANDELA TABULATION - (Cont.)

65	184.440	180.751	176.633	172.237	168.478	165.161	161.170	158.456	157.180	154.721
70	140.116	137.947	135.256	132.426	129.990	127.809	125.048	123.273	122.322	120.872
75	99.656	99.076	98.182	97.695	97.150	95.190	94.030	93.450	92.614	92.510
80	62.582	62.768	61.631	60.088	59.566	58.325	57.002	56.875	56.446	55.912
85	28.884	29.313	28.930	27.828	28.304	27.991	26.900	27.631	27.562	26.900
90	3.306	3.016	2.622	2.622	2.239	1.844	2.436	1.949	1.357	2.622
95	28.884	29.313	28.930	27.828	28.304	27.991	26.900	27.631	27.562	26.900
100	62.582	62.768	61.631	60.088	59.566	58.325	57.002	56.875	56.446	55.912
105	99.656	99.076	98.182	97.695	97.150	95.190	94.030	93.450	92.614	92.510
110	140.116	137.947	135.256	132.426	129.990	127.809	125.048	123.273	122.322	120.872
115	184.440	180.751	176.633	172.237	168.478	165.161	161.170	158.456	157.180	154.721
120	228.868	224.031	219.170	213.533	207.884	203.035	198.952	195.147	191.655	189.753
125	274.062	267.948	260.954	253.912	246.720	240.538	235.097	230.040	225.249	223.033
130	316.982	309.894	301.078	292.158	284.096	276.509	269.538	263.494	258.935	255.107
135	355.552	347.014	337.096	327.097	318.223	310.033	301.948	295.058	289.420	285.128
140	387.823	378.543	368.358	357.825	347.965	339.288	330.496	322.990	316.599	312.144
145	412.113	402.706	391.512	381.733	372.569	363.637	355.030	347.594	341.156	336.307
150	429.815	419.955	409.735	399.794	391.280	382.846	375.295	368.370	362.059	357.002
155	439.211	430.244	421.034	412.392	404.109	396.302	389.447	383.844	378.740	374.228
160	441.310	433.933	426.834	419.955	413.331	406.974	401.430	396.198	391.233	387.695
165	437.935	432.900	427.878	422.901	417.971	413.586	409.329	405.200	401.198	398.089
170	431.381	428.318	425.244	422.344	419.479	416.614	413.760	410.930	408.146	406.023
175	423.180	421.973	420.697	419.375	418.018	416.614	415.199	413.760	412.334	411.243
180	412.960	412.960	412.960	412.960	412.960	412.960	412.960	412.960	412.960	412.960

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	413.737	413.737	413.737	413.737	413.737	413.737	413.737	413.737	413.737	413.737
5	410.164	409.109	408.100	407.125	406.197	405.327	404.527	403.784	403.123	402.543
10	403.970	402.010	400.154	398.414	396.801	395.885	395.084	394.388	393.785	393.298
15	395.154	392.416	390.073	388.635	387.533	386.651	385.990	385.712	385.607	385.224
20	384.412	381.536	379.239	377.487	376.188	375.782	375.817	375.910	375.898	375.898
25	370.191	367.094	364.774	363.126	362.744	362.906	363.161	363.034	363.451	364.333
30	352.582	349.740	347.524	346.724	346.689	346.840	347.037	347.582	348.510	349.311
35	332.294	329.301	327.630	327.329	327.410	328.071	328.257	329.220	330.298	331.110
40	308.432	305.451	304.442	304.384	304.674	305.486	306.472	307.504	308.676	309.813
45	281.764	279.444	278.818	278.539	278.922	279.780	280.836	282.588	283.423	285.105
50	252.138	250.572	250.630	250.363	251.024	252.056	253.193	254.318	255.618	256.905
55	221.038	219.704	219.402	219.716	220.655	221.699	222.824	224.425	225.086	224.785
60	188.291	187.456	187.363	187.816	188.558	189.892	190.727	189.706	188.488	186.528
65	153.688	154.210	154.419	154.837	155.649	156.530	156.472	153.375	150.638	148.550
70	120.385	120.675	121.313	121.638	122.171	121.846	120.153	117.914	116.035	114.712
75	93.125	88.589	88.589	88.891	89.633	88.926	87.128	85.364	83.938	82.708
80	56.724	57.049	57.524	57.977	58.139	56.086	54.520	52.977	51.121	49.103
85	28.084	28.385	27.805	26.274	24.244	21.866	21.205	20.752	20.138	19.906
90	2.332	2.529	2.819	3.109	3.399	4.083	4.570	4.768	5.058	5.255
95	28.084	28.385	27.805	26.274	24.244	21.866	21.205	20.752	20.138	19.906
100	56.724	57.049	57.524	57.977	58.139	56.086	54.520	52.977	51.121	49.103
105	93.125	88.589	88.589	88.891	89.633	88.926	87.128	85.364	83.938	82.708
110	120.385	120.675	121.313	121.638	122.171	121.846	120.153	117.914	116.035	114.712
115	153.688	154.210	154.419	154.837	155.649	156.530	156.472	153.375	150.638	148.550
120	188.291	187.456	187.363	187.816	188.558	189.892	190.727	189.706	188.488	186.528
125	221.038	219.704	219.402	219.716	220.655	221.699	222.824	224.425	225.086	224.785
130	252.138	250.572	250.630	250.363	251.024	252.056	253.193	254.318	255.618	256.905
135	281.764	279.444	278.818	278.539	278.922	279.780	280.836	282.588	283.423	285.105

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CANDELA TABULATION - (Cont.)

140	308.432	305.451	304.442	304.384	304.674	305.486	306.472	307.504	308.676	309.813
145	332.294	329.301	327.630	327.329	327.410	328.071	328.257	329.220	330.298	331.110
150	352.582	349.740	347.524	346.724	346.689	346.840	347.037	347.582	348.510	349.311
155	370.191	367.094	364.774	363.126	362.744	362.906	363.161	363.034	363.451	364.333
160	384.412	381.536	379.239	377.487	376.188	375.782	375.817	375.910	375.898	375.898
165	395.154	392.416	390.073	388.635	387.533	386.651	385.990	385.712	385.607	385.224
170	403.970	402.010	400.154	398.414	396.801	395.885	395.084	394.388	393.785	393.298
175	410.164	409.109	408.100	407.125	406.197	405.327	404.527	403.784	403.123	402.543
180	412.960	412.960	412.960	412.960	412.960	412.960	412.960	412.960	412.960	412.960

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	413.737	413.737	413.737	413.737	413.737	413.737	413.737
5	402.044	401.638	401.314	401.093	400.966	400.931	401.000
10	392.950	392.393	391.987	391.720	391.593	391.604	391.767
15	385.097	385.190	385.514	385.503	385.503	385.654	385.932
20	376.281	376.339	376.536	377.035	377.081	377.186	377.568
25	364.437	365.052	365.644	366.061	366.757	366.792	367.256
30	350.343	350.981	351.700	352.373	353.139	353.406	353.939
35	332.642	333.372	334.126	335.089	335.600	336.168	336.632
40	310.834	312.272	312.852	313.455	314.256	315.056	315.334
45	285.824	287.320	288.132	288.852	289.548	290.220	290.441
50	258.007	259.086	260.037	260.722	261.302	261.847	262.241
55	226.687	226.745	228.961	230.318	230.840	231.234	231.617
60	185.414	185.728	188.152	192.989	197.815	199.068	199.427
65	147.807	147.181	148.086	150.591	157.424	165.741	166.182
70	115.745	116.673	116.824	116.360	116.708	127.171	132.634
75	81.861	82.940	84.286	85.759	85.585	84.065	97.533
80	48.708	48.743	49.462	51.028	51.829	51.052	59.902
85	20.926	21.878	23.386	24.580	25.717	26.924	26.541
90	5.928	6.809	7.679	8.561	9.048	9.234	0.000
95	20.926	21.878	23.386	24.580	25.717	26.924	26.541
100	48.708	48.743	49.462	51.028	51.829	51.052	59.902
105	81.861	82.940	84.286	85.759	85.585	84.065	97.533
110	115.745	116.673	116.824	116.360	116.708	127.171	132.634
115	147.807	147.181	148.086	150.591	157.424	165.741	166.182
120	185.414	185.728	188.152	192.989	197.815	199.068	199.427
125	226.687	226.745	228.961	230.318	230.840	231.234	231.617
130	258.007	259.086	260.037	260.722	261.302	261.847	262.241
135	285.824	287.320	288.132	288.852	289.548	290.220	290.441
140	310.834	312.272	312.852	313.455	314.256	315.056	315.334
145	332.642	333.372	334.126	335.089	335.600	336.168	336.632
150	350.343	350.981	351.700	352.373	353.139	353.406	353.939
155	364.437	365.052	365.644	366.061	366.757	366.792	367.256
160	376.281	376.339	376.536	377.035	377.081	377.186	377.568
165	385.097	385.190	385.514	385.503	385.503	385.654	385.932
170	392.950	392.393	391.987	391.720	391.593	391.604	391.767
175	402.044	401.638	401.314	401.093	400.966	400.931	401.000
180	412.960	412.960	412.960	412.960	412.960	412.960	412.960

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_SO_35_S9.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	156.69	N.A.	5.80
0-30	342.98	N.A.	12.80
0-40	576.47	N.A.	21.50
0-60	1045.69	N.A.	38.90
0-80	1311.96	N.A.	48.80
0-90	1343.27	N.A.	50.00
10-90	1303.75	N.A.	48.50
20-40	419.78	N.A.	15.60
20-50	666.49	N.A.	24.80
40-70	636.58	N.A.	23.70
60-80	266.27	N.A.	9.90
70-80	98.90	N.A.	3.70
80-90	31.31	N.A.	1.20
90-110	130.22	N.A.	4.80
90-120	297.59	N.A.	11.10
90-130	520.09	N.A.	19.40
90-150	1000.29	N.A.	37.20
90-180	1343.26	N.A.	50.00
110-180	1213.05	N.A.	45.20
0-180	2686.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	39.53
10-20	117.16
20-30	186.29
30-40	233.49
40-50	246.71
50-60	222.51
60-70	167.37
70-80	98.90
80-90	31.31
90-100	31.31
100-110	98.90
110-120	167.37
120-130	222.51
130-140	246.71
140-150	233.49
150-160	186.29
160-170	117.16
170-180	39.52

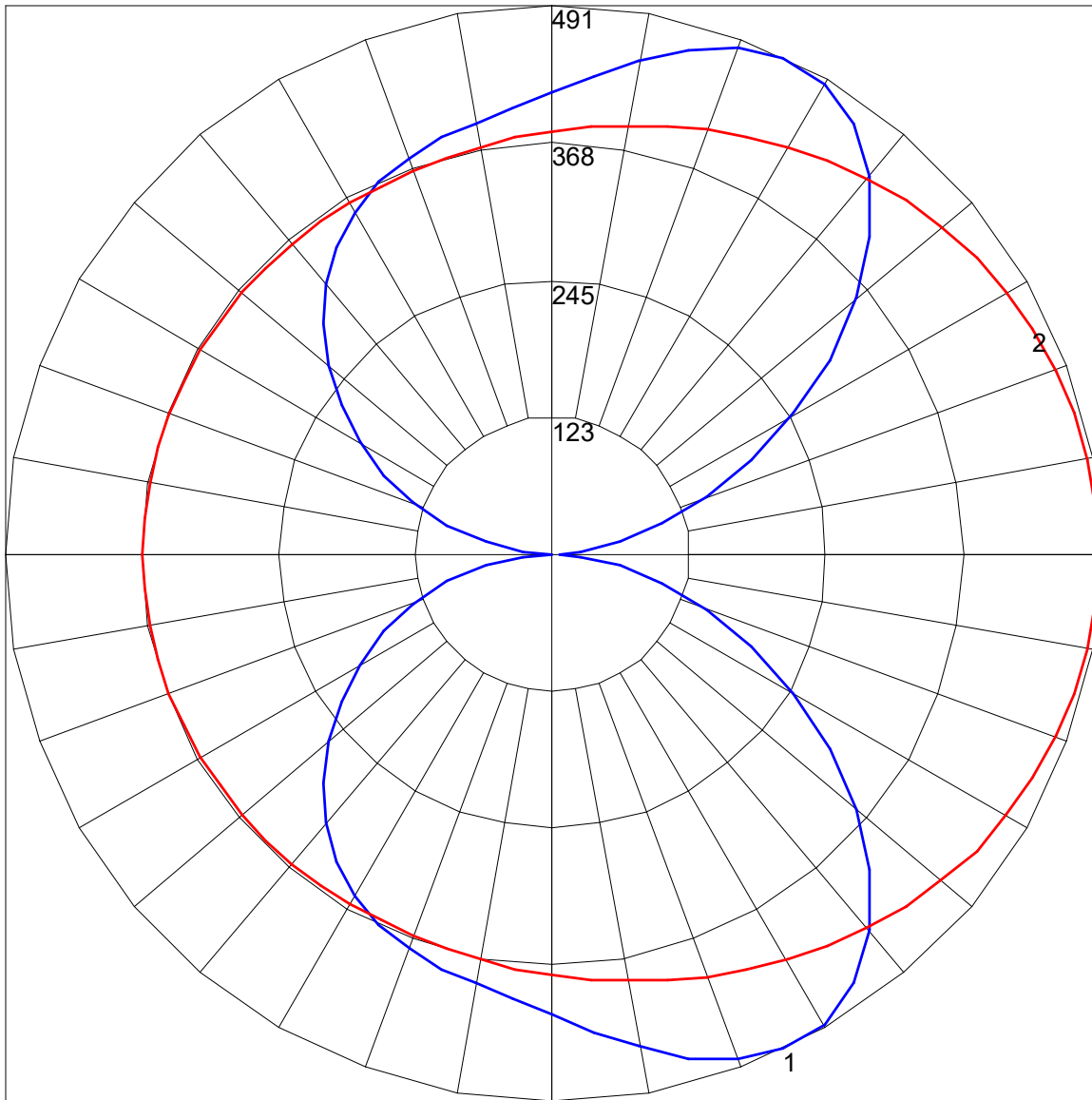
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	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	51	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 = 490.75 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.)