

IES Report

ZipTwo® | 707 | Square 3519, Single Side Diffuse | 90 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-359-FA-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	37	39	39	40
Total Lumens, 4' rail length (1219mm)	1462	1508	1539	1554
Lumens per foot (305mm)	365	377	385	389
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	94	94	94	94

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_359_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-HO-359-FA-WH

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,

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

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1539
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	39
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	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2	1	7
55	3	2	7
65	4	3	7
75	8	5	10
85	25	16	12

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_FA_WH.IES

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	7.980	7.980	7.980	7.980	7.980	7.980	7.980	7.980	7.980	7.980
5	1.260	1.260	1.260	1.260	1.260	1.380	1.380	1.515	1.515	1.515
10	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.260
15	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	1.005
20	0.510	0.510	0.630	0.630	0.630	0.630	0.630	0.630	0.750	0.750
25	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.630	0.630	0.630
30	1.005	1.005	1.005	0.885	0.885	0.885	0.885	0.750	0.750	0.750
35	1.005	1.005	1.005	1.005	1.005	1.005	1.005	0.885	0.885	0.885
40	1.260	1.260	1.260	1.260	1.260	1.125	1.125	1.125	1.005	0.885
45	1.515	1.515	1.515	1.380	1.380	1.380	1.260	1.125	1.125	1.125
50	1.755	1.635	1.635	1.515	1.515	1.515	1.380	1.380	1.260	1.125
55	1.755	1.755	1.755	1.755	1.755	1.635	1.635	1.380	1.380	1.260
60	2.010	2.010	2.010	1.890	1.890	1.755	1.635	1.635	1.380	1.380
65	2.010	2.010	2.010	2.010	2.010	1.890	1.755	1.635	1.635	1.380
70	2.265	2.265	2.145	2.145	2.010	2.010	1.890	1.755	1.635	1.635
75	2.265	2.265	2.265	2.265	2.145	2.145	2.010	1.890	1.635	1.635
80	2.520	2.385	2.385	2.265	2.265	2.145	2.145	1.890	1.890	1.635
85	2.520	2.520	2.520	2.385	2.265	2.265	2.145	1.890	1.890	1.635
90	2.520	2.520	2.520	2.520	2.385	2.265	2.145	2.145	1.890	1.755
95	2.520	2.520	2.640	2.640	2.520	2.385	2.385	2.145	2.010	1.890
100	3.015	3.015	2.895	2.895	2.895	2.760	2.760	2.520	2.385	2.145
105	3.270	3.270	3.150	3.150	3.270	3.150	3.015	2.760	2.520	2.520
110	3.525	3.525	3.390	3.390	3.390	3.270	3.150	3.015	2.895	2.640
115	4.020	3.900	3.645	3.780	3.780	3.645	3.525	3.270	3.150	3.015
120	4.275	4.155	4.020	4.020	3.900	3.900	3.780	3.390	3.390	3.270
125	4.530	4.395	4.275	4.155	4.155	4.020	4.020	3.645	3.645	3.525
130	4.530	4.530	4.395	4.275	4.275	4.275	4.275	3.900	3.525	3.525
135	4.530	4.785	4.530	4.395	4.530	4.530	4.155	3.780	3.780	3.780
140	4.785	4.785	4.785	4.650	4.785	4.275	4.275	3.900	4.020	4.020
145	5.025	5.025	5.025	4.905	4.275	4.530	4.395	4.155	4.155	4.395
150	5.025	5.160	5.280	4.650	4.650	4.650	4.650	4.530	4.785	4.905
155	5.280	5.280	5.160	4.785	4.785	4.785	5.280	5.160	5.025	4.905
160	5.280	5.280	4.650	4.905	4.905	5.535	5.535	4.905	5.025	4.905
165	5.025	4.395	4.395	4.785	5.655	5.790	5.535	5.160	5.025	5.025
170	5.025	4.275	4.395	5.400	5.535	5.655	5.535	5.400	5.400	5.655
175	3.525	4.785	5.790	6.540	6.795	6.915	7.170	7.170	7.920	8.550
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	7.980	7.980	7.980	7.980	7.980	7.980	7.980	7.980	7.980	7.980
5	1.755	1.890	2.145	2.385	2.895	3.525	4.650	5.910	7.425	9.300
10	1.260	1.260	1.260	1.515	1.515	1.890	2.640	4.275	7.290	11.445
15	1.005	1.005	1.125	1.260	1.260	1.515	1.755	3.015	7.290	13.710
20	0.750	0.885	1.005	1.005	1.125	1.260	1.515	2.265	6.915	16.095
25	0.630	0.750	0.750	0.885	1.005	1.125	1.260	1.755	6.795	18.225
30	0.630	0.630	0.630	0.750	0.885	1.005	1.125	1.515	6.420	20.250
35	0.750	0.750	0.630	0.630	0.750	0.885	1.005	1.260	6.285	22.125
40	0.885	0.885	0.750	0.630	0.630	0.750	1.005	1.125	5.910	23.895
45	0.885	0.885	0.885	0.750	0.630	0.750	0.885	1.005	5.535	25.530
50	1.125	0.885	0.885	0.885	0.630	0.630	0.750	1.005	4.905	27.540
55	1.125	1.125	0.885	0.885	0.630	0.630	0.750	0.885	4.530	28.035
60	1.125	1.125	0.885	0.885	0.885	0.630	0.630	0.750	3.900	29.175

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_FA_WH.IES

CANDELA TABULATION - (Cont.)

65	1.380	1.125	1.125	0.885	0.885	0.630	0.630	0.750	3.390	30.045
70	1.380	1.260	1.125	0.885	0.885	0.630	0.630	0.630	3.525	30.555
75	1.380	1.380	1.125	1.005	0.885	0.885	0.630	0.630	2.895	30.930
80	1.515	1.380	1.125	1.005	0.885	0.885	0.630	0.630	1.755	30.930
85	1.635	1.380	1.260	1.125	0.885	0.885	0.630	0.630	1.260	31.815
90	1.635	1.380	1.260	1.125	0.885	0.885	0.630	0.630	0.630	31.305
95	1.635	1.515	1.380	1.260	1.005	0.885	0.885	0.630	0.750	31.065
100	2.010	1.755	1.635	1.380	1.260	1.005	0.885	0.885	1.260	31.185
105	2.265	2.010	1.890	1.635	1.380	1.260	1.125	1.125	1.890	27.285
110	2.640	2.385	2.145	1.890	1.755	1.635	1.635	1.635	2.760	24.015
115	2.895	2.640	2.520	2.385	2.265	2.265	2.385	2.145	3.780	21.120
120	3.150	3.150	3.015	2.895	2.895	2.895	2.760	2.760	4.785	18.360
125	3.270	3.150	3.150	3.150	3.150	3.150	3.150	3.270	5.400	15.585
130	3.390	3.525	3.390	3.390	3.390	3.390	3.270	3.645	6.030	14.460
135	3.780	3.780	3.645	3.645	3.645	3.645	3.525	4.020	6.420	13.455
140	4.020	4.155	3.900	3.780	3.780	3.645	3.780	4.785	6.915	12.570
145	4.650	4.275	4.155	4.020	3.900	3.900	4.275	5.535	7.425	11.445
150	4.785	4.650	4.530	4.275	4.395	4.530	5.025	7.035	8.670	11.820
155	4.905	4.785	4.785	4.650	4.530	5.025	6.420	8.550	9.810	12.195
160	4.905	4.905	4.785	4.905	5.160	5.910	7.800	9.675	10.695	12.330
165	4.905	5.025	5.160	5.535	6.285	7.665	9.435	10.695	11.565	12.330
170	5.790	6.030	6.660	7.545	8.670	9.930	11.070	11.940	12.450	12.825
175	8.925	9.555	10.185	10.935	11.565	12.195	12.705	13.080	13.335	13.710
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	7.980	7.980	7.980	7.980	7.980	7.980	7.980	7.980	7.980	7.980
5	11.070	12.945	14.970	16.725	18.615	20.250	22.260	23.760	25.155	26.400
10	15.840	20.115	24.525	28.290	32.310	36.090	40.230	43.635	46.770	49.545
15	20.490	27.165	33.570	39.735	46.140	53.055	58.845	64.635	69.780	74.310
20	25.155	33.945	42.750	51.180	60.225	68.520	78.465	86.505	93.930	100.710
25	29.295	40.485	51.930	63.000	74.820	88.020	98.955	109.650	119.325	128.625
30	33.825	47.280	61.230	75.060	89.775	105.990	119.955	133.530	145.980	158.175
35	37.980	53.820	70.545	87.255	104.985	121.710	141.705	158.310	173.640	188.850
40	42.000	60.360	79.845	99.465	120.210	139.950	164.205	183.570	201.930	219.915
45	45.900	66.510	88.890	111.150	135.300	158.175	186.210	208.980	230.475	251.730
50	49.290	72.420	97.440	122.475	149.880	175.650	207.840	233.865	258.765	283.530
55	52.440	77.955	105.240	133.155	164.595	197.910	228.465	257.505	285.540	313.845
60	54.825	83.115	113.040	147.240	181.695	214.380	246.945	280.395	312.450	342.255
65	57.210	87.510	119.580	152.520	193.260	229.095	264.420	300.630	335.715	368.535
70	59.100	91.155	126.870	159.555	197.655	241.035	278.505	318.120	354.570	389.400
75	60.600	94.170	129.630	165.840	205.830	244.050	290.445	332.325	370.545	407.130
80	62.865	97.575	133.155	170.745	218.535	258.885	299.880	341.745	382.245	420.210
85	63.495	99.075	135.300	174.015	216.270	256.755	305.910	348.420	388.530	428.265
90	63.495	99.585	136.305	176.535	216.645	263.160	308.175	351.060	391.545	431.025
95	63.495	98.325	137.430	176.655	216.765	265.050	306.930	351.060	390.795	430.275
100	63.375	98.070	135.540	175.530	215.265	264.165	306.795	347.655	386.895	425.370
105	63.120	97.065	134.040	171.750	213.120	259.650	300.000	340.740	378.840	417.450
110	60.735	95.685	131.265	168.105	208.095	245.685	291.840	332.325	368.790	403.230
115	54.825	94.305	129.135	163.080	201.300	238.905	281.025	319.365	353.700	386.520
120	47.025	89.145	122.850	156.795	193.125	234.000	268.575	303.525	336.855	367.155
125	41.370	75.195	110.895	142.335	176.655	210.225	251.475	285.045	315.855	343.770
130	35.715	61.365	97.320	127.245	158.055	193.125	223.935	256.755	289.575	317.490
135	30.435	53.820	77.205	111.525	139.695	165.600	197.535	225.195	252.735	281.775

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_FA_WH.IES

CANDELA TABULATION - (Cont.)

140	26.280	45.015	63.630	87.645	120.705	145.095	171.885	195.390	218.280	242.040
145	23.010	36.090	53.445	69.405	92.790	124.230	145.605	167.865	185.340	204.570
150	21.885	32.820	44.385	59.970	74.310	90.285	119.820	142.215	156.420	168.615
155	19.995	29.925	39.480	48.780	62.235	74.430	87.765	103.740	119.820	132.900
160	17.985	26.025	34.200	42.255	49.410	57.330	66.270	75.825	89.145	94.800
165	15.720	21.255	28.290	34.200	39.855	46.140	50.175	57.960	62.745	68.775
170	14.205	17.220	21.000	25.770	30.045	33.825	37.095	41.235	44.385	47.400
175	13.830	14.340	15.585	17.100	18.990	21.000	22.890	25.530	26.910	28.035
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	7.980	7.980	7.980	7.980	7.980	7.980	7.980
5	27.285	28.290	29.040	29.670	30.045	30.300	30.180
10	52.050	54.060	55.950	57.465	58.335	58.965	59.100
15	78.330	82.110	85.125	87.510	89.280	90.150	90.525
20	106.755	112.155	116.565	120.075	122.475	124.095	124.485
25	136.920	143.970	150.000	154.785	158.175	160.320	160.950
30	168.735	177.795	185.580	191.880	196.155	199.035	199.920
35	201.810	213.120	222.810	230.730	236.265	239.775	241.170
40	236.010	249.720	261.405	271.215	278.250	282.660	283.665
45	270.705	287.175	301.140	312.825	321.510	326.415	328.425
50	305.040	324.270	340.875	354.705	364.635	370.920	372.930
55	338.355	360.615	379.470	395.445	407.010	414.300	416.940
60	370.545	395.445	417.060	435.300	448.005	456.555	458.940
65	399.585	427.005	450.885	470.625	484.965	494.265	497.415
70	422.850	452.280	477.540	498.675	512.370	521.925	524.565
75	441.090	472.890	500.055	519.285	535.260	545.565	548.460
80	456.420	487.860	513.885	535.635	551.730	562.425	565.560
85	464.595	496.530	522.690	544.935	561.165	571.215	574.110
90	467.865	499.425	525.195	547.710	563.550	573.480	577.125
95	466.230	497.790	523.185	545.190	561.285	570.840	574.365
100	460.830	491.625	515.520	537.390	553.365	562.920	566.070
105	450.765	480.315	502.695	524.820	539.790	549.465	552.240
110	435.930	464.340	488.490	504.330	520.800	529.860	532.365
115	416.190	443.730	467.115	485.340	498.795	505.830	508.725
120	395.820	420.720	442.215	459.315	471.630	479.685	482.070
125	370.035	392.670	412.410	427.635	439.065	446.490	448.620
130	341.250	361.485	379.350	393.180	403.485	410.145	411.915
135	310.185	328.425	344.265	356.460	365.520	371.295	372.930
140	267.195	292.470	307.305	317.865	325.905	330.810	332.190
145	224.445	245.190	268.065	278.010	284.790	288.945	290.205
150	184.200	200.040	217.905	236.760	242.790	246.195	247.200
155	143.715	156.045	169.500	185.340	199.170	202.305	203.190
160	98.955	102.855	112.290	123.975	140.325	148.125	148.875
165	73.425	76.455	77.070	81.855	89.145	103.605	104.610
170	48.915	49.920	48.540	45.270	47.400	54.690	62.610
175	28.665	28.920	28.800	26.910	23.895	23.385	30.180
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_FA_WH.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	10.23	N.A.	0.70
0-30	34.04	N.A.	2.20
0-40	80.55	N.A.	5.20
0-60	265.51	N.A.	17.30
0-80	572.66	N.A.	37.20
0-90	751.90	N.A.	48.90
10-90	750.48	N.A.	48.80
20-40	70.32	N.A.	4.60
20-50	146.18	N.A.	9.50
40-70	326.32	N.A.	21.20
60-80	307.15	N.A.	20.00
70-80	165.79	N.A.	10.80
80-90	179.24	N.A.	11.60
90-110	349.19	N.A.	22.70
90-120	497.07	N.A.	32.30
90-130	615.31	N.A.	40.00
90-150	750.61	N.A.	48.80
90-180	786.90	N.A.	51.10
110-180	437.71	N.A.	28.40
0-180	1538.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.42
10-20	8.81
20-30	23.81
30-40	46.51
40-50	75.85
50-60	109.10
60-70	141.36
70-80	165.79
80-90	179.24
90-100	180.04
100-110	169.15
110-120	147.88
120-130	118.24
130-140	83.77
140-150	51.53
150-160	25.76
160-170	9.01
170-180	1.52

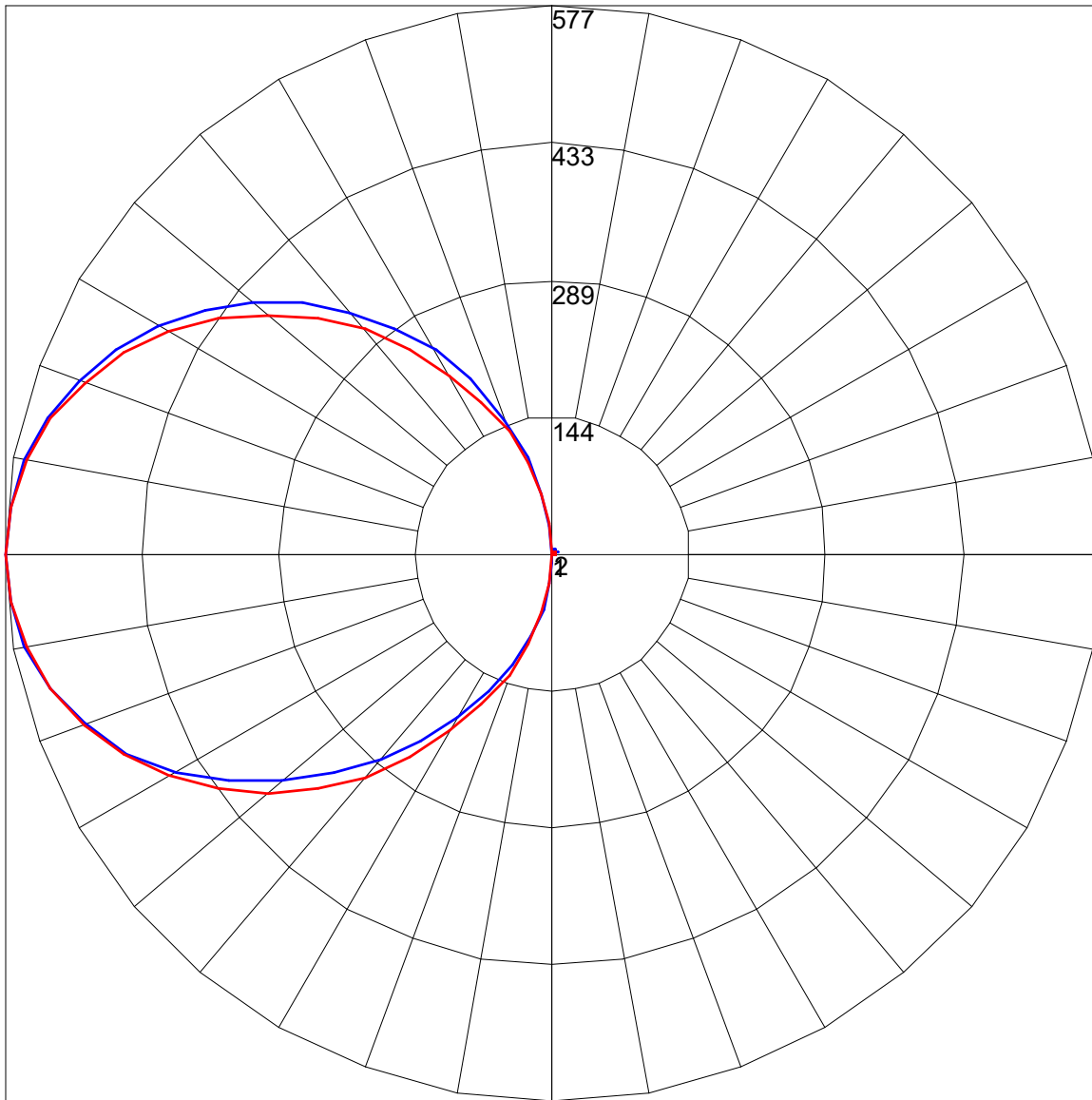
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_359_FA_WH.IES

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	26	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 = 577.125 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.)