

IES Report

DoubleRace™ | 107 | Diffuse, Round, up | Diffuse, Round, down | 80 CRI | LO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-22-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	126	130	132	132
Total Lumens, 4' rail length (1219mm)	3460	3569	3642	3642
Lumens per foot (305mm)	865	892	910	910
Lumens per foot UP (305mm)	432	446	455	455
Lumens per foot DOWN (305mm)	432	446	455	455
Input Power (W), 4' rail length (1219mm)	27.6	27.6	27.6	27.6
Watts per foot (305mm)	7.0	7.0	7.0	7.0
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_107_DR_LO_35_22.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911517 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-DR-48-Z-LO-35-22-AL

[LUMINAIRE] DoubleRace LED, 48", 3500K, 80 CRI, zipper board, round diffuse lens up /

[MORE] round diffuse lens down, low 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	3642
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	27.64
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)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5923	7539	20971
55	3973	5269	17674
65	2460	3461	13956
75	1558	2206	9977
85	1192	1637	5898

IES INDOOR REPORT
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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	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68
5	662.94	662.94	662.94	662.94	662.94	662.94	662.94	662.94	662.94	662.94
10	654.82	654.82	654.82	654.82	654.82	654.82	654.24	654.24	654.24	654.24
15	640.32	640.90	640.32	640.32	640.32	639.74	639.74	639.74	639.74	639.16
20	620.60	620.60	620.60	620.60	620.02	619.44	618.86	618.86	618.28	617.70
25	594.50	594.50	594.50	593.92	593.34	592.76	592.18	591.60	591.02	589.86
30	564.34	564.34	564.34	563.76	563.18	562.60	559.12	557.96	556.80	555.64
35	524.90	524.90	524.90	524.90	524.32	523.74	522.58	519.10	517.36	515.62
40	475.60	475.60	476.18	476.76	476.18	476.76	476.76	475.60	474.44	472.70
45	418.76	419.34	419.92	420.50	421.08	422.24	423.40	423.40	422.82	421.08
50	360.18	360.18	360.76	361.92	363.66	364.82	365.98	366.56	366.56	365.40
55	301.02	301.02	302.18	303.92	305.08	307.40	309.14	309.72	309.72	308.56
60	243.60	244.18	245.34	247.66	249.40	251.72	254.62	255.78	256.36	255.78
65	193.14	193.72	194.88	196.62	198.94	201.26	203.58	205.90	206.48	205.90
70	153.12	153.12	154.28	156.02	157.76	160.08	162.40	163.56	163.56	162.98
75	122.96	122.96	124.12	125.28	126.44	128.76	129.92	131.08	131.08	129.34
80	103.24	103.24	103.82	104.98	106.14	107.88	108.46	109.04	108.46	106.14
85	91.64	91.64	92.22	92.80	93.96	95.12	95.70	95.70	94.54	91.64
90	88.16	88.16	88.16	89.32	90.48	90.48	91.64	91.64	90.48	87.00
95	91.64	91.64	92.22	92.80	93.96	95.12	95.70	95.70	94.54	91.64
100	103.24	103.24	103.82	104.98	106.14	107.88	108.46	109.04	108.46	106.14
105	122.96	122.96	124.12	125.28	126.44	128.76	129.92	131.08	131.08	129.34
110	153.12	153.12	154.28	156.02	157.76	160.08	162.40	163.56	163.56	162.98
115	193.14	193.72	194.88	196.62	198.94	201.26	203.58	205.90	206.48	205.90
120	243.60	244.18	245.34	247.66	249.40	251.72	254.62	255.78	256.36	255.78
125	301.02	301.02	302.18	303.92	305.08	307.40	309.14	309.72	309.72	308.56
130	360.18	360.18	360.76	361.92	363.66	364.82	365.98	366.56	366.56	365.40
135	418.76	419.34	419.92	420.50	421.08	422.24	423.40	423.40	422.82	421.08
140	475.60	475.60	476.18	476.76	476.18	476.76	476.76	475.60	474.44	472.70
145	524.90	524.90	524.90	524.90	524.32	523.74	522.58	519.10	517.36	515.62
150	564.34	564.34	564.34	563.76	563.18	562.60	559.12	557.96	556.80	555.64
155	594.50	594.50	594.50	593.92	593.34	592.76	592.18	591.60	591.02	589.86
160	620.60	620.60	620.60	620.60	620.02	619.44	618.86	618.86	618.28	617.70
165	640.32	640.90	640.32	640.32	640.32	639.74	639.74	639.74	639.74	639.16
170	654.82	654.82	654.82	654.82	654.82	654.82	654.24	654.24	654.24	654.24
175	662.94	662.94	662.94	662.94	662.94	662.94	662.94	662.94	662.94	662.94
180	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68

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	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68
5	662.94	662.94	662.94	662.94	662.94	662.94	662.94	662.94	663.52	662.94
10	654.24	654.24	654.24	654.24	654.24	654.24	654.24	654.24	654.24	654.24
15	638.58	638.58	638.00	638.00	637.42	638.00	637.42	637.42	638.00	637.42
20	617.12	616.54	615.38	615.38	614.80	614.22	614.22	613.64	614.22	613.64
25	588.70	587.54	586.38	585.22	584.64	583.48	583.48	583.48	583.48	583.48
30	553.90	552.16	550.42	548.68	547.52	545.78	545.20	544.62	544.62	544.62
35	513.88	510.98	508.66	505.76	503.44	501.70	499.96	499.38	499.38	499.38
40	469.22	465.74	460.52	457.04	453.56	451.24	448.92	447.76	447.18	447.76
45	418.18	414.12	407.74	403.68	399.62	395.56	392.66	390.92	390.92	390.92
50	362.50	359.60	354.38	349.16	342.20	337.56	334.08	331.76	331.76	331.76
55	306.82	303.34	298.70	292.32	285.36	280.14	276.08	273.76	273.18	273.76
60	252.88	248.82	243.02	237.80	231.42	224.46	219.82	217.50	216.34	217.50

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CANDELA TABULATION - (Cont.)

65	203.58	198.94	193.72	186.76	180.38	172.84	168.20	165.30	164.72	165.30
70	160.66	156.02	150.22	142.68	135.14	128.18	121.80	118.90	117.74	118.90
75	126.44	121.22	114.84	106.72	98.02	89.90	83.52	79.46	77.72	79.46
80	102.08	96.86	88.74	79.46	70.18	60.32	52.20	47.56	45.82	47.56
85	87.58	81.20	72.50	62.64	51.62	40.02	30.16	23.20	20.88	23.20
90	82.36	76.56	67.28	56.84	45.24	33.64	22.04	11.60	4.64	11.60
95	87.58	81.20	72.50	62.64	51.62	40.02	30.16	23.20	20.88	23.20
100	102.08	96.86	88.74	79.46	70.18	60.32	52.20	47.56	45.82	47.56
105	126.44	121.22	114.84	106.72	98.02	89.90	83.52	79.46	77.72	79.46
110	160.66	156.02	150.22	142.68	135.14	128.18	121.80	118.90	117.74	118.90
115	203.58	198.94	193.72	186.76	180.38	172.84	168.20	165.30	164.72	165.30
120	252.88	248.82	243.02	237.80	231.42	224.46	219.82	217.50	216.34	217.50
125	306.82	303.34	298.70	292.32	285.36	280.14	276.08	273.76	273.18	273.76
130	362.50	359.60	354.38	349.16	342.20	337.56	334.08	331.76	331.76	331.76
135	418.18	414.12	407.74	403.68	399.62	395.56	392.66	390.92	390.92	390.92
140	469.22	465.74	460.52	457.04	453.56	451.24	448.92	447.76	447.18	447.76
145	513.88	510.98	508.66	505.76	503.44	501.70	499.96	499.38	499.38	499.38
150	553.90	552.16	550.42	548.68	547.52	545.78	545.20	544.62	544.62	544.62
155	588.70	587.54	586.38	585.22	584.64	583.48	583.48	583.48	583.48	583.48
160	617.12	616.54	615.38	615.38	614.80	614.22	614.22	613.64	614.22	613.64
165	638.58	638.58	638.00	638.00	637.42	638.00	637.42	637.42	638.00	637.42
170	654.24	654.24	654.24	654.24	654.24	654.24	654.24	654.24	654.24	654.24
175	662.94	662.94	662.94	662.94	662.94	662.94	662.94	662.94	663.52	662.94
180	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68

Vert. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68
5	662.94	662.94	662.94	662.94	662.94	662.94	662.94	662.94	662.94	662.94
10	654.24	654.24	654.24	654.24	654.24	654.24	654.24	654.24	654.24	654.24
15	637.42	638.00	637.42	638.00	638.00	638.58	638.58	639.16	639.74	639.74
20	614.22	614.22	614.80	615.38	615.38	616.54	617.12	617.70	618.28	618.86
25	583.48	583.48	584.64	585.22	586.38	587.54	588.70	589.86	591.02	591.60
30	545.20	545.78	547.52	548.68	550.42	552.16	553.90	555.64	556.80	557.96
35	499.96	501.70	503.44	505.76	508.66	510.98	513.88	515.62	517.36	519.10
40	448.92	451.24	453.56	457.04	460.52	465.74	469.22	472.70	474.44	475.60
45	392.66	395.56	399.62	403.68	407.74	414.12	418.18	421.08	422.82	423.40
50	334.08	337.56	342.20	349.16	354.38	359.60	362.50	365.40	366.56	366.56
55	276.08	280.14	285.36	292.32	298.70	303.34	306.82	308.56	309.72	309.72
60	219.82	224.46	231.42	237.80	243.02	248.82	252.88	255.78	256.36	255.78
65	168.20	172.84	180.38	186.76	193.72	198.94	203.58	205.90	206.48	205.90
70	121.80	128.18	135.14	142.68	150.22	156.02	160.66	162.98	163.56	163.56
75	83.52	89.90	98.02	106.72	114.84	121.22	126.44	129.34	131.08	131.08
80	52.20	60.32	70.18	79.46	88.74	96.86	102.08	106.14	108.46	109.04
85	30.16	40.02	51.62	62.64	72.50	81.20	87.58	91.64	94.54	95.70
90	22.04	33.64	45.24	56.84	67.28	76.56	82.36	87.00	90.48	91.64
95	30.16	40.02	51.62	62.64	72.50	81.20	87.58	91.64	94.54	95.70
100	52.20	60.32	70.18	79.46	88.74	96.86	102.08	106.14	108.46	109.04
105	83.52	89.90	98.02	106.72	114.84	121.22	126.44	129.34	131.08	131.08
110	121.80	128.18	135.14	142.68	150.22	156.02	160.66	162.98	163.56	163.56
115	168.20	172.84	180.38	186.76	193.72	198.94	203.58	205.90	206.48	205.90
120	219.82	224.46	231.42	237.80	243.02	248.82	252.88	255.78	256.36	255.78
125	276.08	280.14	285.36	292.32	298.70	303.34	306.82	308.56	309.72	309.72
130	334.08	337.56	342.20	349.16	354.38	359.60	362.50	365.40	366.56	366.56
135	392.66	395.56	399.62	403.68	407.74	414.12	418.18	421.08	422.82	423.40

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

140	448.92	451.24	453.56	457.04	460.52	465.74	469.22	472.70	474.44	475.60
145	499.96	501.70	503.44	505.76	508.66	510.98	513.88	515.62	517.36	519.10
150	545.20	545.78	547.52	548.68	550.42	552.16	553.90	555.64	556.80	557.96
155	583.48	583.48	584.64	585.22	586.38	587.54	588.70	589.86	591.02	591.60
160	614.22	614.22	614.80	615.38	615.38	616.54	617.12	617.70	618.28	618.86
165	637.42	638.00	637.42	638.00	638.00	638.58	638.58	639.16	639.74	639.74
170	654.24	654.24	654.24	654.24	654.24	654.24	654.24	654.24	654.24	654.24
175	662.94	662.94	662.94	662.94	662.94	662.94	662.94	662.94	662.94	662.94
180	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68	664.68

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	664.68	664.68	664.68	664.68	664.68	664.68	664.68
5	662.94	662.94	662.94	662.94	662.94	662.94	662.94
10	654.24	654.82	654.82	654.82	654.82	654.82	654.82
15	639.74	639.74	640.32	640.32	640.32	640.90	640.32
20	618.86	619.44	620.02	620.60	620.60	620.60	620.60
25	592.18	592.76	593.34	593.92	594.50	594.50	594.50
30	559.12	562.60	563.18	563.76	564.34	564.34	564.34
35	522.58	523.74	524.32	524.90	524.90	524.90	524.90
40	476.76	476.76	476.18	476.76	476.18	475.60	475.60
45	423.40	422.24	421.08	420.50	419.92	419.34	418.76
50	365.98	364.82	363.66	361.92	360.76	360.18	360.18
55	309.14	307.40	305.08	303.92	302.18	301.02	301.02
60	254.62	251.72	249.40	247.66	245.34	244.18	243.60
65	203.58	201.26	198.94	196.62	194.88	193.72	193.14
70	162.40	160.08	157.76	156.02	154.28	153.12	153.12
75	129.92	128.76	126.44	125.28	124.12	122.96	122.96
80	108.46	107.88	106.14	104.98	103.82	103.24	103.24
85	95.70	95.12	93.96	92.80	92.22	91.64	91.64
90	91.64	90.48	90.48	89.32	88.16	88.16	88.16
95	95.70	95.12	93.96	92.80	92.22	91.64	91.64
100	108.46	107.88	106.14	104.98	103.82	103.24	103.24
105	129.92	128.76	126.44	125.28	124.12	122.96	122.96
110	162.40	160.08	157.76	156.02	154.28	153.12	153.12
115	203.58	201.26	198.94	196.62	194.88	193.72	193.14
120	254.62	251.72	249.40	247.66	245.34	244.18	243.60
125	309.14	307.40	305.08	303.92	302.18	301.02	301.02
130	365.98	364.82	363.66	361.92	360.76	360.18	360.18
135	423.40	422.24	421.08	420.50	419.92	419.34	418.76
140	476.76	476.76	476.18	476.76	476.18	475.60	475.60
145	522.58	523.74	524.32	524.90	524.90	524.90	524.90
150	559.12	562.60	563.18	563.76	564.34	564.34	564.34
155	592.18	592.76	593.34	593.92	594.50	594.50	594.50
160	618.86	619.44	620.02	620.60	620.60	620.60	620.60
165	639.74	639.74	640.32	640.32	640.32	640.90	640.32
170	654.24	654.82	654.82	654.82	654.82	654.82	654.82
175	662.94	662.94	662.94	662.94	662.94	662.94	662.94
180	664.68	664.68	664.68	664.68	664.68	664.68	664.68

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_LO_35_22.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	243.27	N.A.	6.70
0-30	514.63	N.A.	14.10
0-40	835.66	N.A.	22.90
0-60	1420.33	N.A.	39.00
0-80	1736.33	N.A.	47.70
0-90	1820.81	N.A.	50.00
10-90	1757.81	N.A.	48.30
20-40	592.38	N.A.	16.30
20-50	910.17	N.A.	25.00
40-70	776.67	N.A.	21.30
60-80	316.00	N.A.	8.70
70-80	124.00	N.A.	3.40
80-90	84.48	N.A.	2.30
90-110	208.48	N.A.	5.70
90-120	400.48	N.A.	11.00
90-130	667.37	N.A.	18.30
90-150	1306.18	N.A.	35.90
90-180	1820.81	N.A.	50.00
110-180	1612.33	N.A.	44.30
0-180	3641.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.00
10-20	180.28
20-30	271.36
30-40	321.03
40-50	317.78
50-60	266.88
60-70	192.00
70-80	124.00
80-90	84.48
90-100	84.48
100-110	124.00
110-120	192.00
120-130	266.88
130-140	317.78
140-150	321.03
150-160	271.36
160-170	180.28
170-180	63.00

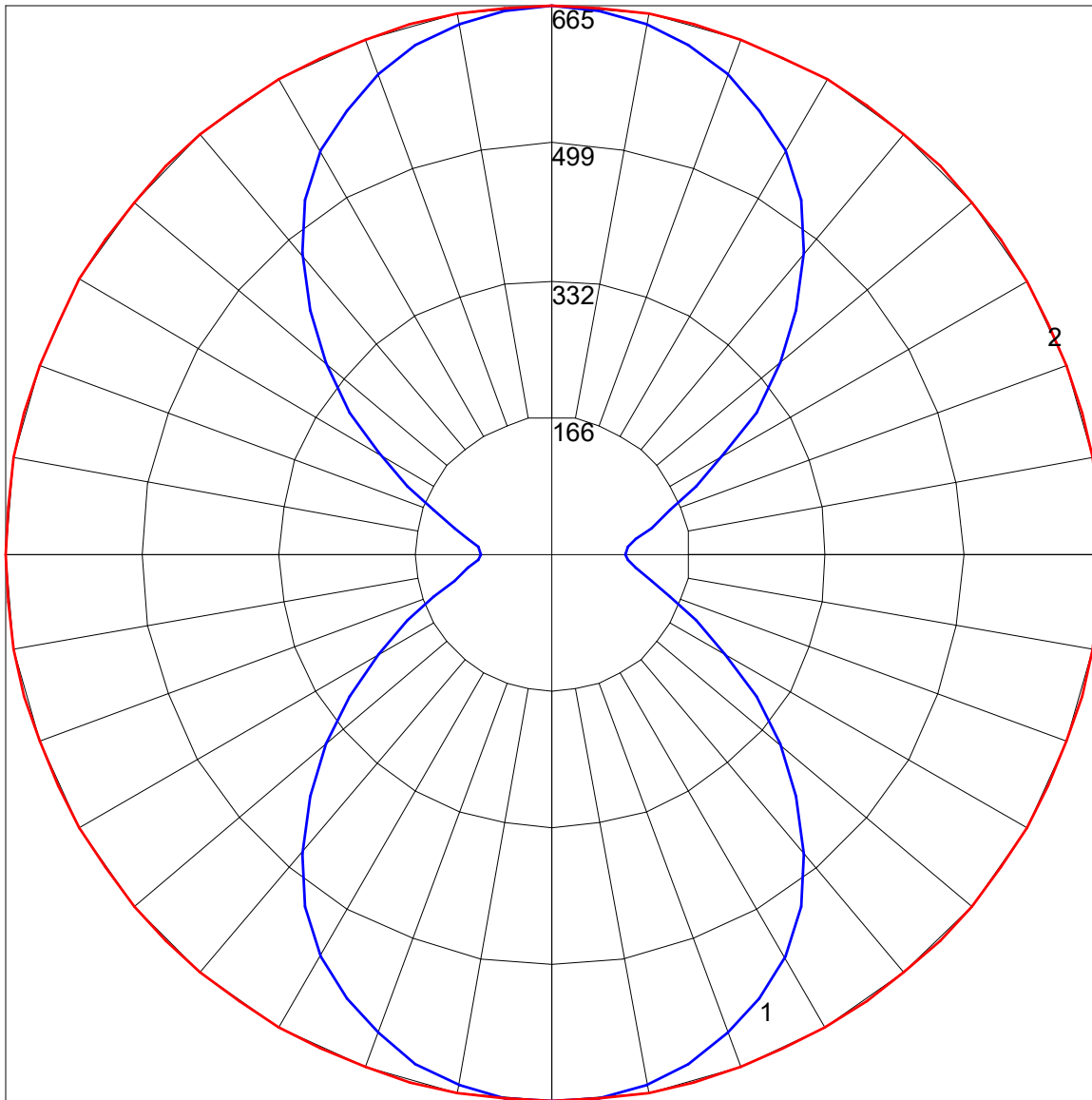
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	89	86	82	79	72	70	67	60	58	57	49	47	46	41
2	88	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	35	33	29
4	74	63	55	49	68	58	51	46	50	44	40	41	37	34	34	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	30	31	27	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	22	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 664.68 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)