

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : PRDDH22LEDGV-150L35KEXXXPR22XX.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [LUMCAT] PRDDH22LEDGV-150L-35K-Ex/xx/xx/PR22/xx  
 [LUMINAIRE] 22" Diam. High Bay - Prismatic Refractor Open aperture  
 [LAMP] N/A  
 [TEST] CRT1509031201-001-MOD to: PRDDH22LEDGV-150L-35KEx/xx/xx/PR22/xx  
 [TESTLAB] Intertek  
 [ISSUE DATE] 10/23/2015  
 [UPDATE] 06/01/2016  
 [MANUFAC] Spectrum  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] CCT Output Multipliers: 5000K x 1.07, 4000K X 1.03, 3000K X 0.983, 2700K X 0.967  
 [OTHER] Output Multiplier for Clear Polycarbonate (flat) Lens: x 0.90  
 [OTHER] Scaled from 220L (172W) report

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11741
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	117
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.83 ft (Diameter)
Luminous Width (90-270)	1.83 ft (Diameter)
Luminous Height	1.17 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2830	3384	2980
55	1416	1331	1375
65	841	758	841
75	620	625	625
85	497	535	509

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0.0</b>	9443.467	9443.467	9443.467	9443.467	9443.467	9443.467	9443.467	9443.467	9443.467	9443.467
<b>2.5</b>	9433.184	9429.937	9454.291	9427.298	9474.112	9427.298	9454.291	9429.937	9433.184	9429.937
<b>5.0</b>	9293.148	9432.372	9422.766	9340.571	9350.380	9340.571	9422.766	9432.372	9293.148	9432.372
<b>7.5</b>	9150.881	9431.966	9456.523	9186.126	9155.345	9186.126	9456.523	9431.966	9150.881	9431.966
<b>10.0</b>	9027.960	9538.447	9532.629	9040.543	8983.311	9040.543	9532.629	9538.447	9027.960	9538.447
<b>12.5</b>	8918.029	9726.582	9740.383	8988.520	8940.692	8988.520	9740.383	9726.582	8918.029	9726.582
<b>15.0</b>	9040.205	9737.744	9722.929	9192.621	9140.598	9192.621	9722.929	9737.744	9040.205	9737.744
<b>17.5</b>	9143.777	9621.792	9741.330	9274.883	9147.498	9274.883	9741.330	9621.792	9143.777	9621.792
<b>20.0</b>	8861.541	9131.871	9233.752	8925.674	8870.877	8925.674	9233.752	9131.871	8861.541	9131.871
<b>22.5</b>	8304.241	8398.004	8384.541	8333.804	8257.292	8333.804	8384.541	8398.004	8304.241	8398.004
<b>25.0</b>	7667.248	7434.735	7395.295	7727.119	7721.165	7727.119	7395.295	7434.735	7667.248	7434.735
<b>27.5</b>	7008.067	6823.044	6795.849	7115.698	7092.697	7115.698	6795.849	6823.044	7008.067	6823.044
<b>30.0</b>	6016.724	5926.749	5923.908	6037.086	6039.386	6037.086	5923.908	5926.749	6016.724	5926.749
<b>32.5</b>	4678.268	4867.959	4883.857	4700.660	4694.640	4700.660	4883.857	4867.959	4678.268	4867.959
<b>35.0</b>	3360.784	3784.206	3858.756	3403.472	3380.403	3403.472	3858.756	3784.206	3360.784	3784.206
<b>37.5</b>	2629.014	2811.805	2832.776	2636.050	2620.355	2636.050	2832.776	2811.805	2629.014	2811.805
<b>40.0</b>	2319.380	1892.441	1860.849	2272.364	2300.912	2272.364	1860.849	1892.441	2319.380	1892.441
<b>42.5</b>	1722.775	1415.035	1393.252	1669.129	1728.119	1669.129	1393.252	1415.035	1722.775	1415.035
<b>45.0</b>	887.771	1050.266	1061.767	906.036	934.923	906.036	1061.767	1050.266	887.771	1050.266
<b>47.5</b>	625.424	610.338	612.638	606.144	615.886	606.144	612.638	610.338	625.424	610.338
<b>50.0</b>	549.724	518.673	497.769	528.617	536.803	528.617	497.769	518.673	549.724	518.673
<b>52.5</b>	480.112	455.352	443.040	464.756	469.559	464.756	443.040	455.352	480.112	455.352
<b>55.0</b>	429.713	410.906	403.668	416.792	417.198	416.792	403.668	410.906	429.713	410.906
<b>57.5</b>	373.834	375.728	370.722	369.910	370.384	369.910	370.722	375.728	373.834	375.728
<b>60.0</b>	331.756	331.147	328.711	326.073	324.855	326.073	328.711	331.147	331.756	331.147
<b>62.5</b>	288.663	269.382	271.344	280.003	284.130	280.003	271.344	269.382	288.663	269.382
<b>65.0</b>	238.737	218.848	215.262	235.354	238.669	235.354	215.262	218.848	238.737	218.848
<b>67.5</b>	209.986	195.306	191.652	208.633	212.421	208.633	191.652	195.306	209.986	195.306
<b>70.0</b>	198.012	181.302	181.031	194.629	196.997	194.629	181.031	181.302	198.012	181.302
<b>72.5</b>	176.905	170.681	169.869	178.190	178.934	178.190	169.869	170.681	176.905	170.681
<b>75.0</b>	158.369	157.016	159.654	160.195	159.654	160.195	159.654	157.016	158.369	157.016
<b>77.5</b>	141.930	146.936	149.439	143.892	141.321	143.892	149.439	146.936	141.930	146.936
<b>80.0</b>	128.806	140.238	142.403	130.226	129.617	130.226	142.403	140.238	128.806	140.238
<b>82.5</b>	118.320	132.391	129.956	119.402	118.996	119.402	129.956	132.391	118.320	132.391
<b>85.0</b>	109.119	118.590	117.576	112.773	111.825	112.773	117.576	118.590	109.119	118.590
<b>87.5</b>	103.910	105.940	106.887	106.481	106.413	106.481	106.887	105.940	103.910	105.940
<b>90.0</b>	96.334	97.754	101.746	98.769	96.334	98.769	101.746	97.754	96.334	97.754
<b>92.5</b>	87.471	93.898	93.695	93.357	92.478	93.357	93.695	93.898	87.471	93.898
<b>95.0</b>	88.216	82.601	82.465	92.275	96.942	92.275	82.465	82.601	88.216	82.601
<b>97.5</b>	88.216	80.571	78.880	91.598	97.890	91.598	78.880	80.571	88.216	80.571
<b>100.0</b>	83.412	78.271	79.353	88.757	89.704	88.757	79.353	78.271	83.412	78.271
<b>102.5</b>	86.118	80.030	82.871	88.892	84.292	88.892	82.871	80.030	86.118	80.030
<b>105.0</b>	80.842	80.301	81.383	84.089	83.074	84.089	81.383	80.301	80.842	80.301
<b>107.5</b>	79.556	81.924	81.045	80.774	81.383	80.774	81.045	81.924	79.556	81.924
<b>110.0</b>	79.624	80.504	79.759	78.812	80.301	78.812	79.759	80.504	79.624	80.504
<b>112.5</b>	77.865	77.662	74.889	76.580	75.903	76.580	74.889	77.662	77.865	77.662
<b>115.0</b>	73.536	74.212	72.250	74.280	75.362	74.280	72.250	74.212	73.536	74.212
<b>117.5</b>	71.371	73.536	75.836	72.250	75.768	72.250	75.836	73.536	71.371	73.536
<b>120.0</b>	75.903	75.971	76.512	76.986	79.151	76.986	76.512	75.971	75.903	75.971
<b>122.5</b>	80.774	78.880	80.706	79.692	80.842	79.692	80.706	78.880	80.774	78.880
<b>125.0</b>	85.239	82.127	82.398	84.901	83.886	84.901	82.398	82.127	85.239	82.127
<b>127.5</b>	86.592	85.036	85.577	90.719	90.110	90.719	85.577	85.036	86.592	85.036
<b>130.0</b>	91.260	90.719	91.463	95.184	96.063	95.184	91.463	90.719	91.260	90.719
<b>132.5</b>	101.272	95.725	95.589	101.001	103.031	101.001	95.589	95.725	101.272	95.725

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**CANDELA TABULATION - (Cont.)**

135.0	104.316	98.837	100.122	106.278	107.158	106.278	100.122	98.837	104.316	98.837
137.5	108.511	104.519	103.775	112.570	111.893	112.570	103.775	104.519	108.511	104.519
140.0	111.284	110.067	111.014	117.170	117.102	117.170	111.014	110.067	111.284	110.067
142.5	118.658	117.643	117.779	120.552	119.402	120.552	117.779	117.643	118.658	117.643
145.0	122.920	128.061	129.753	125.085	125.491	125.085	129.753	128.061	122.920	128.061
147.5	129.550	136.653	140.103	132.932	133.406	132.932	140.103	136.653	129.550	136.653
150.0	141.727	152.754	151.874	147.071	144.162	147.071	151.874	152.754	141.727	152.754
152.5	158.842	164.525	168.854	166.757	162.292	166.757	168.854	164.525	158.842	164.525
155.0	173.793	177.378	178.258	179.881	175.755	179.881	178.258	177.378	173.793	177.378
157.5	183.670	182.114	187.458	187.932	185.699	187.932	187.458	182.114	183.670	182.114
160.0	183.264	186.240	189.758	188.405	187.255	188.405	189.758	186.240	183.264	186.240
162.5	182.587	187.458	191.450	186.240	185.835	186.240	191.450	187.458	182.587	187.458
165.0	183.534	184.346	188.676	184.955	185.970	184.955	188.676	184.346	183.534	184.346
167.5	189.217	188.338	187.729	187.593	189.826	187.593	187.729	188.338	189.217	188.338
170.0	192.803	190.976	191.652	191.991	193.073	191.991	191.652	190.976	192.803	190.976
172.5	195.644	195.779	195.847	197.267	195.982	197.267	195.847	195.779	195.644	195.779
175.0	207.618	211.339	214.045	211.203	210.662	211.203	214.045	211.339	207.618	211.339
177.5	232.242	235.016	240.022	239.955	236.234	239.955	240.022	235.016	232.242	235.016
180.0	248.614	248.614	248.614	248.614	248.614	248.614	248.614	248.614	248.614	248.614

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	9443.467	9443.467	9443.467	9443.467	9443.467	9443.467	9443.467
2.5	9454.291	9427.298	9474.112	9427.298	9454.291	9429.937	9433.184
5.0	9422.766	9340.571	9350.380	9340.571	9422.766	9432.372	9293.148
7.5	9456.523	9186.126	9155.345	9186.126	9456.523	9431.966	9150.881
10.0	9532.629	9040.543	8983.311	9040.543	9532.629	9538.447	9027.960
12.5	9740.383	8988.520	8940.692	8988.520	9740.383	9726.582	8918.029
15.0	9722.929	9192.621	9140.598	9192.621	9722.929	9737.744	9040.205
17.5	9741.330	9274.883	9147.498	9274.883	9741.330	9621.792	9143.777
20.0	9233.752	8925.674	8870.877	8925.674	9233.752	9131.871	8861.541
22.5	8384.541	8333.804	8257.292	8333.804	8384.541	8398.004	8304.241
25.0	7395.295	7727.119	7721.165	7727.119	7395.295	7434.735	7667.248
27.5	6795.849	7115.698	7092.697	7115.698	6795.849	6823.044	7008.067
30.0	5923.908	6037.086	6039.386	6037.086	5923.908	5926.749	6016.724
32.5	4883.857	4700.660	4694.640	4700.660	4883.857	4867.959	4678.268
35.0	3858.756	3403.472	3380.403	3403.472	3858.756	3784.206	3360.784
37.5	2832.776	2636.050	2620.355	2636.050	2832.776	2811.805	2629.014
40.0	1860.849	2272.364	2300.912	2272.364	1860.849	1892.441	2319.380
42.5	1393.252	1669.129	1728.119	1669.129	1393.252	1415.035	1722.775
45.0	1061.767	906.036	934.923	906.036	1061.767	1050.266	887.771
47.5	612.638	606.144	615.886	606.144	612.638	610.338	625.424
50.0	497.769	528.617	536.803	528.617	497.769	518.673	549.724
52.5	443.040	464.756	469.559	464.756	443.040	455.352	480.112
55.0	403.668	416.792	417.198	416.792	403.668	410.906	429.713
57.5	370.722	369.910	370.384	369.910	370.722	375.728	373.834
60.0	328.711	326.073	324.855	326.073	328.711	331.147	331.756
62.5	271.344	280.003	284.130	280.003	271.344	269.382	288.663
65.0	215.262	235.354	238.669	235.354	215.262	218.848	238.737
67.5	191.652	208.633	212.421	208.633	191.652	195.306	209.986
70.0	181.031	194.629	196.997	194.629	181.031	181.302	198.012
72.5	169.869	178.190	178.934	178.190	169.869	170.681	176.905
75.0	159.654	160.195	159.654	160.195	159.654	157.016	158.369
77.5	149.439	143.892	141.321	143.892	149.439	146.936	141.930
80.0	142.403	130.226	129.617	130.226	142.403	140.238	128.806

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**CANDELA TABULATION - (Cont.)**

82.5	129.956	119.402	118.996	119.402	129.956	132.391	118.320
85.0	117.576	112.773	111.825	112.773	117.576	118.590	109.119
87.5	106.887	106.481	106.413	106.481	106.887	105.940	103.910
90.0	101.746	98.769	96.334	98.769	101.746	97.754	96.334
92.5	93.695	93.357	92.478	93.357	93.695	93.898	87.471
95.0	82.465	92.275	96.942	92.275	82.465	82.601	88.216
97.5	78.880	91.598	97.890	91.598	78.880	80.571	88.216
100.0	79.353	88.757	89.704	88.757	79.353	78.271	83.412
102.5	82.871	88.892	84.292	88.892	82.871	80.030	86.118
105.0	81.383	84.089	83.074	84.089	81.383	80.301	80.842
107.5	81.045	80.774	81.383	80.774	81.045	81.924	79.556
110.0	79.759	78.812	80.301	78.812	79.759	80.504	79.624
112.5	74.889	76.580	75.903	76.580	74.889	77.662	77.865
115.0	72.250	74.280	75.362	74.280	72.250	74.212	73.536
117.5	75.836	72.250	75.768	72.250	75.836	73.536	71.371
120.0	76.512	76.986	79.151	76.986	76.512	75.971	75.903
122.5	80.706	79.692	80.842	79.692	80.706	78.880	80.774
125.0	82.398	84.901	83.886	84.901	82.398	82.127	85.239
127.5	85.577	90.719	90.110	90.719	85.577	85.036	86.592
130.0	91.463	95.184	96.063	95.184	91.463	90.719	91.260
132.5	95.589	101.001	103.031	101.001	95.589	95.725	101.272
135.0	100.122	106.278	107.158	106.278	100.122	98.837	104.316
137.5	103.775	112.570	111.893	112.570	103.775	104.519	108.511
140.0	111.014	117.170	117.102	117.170	111.014	110.067	111.284
142.5	117.779	120.552	119.402	120.552	117.779	117.643	118.658
145.0	129.753	125.085	125.491	125.085	129.753	128.061	122.920
147.5	140.103	132.932	133.406	132.932	140.103	136.653	129.550
150.0	151.874	147.071	144.162	147.071	151.874	152.754	141.727
152.5	168.854	166.757	162.292	166.757	168.854	164.525	158.842
155.0	178.258	179.881	175.755	179.881	178.258	177.378	173.793
157.5	187.458	187.932	185.699	187.932	187.458	182.114	183.670
160.0	189.758	188.405	187.255	188.405	189.758	186.240	183.264
162.5	191.450	186.240	185.835	186.240	191.450	187.458	182.587
165.0	188.676	184.955	185.970	184.955	188.676	184.346	183.534
167.5	187.729	187.593	189.826	187.593	187.729	188.338	189.217
170.0	191.652	191.991	193.073	191.991	191.652	190.976	192.803
172.5	195.847	197.267	195.982	197.267	195.847	195.779	195.644
175.0	214.045	211.203	210.662	211.203	214.045	211.339	207.618
177.5	240.022	239.955	236.234	239.955	240.022	235.016	232.242
180.0	248.614	248.614	248.614	248.614	248.614	248.614	248.614

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3540.18	N.A.	30.20
0-30	7014.13	N.A.	59.70
0-40	9344.11	N.A.	79.60
0-60	10560.61	N.A.	89.90
0-80	10968.18	N.A.	93.40
0-90	11094.46	N.A.	94.50
10-90	10202.89	N.A.	86.90
20-40	5803.93	N.A.	49.40
20-50	6647.32	N.A.	56.60
40-70	1454.84	N.A.	12.40
60-80	407.56	N.A.	3.50
70-80	169.23	N.A.	1.40
80-90	126.28	N.A.	1.10
90-110	184.41	N.A.	1.60
90-120	259.46	N.A.	2.20
90-130	334.62	N.A.	2.80
90-150	494.13	N.A.	4.20
90-180	646.99	N.A.	5.50
110-180	462.59	N.A.	3.90
0-180	11741.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	891.57
10-20	2648.61
20-30	3473.95
30-40	2329.97
40-50	843.39
50-60	373.11
60-70	238.33
70-80	169.23
80-90	126.28
90-100	97.44
100-110	86.96
110-120	75.05
120-130	75.16
130-140	79.57
140-150	79.94
150-160	80.04
160-170	53.17
170-180	19.65

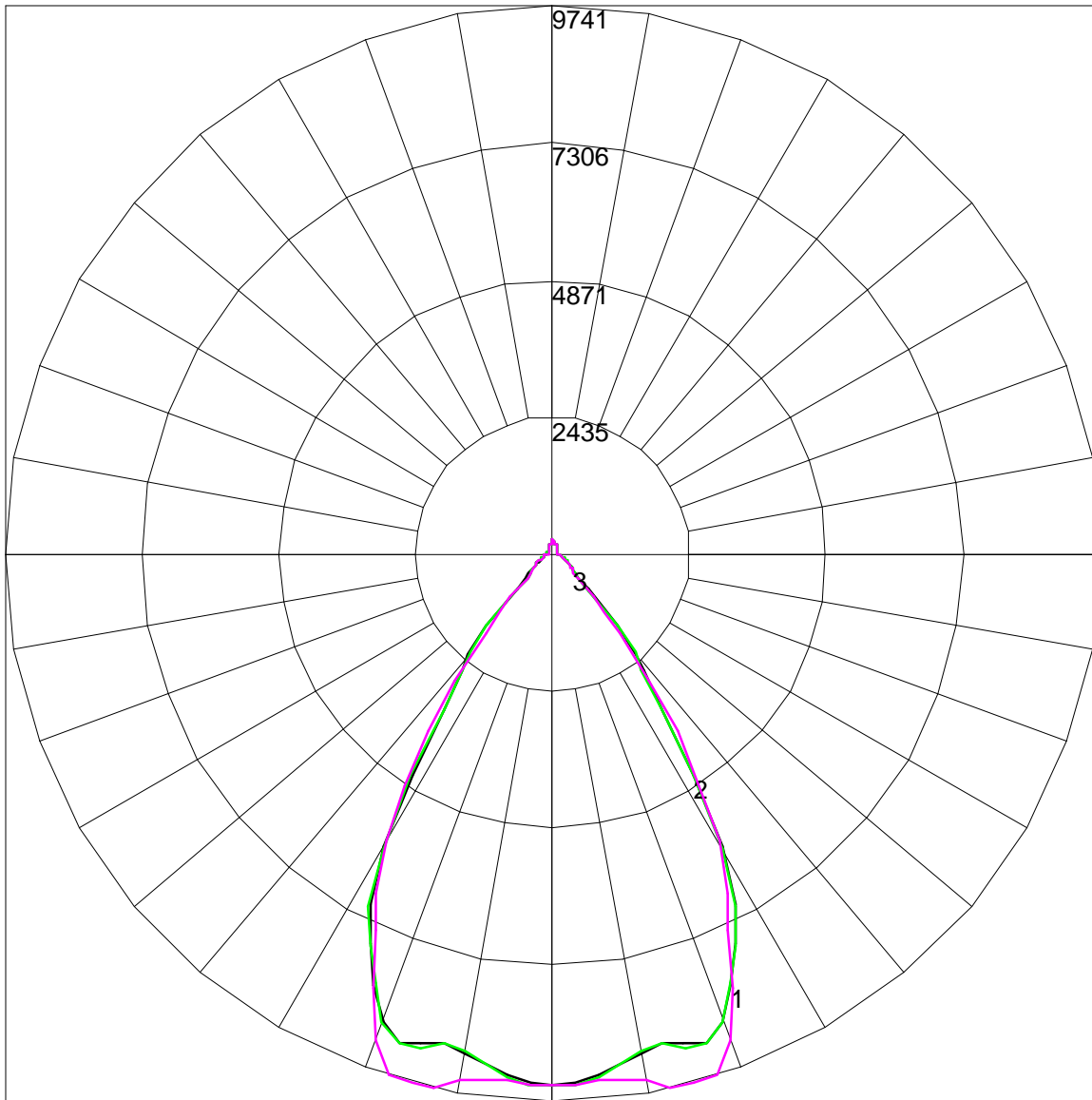
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : PRDDH22LEDGV-150L35KEXXXPR22XX.IES**

**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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	111	108	105	102	108	105	102	100	100	98	96	95	93	92	91	89	88	86
2	104	99	94	90	102	97	92	89	92	89	86	88	86	83	85	83	81	79
3	98	91	85	81	96	89	84	80	86	81	78	82	79	76	79	76	74	72
4	93	84	78	73	90	83	77	72	80	75	71	77	73	69	74	71	68	66
5	87	78	72	67	85	77	71	66	74	69	65	72	67	64	70	66	63	61
6	82	73	66	61	81	72	65	61	69	64	60	67	63	59	66	61	58	57
7	78	68	61	57	76	67	61	56	65	59	55	63	58	55	62	57	54	53
8	74	63	57	52	72	63	56	52	61	55	52	60	55	51	58	54	50	49
9	70	60	53	49	69	59	53	49	57	52	48	56	51	48	55	50	47	46
10	66	56	50	46	65	55	49	45	54	49	45	53	48	45	52	47	44	43

POLAR GRAPH



Maximum Candela = 9741.33 Located At Horizontal Angle = 45, Vertical Angle = 17.5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)