

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : PRDDH22LEDGV-150L35KEXXXPR22CNFRXX.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[LUMCAT] PRDDH22LEDGV-150L-35K-Ex/xx/xx/PR22/CNFR/XX

[LUMINAIRE] LED High Bay - Prismatic Refractor Conical Lens, inside frosted

[LAMP] N/A

[TEST] CRT1509031201-001-22-MOD to: PRDDH22LEDGV-150L-35KEx/xx/xx/PR22/CNFR/XX

[TESTLAB] Intertek

[ISSUEDATE] 10/27/2015

[UPDATE] 02/04/2016

[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] Scaled from 220L (172W) report

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11008
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	117
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.87 ft (Diameter)
Luminous Width (90-270)	1.87 ft (Diameter)
Luminous Height	1.21 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5724	5827	5744
55	2172	1984	2144
65	955	1014	974
75	708	698	702
85	579	543	588

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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>	5009.144	5009.144	5009.144	5009.144	5009.144	5009.144	5009.144	5009.144	5009.144	5009.144
<b>2.5</b>	4977.349	4992.164	4994.667	4997.982	4981.205	4997.982	4994.667	4992.164	4977.349	4992.164
<b>5.0</b>	4931.956	4937.165	4935.406	4922.147	4914.434	4922.147	4935.406	4937.165	4931.956	4937.165
<b>7.5</b>	5047.096	5049.464	5042.428	4996.020	5020.239	4996.020	5042.428	5049.464	5047.096	5049.464
<b>10.0</b>	5224.001	5322.499	5390.623	5224.339	5174.752	5224.339	5390.623	5322.499	5224.001	5322.499
<b>12.5</b>	5440.007	5513.543	5538.979	5427.289	5382.572	5427.289	5538.979	5513.543	5440.007	5513.543
<b>15.0</b>	5718.252	5599.661	5584.846	5618.333	5707.495	5618.333	5584.846	5599.661	5718.252	5599.661
<b>17.5</b>	5909.769	5636.192	5562.048	5778.325	5935.814	5778.325	5562.048	5636.192	5909.769	5636.192
<b>20.0</b>	5876.350	5691.259	5540.129	5828.251	5949.953	5828.251	5540.129	5691.259	5876.350	5691.259
<b>22.5</b>	5660.208	5715.681	5692.342	5631.863	5712.840	5631.863	5692.342	5715.681	5660.208	5715.681
<b>25.0</b>	5455.026	5676.579	5802.138	5526.735	5448.464	5526.735	5802.138	5676.579	5455.026	5676.579
<b>27.5</b>	5451.508	5646.002	5640.116	5476.471	5406.859	5476.471	5640.116	5646.002	5451.508	5646.002
<b>30.0</b>	5219.671	5291.245	5225.286	5230.766	5144.647	5230.766	5225.286	5291.245	5219.671	5291.245
<b>32.5</b>	4723.120	4698.022	4583.897	4675.630	4627.260	4675.630	4583.897	4698.022	4723.120	4698.022
<b>35.0</b>	4187.873	4005.015	3931.142	4034.376	4146.472	4034.376	3931.142	4005.015	4187.873	4005.015
<b>37.5</b>	3543.169	3481.675	3441.153	3474.031	3499.467	3474.031	3441.153	3481.675	3543.169	3481.675
<b>40.0</b>	2783.798	3018.272	3073.543	2900.088	2829.055	2900.088	3073.543	3018.272	2783.798	3018.272
<b>42.5</b>	2339.540	2505.283	2565.762	2397.584	2375.259	2397.584	2565.762	2505.283	2339.540	2505.283
<b>45.0</b>	1885.338	1955.897	1919.366	1918.216	1892.035	1918.216	1919.366	1955.897	1885.338	1955.897
<b>47.5</b>	1401.573	1519.013	1506.633	1450.484	1428.836	1450.484	1506.633	1519.013	1401.573	1519.013
<b>50.0</b>	1091.397	1153.500	1164.865	1127.861	1097.418	1127.861	1164.865	1153.500	1091.397	1153.500
<b>52.5</b>	869.167	853.202	851.172	872.482	859.832	872.482	851.172	853.202	869.167	853.202
<b>55.0</b>	692.668	648.561	632.730	678.530	683.739	678.530	632.730	648.561	692.668	648.561
<b>57.5</b>	557.774	522.190	505.616	538.562	551.348	538.562	505.616	522.190	557.774	522.190
<b>60.0</b>	451.902	436.410	422.204	440.402	450.143	440.402	422.204	436.410	451.902	436.410
<b>62.5</b>	360.845	360.439	364.160	357.327	363.078	357.327	364.160	360.439	360.845	360.439
<b>65.0</b>	285.280	299.825	302.734	294.345	290.760	294.345	302.734	299.825	285.280	299.825
<b>67.5</b>	249.087	261.873	265.188	255.649	251.658	255.649	265.188	261.873	249.087	261.873
<b>70.0</b>	226.560	234.813	238.466	230.551	227.642	230.551	238.466	234.813	226.560	234.813
<b>72.5</b>	206.333	209.174	212.015	207.144	206.062	207.144	212.015	209.174	206.333	209.174
<b>75.0</b>	190.705	185.158	188.067	186.173	189.014	186.173	188.067	185.158	190.705	185.158
<b>77.5</b>	177.649	164.119	166.554	166.960	175.349	166.960	166.554	164.119	177.649	164.119
<b>80.0</b>	163.510	148.830	148.965	153.295	162.495	153.295	148.965	148.830	163.510	148.830
<b>82.5</b>	147.883	139.697	134.962	143.892	149.101	143.892	134.962	139.697	147.883	139.697
<b>85.0</b>	134.285	130.970	125.829	134.826	136.382	134.826	125.829	130.970	134.285	130.970
<b>87.5</b>	131.038	126.235	123.055	126.708	131.985	126.708	123.055	126.235	131.038	126.235
<b>90.0</b>	133.406	126.370	125.355	129.279	131.850	129.279	125.355	126.370	133.406	126.370
<b>92.5</b>	132.391	134.082	131.850	135.909	129.956	135.909	131.850	134.082	132.391	134.082
<b>95.0</b>	127.182	137.059	140.171	132.594	124.882	132.594	140.171	137.059	127.182	137.059
<b>97.5</b>	124.747	134.691	143.283	130.429	124.950	130.429	143.283	134.691	124.747	134.691
<b>100.0</b>	130.091	138.074	142.200	134.421	130.767	134.421	142.200	138.074	130.091	138.074
<b>102.5</b>	134.894	140.644	141.862	139.359	135.909	139.359	141.862	140.644	134.894	140.644
<b>105.0</b>	139.021	142.674	144.365	141.727	139.021	141.727	144.365	142.674	139.021	142.674
<b>107.5</b>	141.524	144.230	145.042	143.689	141.253	143.689	145.042	144.230	141.524	144.230
<b>110.0</b>	143.080	145.177	144.568	144.297	143.689	144.297	144.568	145.177	143.080	145.177
<b>112.5</b>	144.027	145.921	145.448	144.771	144.230	144.771	145.448	145.921	144.027	145.921
<b>115.0</b>	147.003	148.898	148.762	146.733	146.395	146.733	148.762	148.898	147.003	148.898
<b>117.5</b>	151.198	153.295	152.145	150.589	150.454	150.589	152.145	153.295	151.198	153.295
<b>120.0</b>	155.257	157.963	155.866	154.310	153.971	154.310	155.866	157.963	155.257	157.963
<b>122.5</b>	157.827	161.413	159.383	157.151	156.677	157.151	159.383	161.413	157.827	161.413
<b>125.0</b>	158.910	163.239	161.954	158.910	157.692	158.910	161.954	163.239	158.910	163.239
<b>127.5</b>	159.654	164.322	164.998	160.533	158.504	160.533	164.998	164.322	159.654	164.322
<b>130.0</b>	160.736	166.554	169.463	163.037	160.128	163.037	169.463	166.554	160.736	166.554
<b>132.5</b>	161.886	169.193	172.981	165.878	162.089	165.878	172.981	169.193	161.886	169.193

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**CANDELA TABULATION - (Cont.)**

135.0	163.442	171.087	175.416	168.787	164.998	168.787	175.416	171.087	163.442	171.087
137.5	166.081	173.522	177.108	172.169	168.719	172.169	177.108	173.522	166.081	173.522
140.0	169.937	175.890	178.799	175.619	173.116	175.619	178.799	175.890	169.937	175.890
142.5	176.093	178.258	180.084	179.949	179.273	179.949	180.084	178.258	176.093	178.258
145.0	185.226	182.452	182.993	186.714	187.458	186.714	182.993	182.452	185.226	182.452
147.5	193.885	189.623	188.946	194.832	196.726	194.832	188.946	189.623	193.885	189.623
150.0	206.197	202.882	203.153	208.362	210.527	208.362	203.153	202.882	206.197	202.882
152.5	223.786	221.824	222.501	226.019	226.830	226.019	222.501	221.824	223.786	221.824
155.0	235.084	238.331	241.037	239.955	237.857	239.955	241.037	238.331	235.084	238.331
157.5	239.955	247.396	251.590	248.411	246.111	248.411	251.590	247.396	239.955	247.396
160.0	245.772	248.817	251.929	250.440	251.049	250.440	251.929	248.817	245.772	248.817
162.5	249.696	245.975	246.990	245.975	250.440	245.975	246.990	245.975	249.696	245.975
165.0	249.020	242.187	241.916	241.984	247.125	241.984	241.916	242.187	249.020	242.187
167.5	246.990	240.766	239.346	240.631	244.555	240.631	239.346	240.766	246.990	240.766
170.0	242.255	238.737	236.978	238.602	240.902	238.602	236.978	238.737	242.255	238.737
172.5	238.669	238.466	236.031	237.587	238.737	237.587	236.031	238.466	238.669	238.466
175.0	250.237	253.417	253.146	252.943	251.117	252.943	253.146	253.417	250.237	253.417
177.5	278.177	285.551	288.257	285.348	281.086	285.348	288.257	285.551	278.177	285.551
180.0	298.337	298.337	298.337	298.337	298.337	298.337	298.337	298.337	298.337	298.337

**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	5009.144	5009.144	5009.144	5009.144	5009.144	5009.144	5009.144
2.5	4994.667	4997.982	4981.205	4997.982	4994.667	4992.164	4977.349
5.0	4935.406	4922.147	4914.434	4922.147	4935.406	4937.165	4931.956
7.5	5042.428	4996.020	5020.239	4996.020	5042.428	5049.464	5047.096
10.0	5390.623	5224.339	5174.752	5224.339	5390.623	5322.499	5224.001
12.5	5538.979	5427.289	5382.572	5427.289	5538.979	5513.543	5440.007
15.0	5584.846	5618.333	5707.495	5618.333	5584.846	5599.661	5718.252
17.5	5562.048	5778.325	5935.814	5778.325	5562.048	5636.192	5909.769
20.0	5540.129	5828.251	5949.953	5828.251	5540.129	5691.259	5876.350
22.5	5692.342	5631.863	5712.840	5631.863	5692.342	5715.681	5660.208
25.0	5802.138	5526.735	5448.464	5526.735	5802.138	5676.579	5455.026
27.5	5640.116	5476.471	5406.859	5476.471	5640.116	5646.002	5451.508
30.0	5225.286	5230.766	5144.647	5230.766	5225.286	5291.245	5219.671
32.5	4583.897	4675.630	4627.260	4675.630	4583.897	4698.022	4723.120
35.0	3931.142	4034.376	4146.472	4034.376	3931.142	4005.015	4187.873
37.5	3441.153	3474.031	3499.467	3474.031	3441.153	3481.675	3543.169
40.0	3073.543	2900.088	2829.055	2900.088	3073.543	3018.272	2783.798
42.5	2565.762	2397.584	2375.259	2397.584	2565.762	2505.283	2339.540
45.0	1919.366	1918.216	1892.035	1918.216	1919.366	1955.897	1885.338
47.5	1506.633	1450.484	1428.836	1450.484	1506.633	1519.013	1401.573
50.0	1164.865	1127.861	1097.418	1127.861	1164.865	1153.500	1091.397
52.5	851.172	872.482	859.832	872.482	851.172	853.202	869.167
55.0	632.730	678.530	683.739	678.530	632.730	648.561	692.668
57.5	505.616	538.562	551.348	538.562	505.616	522.190	557.774
60.0	422.204	440.402	450.143	440.402	422.204	436.410	451.902
62.5	364.160	357.327	363.078	357.327	364.160	360.439	360.845
65.0	302.734	294.345	290.760	294.345	302.734	299.825	285.280
67.5	265.188	255.649	251.658	255.649	265.188	261.873	249.087
70.0	238.466	230.551	227.642	230.551	238.466	234.813	226.560
72.5	212.015	207.144	206.062	207.144	212.015	209.174	206.333
75.0	188.067	186.173	189.014	186.173	188.067	185.158	190.705
77.5	166.554	166.960	175.349	166.960	166.554	164.119	177.649
80.0	148.965	153.295	162.495	153.295	148.965	148.830	163.510

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**CANDELA TABULATION - (Cont.)**

82.5	134.962	143.892	149.101	143.892	134.962	139.697	147.883
85.0	125.829	134.826	136.382	134.826	125.829	130.970	134.285
87.5	123.055	126.708	131.985	126.708	123.055	126.235	131.038
90.0	125.355	129.279	131.850	129.279	125.355	126.370	133.406
92.5	131.850	135.909	129.956	135.909	131.850	134.082	132.391
95.0	140.171	132.594	124.882	132.594	140.171	137.059	127.182
97.5	143.283	130.429	124.950	130.429	143.283	134.691	124.747
100.0	142.200	134.421	130.767	134.421	142.200	138.074	130.091
102.5	141.862	139.359	135.909	139.359	141.862	140.644	134.894
105.0	144.365	141.727	139.021	141.727	144.365	142.674	139.021
107.5	145.042	143.689	141.253	143.689	145.042	144.230	141.524
110.0	144.568	144.297	143.689	144.297	144.568	145.177	143.080
112.5	145.448	144.771	144.230	144.771	145.448	145.921	144.027
115.0	148.762	146.733	146.395	146.733	148.762	148.898	147.003
117.5	152.145	150.589	150.454	150.589	152.145	153.295	151.198
120.0	155.866	154.310	153.971	154.310	155.866	157.963	155.257
122.5	159.383	157.151	156.677	157.151	159.383	161.413	157.827
125.0	161.954	158.910	157.692	158.910	161.954	163.239	158.910
127.5	164.998	160.533	158.504	160.533	164.998	164.322	159.654
130.0	169.463	163.037	160.128	163.037	169.463	166.554	160.736
132.5	172.981	165.878	162.089	165.878	172.981	169.193	161.886
135.0	175.416	168.787	164.998	168.787	175.416	171.087	163.442
137.5	177.108	172.169	168.719	172.169	177.108	173.522	166.081
140.0	178.799	175.619	173.116	175.619	178.799	175.890	169.937
142.5	180.084	179.949	179.273	179.949	180.084	178.258	176.093
145.0	182.993	186.714	187.458	186.714	182.993	182.452	185.226
147.5	188.946	194.832	196.726	194.832	188.946	189.623	193.885
150.0	203.153	208.362	210.527	208.362	203.153	202.882	206.197
152.5	222.501	226.019	226.830	226.019	222.501	221.824	223.786
155.0	241.037	239.955	237.857	239.955	241.037	238.331	235.084
157.5	251.590	248.411	246.111	248.411	251.590	247.396	239.955
160.0	251.929	250.440	251.049	250.440	251.929	248.817	245.772
162.5	246.990	245.975	250.440	245.975	246.990	245.975	249.696
165.0	241.916	241.984	247.125	241.984	241.916	242.187	249.020
167.5	239.346	240.631	244.555	240.631	239.346	240.766	246.990
170.0	236.978	238.602	240.902	238.602	236.978	238.737	242.255
172.5	236.031	237.587	238.737	237.587	236.031	238.466	238.669
175.0	253.146	252.943	251.117	252.943	253.146	253.417	250.237
177.5	288.257	285.348	281.086	285.348	288.257	285.551	278.177
180.0	298.337	298.337	298.337	298.337	298.337	298.337	298.337

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2072.6	N.A.	18.80
0-30	4651.15	N.A.	42.30
0-40	7176.95	N.A.	65.20
0-60	9316.01	N.A.	84.60
0-80	9825.1	N.A.	89.30
0-90	9972.73	N.A.	90.60
10-90	9490.2	N.A.	86.20
20-40	5104.35	N.A.	46.40
20-50	6612.54	N.A.	60.10
40-70	2448.09	N.A.	22.20
60-80	509.10	N.A.	4.60
70-80	200.06	N.A.	1.80
80-90	147.62	N.A.	1.30
90-110	294.79	N.A.	2.70
90-120	442.26	N.A.	4.00
90-130	586.16	N.A.	5.30
90-150	834.59	N.A.	7.60
90-180	1035.75	N.A.	9.40
110-180	740.96	N.A.	6.70
0-180	11008.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	482.53
10-20	1590.07
20-30	2578.55
30-40	2525.81
40-50	1508.19
50-60	630.86
60-70	309.04
70-80	200.06
80-90	147.62
90-100	145.34
100-110	149.44
110-120	147.47
120-130	143.90
130-140	131.57
140-150	116.87
150-160	107.96
160-170	69.39
170-180	23.81

# IES INDOOR REPORT

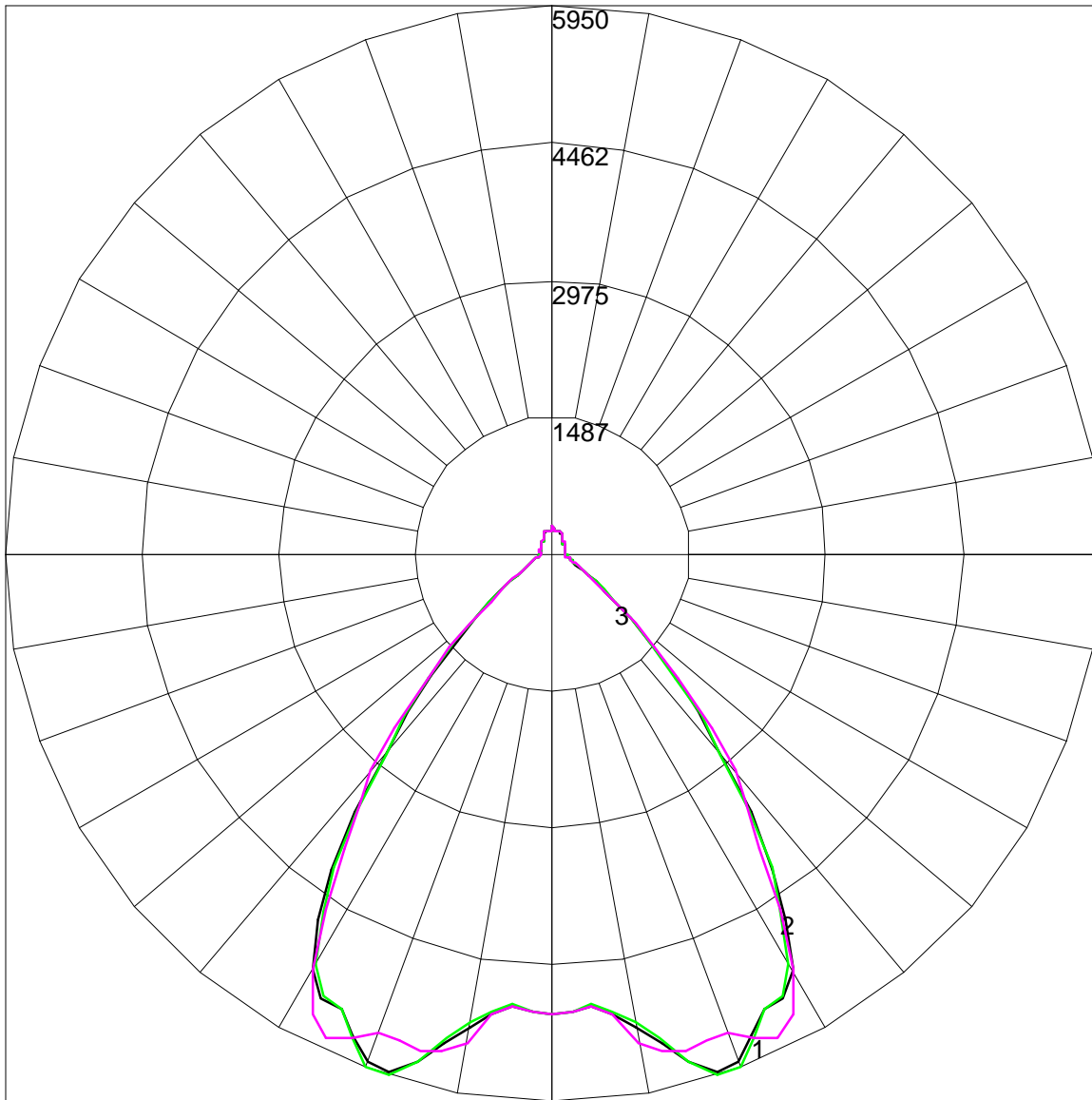
PHOTOMETRIC FILENAME : PRDDH22LEDGV-150L35KEXXXPR22CNFRXX.IES

## 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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91
1	109	105	102	99	105	102	99	97	96	94	92	91	89	87	86	85	83	81
2	102	95	90	85	98	93	88	84	88	84	80	83	80	77	79	77	74	72
3	95	86	80	75	92	84	78	74	80	75	71	76	72	69	73	69	67	64
4	88	79	72	66	85	77	70	65	73	68	63	70	65	62	67	63	60	58
5	82	72	64	59	80	70	63	58	67	61	57	64	59	56	62	58	54	52
6	77	66	58	53	75	64	58	52	62	56	51	59	54	50	57	53	49	47
7	72	61	53	48	70	59	52	48	57	51	47	55	50	46	53	48	45	43
8	67	56	49	44	66	55	48	43	53	47	42	51	46	42	49	45	41	39
9	63	52	45	40	62	51	44	40	49	43	39	47	42	38	46	41	38	36
10	60	48	41	37	58	47	41	36	46	40	36	44	39	35	43	38	35	33

POLAR GRAPH



Maximum Candela = 5949.953 Located At Horizontal Angle = 90, Vertical Angle = 20

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 3 - Vertical Plane Through Horizontal Angles (45 - 225)