



8165 E Kaiser Blvd. Anaheim, CA 92808  
p. 714.282.2270  
f. 714.676.5558

Test #: L081404201

Date: 8/21/2014



NVLAP LAB CODE 200927-0

**Test Report:** L081404201

**Report Prepared For:** Prudential Lighting  
1737 East 22nd Street

**Model Number:** P43P-REG3-1T5-AWG-D1S

**Test:** Electrical and Photometric tests

**Standards Used:** Appropriate part or all test guidelines were used for test performed:  
*ANSI C82.77:2002:* Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

**Description of Sample:** Client submitted the sample. Catalog number is P43P-REG3-1T5-AWG-D1S. Received in working and undamaged condition. No modifications were necessary.

**Testing Condition:** Fixture is tested with no special conditions.

**Sample Arrival Date:** 8/14/14

**Date of Tests:** 8/19/14 - 8/19/14

**Seasoning of Sample:** No seasoning was performed.

#### Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S1	01/04/15
Xitron Power Analysis System	2503AH	MT-EL01	01/09/15
BK Precision DC Power Supply	1747	PSDC-04	01/08/15
Fluke Digital Thermometer	52k/J	MT-TP02-GC	01/04/15
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

### Test Summary

<b>Manufacturer:</b>	Prudential Lighting
<b>Model Number:</b>	P43P-REG3-1T5-AWG-D1S
<b>Driver/Ballast Model Number:</b>	PHILIPS ADVANCE ICN-2S28-N
<b>Total Lumens:</b>	1745.17
<b>Input Voltage (VAC/60Hz):</b>	120.00
<b>Input Current (Amp):</b>	0.29
<b>Input Power (W):</b>	34.42
<b>Input Power Factor:</b>	0.99
<b>Current ATHD @ 120V(%):</b>	6%
<b>Current ATHD @ 277V(%):</b>	N/A
<b>Efficacy:</b>	51
<b>Ambient Temperature (°F):</b>	77.0
<b>Stabilization Time (Hours):</b>	1:10
<b>Total Operating Time (Hours):</b>	3:10
<b>Off State Power(W):</b>	0.00

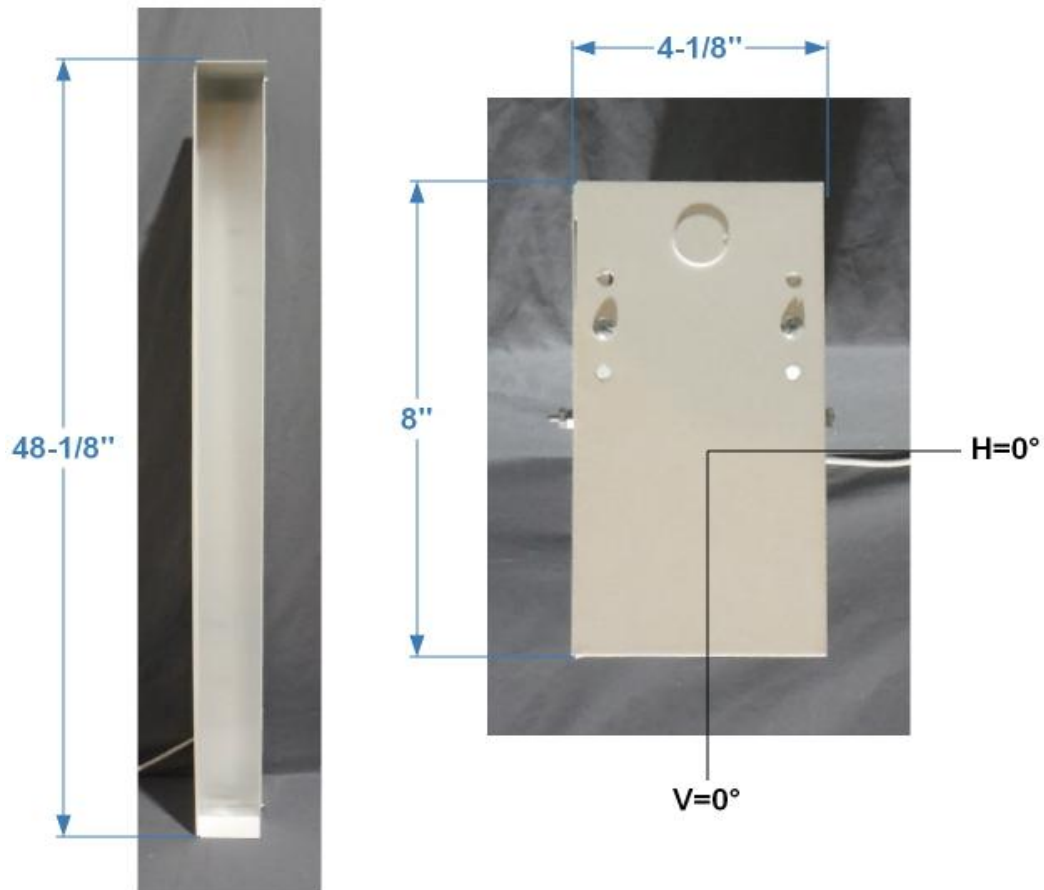


FIG.1 LUMINAIRE



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## Test Methods

### Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

### Disclaimers:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

Report Prepared by : Wilson Khounlavong

Test Report Released by:

Jeff Ahn  
Engineering Manager

Test Report Reviewed by:

Steve Kang  
Quality Assurance

*\*Attached are photometric data reports. Total number of pages: 10*



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## Photometric Test Report

### IES INDOOR REPORT

PHOTOMETRIC FILENAME : L081404201.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L081404201  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUEDATE] 8/21/2014  
[MANUFAC] PRUDENTIAL LIGHTING  
[LUMCAT] P43P-REG3-1T5-AWG-D1S  
[LUMINAIRE] 4-1/8"L. X 48-1/8"W. X 8"H. LUMINAIRE  
[MORE] PRISMATIC LENS  
[BALLASTCAT] PHILIPS ADVANCE ICN-2S28-N  
[BALLAST] INPUT: 120-277VAC, 0.59-0.13A, 50/60HZ  
[LAMPPOSITION] 0,0  
[LAMPCAT] SYLVANIA PENTRON FP28/841/ECO  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[\_INPUT] 120VAC, 34.42W

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1745
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	34.42
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.31 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5200	5286	7089
55	5035	4869	5156
65	5561	4904	3653
75	7037	5629	2379
85	14130	10448	1294

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : L081404201.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>
<b>0</b>	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131
<b>5</b>	1144	1145	1148	1145	1149	1146	1144	1153	1148	1146
<b>10</b>	1042	1048	1050	1052	1062	1066	1076	1084	1098	1107
<b>15</b>	887	884	895	898	909	930	940	967	989	1008
<b>20</b>	726	728	732	742	748	770	785	809	838	870
<b>25</b>	640	642	644	646	649	656	669	679	702	731
<b>30</b>	590	593	589	591	593	593	599	603	611	627
<b>35</b>	535	537	538	539	540	543	542	545	549	555
<b>40</b>	481	483	480	482	485	486	486	486	490	492
<b>45</b>	424	424	425	425	426	428	427	429	431	431
<b>50</b>	376	379	376	377	376	376	374	375	376	375
<b>55</b>	333	334	335	333	333	331	330	329	326	322
<b>60</b>	302	303	301	299	298	295	291	288	287	282
<b>65</b>	271	272	271	268	265	260	256	250	245	239
<b>70</b>	238	240	239	236	233	229	223	217	205	202
<b>75</b>	210	209	208	205	203	197	191	184	176	168
<b>80</b>	178	179	177	174	171	166	160	153	145	136
<b>85</b>	142	142	141	139	136	132	127	121	113	105
<b>90</b>	98	98	97	96	93	90	86	82	77	71
<b>95</b>	76	76	75	74	72	69	66	62	57	52
<b>100</b>	62	61	61	59	58	55	53	49	45	41
<b>105</b>	49	50	49	48	46	44	41	38	34	30
<b>110</b>	38	38	38	37	35	33	30	29	24	19
<b>115</b>	28	28	27	27	25	23	19	18	15	12
<b>120</b>	18	18	17	17	15	14	12	9	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0
<b>135</b>	0	0	0	0	0	0	0	0	0	0
<b>140</b>	0	0	0	0	0	0	0	0	0	0
<b>145</b>	0	0	0	0	0	0	0	0	0	0
<b>150</b>	0	0	0	0	0	0	0	0	0	0
<b>155</b>	0	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0	0
<b>180</b>	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles  
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>
<b>0</b>	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131
<b>5</b>	1155	1153	1148	1148	1142	1135	1127	1126	1120	1109
<b>10</b>	1122	1125	1136	1132	1133	1128	1122	1116	1102	1088
<b>15</b>	1029	1055	1075	1091	1097	1105	1099	1089	1080	1049
<b>20</b>	908	942	980	1010	1037	1057	1063	1052	1035	1000
<b>25</b>	764	812	857	908	954	986	1013	1012	984	940
<b>30</b>	649	684	735	794	848	903	942	938	912	864
<b>35</b>	570	585	623	669	724	785	826	846	821	763
<b>40</b>	500	511	531	562	610	661	710	728	705	652
<b>45</b>	434	438	450	472	507	548	582	595	578	531
<b>50</b>	375	377	384	398	416	441	462	467	452	414
<b>55</b>	319	318	323	328	337	350	354	353	341	310
<b>60</b>	278	273	269	273	276	278	274	267	257	229

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L081404201.IES**

**CANDELA TABULATION - (Cont.)**

65	234	229	221	216	214	210	203	192	178	156
70	193	187	179	171	162	155	144	131	116	100
75	158	149	140	131	120	109	97	85	71	56
80	126	116	106	96	85	74	61	49	37	32
85	96	86	77	67	57	46	35	29	13	11
90	64	57	50	42	34	29	16	12	0	0
95	47	41	35	31	22	14	11	9	0	0
100	36	33	25	17	14	10	0	0	0	0
105	27	19	16	11	9	0	0	0	0	0
110	17	12	9	9	0	0	0	0	0	0
115	9	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

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

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131
5	1100	1089	1085	1077	1069	1071	1050	1035	1028	1017
10	1072	1050	1026	1000	975	944	914	887	860	839
15	1018	984	942	892	848	796	753	716	679	647
20	961	899	833	768	707	648	598	556	519	490
25	879	801	720	644	577	521	472	437	409	387
30	781	692	606	530	466	418	383	354	333	314
35	677	588	503	434	381	341	309	284	263	242
40	571	485	410	350	306	272	238	202	190	170
45	463	391	328	281	235	185	169	144	124	107
50	359	305	258	190	167	134	109	87	70	56
55	274	229	168	144	108	81	60	45	34	28
60	186	168	131	94	65	45	37	15	10	9
65	134	107	77	49	39	14	10	10	9	9
70	81	58	45	16	10	10	9	9	9	9
75	41	26	11	10	9	9	9	0	0	0
80	13	10	9	9	9	0	0	0	0	0
85	9	9	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

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	1131	1131	1131	1131	1131	1131	1131
5	1005	1002	995	986	982	978	976
10	813	799	782	770	762	757	755
15	618	598	580	566	556	551	549
20	465	447	435	426	417	415	415
25	372	358	350	341	336	334	332
30	297	286	275	267	261	259	257
35	225	208	202	192	186	183	182
40	155	141	130	121	115	113	111
45	92	80	71	64	59	56	56
50	46	38	33	30	24	21	20
55	11	9	9	9	0	0	0
60	9	9	9	0	0	0	0
65	9	0	0	0	0	0	0
70	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L081404201.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	347.74	N.A.	19.90
0-30	651.81	N.A.	37.30
0-40	958.97	N.A.	54.90
0-60	1413.8	N.A.	81.00
0-80	1643.91	N.A.	94.20
0-90	1697.28	N.A.	97.30
10-90	1595.87	N.A.	91.40
20-40	611.22	N.A.	35.00
20-50	871.61	N.A.	49.90
40-70	593.44	N.A.	34.00
60-80	230.11	N.A.	13.20
70-80	91.50	N.A.	5.20
80-90	53.37	N.A.	3.10
90-110	40.98	N.A.	2.30
90-120	47.17	N.A.	2.70
90-130	47.89	N.A.	2.70
90-150	47.89	N.A.	2.70
90-180	47.89	N.A.	2.70
110-180	6.91	N.A.	0.40
0-180	1745.17	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	101.41
10-20	246.33
20-30	304.06
30-40	307.16
40-50	260.39
50-60	194.44
60-70	138.61
70-80	91.50
80-90	53.37
90-100	26.48
100-110	14.50
110-120	6.20
120-130	0.71
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

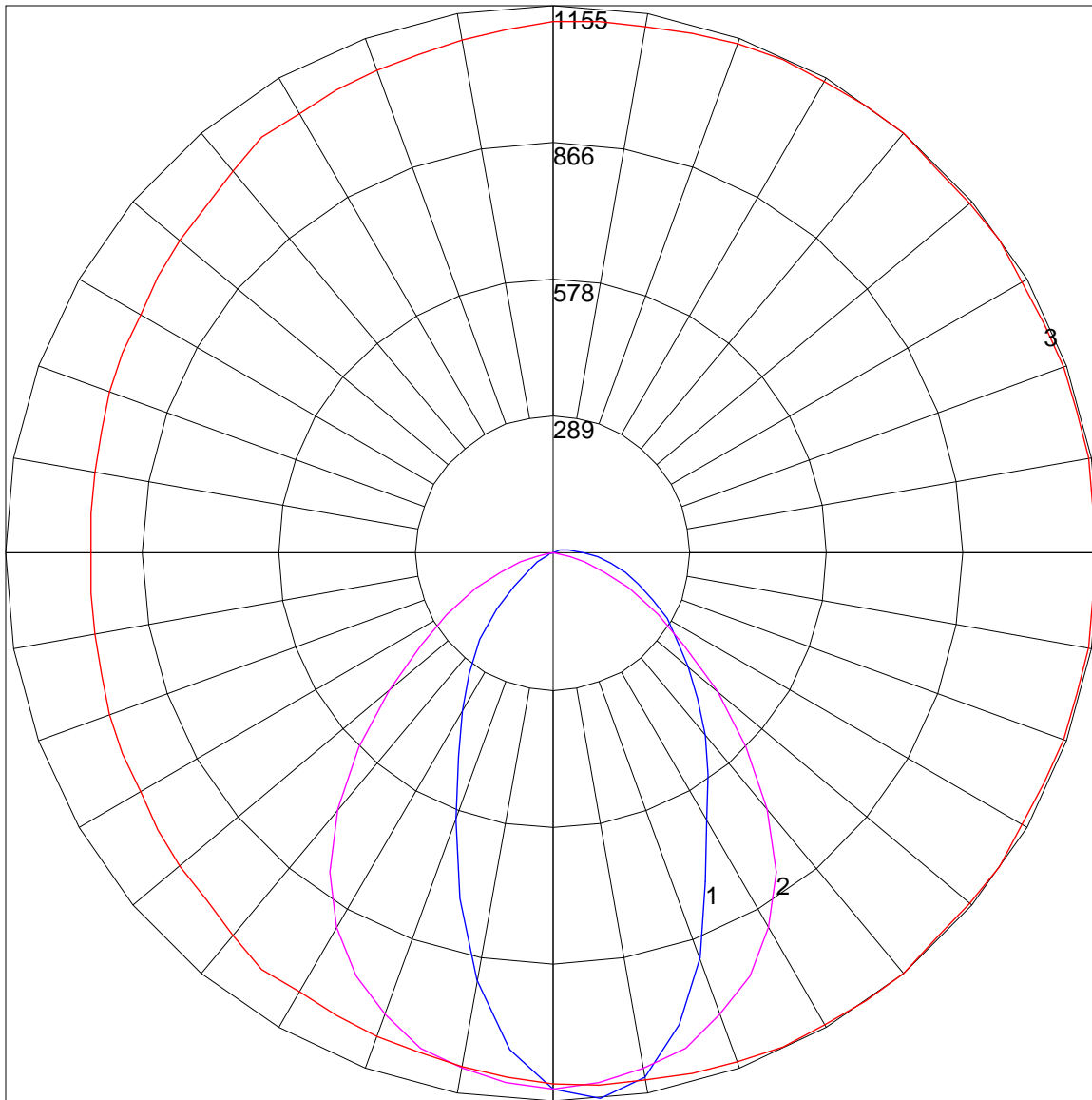
**IES INDOOR REPORT**  
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97
1	109	104	100	97	106	102	98	95	97	94	91	93	90	88	89	87	85	83
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	71
3	92	83	75	69	90	81	74	69	78	72	67	75	70	66	72	68	64	62
4	85	75	67	60	83	73	66	60	70	64	59	68	62	58	65	61	57	55
5	79	68	59	53	77	66	59	53	64	57	52	62	56	51	60	55	51	49
6	74	62	54	48	72	61	53	47	59	52	47	57	51	46	55	50	46	44
7	69	57	49	43	67	56	48	43	54	47	42	52	46	42	51	46	41	40
8	65	52	45	39	63	52	44	39	50	43	39	49	43	38	47	42	38	36
9	61	49	41	36	60	48	41	36	47	40	35	45	39	35	44	39	35	33
10	58	45	38	33	56	45	38	33	44	37	33	42	37	32	41	36	32	31

POLAR GRAPH



Maximum Candela = 1155 Located At Horizontal Angle = 50, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)