



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS400LESAWT40120-277V_14W-CT_P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.2.1 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Mon Feb 05 12:10:04 2018

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS400LESAWT40120-277V-CT

[LAMP] LED 0.195W White 5630 package (65mA)

[LAMPCAT] SPMWHT541MP5WAT0S5

[OTHER]

IESNA:LM-63-2002[TEST] 6,552

[MANUFAC] Beghelli

[OTHER] Luminous shape: Rectangle

[OTHER] Luminous dimensions (feet)

[OTHER] 0 - 180 Axis: 4.2

[OTHER] 90 - 270 Axis: 0.6

[OTHER] Height: 0.1

CHARACTERISTICS

Lumens Per Lamp	8.79 (192 lamps)
Total Lamp Lumens	1687.68
Luminaire Lumens	1685
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	14
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.82
Spacing Criterion (90-270)	1.82
Spacing Criterion (Diagonal)	1.98
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.45 ft
Luminous Width (90-270)	1.45 ft
Luminous Height	0.27 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : BS400LEDSAWT40120-277V_14W-CT_P.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1612	1586	1627
55	1908	1746	1921
65	2299	1985	2280
75	2670	2228	2635
85	2951	2381	2957

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS400LEDSAWT40120-277V_14W-CT_P.IES

CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0.0	216.576	216.576	216.576	216.576	216.576	216.576	216.576	216.576	216.576	216.576
2.5	216.744	216.599	217.554	219.596	216.788	215.872	214.223	212.414	215.586	216.951
5.0	215.816	218.612	221.143	221.371	219.477	220.534	217.473	218.170	218.820	219.752
7.5	223.100	221.422	223.897	222.408	222.065	222.252	222.086	221.425	222.224	222.508
10.0	232.049	225.672	227.147	227.935	226.103	227.000	225.567	226.690	227.105	226.583
12.5	230.740	234.226	233.329	233.219	232.935	235.766	231.707	235.575	232.532	230.041
15.0	235.749	238.336	238.310	239.449	242.381	236.488	240.792	238.357	240.957	238.643
17.5	243.501	242.157	244.962	243.841	244.513	245.200	247.253	246.712	246.174	247.038
20.0	245.897	247.425	248.588	248.159	251.589	251.866	253.532	252.010	252.994	254.394
22.5	248.900	252.642	253.716	254.539	254.457	255.944	257.703	258.658	260.280	262.167
25.0	255.130	255.116	256.554	258.513	258.439	260.170	264.825	265.858	265.378	266.128
27.5	259.201	259.536	258.204	260.534	261.428	263.099	267.894	270.191	271.391	269.390
30.0	257.777	260.312	261.142	262.113	263.318	267.617	271.536	272.426	272.151	272.372
32.5	258.926	261.626	261.170	263.831	268.332	269.017	272.957	275.133	275.271	275.982
35.0	260.033	261.263	263.087	265.667	269.201	272.729	274.961	277.102	278.300	279.171
37.5	264.008	263.108	263.868	267.321	268.535	273.444	275.923	278.570	278.337	279.539
40.0	265.264	265.310	266.498	267.642	271.112	272.971	275.338	278.235	279.250	279.085
42.5	264.516	265.047	267.174	269.231	272.081	274.316	275.145	278.927	277.948	279.348
45.0	265.823	268.987	269.800	269.399	272.850	273.822	276.934	276.783	277.400	278.740
47.5	267.861	267.400	268.915	270.478	273.889	275.133	277.049	275.814	277.251	276.627
50.0	272.330	268.150	269.882	270.949	272.922	274.528	274.211	275.397	275.755	275.830
52.5	269.961	270.096	271.165	270.396	273.071	273.959	274.010	274.544	273.905	273.337
55.0	272.547	271.361	272.158	272.715	274.357	272.913	273.272	272.799	271.338	271.042
57.5	271.601	273.356	273.353	273.197	273.658	271.196	272.023	269.569	269.663	270.331
60.0	271.944	273.258	271.466	271.748	271.075	269.921	268.507	268.470	266.314	266.275
62.5	270.040	270.385	269.914	269.821	269.374	269.541	266.997	264.681	263.451	261.673
65.0	267.463	267.305	266.925	267.358	266.885	263.246	263.290	260.131	257.901	258.357
67.5	262.435	263.330	262.181	262.675	261.759	259.222	255.876	255.419	253.965	252.386
70.0	253.753	254.876	253.725	254.629	253.944	251.938	249.214	247.309	246.239	245.121
72.5	244.580	243.163	243.010	243.042	242.416	242.639	239.992	239.405	236.917	236.982
75.0	230.516	229.428	231.280	229.792	230.484	229.976	227.594	227.310	225.793	225.155
77.5	212.722	214.980	215.334	215.830	216.138	215.092	214.810	214.132	213.251	211.485
80.0	196.619	195.741	197.505	197.994	198.346	199.236	199.047	198.994	198.521	198.859
82.5	177.914	177.730	179.739	180.037	180.701	180.489	181.628	181.311	180.573	180.449
85.0	158.577	158.810	160.476	160.698	161.812	163.592	162.613	163.501	163.685	164.058
87.5	140.376	140.231	141.019	141.839	144.684	144.222	143.805	144.437	146.841	144.043
90.0	122.721	123.415	123.509	124.350	124.580	125.850	126.279	127.341	128.094	127.004
92.5	105.968	107.103	106.351	106.919	107.858	108.760	109.300	110.635	110.491	111.747
95.0	92.263	92.117	91.173	91.786	92.541	93.626	92.937	94.251	94.857	94.479
97.5	79.234	78.556	78.463	77.605	77.678	78.540	79.306	78.794	80.073	79.194
100.0	67.864	66.722	66.545	65.459	65.347	65.256	65.867	65.799	66.526	66.305
102.5	56.966	57.153	55.547	54.995	53.905	53.984	54.058	53.909	54.331	53.439
105.0	46.891	47.513	46.546	45.659	44.172	44.009	43.569	43.298	43.813	43.037
107.5	40.020	38.860	38.762	37.667	36.120	35.598	34.582	34.465	34.023	34.146
110.0	32.310	32.063	31.921	30.341	29.409	27.620	26.802	26.588	26.620	25.793
112.5	25.986	26.508	25.113	23.831	23.062	21.986	20.602	20.723	19.654	19.635
115.0	20.919	20.989	20.038	19.346	17.934	16.785	15.714	14.754	14.236	14.029
117.5	16.629	16.254	16.117	15.334	14.274	12.540	11.540	10.438	9.909	10.070
120.0	12.836	12.514	12.163	11.573	10.583	9.085	8.139	6.950	6.613	6.272
122.5	9.690	9.278	8.775	8.265	7.787	6.727	5.895	4.770	4.010	3.854
125.0	7.113	6.783	6.389	5.941	5.396	4.837	3.870	3.136	2.321	1.934
127.5	4.786	4.739	4.548	4.066	3.702	3.139	2.472	1.866	1.172	0.829
130.0	3.197	3.048	2.978	2.721	2.276	1.852	1.403	0.932	0.664	0.576
132.5	1.964	1.927	1.747	1.566	1.333	0.960	0.671	0.501	0.527	0.531

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS400LEDSAWT40120-277V_14W-CT_P.IES

CANDELA TABULATION - (Cont.)

135.0	0.983	0.871	0.811	0.685	0.589	0.513	0.475	0.496	0.582	0.531
137.5	0.454	0.520	0.487	0.527	0.464	0.506	0.480	0.522	0.513	0.419
140.0	0.375	0.412	0.447	0.471	0.412	0.457	0.380	0.443	0.440	0.396
142.5	0.440	0.382	0.410	0.405	0.405	0.394	0.368	0.382	0.380	0.345
145.0	0.282	0.352	0.280	0.324	0.349	0.331	0.303	0.329	0.310	0.368
147.5	0.315	0.268	0.266	0.296	0.268	0.319	0.368	0.294	0.319	0.354
150.0	0.275	0.235	0.270	0.212	0.254	0.214	0.266	0.273	0.294	0.317
152.5	0.193	0.214	0.196	0.221	0.249	0.203	0.228	0.259	0.275	0.184
155.0	0.105	0.165	0.235	0.170	0.198	0.179	0.214	0.184	0.226	0.212
157.5	0.165	0.175	0.161	0.135	0.179	0.149	0.144	0.172	0.170	0.151
160.0	0.193	0.121	0.116	0.121	0.116	0.130	0.116	0.121	0.140	0.137
162.5	0.098	0.093	0.110	0.116	0.133	0.119	0.126	0.110	0.161	0.070
165.0	0.068	0.089	0.058	0.077	0.070	0.056	0.075	0.089	0.068	0.065
167.5	0.028	0.030	0.037	0.037	0.037	0.042	0.037	0.012	0.033	0.054
170.0	0.040	0.009	0.042	0.047	0.047	0.033	0.058	0.009	0.023	0.040
172.5	0.023	0.028	0.019	0.019	0.021	0.023	0.035	0.023	0.012	0.000
175.0	0.005	0.033	0.000	0.000	0.000	0.000	0.000	0.021	0.030	0.000
177.5	0.065	0.037	0.065	0.035	0.000	0.072	0.000	0.026	0.000	0.000
180.0	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030

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>
0.0	216.576	216.576	216.576	216.576	216.576	216.576	216.576	216.576	216.576
2.5	212.058	217.126	213.705	212.279	221.674	216.287	217.967	215.944	210.874
5.0	221.019	216.229	217.934	220.374	216.382	219.901	220.639	219.808	215.050
7.5	221.898	224.279	220.737	222.047	222.431	224.579	222.312	221.380	228.282
10.0	228.142	227.946	230.442	229.274	226.110	224.717	225.921	227.986	224.502
12.5	233.839	231.425	233.261	233.466	234.223	232.208	229.983	232.033	235.824
15.0	239.918	240.803	239.291	238.559	236.970	239.601	238.259	237.637	239.692
17.5	246.474	246.707	245.808	242.875	243.704	242.301	243.019	244.093	242.600
20.0	254.182	253.616	250.822	250.475	249.459	249.380	246.780	246.607	247.353
22.5	259.609	261.167	257.845	257.304	255.130	252.824	251.011	250.960	251.197
25.0	265.853	264.015	262.181	259.194	259.525	255.119	256.114	254.131	254.373
27.5	270.306	270.331	266.601	263.812	261.727	260.133	258.416	256.705	257.272
30.0	273.919	272.531	270.979	268.623	264.439	262.302	259.641	260.249	257.062
32.5	274.823	274.938	272.883	271.727	268.684	263.458	261.892	259.399	259.588
35.0	278.228	277.687	275.266	272.706	269.672	267.230	264.676	262.381	262.614
37.5	279.698	276.121	275.271	273.880	269.506	267.172	265.615	262.484	263.728
40.0	279.516	279.814	276.664	274.344	272.111	268.216	265.513	263.523	265.848
42.5	279.171	278.738	275.975	274.397	271.370	270.648	266.752	265.702	264.700
45.0	278.272	278.528	276.678	274.956	272.789	270.578	268.381	267.342	268.351
47.5	275.276	276.217	276.054	276.345	273.074	271.843	269.632	269.336	268.484
50.0	276.473	274.034	274.486	274.537	272.577	271.867	270.851	270.655	269.010
52.5	275.187	274.556	271.478	273.032	274.630	272.668	272.281	271.098	271.305
55.0	272.186	271.596	273.064	272.969	271.948	274.180	272.363	270.387	274.330
57.5	269.155	270.012	273.195	273.472	272.454	271.888	271.177	272.475	273.530
60.0	265.944	267.561	270.133	271.713	271.450	271.580	272.244	270.727	271.883
62.5	262.901	264.665	264.865	268.139	269.581	269.579	269.716	270.163	269.553
65.0	259.905	259.995	261.559	264.308	265.790	266.799	265.702	265.513	265.301
67.5	253.381	255.107	256.309	258.047	259.210	258.914	260.781	259.944	260.606
70.0	245.696	247.931	248.928	249.142	250.990	251.782	251.584	250.969	251.018
72.5	236.458	238.434	239.216	240.843	240.486	241.432	241.164	241.085	240.726
75.0	225.535	225.931	228.247	226.898	228.401	227.734	228.664	227.606	227.564
77.5	212.696	212.440	213.950	214.150	213.451	213.405	212.144	213.009	210.711
80.0	197.153	197.624	197.768	198.537	197.663	196.685	196.803	193.425	193.283

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS400LEDSAWT40120-277V_14W-CT_P.IES

CANDELA TABULATION - (Cont.)

82.5	180.421	180.205	180.456	180.538	180.265	177.495	178.094	177.257	176.234
85.0	162.781	162.594	162.303	161.933	161.292	160.476	158.347	156.637	158.876
87.5	144.574	144.560	144.723	142.901	142.244	141.543	140.210	138.619	138.877
90.0	127.430	126.631	125.804	125.864	124.538	123.231	121.265	122.017	120.624
92.5	110.307	110.840	109.498	108.424	108.012	106.754	106.313	107.196	105.419
95.0	94.444	94.232	93.480	92.662	92.284	92.072	91.094	90.192	92.520
97.5	80.017	79.336	78.099	77.862	77.638	78.011	78.001	78.631	79.171
100.0	66.407	65.811	65.468	65.457	64.602	65.228	66.741	66.617	67.172
102.5	53.483	54.361	53.844	54.166	54.226	55.039	56.225	57.474	56.596
105.0	43.131	43.736	43.380	43.825	43.708	45.032	46.598	47.038	47.427
107.5	34.069	33.904	34.503	34.854	35.992	37.129	38.450	39.675	39.787
110.0	26.327	26.229	26.634	28.125	28.820	30.686	31.203	32.284	32.140
112.5	19.579	19.947	20.751	21.765	22.843	24.595	25.961	25.870	25.914
115.0	14.472	14.735	15.257	16.797	18.307	19.432	20.385	20.909	20.753
117.5	10.156	10.173	11.198	12.929	14.213	14.856	15.937	16.459	16.459
120.0	6.717	7.141	8.125	9.448	10.522	11.566	12.198	12.629	12.459
122.5	3.991	4.814	5.844	7.060	7.500	8.395	9.150	9.485	9.406
125.0	2.337	3.118	3.775	4.578	5.480	5.925	6.736	6.797	6.946
127.5	1.139	1.810	2.526	3.190	3.677	4.248	4.658	4.770	4.860
130.0	0.655	0.909	1.347	1.922	2.360	2.565	3.041	3.227	3.243
132.5	0.545	0.515	0.638	0.941	1.247	1.501	1.743	2.055	1.815
135.0	0.443	0.492	0.557	0.541	0.631	0.790	0.897	1.014	1.035
137.5	0.487	0.426	0.506	0.515	0.529	0.496	0.471	0.552	0.480
140.0	0.508	0.403	0.438	0.415	0.422	0.433	0.408	0.368	0.410
142.5	0.396	0.382	0.412	0.363	0.375	0.426	0.356	0.398	0.389
145.0	0.363	0.352	0.343	0.338	0.368	0.373	0.317	0.370	0.347
147.5	0.294	0.345	0.282	0.319	0.263	0.331	0.305	0.331	0.317
150.0	0.277	0.254	0.310	0.233	0.203	0.240	0.252	0.247	0.235
152.5	0.235	0.217	0.249	0.242	0.198	0.196	0.277	0.221	0.226
155.0	0.196	0.210	0.165	0.186	0.151	0.175	0.147	0.217	0.189
157.5	0.147	0.130	0.193	0.147	0.165	0.163	0.142	0.175	0.112
160.0	0.137	0.084	0.079	0.163	0.133	0.114	0.175	0.149	0.128
162.5	0.063	0.091	0.082	0.084	0.121	0.072	0.114	0.123	0.058
165.0	0.065	0.100	0.082	0.070	0.056	0.061	0.098	0.100	0.049
167.5	0.028	0.035	0.028	0.047	0.030	0.054	0.056	0.016	0.014
170.0	0.019	0.033	0.009	0.016	0.037	0.019	0.040	0.033	0.023
172.5	0.021	0.026	0.037	0.042	0.009	0.005	0.033	0.016	0.026
175.0	0.028	0.035	0.028	0.000	0.014	0.000	0.000	0.000	0.000
177.5	0.033	0.030	0.000	0.035	0.042	0.000	0.000	0.000	0.019
180.0	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS400LEDSAWT40120-277V_14W-CT_P.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	89.21	5.30	5.30
0-30	209.56	12.40	12.40
0-40	379.16	22.50	22.50
0-60	834.68	49.50	49.50
0-80	1334.55	79.10	79.20
0-90	1510.4	89.50	89.60
10-90	1489.24	88.20	88.40
20-40	289.94	17.20	17.20
20-50	501.33	29.70	29.70
40-70	715.90	42.40	42.50
60-80	499.87	29.60	29.70
70-80	239.48	14.20	14.20
80-90	175.85	10.40	10.40
90-110	151.07	9.00	9.00
90-120	169.24	10.00	10.00
90-130	173.97	10.30	10.30
90-150	174.88	10.40	10.40
90-180	175.00	10.40	10.40
110-180	23.93	1.40	1.40
0-180	1685.39	99.90	100.00

Total Luminaire Efficiency = 99.90%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	21.16
10-20	68.06
20-30	120.34
30-40	169.60
40-50	211.39
50-60	244.13
60-70	260.39
70-80	239.48
80-90	175.85
90-100	102.46
100-110	48.61
110-120	18.17
120-130	4.73
130-140	0.70
140-150	0.22
150-160	0.09
160-170	0.02
170-180	0.00

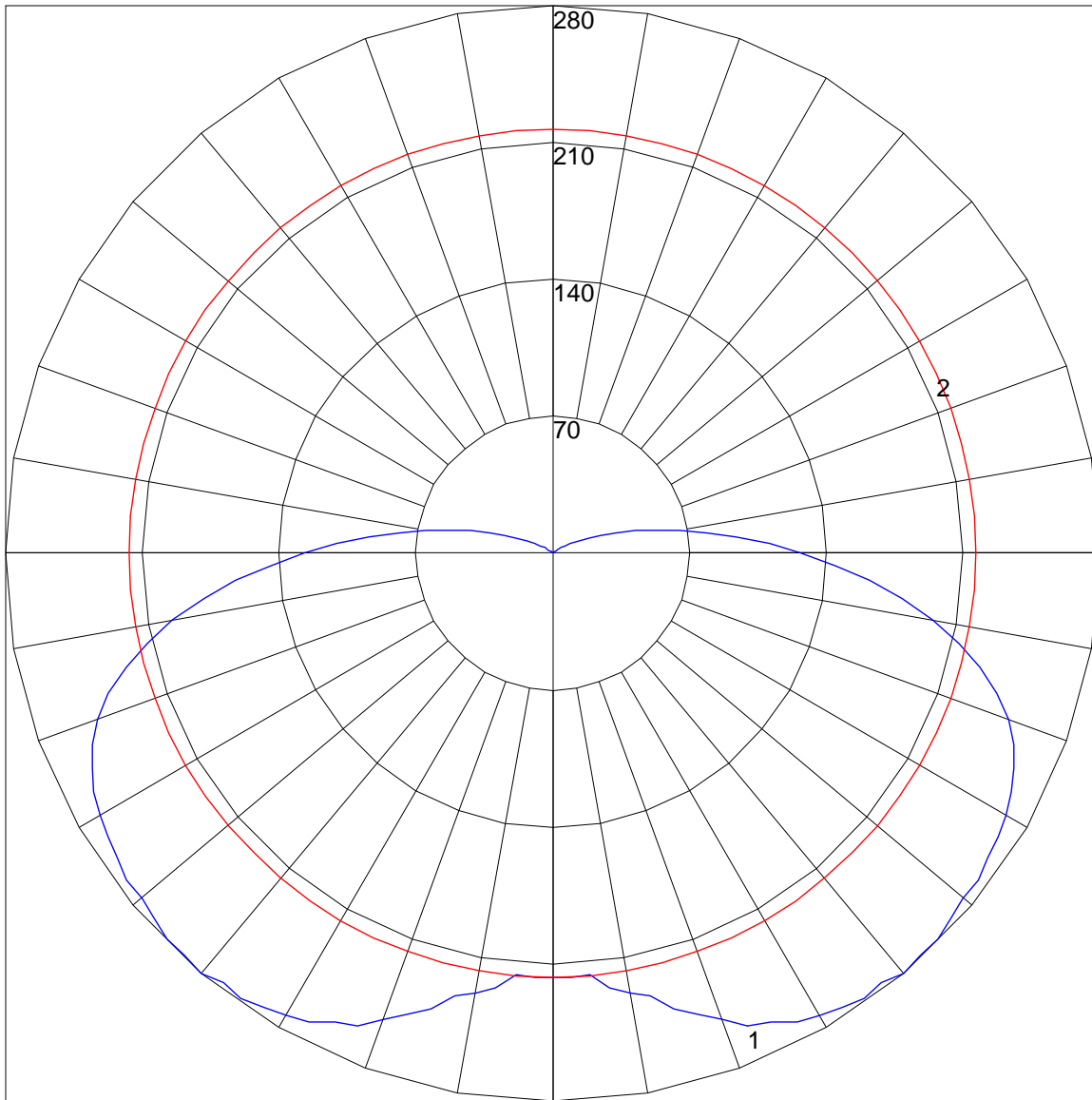
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS400LEDSAWT40120-277V_14W-CT_P.IES

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	116	116	116	116	113	113	113	113	105	105	105	99	99	99	92	92	92	89
1	101	94	88	82	97	90	85	80	84	79	75	78	74	71	73	70	67	64
2	89	78	69	62	85	75	67	60	70	63	57	65	59	54	60	56	51	48
3	80	67	57	49	76	64	55	47	60	52	45	55	49	43	51	46	41	38
4	72	58	47	39	69	56	46	38	52	43	37	48	41	35	45	38	33	31
5	66	51	40	33	63	49	39	32	46	37	31	42	35	29	39	33	28	25
6	60	45	35	28	57	43	34	27	41	32	26	38	30	25	35	29	24	21
7	56	40	31	24	53	39	30	23	36	28	22	34	27	21	32	25	21	18
8	51	36	27	21	49	35	26	20	33	25	19	31	24	19	29	23	18	16
9	48	33	24	18	46	32	24	18	30	23	17	28	21	17	27	20	16	14
10	45	30	22	16	43	29	21	16	28	20	15	26	19	15	25	19	14	12

POLAR GRAPH



Maximum Candela = 279.814 Located At Horizontal Angle = 55, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)