

Scaled data based on original data using
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact
Fluorescent Lamps

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: 253p131

Luminaire Tested: **1200-OB-36-CFL/6/50**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253p131
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1200-OB-36-CFL/6/50
Description: SHAPER 36 INCH 1200 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
Light Source: SIX - F50BX - 50 WATTS
SIX GX24 T4 COMPACT FLUORESCENT LAMPS
Ballast/Driver: -

Summary

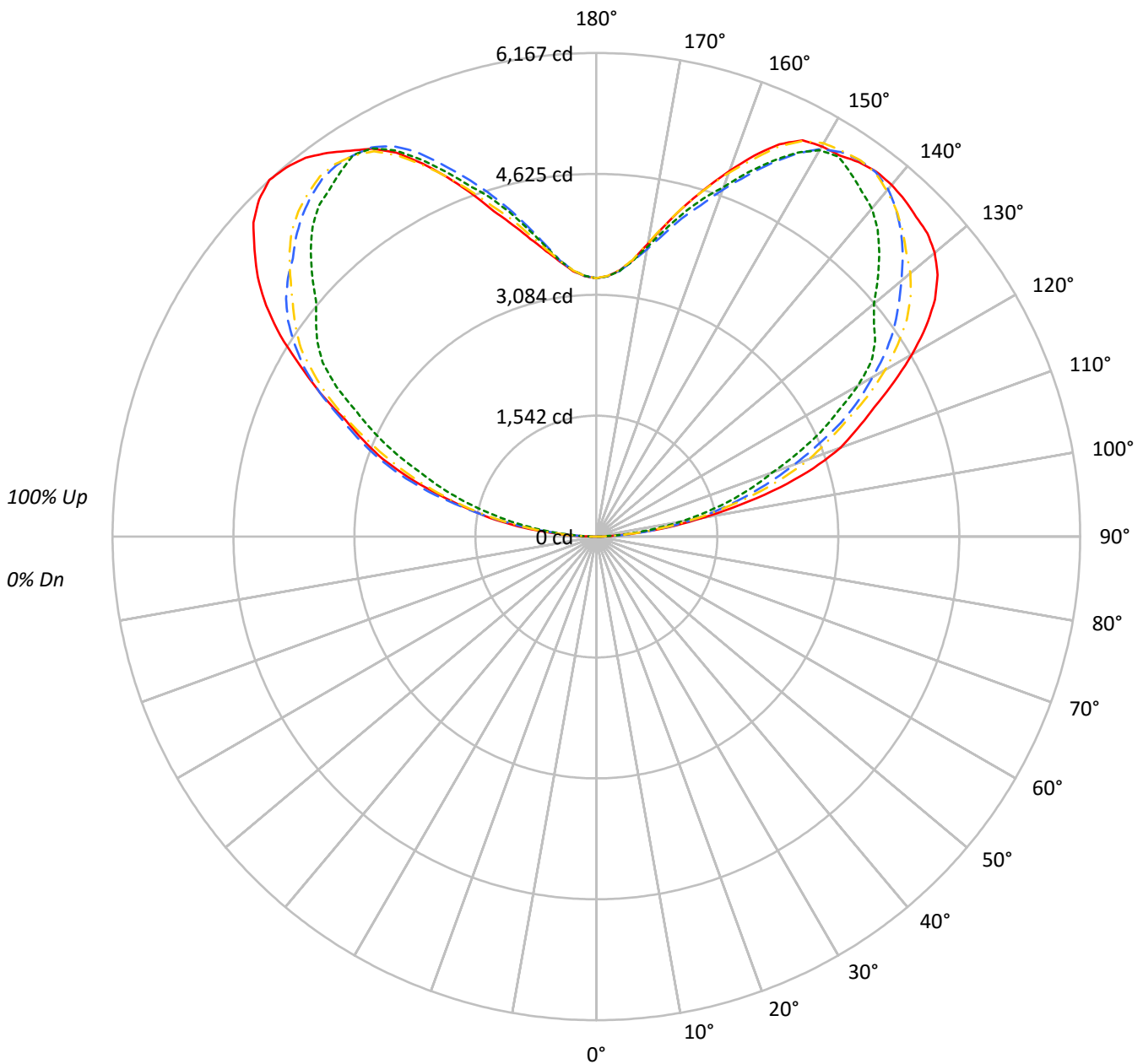
Lumens per Lamp: 4800 (6 lamps)
Luminaire Lumens: 22329.4 lumens
Efficiency: 77.5%
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Circular (Dia: 3' x H: 0')
CIE Type: Indirect

Input Watts (W): 369
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																		
0	74	74	74	74	63	63	63	63	43	43	43	25	25	25	8	8	8	0
1	67	64	61	59	57	55	53	51	37	36	35	22	21	20	7	7	7	0
2	61	56	51	48	52	48	44	41	33	31	29	19	18	17	6	6	6	0
3	56	49	44	40	47	42	38	34	29	26	24	17	15	14	5	5	5	0
4	51	43	38	33	43	37	32	29	25	23	20	15	13	12	5	4	4	0
5	46	38	32	28	39	33	28	25	23	20	17	13	12	10	4	4	3	0
6	42	34	28	24	36	29	24	21	20	17	15	12	10	9	4	3	3	0
7	39	30	25	21	33	26	21	18	18	15	13	10	9	8	3	3	3	0
8	36	27	22	18	31	24	19	16	16	13	11	9	8	7	3	3	2	0
9	33	25	19	16	28	21	17	14	15	12	10	9	7	6	3	2	2	0
10	31	22	17	14	26	19	15	12	13	11	9	8	6	5	3	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	0	0	0	0
5°	0	0	0	0
10°	0	0	0	0
15°	0	0	0	0
20°	0	0	0	0
25°	0	0	0	0
30°	0	0	0	0
35°	0	0	0	0
40°	0	0	0	0
45°	0	0	0	0
50°	0	0	0	0
55°	0	0	0	0
60°	0	0	0	0
65°	0	0	0	0
70°	0	0	0	0
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	1.0	0.0	0.0
90°-100°	601.7	2.7	2.1
100°-110°	2154.7	9.6	7.5
110°-120°	3457.3	15.5	12.0
120°-130°	4221.5	18.9	14.7
130°-140°	4230.7	18.9	14.7
140°-150°	3631.5	16.3	12.6
150°-160°	2470.5	11.1	8.6
160°-170°	1224.5	5.5	4.3
170°-180°	336.1	1.5	1.2
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	1.0	0.0	0.0
90°-120°	6213.6	27.8	21.6
90°-150°	18297.4	81.9	63.5
90°-180°	22328.0	100.0	77.5
0°-180°	22329.4	100.0	77.5

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	8	6	7	6	8	27
95°	508	402	624	443	508	603
105°	2429	1766	2088	1754	2429	2517
115°	3911	3154	3536	3115	3911	3905
125°	5269	4338	5140	4345	5269	4672
135°	5765	5101	6079	5148	5765	4461
145°	5831	5655	5973	5682	5831	3655
155°	5521	5277	5249	5307	5521	2537
165°	4371	4265	4113	4283	4371	1256
175°	3407	3402	3397	3405	3407	337
180°	3294	3294	3294	3294	3294	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	8	8	7	6	7	8	7	7	6	6	6
92.5°	182	181	178	167	190	225	260	228	193	131	153
95°	508	488	467	443	507	571	624	575	526	402	481
97.5°	932	885	836	771	855	931	1008	945	880	721	894
100°	1371	1288	1205	1099	1223	1309	1375	1320	1264	1073	1310
102.5°	1877	1728	1577	1414	1580	1653	1706	1675	1644	1418	1718
105°	2429	2201	1972	1754	1935	1988	2088	2049	2008	1766	2140
107.5°	2900	2637	2371	2070	2264	2386	2513	2437	2359	2086	2521
110°	3312	3028	2744	2383	2601	2760	2900	2805	2708	2384	2859



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	3601	3334	3067	2763	2975	3136	3217	3149	3081	2770	3193
115°	3911	3657	3402	3115	3364	3518	3536	3502	3466	3154	3506
117.5°	4281	4036	3791	3443	3686	3859	3969	3888	3805	3480	3871
120°	4646	4385	4122	3825	3996	4136	4358	4228	4097	3851	4178
122.5°	4980	4697	4412	4136	4283	4462	4778	4570	4362	4156	4417
125°	5269	4978	4687	4345	4469	4794	5140	4835	4529	4338	4640
127.5°	5482	5195	4908	4503	4634	5075	5441	5066	4689	4459	4820
130°	5630	5360	5088	4662	4849	5305	5687	5287	4886	4618	4964
132.5°	5724	5480	5235	4911	5074	5518	5929	5514	5099	4864	5090
135°	5765	5603	5438	5148	5292	5695	6079	5690	5299	5101	5293
137.5°	5820	5712	5602	5355	5451	5863	6167	5805	5441	5306	5459
140°	5855	5791	5727	5506	5585	5982	6146	5859	5572	5463	5591
142.5°	5865	5851	5837	5583	5690	6017	6089	5888	5687	5553	5703
145°	5831	5852	5871	5682	5753	5959	5973	5859	5742	5655	5762
147.5°	5764	5808	5850	5768	5773	5851	5833	5785	5735	5745	5766
150°	5746	5778	5808	5716	5697	5720	5712	5687	5661	5688	5724
152.5°	5697	5691	5684	5551	5488	5512	5518	5491	5461	5517	5585
155°	5521	5497	5472	5307	5242	5254	5249	5233	5217	5277	5373
157.5°	5259	5223	5184	5043	4977	4967	4956	4960	4963	5019	5093
160°	4961	4944	4926	4770	4713	4694	4656	4680	4702	4744	4839
162.5°	4660	4657	4651	4540	4455	4407	4349	4396	4441	4516	4583
165°	4371	4372	4371	4283	4226	4169	4113	4165	4216	4265	4318
167.5°	4071	4076	4080	4015	3968	3918	3888	3927	3964	4001	4044
170°	3793	3799	3804	3761	3732	3707	3697	3716	3733	3751	3782
172.5°	3551	3557	3562	3546	3541	3535	3534	3541	3547	3544	3550
175°	3407	3412	3416	3405	3403	3398	3397	3404	3410	3402	3405
177.5°	3324	3327	3331	3328	3323	3323	3322	3325	3326	3323	3326
180°	3294	3294	3294	3294	3294	3294	3294	3294	3294	3294	3294



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	8	8	8	7	6	7	8	7	7	6	6
92.5°	168	182	181	178	167	190	225	260	228	193	131
95°	495	508	488	467	443	507	571	624	575	526	402
97.5°	914	932	885	836	771	855	931	1008	945	880	721
100°	1341	1371	1288	1205	1099	1223	1309	1375	1320	1264	1073
102.5°	1798	1877	1728	1577	1414	1580	1653	1706	1675	1644	1418
105°	2286	2429	2201	1972	1754	1935	1988	2088	2049	2008	1766
107.5°	2712	2900	2637	2371	2070	2264	2386	2513	2437	2359	2086
110°	3086	3312	3028	2744	2383	2601	2760	2900	2805	2708	2384



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	3398	3601	3334	3067	2763	2975	3136	3217	3149	3081	2770
115°	3709	3911	3657	3402	3115	3364	3518	3536	3502	3466	3154
117.5°	4077	4281	4036	3791	3443	3686	3859	3969	3888	3805	3480
120°	4413	4646	4385	4122	3825	3996	4136	4358	4228	4097	3851
122.5°	4699	4980	4697	4412	4136	4283	4462	4778	4570	4362	4156
125°	4955	5269	4978	4687	4345	4469	4794	5140	4835	4529	4338
127.5°	5151	5482	5195	4908	4503	4634	5075	5441	5066	4689	4459
130°	5298	5630	5360	5088	4662	4849	5305	5687	5287	4886	4618
132.5°	5408	5724	5480	5235	4911	5074	5518	5929	5514	5099	4864
135°	5530	5765	5603	5438	5148	5292	5695	6079	5690	5299	5101
137.5°	5641	5820	5712	5602	5355	5451	5863	6167	5805	5441	5306
140°	5724	5855	5791	5727	5506	5585	5982	6146	5859	5572	5463
142.5°	5785	5865	5851	5837	5583	5690	6017	6089	5888	5687	5553
145°	5797	5831	5852	5871	5682	5753	5959	5973	5859	5742	5655
147.5°	5766	5764	5808	5850	5768	5773	5851	5833	5785	5735	5745
150°	5736	5746	5778	5808	5716	5697	5720	5712	5687	5661	5688
152.5°	5642	5697	5691	5684	5551	5488	5512	5518	5491	5461	5517
155°	5448	5521	5497	5472	5307	5242	5254	5249	5233	5217	5277
157.5°	5177	5259	5223	5184	5043	4977	4967	4956	4960	4963	5019
160°	4900	4961	4944	4926	4770	4713	4694	4656	4680	4702	4744
162.5°	4622	4660	4657	4651	4540	4455	4407	4349	4396	4441	4516
165°	4345	4371	4372	4371	4283	4226	4169	4113	4165	4216	4265
167.5°	4058	4071	4076	4080	4015	3968	3918	3888	3927	3964	4001
170°	3789	3793	3799	3804	3761	3732	3707	3697	3716	3733	3751
172.5°	3551	3551	3557	3562	3546	3541	3535	3534	3541	3547	3544
175°	3406	3407	3412	3416	3405	3403	3398	3397	3404	3410	3402
177.5°	3326	3324	3327	3331	3328	3323	3323	3322	3325	3326	3323
180°	3294	3294	3294	3294	3294	3294	3294	3294	3294	3294	3294



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	6	8	8	8	7	6	7	8	7	7	6
92.5°	153	168	182	181	178	167	190	225	260	228	193
95°	481	495	508	488	467	443	507	571	624	575	526
97.5°	894	914	932	885	836	771	855	931	1008	945	880
100°	1310	1341	1371	1288	1205	1099	1223	1309	1375	1320	1264
102.5°	1718	1798	1877	1728	1577	1414	1580	1653	1706	1675	1644
105°	2140	2286	2429	2201	1972	1754	1935	1988	2088	2049	2008
107.5°	2521	2712	2900	2637	2371	2070	2264	2386	2513	2437	2359
110°	2859	3086	3312	3028	2744	2383	2601	2760	2900	2805	2708



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	3193	3398	3601	3334	3067	2763	2975	3136	3217	3149	3081
115°	3506	3709	3911	3657	3402	3115	3364	3518	3536	3502	3466
117.5°	3871	4077	4281	4036	3791	3443	3686	3859	3969	3888	3805
120°	4178	4413	4646	4385	4122	3825	3996	4136	4358	4228	4097
122.5°	4417	4699	4980	4697	4412	4136	4283	4462	4778	4570	4362
125°	4640	4955	5269	4978	4687	4345	4469	4794	5140	4835	4529
127.5°	4820	5151	5482	5195	4908	4503	4634	5075	5441	5066	4689
130°	4964	5298	5630	5360	5088	4662	4849	5305	5687	5287	4886
132.5°	5090	5408	5724	5480	5235	4911	5074	5518	5929	5514	5099
135°	5293	5530	5765	5603	5438	5148	5292	5695	6079	5690	5299
137.5°	5459	5641	5820	5712	5602	5355	5451	5863	6167	5805	5441
140°	5591	5724	5855	5791	5727	5506	5585	5982	6146	5859	5572
142.5°	5703	5785	5865	5851	5837	5583	5690	6017	6089	5888	5687
145°	5762	5797	5831	5852	5871	5682	5753	5959	5973	5859	5742
147.5°	5766	5766	5764	5808	5850	5768	5773	5851	5833	5785	5735
150°	5724	5736	5746	5778	5808	5716	5697	5720	5712	5687	5661
152.5°	5585	5642	5697	5691	5684	5551	5488	5512	5518	5491	5461
155°	5373	5448	5521	5497	5472	5307	5242	5254	5249	5233	5217
157.5°	5093	5177	5259	5223	5184	5043	4977	4967	4956	4960	4963
160°	4839	4900	4961	4944	4926	4770	4713	4694	4656	4680	4702
162.5°	4583	4622	4660	4657	4651	4540	4455	4407	4349	4396	4441
165°	4318	4345	4371	4372	4371	4283	4226	4169	4113	4165	4216
167.5°	4044	4058	4071	4076	4080	4015	3968	3918	3888	3927	3964
170°	3782	3789	3793	3799	3804	3761	3732	3707	3697	3716	3733
172.5°	3550	3551	3551	3557	3562	3546	3541	3535	3534	3541	3547
175°	3405	3406	3407	3412	3416	3405	3403	3398	3397	3404	3410
177.5°	3326	3326	3324	3327	3331	3328	3323	3323	3322	3325	3326
180°	3294	3294	3294	3294	3294	3294	3294	3294	3294	3294	3294



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	0	0	0	0
2.5°	0	0	0	0
5°	0	0	0	0
7.5°	0	0	0	0
10°	0	0	0	0
12.5°	0	0	0	0
15°	0	0	0	0
17.5°	0	0	0	0
20°	0	0	0	0
22.5°	0	0	0	0
25°	0	0	0	0
27.5°	0	0	0	0
30°	0	0	0	0
32.5°	0	0	0	0
35°	0	0	0	0
37.5°	0	0	0	0
40°	0	0	0	0
42.5°	0	0	0	0
45°	0	0	0	0
47.5°	0	0	0	0
50°	0	0	0	0
52.5°	0	0	0	0
55°	0	0	0	0
57.5°	0	0	0	0
60°	0	0	0	0
62.5°	0	0	0	0
65°	0	0	0	0
67.5°	0	0	0	0
70°	0	0	0	0
72.5°	0	0	0	0
75°	0	0	0	0
77.5°	0	0	0	0
80°	0	0	0	0
82.5°	0	0	0	0
85°	0	0	0	0
87.5°	0	0	0	0
90°	6	6	8	8
92.5°	131	153	168	182
95°	402	481	495	508
97.5°	721	894	914	932
100°	1073	1310	1341	1371
102.5°	1418	1718	1798	1877
105°	1766	2140	2286	2429
107.5°	2086	2521	2712	2900
110°	2384	2859	3086	3312



TEST NUMBER: 253p131

CATALOG NUMBER: 1200-OB-36-CFL/6/50

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	2770	3193	3398	3601
115°	3154	3506	3709	3911
117.5°	3480	3871	4077	4281
120°	3851	4178	4413	4646
122.5°	4156	4417	4699	4980
125°	4338	4640	4955	5269
127.5°	4459	4820	5151	5482
130°	4618	4964	5298	5630
132.5°	4864	5090	5408	5724
135°	5101	5293	5530	5765
137.5°	5306	5459	5641	5820
140°	5463	5591	5724	5855
142.5°	5553	5703	5785	5865
145°	5655	5762	5797	5831
147.5°	5745	5766	5766	5764
150°	5688	5724	5736	5746
152.5°	5517	5585	5642	5697
155°	5277	5373	5448	5521
157.5°	5019	5093	5177	5259
160°	4744	4839	4900	4961
162.5°	4516	4583	4622	4660
165°	4265	4318	4345	4371
167.5°	4001	4044	4058	4071
170°	3751	3782	3789	3793
172.5°	3544	3550	3551	3551
175°	3402	3405	3406	3407
177.5°	3323	3326	3326	3324
180°	3294	3294	3294	3294

(END OF REPORT)