

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: 253p134

Luminaire Tested: **1240-OB-36-CFL/6/55**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253p134
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1240-OB-36-CFL/6/55
Description: SHAPER 36 INCH 1240 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
Light Source: SIX - F55BX - 55 WATTS
SIX GX24 T4 COMPACT FLUORESCENT LAMPS
Ballast/Driver: -

Summary

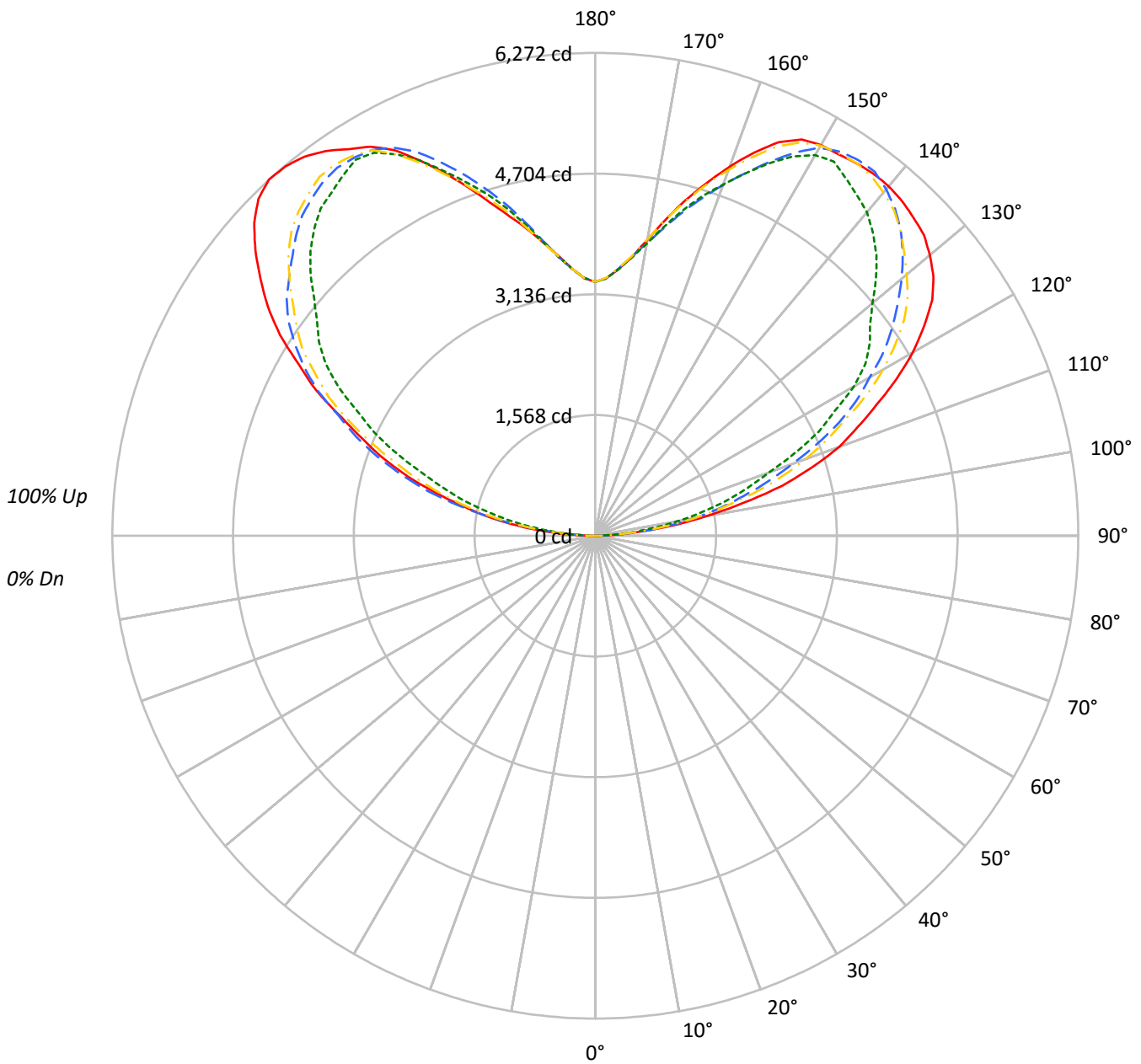
Lumens per Lamp: 4800 (6 lamps)
Luminaire Lumens: 22693.0 lumens
Efficiency: 78.8%
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Circular (Dia: 3' x H: 0')
CIE Type: Indirect

Input Watts (W): 339
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	75	75	75	75	64	64	64	64	44	44	44	25	25	25	8	8	8	0
1	68	65	62	60	58	56	53	51	38	37	36	22	21	21	7	7	7	0
2	62	57	52	49	53	49	45	42	33	31	29	19	18	17	6	6	6	0
3	57	50	45	40	48	43	38	35	29	27	25	17	16	14	5	5	5	0
4	52	44	38	34	44	38	33	29	26	23	21	15	13	12	5	4	4	0
5	47	39	33	29	40	33	29	25	23	20	18	13	12	10	4	4	3	0
6	43	35	29	25	37	30	25	21	20	17	15	12	10	9	4	3	3	0
7	40	31	25	21	34	27	22	18	18	15	13	11	9	8	3	3	3	0
8	37	28	22	18	31	24	19	16	17	14	11	10	8	7	3	3	2	0
9	34	25	20	16	29	22	17	14	15	12	10	9	7	6	3	2	2	0
10	32	23	18	14	27	20	15	12	14	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°	1.3	0.0	0.0
90°-100°	624.6	2.8	2.2
100°-110°	2184.1	9.6	7.6
110°-120°	3511.3	15.5	12.2
120°-130°	4275.1	18.8	14.8
130°-140°	4296.3	18.9	14.9
140°-150°	3677.3	16.2	12.8
150°-160°	2516.4	11.1	8.7
160°-170°	1262.0	5.6	4.4
170°-180°	344.7	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°	1.3	0.0	0.0
90°-120°	6319.9	27.8	21.9
90°-150°	18568.6	81.8	64.5
90°-180°	22692.0	100.0	78.8
0°-180°	22693.0	100.0	78.8

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	5	10	13	8	29
95°	554	414	647	457	554	647
105°	2509	1768	2130	1764	2509	2594
115°	4030	3201	3630	3162	4030	4008
125°	5341	4351	5193	4379	5341	4735
135°	5842	5161	6187	5231	5842	4513
145°	5908	5669	6102	5713	5908	3709
155°	5641	5336	5374	5373	5641	2593
165°	4506	4371	4294	4393	4506	1294
175°	3476	3475	3484	3481	3476	345
180°	3297	3297	3297	3297	3297	



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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	10	13	13	12	11	10	9	5	5	8
92.5°	196	192	189	176	205	241	279	234	187	138	157
95°	554	524	492	457	532	594	647	586	523	414	510
97.5°	1001	936	870	791	894	958	1032	953	874	740	942
100°	1456	1350	1242	1116	1262	1340	1408	1332	1255	1084	1351
102.5°	1969	1788	1607	1425	1624	1689	1742	1685	1627	1419	1765
105°	2509	2252	1992	1764	1960	2021	2130	2062	1992	1768	2175
107.5°	2945	2661	2377	2066	2295	2421	2549	2449	2348	2075	2534
110°	3368	3061	2752	2398	2636	2798	2923	2810	2695	2396	2891



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	3687	3396	3105	2787	3043	3188	3262	3181	3098	2801	3250
115°	4030	3736	3439	3162	3422	3578	3630	3564	3498	3201	3550
117.5°	4407	4123	3838	3467	3739	3927	4085	3962	3839	3500	3934
120°	4758	4462	4165	3843	4035	4194	4443	4279	4113	3874	4225
122.5°	5059	4764	4467	4147	4326	4550	4855	4626	4394	4158	4475
125°	5341	5045	4747	4379	4531	4875	5193	4885	4577	4351	4707
127.5°	5534	5254	4972	4551	4751	5152	5478	5127	4773	4496	4891
130°	5669	5408	5147	4762	4981	5400	5762	5376	4988	4695	5033
132.5°	5787	5556	5325	5013	5214	5619	6008	5606	5203	4944	5191
135°	5842	5683	5523	5231	5411	5808	6187	5785	5382	5161	5383
137.5°	5896	5792	5686	5404	5552	5969	6272	5896	5518	5335	5549
140°	5926	5856	5785	5548	5675	6074	6262	5952	5640	5487	5657
142.5°	5930	5902	5873	5622	5796	6125	6206	5989	5770	5578	5757
145°	5908	5911	5912	5713	5843	6071	6102	5960	5817	5669	5815
147.5°	5877	5885	5892	5792	5864	5968	5955	5889	5822	5763	5805
150°	5861	5855	5850	5744	5796	5841	5836	5802	5765	5709	5761
152.5°	5803	5773	5740	5585	5588	5629	5645	5603	5560	5553	5644
155°	5641	5600	5556	5373	5345	5371	5374	5349	5322	5336	5459
157.5°	5387	5343	5298	5124	5089	5109	5093	5083	5071	5094	5210
160°	5103	5074	5043	4883	4848	4841	4810	4823	4835	4854	4957
162.5°	4801	4785	4766	4648	4606	4579	4535	4563	4589	4623	4695
165°	4506	4498	4489	4393	4362	4326	4294	4323	4350	4371	4427
167.5°	4201	4200	4197	4124	4099	4079	4079	4086	4092	4107	4147
170°	3905	3909	3913	3865	3856	3858	3862	3857	3850	3850	3876
172.5°	3649	3661	3673	3654	3661	3663	3665	3661	3656	3645	3648
175°	3476	3485	3492	3481	3485	3485	3484	3483	3481	3475	3477
177.5°	3350	3354	3359	3353	3350	3350	3349	3350	3350	3347	3352
180°	3297	3297	3297	3297	3297	3297	3297	3297	3297	3297	3297



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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°	9	8	10	13	13	12	11	10	9	5	5
92.5°	178	196	192	189	176	205	241	279	234	187	138
95°	533	554	524	492	457	532	594	647	586	523	414
97.5°	972	1001	936	870	791	894	958	1032	953	874	740
100°	1404	1456	1350	1242	1116	1262	1340	1408	1332	1255	1084
102.5°	1868	1969	1788	1607	1425	1624	1689	1742	1685	1627	1419
105°	2342	2509	2252	1992	1764	1960	2021	2130	2062	1992	1768
107.5°	2740	2945	2661	2377	2066	2295	2421	2549	2449	2348	2075
110°	3131	3368	3061	2752	2398	2636	2798	2923	2810	2695	2396



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	3469	3687	3396	3105	2787	3043	3188	3262	3181	3098	2801
115°	3791	4030	3736	3439	3162	3422	3578	3630	3564	3498	3201
117.5°	4171	4407	4123	3838	3467	3739	3927	4085	3962	3839	3500
120°	4492	4758	4462	4165	3843	4035	4194	4443	4279	4113	3874
122.5°	4768	5059	4764	4467	4147	4326	4550	4855	4626	4394	4158
125°	5025	5341	5045	4747	4379	4531	4875	5193	4885	4577	4351
127.5°	5213	5534	5254	4972	4551	4751	5152	5478	5127	4773	4496
130°	5352	5669	5408	5147	4762	4981	5400	5762	5376	4988	4695
132.5°	5490	5787	5556	5325	5013	5214	5619	6008	5606	5203	4944
135°	5614	5842	5683	5523	5231	5411	5808	6187	5785	5382	5161
137.5°	5723	5896	5792	5686	5404	5552	5969	6272	5896	5518	5335
140°	5792	5926	5856	5785	5548	5675	6074	6262	5952	5640	5487
142.5°	5844	5930	5902	5873	5622	5796	6125	6206	5989	5770	5578
145°	5862	5908	5911	5912	5713	5843	6071	6102	5960	5817	5669
147.5°	5842	5877	5885	5892	5792	5864	5968	5955	5889	5822	5763
150°	5812	5861	5855	5850	5744	5796	5841	5836	5802	5765	5709
152.5°	5724	5803	5773	5740	5585	5588	5629	5645	5603	5560	5553
155°	5551	5641	5600	5556	5373	5345	5371	5374	5349	5322	5336
157.5°	5299	5387	5343	5298	5124	5089	5109	5093	5083	5071	5094
160°	5030	5103	5074	5043	4883	4848	4841	4810	4823	4835	4854
162.5°	4749	4801	4785	4766	4648	4606	4579	4535	4563	4589	4623
165°	4467	4506	4498	4489	4393	4362	4326	4294	4323	4350	4371
167.5°	4175	4201	4200	4197	4124	4099	4079	4079	4086	4092	4107
170°	3892	3905	3909	3913	3865	3856	3858	3862	3857	3850	3850
172.5°	3650	3649	3661	3673	3654	3661	3663	3665	3661	3656	3645
175°	3477	3476	3485	3492	3481	3485	3485	3484	3483	3481	3475
177.5°	3351	3350	3354	3359	3353	3350	3350	3349	3350	3350	3347
180°	3297	3297	3297	3297	3297	3297	3297	3297	3297	3297	3297



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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°	8	9	8	10	13	13	12	11	10	9	5
92.5°	157	178	196	192	189	176	205	241	279	234	187
95°	510	533	554	524	492	457	532	594	647	586	523
97.5°	942	972	1001	936	870	791	894	958	1032	953	874
100°	1351	1404	1456	1350	1242	1116	1262	1340	1408	1332	1255
102.5°	1765	1868	1969	1788	1607	1425	1624	1689	1742	1685	1627
105°	2175	2342	2509	2252	1992	1764	1960	2021	2130	2062	1992
107.5°	2534	2740	2945	2661	2377	2066	2295	2421	2549	2449	2348
110°	2891	3131	3368	3061	2752	2398	2636	2798	2923	2810	2695



TEST NUMBER: 253p134

CATALOG NUMBER: 1240-OB-36-CFL/6/55

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	3250	3469	3687	3396	3105	2787	3043	3188	3262	3181	3098
115°	3550	3791	4030	3736	3439	3162	3422	3578	3630	3564	3498
117.5°	3934	4171	4407	4123	3838	3467	3739	3927	4085	3962	3839
120°	4225	4492	4758	4462	4165	3843	4035	4194	4443	4279	4113
122.5°	4475	4768	5059	4764	4467	4147	4326	4550	4855	4626	4394
125°	4707	5025	5341	5045	4747	4379	4531	4875	5193	4885	4577
127.5°	4891	5213	5534	5254	4972	4551	4751	5152	5478	5127	4773
130°	5033	5352	5669	5408	5147	4762	4981	5400	5762	5376	4988
132.5°	5191	5490	5787	5556	5325	5013	5214	5619	6008	5606	5203
135°	5383	5614	5842	5683	5523	5231	5411	5808	6187	5785	5382
137.5°	5549	5723	5896	5792	5686	5404	5552	5969	6272	5896	5518
140°	5657	5792	5926	5856	5785	5548	5675	6074	6262	5952	5640
142.5°	5757	5844	5930	5902	5873	5622	5796	6125	6206	5989	5770
145°	5815	5862	5908	5911	5912	5713	5843	6071	6102	5960	5817
147.5°	5805	5842	5877	5885	5892	5792	5864	5968	5955	5889	5822
150°	5761	5812	5861	5855	5850	5744	5796	5841	5836	5802	5765
152.5°	5644	5724	5803	5773	5740	5585	5588	5629	5645	5603	5560
155°	5459	5551	5641	5600	5556	5373	5345	5371	5374	5349	5322
157.5°	5210	5299	5387	5343	5298	5124	5089	5109	5093	5083	5071
160°	4957	5030	5103	5074	5043	4883	4848	4841	4810	4823	4835
162.5°	4695	4749	4801	4785	4766	4648	4606	4579	4535	4563	4589
165°	4427	4467	4506	4498	4489	4393	4362	4326	4294	4323	4350
167.5°	4147	4175	4201	4200	4197	4124	4099	4079	4079	4086	4092
170°	3876	3892	3905	3909	3913	3865	3856	3858	3862	3857	3850
172.5°	3648	3650	3649	3661	3673	3654	3661	3663	3665	3661	3656
175°	3477	3477	3476	3485	3492	3481	3485	3485	3484	3483	3481
177.5°	3352	3351	3350	3354	3359	3353	3350	3350	3349	3350	3350
180°	3297	3297	3297	3297	3297	3297	3297	3297	3297	3297	3297



TEST NUMBER: 253p134

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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°	5	8	9	8
92.5°	138	157	178	196
95°	414	510	533	554
97.5°	740	942	972	1001
100°	1084	1351	1404	1456
102.5°	1419	1765	1868	1969
105°	1768	2175	2342	2509
107.5°	2075	2534	2740	2945
110°	2396	2891	3131	3368



TEST NUMBER: 253p134

CATALOG NUMBER: 1240-OB-36-CFL/6/55

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	2801	3250	3469	3687
115°	3201	3550	3791	4030
117.5°	3500	3934	4171	4407
120°	3874	4225	4492	4758
122.5°	4158	4475	4768	5059
125°	4351	4707	5025	5341
127.5°	4496	4891	5213	5534
130°	4695	5033	5352	5669
132.5°	4944	5191	5490	5787
135°	5161	5383	5614	5842
137.5°	5335	5549	5723	5896
140°	5487	5657	5792	5926
142.5°	5578	5757	5844	5930
145°	5669	5815	5862	5908
147.5°	5763	5805	5842	5877
150°	5709	5761	5812	5861
152.5°	5553	5644	5724	5803
155°	5336	5459	5551	5641
157.5°	5094	5210	5299	5387
160°	4854	4957	5030	5103
162.5°	4623	4695	4749	4801
165°	4371	4427	4467	4506
167.5°	4107	4147	4175	4201
170°	3850	3876	3892	3905
172.5°	3645	3648	3650	3649
175°	3475	3477	3477	3476
177.5°	3347	3352	3351	3350
180°	3297	3297	3297	3297

(END OF REPORT)