

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: 253p132

Luminaire Tested: **1200-OB-36-CFL/3/50**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: 253p132  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 1200-OB-36-CFL/3/50  
Description: SHAPER 36 INCH 1200 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE  
Light Source: THREE - F50BX - 50 WATTS  
THREE GX24 T4 COMPACT FLUORESCENT LAMPS  
Ballast/Driver: -

**Summary**

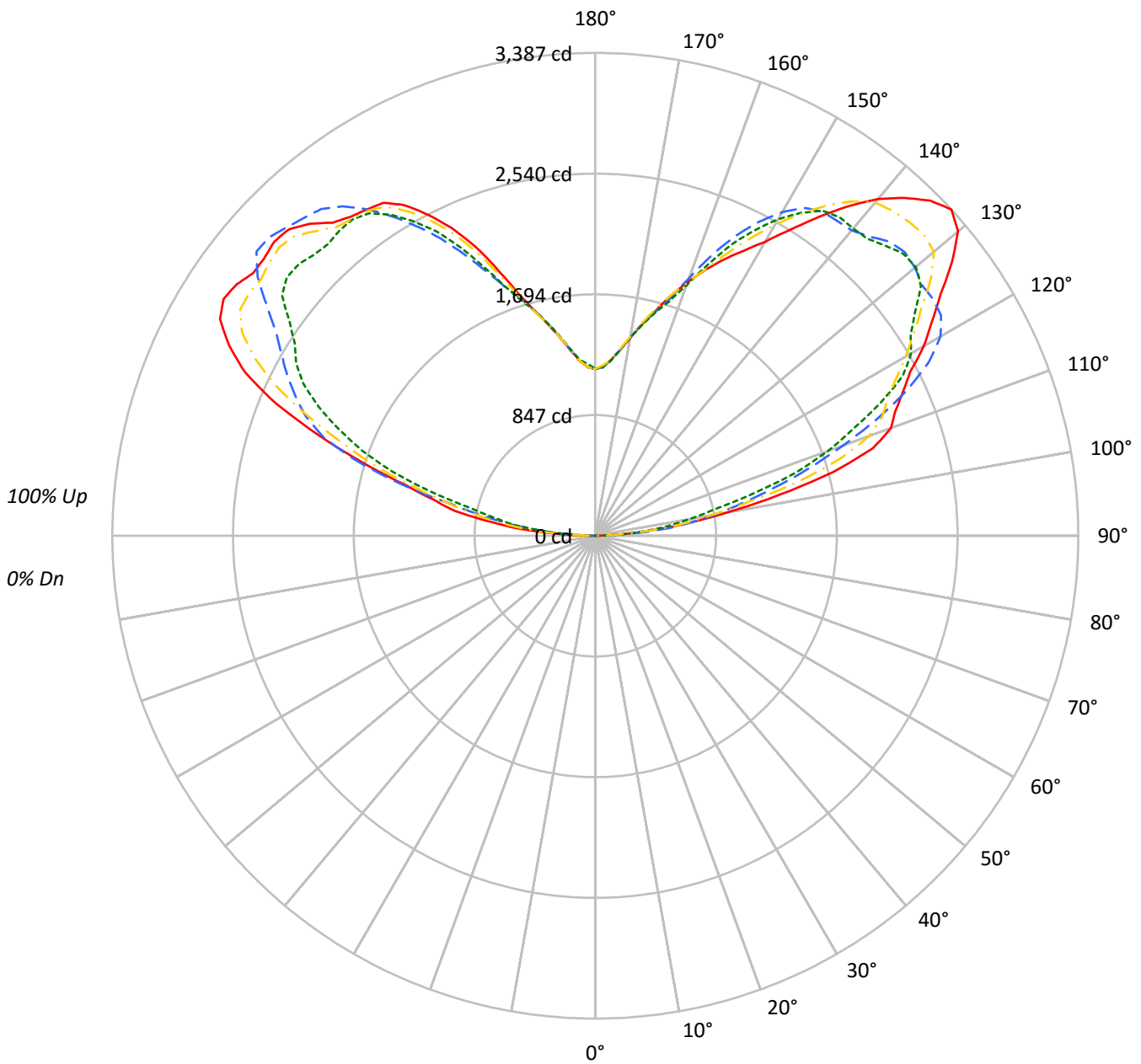
Lumens per Lamp: 4800 (3 lamps)  
Luminaire Lumens: 12460.6 lumens  
Efficiency: 86.5%  
Efficacy: 65.9 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Circular (Dia: 3' x H: 0')  
CIE Type: Indirect

Input Watts (W): 189  
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	82	82	82	82	70	70	70	70	48	48	48	28	28	28	9	9	9	0
1	75	71	68	66	64	61	59	56	42	40	39	24	23	23	8	8	7	0
2	68	62	57	53	58	53	49	46	37	34	32	21	20	19	7	6	6	0
3	62	55	49	44	53	47	42	38	32	29	27	19	17	16	6	6	5	0
4	57	48	42	37	48	41	36	32	28	25	23	16	15	13	5	5	4	0
5	52	43	36	31	44	37	31	27	25	22	19	15	13	11	5	4	4	0
6	47	38	32	27	40	33	27	23	22	19	17	13	11	10	4	4	3	0
7	44	34	28	23	37	29	24	20	20	17	14	12	10	9	4	3	3	0
8	40	31	24	20	34	26	21	18	18	15	12	11	9	7	3	3	2	0
9	37	28	22	18	32	24	19	15	16	13	11	10	8	7	3	3	2	0
10	35	25	19	16	29	22	17	14	15	12	10	9	7	6	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°	0.6	0.0	0.0
90°-100°	424.0	3.4	2.9
100°-110°	1450.7	11.6	10.1
110°-120°	2319.5	18.6	16.1
120°-130°	2561.0	20.6	17.8
130°-140°	2321.4	18.6	16.1
140°-150°	1741.4	14.0	12.1
150°-160°	1046.9	8.4	7.3
160°-170°	471.6	3.8	3.3
170°-180°	123.6	1.0	0.9
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°	0.6	0.0	0.0
90°-120°	4194.2	33.7	29.1
90°-150°	10817.9	86.8	75.1
90°-180°	12460.0	100.0	86.5
0°-180°	12460.6	100.0	86.5

**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°	4	5	5	3	4	18
95°	353	322	510	342	353	408
105°	1726	1148	1380	1187	1726	1754
115°	2378	2207	2710	2139	2378	2373
125°	2956	2736	3072	2616	2956	2662
135°	3323	2877	3039	2788	3323	2544
145°	2729	2782	2793	2761	2729	1723
155°	2139	2250	2380	2228	2139	996
165°	1633	1619	1626	1628	1633	473
175°	1235	1230	1229	1237	1235	123
180°	1170	1170	1170	1170	1170	



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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°	4	4	3	3	4	4	5	5	4	5	5
92.5°	127	126	124	120	140	177	222	193	162	108	111
95°	353	349	344	342	392	459	510	466	420	322	328
97.5°	615	607	599	568	621	673	736	677	617	506	554
100°	937	857	775	711	794	907	999	897	794	668	747
102.5°	1316	1176	1037	892	1002	1106	1158	1095	1030	855	950
105°	1726	1563	1399	1187	1263	1331	1380	1329	1276	1148	1322
107.5°	2040	1883	1725	1486	1542	1596	1712	1643	1571	1477	1672
110°	2205	2098	1989	1735	1770	1917	2067	1937	1806	1732	1973



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	2275	2209	2142	1942	2036	2237	2422	2254	2085	1956	2177
115°	2378	2300	2220	2139	2300	2514	2710	2543	2375	2207	2301
117.5°	2489	2413	2335	2308	2513	2758	2897	2760	2620	2431	2417
120°	2659	2561	2462	2422	2655	2933	3039	2921	2801	2557	2498
122.5°	2799	2699	2599	2497	2770	2980	3091	2999	2906	2622	2604
125°	2956	2847	2739	2616	2819	2962	3072	3000	2928	2736	2762
127.5°	3152	3028	2905	2769	2835	2942	3025	2978	2930	2878	2928
130°	3320	3173	3025	2822	2884	2967	3029	2999	2967	2933	3028
132.5°	3387	3213	3038	2820	2892	2995	3054	3019	2983	2929	3004
135°	3323	3183	3042	2788	2861	2973	3039	2997	2954	2877	2971
137.5°	3214	3131	3048	2774	2797	2895	2968	2922	2875	2825	2960
140°	3082	3061	3039	2793	2771	2821	2866	2840	2813	2813	2960
142.5°	2913	2943	2970	2797	2770	2799	2820	2807	2791	2815	2912
145°	2729	2796	2861	2761	2765	2784	2793	2786	2779	2782	2818
147.5°	2544	2632	2720	2670	2708	2746	2769	2748	2725	2685	2696
150°	2381	2472	2563	2545	2597	2644	2678	2645	2610	2564	2549
152.5°	2254	2318	2382	2404	2458	2503	2538	2506	2472	2414	2382
155°	2139	2169	2200	2228	2296	2342	2380	2347	2312	2250	2193
157.5°	2018	2022	2024	2039	2101	2153	2195	2159	2122	2054	2006
160°	1893	1889	1885	1863	1903	1942	1975	1947	1918	1868	1848
162.5°	1767	1770	1772	1732	1734	1756	1771	1756	1740	1724	1737
165°	1633	1644	1655	1628	1622	1627	1626	1623	1620	1619	1629
167.5°	1521	1530	1538	1522	1518	1518	1514	1516	1517	1514	1519
170°	1408	1416	1423	1415	1412	1411	1407	1410	1411	1409	1411
172.5°	1311	1316	1321	1316	1313	1311	1308	1311	1313	1310	1311
175°	1235	1237	1240	1237	1233	1231	1229	1230	1231	1230	1231
177.5°	1185	1193	1200	1206	1184	1183	1183	1184	1184	1182	1182
180°	1170	1170	1170	1170	1170	1170	1170	1170	1170	1170	1170



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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°	5	4	4	3	3	4	4	5	5	4	5
92.5°	119	127	126	124	120	140	177	222	193	162	108
95°	342	353	349	344	342	392	459	510	466	420	322
97.5°	585	615	607	599	568	621	673	736	677	617	506
100°	842	937	857	775	711	794	907	999	897	794	668
102.5°	1133	1316	1176	1037	892	1002	1106	1158	1095	1030	855
105°	1525	1726	1563	1399	1187	1263	1331	1380	1329	1276	1148
107.5°	1857	2040	1883	1725	1486	1542	1596	1712	1643	1571	1477
110°	2090	2205	2098	1989	1735	1770	1917	2067	1937	1806	1732





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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	2226	2275	2209	2142	1942	2036	2237	2422	2254	2085	1956
115°	2341	2378	2300	2220	2139	2300	2514	2710	2543	2375	2207
117.5°	2454	2489	2413	2335	2308	2513	2758	2897	2760	2620	2431
120°	2579	2659	2561	2462	2422	2655	2933	3039	2921	2801	2557
122.5°	2702	2799	2699	2599	2497	2770	2980	3091	2999	2906	2622
125°	2860	2956	2847	2739	2616	2819	2962	3072	3000	2928	2736
127.5°	3041	3152	3028	2905	2769	2835	2942	3025	2978	2930	2878
130°	3175	3320	3173	3025	2822	2884	2967	3029	2999	2967	2933
132.5°	3196	3387	3213	3038	2820	2892	2995	3054	3019	2983	2929
135°	3148	3323	3183	3042	2788	2861	2973	3039	2997	2954	2877
137.5°	3088	3214	3131	3048	2774	2797	2895	2968	2922	2875	2825
140°	3022	3082	3061	3039	2793	2771	2821	2866	2840	2813	2813
142.5°	2913	2913	2943	2970	2797	2770	2799	2820	2807	2791	2815
145°	2774	2729	2796	2861	2761	2765	2784	2793	2786	2779	2782
147.5°	2620	2544	2632	2720	2670	2708	2746	2769	2748	2725	2685
150°	2466	2381	2472	2563	2545	2597	2644	2678	2645	2610	2564
152.5°	2319	2254	2318	2382	2404	2458	2503	2538	2506	2472	2414
155°	2166	2139	2169	2200	2228	2296	2342	2380	2347	2312	2250
157.5°	2013	2018	2022	2024	2039	2101	2153	2195	2159	2122	2054
160°	1871	1893	1889	1885	1863	1903	1942	1975	1947	1918	1868
162.5°	1752	1767	1770	1772	1732	1734	1756	1771	1756	1740	1724
165°	1632	1633	1644	1655	1628	1622	1627	1626	1623	1620	1619
167.5°	1521	1521	1530	1538	1522	1518	1518	1514	1516	1517	1514
170°	1410	1408	1416	1423	1415	1412	1411	1407	1410	1411	1409
172.5°	1312	1311	1316	1321	1316	1313	1311	1308	1311	1313	1310
175°	1233	1235	1237	1240	1237	1233	1231	1229	1230	1231	1230
177.5°	1184	1185	1193	1200	1206	1184	1183	1183	1184	1184	1182
180°	1170	1170	1170	1170	1170	1170	1170	1170	1170	1170	1170



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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°	5	5	4	4	3	3	4	4	5	5	4
92.5°	111	119	127	126	124	120	140	177	222	193	162
95°	328	342	353	349	344	342	392	459	510	466	420
97.5°	554	585	615	607	599	568	621	673	736	677	617
100°	747	842	937	857	775	711	794	907	999	897	794
102.5°	950	1133	1316	1176	1037	892	1002	1106	1158	1095	1030
105°	1322	1525	1726	1563	1399	1187	1263	1331	1380	1329	1276
107.5°	1672	1857	2040	1883	1725	1486	1542	1596	1712	1643	1571
110°	1973	2090	2205	2098	1989	1735	1770	1917	2067	1937	1806



TEST NUMBER: 253p132

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**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	2177	2226	2275	2209	2142	1942	2036	2237	2422	2254	2085
115°	2301	2341	2378	2300	2220	2139	2300	2514	2710	2543	2375
117.5°	2417	2454	2489	2413	2335	2308	2513	2758	2897	2760	2620
120°	2498	2579	2659	2561	2462	2422	2655	2933	3039	2921	2801
122.5°	2604	2702	2799	2699	2599	2497	2770	2980	3091	2999	2906
125°	2762	2860	2956	2847	2739	2616	2819	2962	3072	3000	2928
127.5°	2928	3041	3152	3028	2905	2769	2835	2942	3025	2978	2930
130°	3028	3175	3320	3173	3025	2822	2884	2967	3029	2999	2967
132.5°	3004	3196	3387	3213	3038	2820	2892	2995	3054	3019	2983
135°	2971	3148	3323	3183	3042	2788	2861	2973	3039	2997	2954
137.5°	2960	3088	3214	3131	3048	2774	2797	2895	2968	2922	2875
140°	2960	3022	3082	3061	3039	2793	2771	2821	2866	2840	2813
142.5°	2912	2913	2913	2943	2970	2797	2770	2799	2820	2807	2791
145°	2818	2774	2729	2796	2861	2761	2765	2784	2793	2786	2779
147.5°	2696	2620	2544	2632	2720	2670	2708	2746	2769	2748	2725
150°	2549	2466	2381	2472	2563	2545	2597	2644	2678	2645	2610
152.5°	2382	2319	2254	2318	2382	2404	2458	2503	2538	2506	2472
155°	2193	2166	2139	2169	2200	2228	2296	2342	2380	2347	2312
157.5°	2006	2013	2018	2022	2024	2039	2101	2153	2195	2159	2122
160°	1848	1871	1893	1889	1885	1863	1903	1942	1975	1947	1918
162.5°	1737	1752	1767	1770	1772	1732	1734	1756	1771	1756	1740
165°	1629	1632	1633	1644	1655	1628	1622	1627	1626	1623	1620
167.5°	1519	1521	1521	1530	1538	1522	1518	1518	1514	1516	1517
170°	1411	1410	1408	1416	1423	1415	1412	1411	1407	1410	1411
172.5°	1311	1312	1311	1316	1321	1316	1313	1311	1308	1311	1313
175°	1231	1233	1235	1237	1240	1237	1233	1231	1229	1230	1231
177.5°	1182	1184	1185	1193	1200	1206	1184	1183	1183	1184	1184
180°	1170	1170	1170	1170	1170	1170	1170	1170	1170	1170	1170



TEST NUMBER: 253p132

CATALOG NUMBER: 1200-OB-36-CFL/3/50

**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	5	5	4
92.5°	108	111	119	127
95°	322	328	342	353
97.5°	506	554	585	615
100°	668	747	842	937
102.5°	855	950	1133	1316
105°	1148	1322	1525	1726
107.5°	1477	1672	1857	2040
110°	1732	1973	2090	2205



TEST NUMBER: 253p132

CATALOG NUMBER: 1200-OB-36-CFL/3/50

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	1956	2177	2226	2275
115°	2207	2301	2341	2378
117.5°	2431	2417	2454	2489
120°	2557	2498	2579	2659
122.5°	2622	2604	2702	2799
125°	2736	2762	2860	2956
127.5°	2878	2928	3041	3152
130°	2933	3028	3175	3320
132.5°	2929	3004	3196	3387
135°	2877	2971	3148	3323
137.5°	2825	2960	3088	3214
140°	2813	2960	3022	3082
142.5°	2815	2912	2913	2913
145°	2782	2818	2774	2729
147.5°	2685	2696	2620	2544
150°	2564	2549	2466	2381
152.5°	2414	2382	2319	2254
155°	2250	2193	2166	2139
157.5°	2054	2006	2013	2018
160°	1868	1848	1871	1893
162.5°	1724	1737	1752	1767
165°	1619	1629	1632	1633
167.5°	1514	1519	1521	1521
170°	1409	1411	1410	1408
172.5°	1310	1311	1312	1311
175°	1230	1231	1233	1235
177.5°	1182	1182	1184	1185
180°	1170	1170	1170	1170

(END OF REPORT)