

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: 253p147

Luminaire Tested: **1270-36-CFL/3/55**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: 253p147  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 1270-36-CFL/3/55  
Description: SHAPER 36 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE  
Light Source: THREE 55 WATT GX24 T4 COMPACT FLUORESCENT LAMPS  
(3)- F55BX - 4800 LUMENS - 55 WATTS  
Ballast/Driver: -

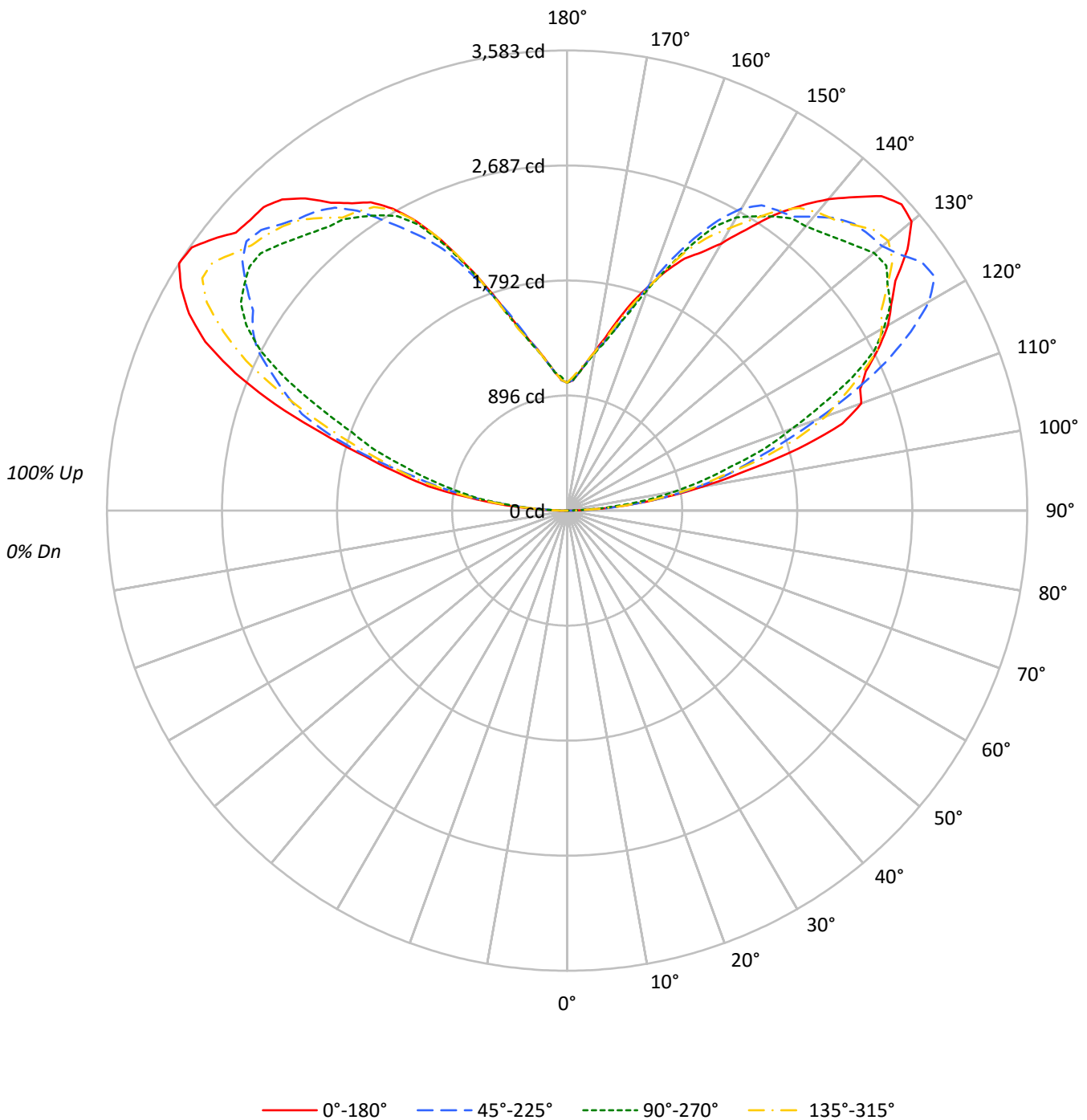
**Summary**

Lumens per Lamp: 4800 (3 lamps)  
Luminaire Lumens: 13392.9 lumens  
Efficiency: 93.0%  
Efficacy: 78.3 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Circular (Dia: 3' x H: 0')  
CIE Type: Indirect

Input Watts (W): 171  
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





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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	89	89	89	89	76	76	76	76	52	52	52	30	30	30	10	10	10	0
1	81	77	73	70	69	66	63	61	45	43	42	26	25	24	8	8	8	0
2	73	67	62	57	62	57	53	50	39	37	35	23	21	20	7	7	7	0
3	67	59	53	48	57	50	45	41	35	31	29	20	18	17	6	6	6	0
4	61	52	45	40	52	44	39	35	31	27	24	18	16	14	6	5	5	0
5	56	46	39	34	47	39	34	29	27	24	21	16	14	12	5	5	4	0
6	51	41	34	29	43	35	29	25	24	21	18	14	12	11	5	4	3	0
7	47	36	30	25	40	31	26	22	22	18	15	13	11	9	4	3	3	0
8	43	33	26	22	37	28	23	19	20	16	13	11	9	8	4	3	3	0
9	40	30	23	19	34	26	20	17	18	14	12	10	8	7	3	3	2	0
10	37	27	21	17	32	23	18	15	16	13	10	9	8	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°	1.5	0.0	0.0
90°-100°	492.2	3.7	3.4
100°-110°	1624.7	12.1	11.3
110°-120°	2590.8	19.3	18.0
120°-130°	2854.0	21.3	19.8
130°-140°	2443.6	18.2	17.0
140°-150°	1783.4	13.3	12.4
150°-160°	1056.4	7.9	7.3
160°-170°	437.6	3.3	3.0
170°-180°	108.8	0.8	0.8
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°	1.5	0.0	0.0
90°-120°	4707.6	35.2	32.7
90°-150°	11788.7	88.0	81.9
90°-180°	13391.0	100.0	93.0
0°-180°	13392.9	100.0	93.0

**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°	7	8	22	10	7	23
95°	459	358	482	397	459	492
105°	1864	1318	1627	1298	1864	1920
115°	2567	2448	3109	2404	2567	2585
125°	3119	3047	3570	3068	3119	2830
135°	3462	2989	3342	2994	3462	2644
145°	2808	2796	2920	2793	2808	1765
155°	2165	2278	2324	2301	2165	1000
165°	1538	1465	1483	1470	1538	447
175°	1078	1078	1079	1080	1078	109
180°	996	996	996	996	996	



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**CANDELA DISTRIBUTION (FULL):**

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
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°	7	8	10	11	22	13	8	7	7	8	10
92.5°	156	188	182	212	208	158	130	130	156	188	182
95°	459	439	397	433	482	425	358	379	459	439	397
97.5°	736	709	671	743	762	716	619	663	736	709	671
100°	1070	951	864	974	1099	962	845	932	1070	951	864
102.5°	1417	1163	1079	1240	1345	1241	1080	1151	1417	1163	1079
105°	1864	1464	1298	1437	1627	1441	1318	1476	1864	1464	1298
107.5°	2246	1762	1571	1680	1992	1704	1620	1801	2246	1762	1571
110°	2437	2044	1783	1952	2419	1979	1860	2117	2437	2044	1783



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**CANDELA DISTRIBUTION (continued):**

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	2470	2278	2077	2281	2797	2298	2141	2337	2470	2278	2077
115°	2567	2522	2404	2619	3109	2641	2448	2534	2567	2522	2404
117.5°	2732	2729	2688	2915	3319	2915	2697	2719	2732	2729	2688
120°	2884	2810	2884	3183	3470	3162	2849	2811	2884	2810	2884
122.5°	2993	2869	3013	3328	3583	3298	2985	2870	2993	2869	3013
125°	3119	3015	3068	3306	3570	3303	3047	3026	3119	3015	3068
127.5°	3340	3144	3119	3204	3474	3221	3133	3136	3340	3144	3119
130°	3501	3187	3116	3147	3367	3159	3120	3181	3501	3187	3116
132.5°	3531	3139	3056	3130	3348	3118	3051	3133	3531	3139	3056
135°	3462	3042	2994	3096	3342	3060	2989	3049	3462	3042	2994
137.5°	3310	2996	2937	3024	3286	2999	2935	3011	3310	2996	2937
140°	3164	2987	2886	2922	3173	2908	2891	3000	3164	2987	2886
142.5°	2994	2961	2860	2839	3022	2827	2868	2966	2994	2961	2860
145°	2808	2863	2793	2832	2920	2817	2796	2864	2808	2863	2793
147.5°	2592	2719	2726	2809	2846	2788	2717	2717	2592	2719	2726
150°	2401	2587	2648	2717	2714	2698	2635	2575	2401	2587	2648
152.5°	2266	2453	2509	2550	2538	2535	2493	2427	2266	2453	2509
155°	2165	2275	2301	2341	2324	2326	2278	2246	2165	2275	2301
157.5°	2021	2049	2072	2119	2086	2097	2045	2024	2021	2049	2072
160°	1859	1841	1852	1869	1863	1853	1829	1823	1859	1841	1852
162.5°	1707	1664	1637	1644	1658	1630	1624	1654	1707	1664	1637
165°	1538	1502	1470	1461	1483	1456	1465	1498	1538	1502	1470
167.5°	1381	1359	1344	1347	1359	1344	1338	1354	1381	1359	1344
170°	1262	1256	1251	1253	1259	1252	1247	1252	1262	1256	1251
172.5°	1164	1172	1158	1159	1162	1159	1157	1160	1164	1172	1158
175°	1078	1110	1080	1078	1079	1081	1078	1078	1078	1110	1080
177.5°	1014	1050	1043	1016	1016	1017	1015	1015	1014	1050	1043
180°	996	996	996	996	996	996	996	996	996	996	996



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**CANDELA DISTRIBUTION (continued):**

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	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°	11	22	13	8	7	7	8	10	11	22	13
92.5°	212	208	158	130	130	156	188	182	212	208	158
95°	433	482	425	358	379	459	439	397	433	482	425
97.5°	743	762	716	619	663	736	709	671	743	762	716
100°	974	1099	962	845	932	1070	951	864	974	1099	962
102.5°	1240	1345	1241	1080	1151	1417	1163	1079	1240	1345	1241
105°	1437	1627	1441	1318	1476	1864	1464	1298	1437	1627	1441
107.5°	1680	1992	1704	1620	1801	2246	1762	1571	1680	1992	1704
110°	1952	2419	1979	1860	2117	2437	2044	1783	1952	2419	1979





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**CANDELA DISTRIBUTION (continued):**

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	2281	2797	2298	2141	2337	2470	2278	2077	2281	2797	2298
115°	2619	3109	2641	2448	2534	2567	2522	2404	2619	3109	2641
117.5°	2915	3319	2915	2697	2719	2732	2729	2688	2915	3319	2915
120°	3183	3470	3162	2849	2811	2884	2810	2884	3183	3470	3162
122.5°	3328	3583	3298	2985	2870	2993	2869	3013	3328	3583	3298
125°	3306	3570	3303	3047	3026	3119	3015	3068	3306	3570	3303
127.5°	3204	3474	3221	3133	3136	3340	3144	3119	3204	3474	3221
130°	3147	3367	3159	3120	3181	3501	3187	3116	3147	3367	3159
132.5°	3130	3348	3118	3051	3133	3531	3139	3056	3130	3348	3118
135°	3096	3342	3060	2989	3049	3462	3042	2994	3096	3342	3060
137.5°	3024	3286	2999	2935	3011	3310	2996	2937	3024	3286	2999
140°	2922	3173	2908	2891	3000	3164	2987	2886	2922	3173	2908
142.5°	2839	3022	2827	2868	2966	2994	2961	2860	2839	3022	2827
145°	2832	2920	2817	2796	2864	2808	2863	2793	2832	2920	2817
147.5°	2809	2846	2788	2717	2717	2592	2719	2726	2809	2846	2788
150°	2717	2714	2698	2635	2575	2401	2587	2648	2717	2714	2698
152.5°	2550	2538	2535	2493	2427	2266	2453	2509	2550	2538	2535
155°	2341	2324	2326	2278	2246	2165	2275	2301	2341	2324	2326
157.5°	2119	2086	2097	2045	2024	2021	2049	2072	2119	2086	2097
160°	1869	1863	1853	1829	1823	1859	1841	1852	1869	1863	1853
162.5°	1644	1658	1630	1624	1654	1707	1664	1637	1644	1658	1630
165°	1461	1483	1456	1465	1498	1538	1502	1470	1461	1483	1456
167.5°	1347	1359	1344	1338	1354	1381	1359	1344	1347	1359	1344
170°	1253	1259	1252	1247	1252	1262	1256	1251	1253	1259	1252
172.5°	1159	1162	1159	1157	1160	1164	1172	1158	1159	1162	1159
175°	1078	1079	1081	1078	1078	1078	1110	1080	1078	1079	1081
177.5°	1016	1016	1017	1015	1015	1014	1050	1043	1016	1016	1017
180°	996	996	996	996	996	996	996	996	996	996	996



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**CANDELA DISTRIBUTION (continued):**

	330°	340°	360°
0°	0	0	0
2.5°	0	0	0
5°	0	0	0
7.5°	0	0	0
10°	0	0	0
12.5°	0	0	0
15°	0	0	0
17.5°	0	0	0
20°	0	0	0
22.5°	0	0	0
25°	0	0	0
27.5°	0	0	0
30°	0	0	0
32.5°	0	0	0
35°	0	0	0
37.5°	0	0	0
40°	0	0	0
42.5°	0	0	0
45°	0	0	0
47.5°	0	0	0
50°	0	0	0
52.5°	0	0	0
55°	0	0	0
57.5°	0	0	0
60°	0	0	0
62.5°	0	0	0
65°	0	0	0
67.5°	0	0	0
70°	0	0	0
72.5°	0	0	0
75°	0	0	0
77.5°	0	0	0
80°	0	0	0
82.5°	0	0	0
85°	0	0	0
87.5°	0	0	0
90°	8	7	7
92.5°	130	130	156
95°	358	379	459
97.5°	619	663	736
100°	845	932	1070
102.5°	1080	1151	1417
105°	1318	1476	1864
107.5°	1620	1801	2246
110°	1860	2117	2437



TEST NUMBER: 253p147

CATALOG NUMBER: 1270-36-CFL/3/55

**CANDELA DISTRIBUTION (continued):**

	330°	340°	360°
112.5°	2141	2337	2470
115°	2448	2534	2567
117.5°	2697	2719	2732
120°	2849	2811	2884
122.5°	2985	2870	2993
125°	3047	3026	3119
127.5°	3133	3136	3340
130°	3120	3181	3501
132.5°	3051	3133	3531
135°	2989	3049	3462
137.5°	2935	3011	3310
140°	2891	3000	3164
142.5°	2868	2966	2994
145°	2796	2864	2808
147.5°	2717	2717	2592
150°	2635	2575	2401
152.5°	2493	2427	2266
155°	2278	2246	2165
157.5°	2045	2024	2021
160°	1829	1823	1859
162.5°	1624	1654	1707
165°	1465	1498	1538
167.5°	1338	1354	1381
170°	1247	1252	1262
172.5°	1157	1160	1164
175°	1078	1078	1078
177.5°	1015	1015	1014
180°	996	996	996

(END OF REPORT)