

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: 253p150

Luminaire Tested: **1270-36-CFL/3/50**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: 253p150  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 1270-36-CFL/3/50  
Description: SHAPER 36 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE  
Light Source: THREE 50 WATT GX24 T4 COMPACT FLUORESCENT LAMPS  
(3)F50BX - 4000 LUMENS - 50 WATTS  
Ballast/Driver: -

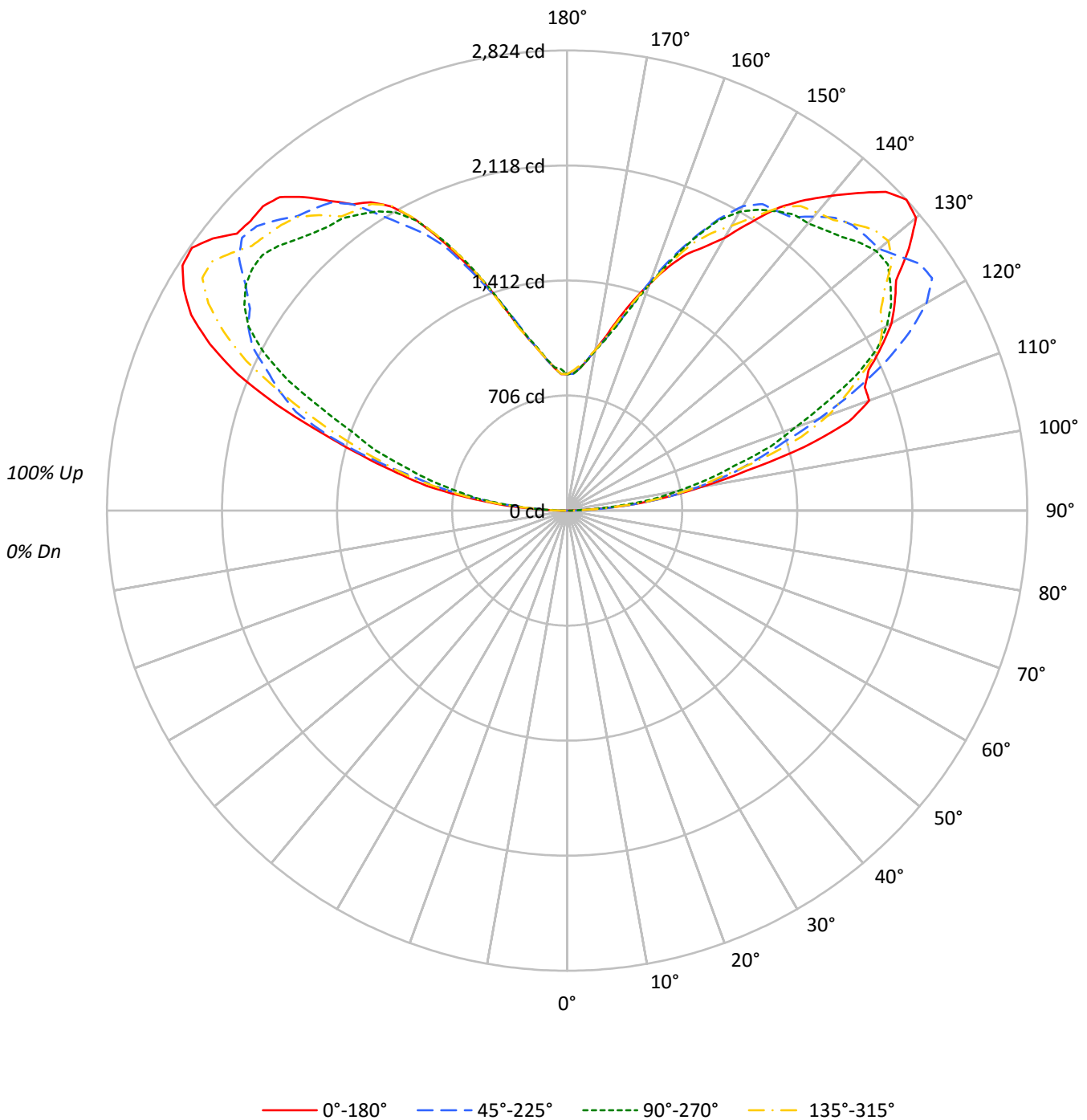
**Summary**

Lumens per Lamp: 4000 (3 lamps)  
Luminaire Lumens: 10628.8 lumens  
Efficiency: 88.6%  
Efficacy: 57.1 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Circular (Dia: 3' x H: 0')  
CIE Type: Indirect

Input Watts (W): 186  
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	84	84	84	84	72	72	72	72	49	49	49	28	28	28	9	9	9	0
1	77	73	70	67	65	63	60	58	43	41	40	25	24	23	8	8	8	0
2	70	64	59	55	59	55	51	47	37	35	33	22	20	19	7	7	6	0
3	64	56	50	45	54	48	43	39	33	30	28	19	18	16	6	6	5	0
4	58	49	43	38	49	42	37	33	29	26	23	17	15	14	5	5	5	0
5	53	44	37	32	45	37	32	28	26	22	20	15	13	12	5	4	4	0
6	49	39	32	28	41	33	28	24	23	20	17	13	12	10	4	4	3	0
7	45	35	28	24	38	30	25	21	21	17	15	12	10	9	4	3	3	0
8	41	31	25	21	35	27	22	18	19	15	13	11	9	8	4	3	3	0
9	38	28	22	18	32	24	19	16	17	14	11	10	8	7	3	3	2	0
10	35	26	20	16	30	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°	1.3	0.0	0.0
90°-100°	396.2	3.7	3.3
100°-110°	1298.8	12.2	10.8
110°-120°	2049.3	19.3	17.1
120°-130°	2249.6	21.2	18.7
130°-140°	1933.7	18.2	16.1
140°-150°	1418.5	13.3	11.8
150°-160°	844.3	7.9	7.0
160°-170°	349.3	3.3	2.9
170°-180°	87.8	0.8	0.7
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°	3744.3	35.2	31.2
90°-150°	9346.1	87.9	77.9
90°-180°	10627.0	100.0	88.6
0°-180°	10628.8	100.0	88.6

**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	7	16	9	8	19
95°	367	295	388	321	367	392
105°	1504	1064	1302	1026	1504	1543
115°	2042	1952	2419	1888	2042	2065
125°	2464	2422	2811	2408	2464	2248
135°	2766	2377	2641	2352	2766	2112
145°	2272	2242	2295	2219	2272	1420
155°	1737	1840	1834	1848	1737	802
165°	1217	1173	1177	1182	1217	354
175°	875	874	877	882	875	88
180°	837	837	837	837	837	



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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°	8	8	9	12	16	10	7	6	8	8	9
92.5°	120	145	147	171	166	119	94	96	120	145	147
95°	367	352	321	358	388	345	295	304	367	352	321
97.5°	593	581	542	604	616	580	523	540	593	581	542
100°	842	770	685	776	875	767	689	752	842	770	685
102.5°	1127	925	862	1003	1066	1001	881	920	1127	925	862
105°	1504	1161	1026	1161	1302	1163	1064	1185	1504	1161	1026
107.5°	1812	1405	1237	1335	1570	1357	1308	1455	1812	1405	1237
110°	1973	1615	1395	1558	1891	1574	1487	1703	1973	1615	1395



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**CANDELA DISTRIBUTION (continued):**

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	1977	1810	1621	1805	2190	1816	1707	1885	1977	1810	1621
115°	2042	1989	1888	2065	2419	2090	1952	2027	2042	1989	1888
117.5°	2174	2157	2097	2289	2601	2301	2142	2177	2174	2157	2097
120°	2299	2211	2256	2489	2716	2484	2265	2247	2299	2211	2256
122.5°	2385	2247	2349	2608	2799	2607	2358	2282	2385	2247	2349
125°	2464	2352	2408	2584	2811	2614	2422	2389	2464	2352	2408
127.5°	2645	2468	2436	2506	2742	2548	2481	2502	2645	2468	2436
130°	2795	2500	2441	2450	2645	2487	2478	2542	2795	2500	2441
132.5°	2824	2462	2404	2442	2633	2459	2434	2504	2824	2462	2404
135°	2766	2393	2352	2423	2641	2426	2377	2438	2766	2393	2352
137.5°	2643	2344	2309	2378	2610	2388	2337	2387	2643	2344	2309
140°	2521	2342	2277	2303	2512	2318	2301	2383	2521	2342	2277
142.5°	2402	2340	2262	2225	2395	2235	2289	2376	2402	2340	2262
145°	2272	2271	2219	2227	2295	2235	2242	2301	2272	2271	2219
147.5°	2096	2148	2177	2225	2244	2227	2189	2173	2096	2148	2177
150°	1931	2046	2113	2159	2154	2161	2117	2063	1931	2046	2113
152.5°	1823	1953	2007	2019	2011	2017	2007	1954	1823	1953	2007
155°	1737	1825	1848	1854	1834	1851	1840	1815	1737	1825	1848
157.5°	1616	1642	1675	1686	1653	1679	1657	1628	1616	1642	1675
160°	1480	1473	1499	1503	1490	1493	1477	1461	1480	1473	1499
162.5°	1351	1331	1326	1315	1320	1305	1309	1322	1351	1331	1326
165°	1217	1199	1182	1170	1177	1164	1173	1189	1217	1199	1182
167.5°	1091	1082	1081	1077	1074	1072	1072	1074	1091	1082	1081
170°	1001	1002	1004	999	998	997	996	998	1001	1002	1004
172.5°	928	941	934	930	930	930	927	929	928	941	934
175°	875	900	882	875	877	877	874	874	875	900	882
177.5°	842	867	869	841	838	840	840	839	842	867	869
180°	837	837	837	837	837	837	837	837	837	837	837



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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°	12	16	10	7	6	8	8	9	12	16	10
92.5°	171	166	119	94	96	120	145	147	171	166	119
95°	358	388	345	295	304	367	352	321	358	388	345
97.5°	604	616	580	523	540	593	581	542	604	616	580
100°	776	875	767	689	752	842	770	685	776	875	767
102.5°	1003	1066	1001	881	920	1127	925	862	1003	1066	1001
105°	1161	1302	1163	1064	1185	1504	1161	1026	1161	1302	1163
107.5°	1335	1570	1357	1308	1455	1812	1405	1237	1335	1570	1357
110°	1558	1891	1574	1487	1703	1973	1615	1395	1558	1891	1574





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**CANDELA DISTRIBUTION (continued):**

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	1805	2190	1816	1707	1885	1977	1810	1621	1805	2190	1816
115°	2065	2419	2090	1952	2027	2042	1989	1888	2065	2419	2090
117.5°	2289	2601	2301	2142	2177	2174	2157	2097	2289	2601	2301
120°	2489	2716	2484	2265	2247	2299	2211	2256	2489	2716	2484
122.5°	2608	2799	2607	2358	2282	2385	2247	2349	2608	2799	2607
125°	2584	2811	2614	2422	2389	2464	2352	2408	2584	2811	2614
127.5°	2506	2742	2548	2481	2502	2645	2468	2436	2506	2742	2548
130°	2450	2645	2487	2478	2542	2795	2500	2441	2450	2645	2487
132.5°	2442	2633	2459	2434	2504	2824	2462	2404	2442	2633	2459
135°	2423	2641	2426	2377	2438	2766	2393	2352	2423	2641	2426
137.5°	2378	2610	2388	2337	2387	2643	2344	2309	2378	2610	2388
140°	2303	2512	2318	2301	2383	2521	2342	2277	2303	2512	2318
142.5°	2225	2395	2235	2289	2376	2402	2340	2262	2225	2395	2235
145°	2227	2295	2235	2242	2301	2272	2271	2219	2227	2295	2235
147.5°	2225	2244	2227	2189	2173	2096	2148	2177	2225	2244	2227
150°	2159	2154	2161	2117	2063	1931	2046	2113	2159	2154	2161
152.5°	2019	2011	2017	2007	1954	1823	1953	2007	2019	2011	2017
155°	1854	1834	1851	1840	1815	1737	1825	1848	1854	1834	1851
157.5°	1686	1653	1679	1657	1628	1616	1642	1675	1686	1653	1679
160°	1503	1490	1493	1477	1461	1480	1473	1499	1503	1490	1493
162.5°	1315	1320	1305	1309	1322	1351	1331	1326	1315	1320	1305
165°	1170	1177	1164	1173	1189	1217	1199	1182	1170	1177	1164
167.5°	1077	1074	1072	1072	1074	1091	1082	1081	1077	1074	1072
170°	999	998	997	996	998	1001	1002	1004	999	998	997
172.5°	930	930	930	927	929	928	941	934	930	930	930
175°	875	877	877	874	874	875	900	882	875	877	877
177.5°	841	838	840	840	839	842	867	869	841	838	840
180°	837	837	837	837	837	837	837	837	837	837	837



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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°	7	6	8
92.5°	94	96	120
95°	295	304	367
97.5°	523	540	593
100°	689	752	842
102.5°	881	920	1127
105°	1064	1185	1504
107.5°	1308	1455	1812
110°	1487	1703	1973



TEST NUMBER: 253p150

CATALOG NUMBER: 1270-36-CFL/3/50

**CANDELA DISTRIBUTION (continued):**

	330°	340°	360°
112.5°	1707	1885	1977
115°	1952	2027	2042
117.5°	2142	2177	2174
120°	2265	2247	2299
122.5°	2358	2282	2385
125°	2422	2389	2464
127.5°	2481	2502	2645
130°	2478	2542	2795
132.5°	2434	2504	2824
135°	2377	2438	2766
137.5°	2337	2387	2643
140°	2301	2383	2521
142.5°	2289	2376	2402
145°	2242	2301	2272
147.5°	2189	2173	2096
150°	2117	2063	1931
152.5°	2007	1954	1823
155°	1840	1815	1737
157.5°	1657	1628	1616
160°	1477	1461	1480
162.5°	1309	1322	1351
165°	1173	1189	1217
167.5°	1072	1074	1091
170°	996	998	1001
172.5°	927	929	928
175°	874	874	875
177.5°	840	839	842
180°	837	837	837

(END OF REPORT)