

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: 253p149

Luminaire Tested: **1270-36-CFL/6/50**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: 253p149  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 1270-36-CFL/6/50  
Description: SHAPER 36 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE  
Light Source: SIX 50 WATT GX24 T5 COMPACT FLUORESCENT LAMPS  
(6)F50BX - 4000 LUMENS - 50 WATTS  
Ballast/Driver: -

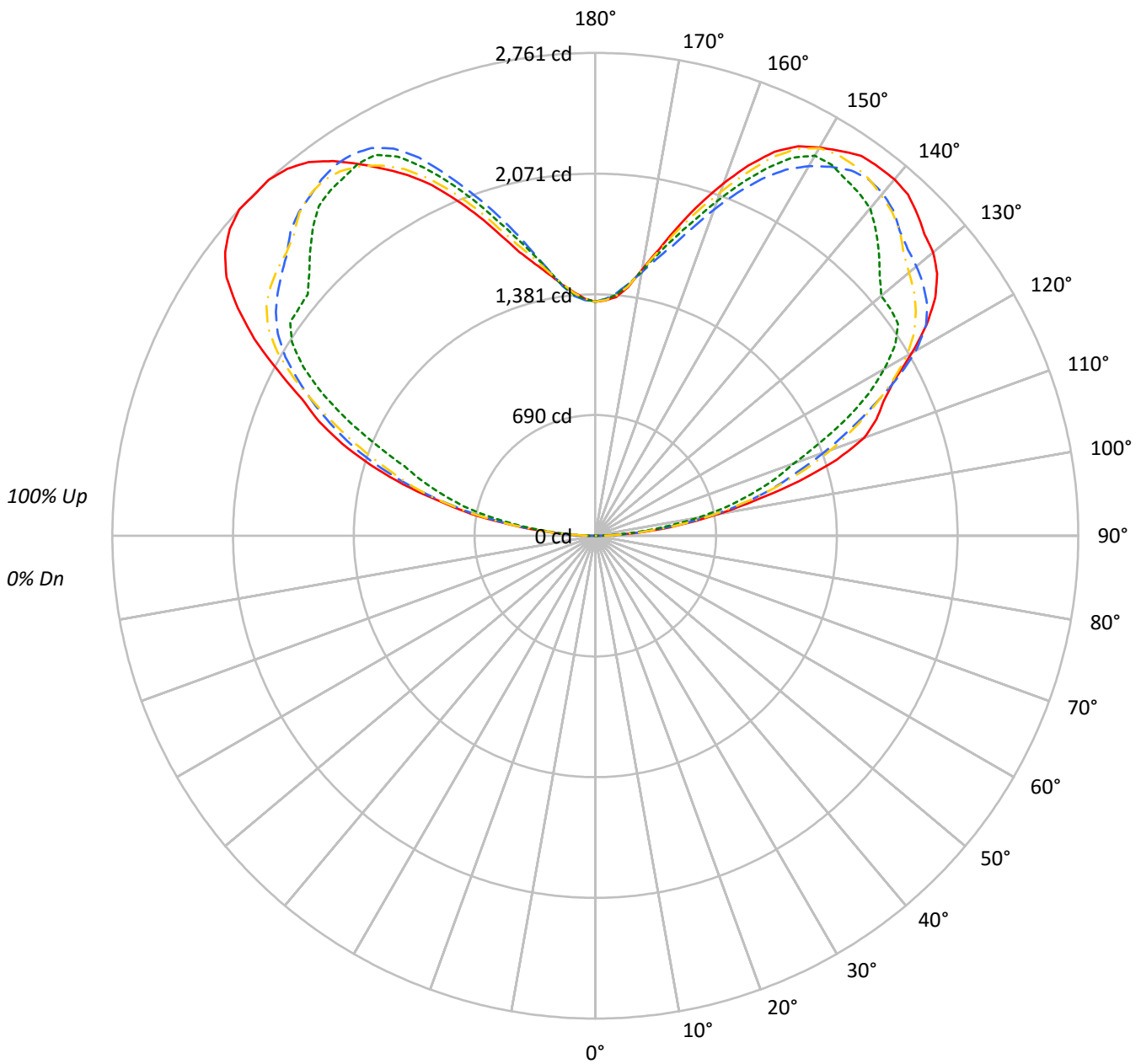
**Summary**

Lumens per Lamp: 4000 (6 lamps)  
Luminaire Lumens: 10413.9 lumens  
Efficiency: 43.4%  
Efficacy: 27.8 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Circular (Dia: 3' x H: 0')  
CIE Type: Indirect

Input Watts (W): 375  
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									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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	41	41	41	41	35	35	35	35	24	24	24	14	14	14	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0																
1	38	36	34	33	32	31	29	28	21	20	20	12	12	11	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0																
2	34	31	29	27	29	27	25	23	18	17	16	11	10	9	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0																
3	31	27	25	22	26	23	21	19	16	15	14	9	9	8	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0																
4	28	24	21	19	24	21	18	16	14	13	11	8	7	7	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0																
5	26	21	18	16	22	18	16	14	13	11	10	7	6	6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0																
6	24	19	16	13	20	16	14	12	11	10	8	7	6	5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0																
7	22	17	14	12	19	15	12	10	10	8	7	6	5	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0																
8	20	15	12	10	17	13	11	9	9	7	6	5	4	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0																
9	19	14	11	9	16	12	9	8	8	7	5	5	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0																
10	17	13	10	8	15	11	8	7	8	6	5	4	4	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	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°	2.3	0.0	0.0
90°-100°	329.7	3.2	1.4
100°-110°	1110.1	10.7	4.6
110°-120°	1722.8	16.5	7.2
120°-130°	2020.3	19.4	8.4
130°-140°	1907.2	18.3	7.9
140°-150°	1603.8	15.4	6.7
150°-160°	1071.1	10.3	4.5
160°-170°	509.7	4.9	2.1
170°-180°	136.9	1.3	0.6
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°	2.3	0.0	0.0
90°-120°	3162.6	30.4	13.2
90°-150°	8693.9	83.5	36.2
90°-180°	10412.0	100.0	43.4
0°-180°	10413.9	100.0	43.4

**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°	19	13	19	13	19	22
95°	313	237	293	248	313	336
105°	1204	925	1139	896	1204	1256
115°	1818	1586	1849	1560	1818	1820
125°	2372	2112	2574	2129	2372	2101
135°	2603	2292	2757	2305	2603	2010
145°	2652	2491	2615	2503	2652	1655
155°	2422	2318	2213	2323	2422	1114
165°	1831	1767	1679	1769	1831	529
175°	1370	1384	1397	1384	1370	136
180°	1338	1338	1338	1338	1338	



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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°	19	16	13	15	19	16	13	17	19	16	13
92.5°	125	127	112	121	118	103	89	103	125	127	112
95°	313	289	248	267	293	280	237	271	313	289	248
97.5°	503	478	426	475	493	472	412	470	503	478	426
100°	711	667	600	671	720	681	597	673	711	667	600
102.5°	938	845	763	866	911	883	772	865	938	845	763
105°	1204	1014	896	1030	1139	1054	925	1047	1204	1014	896
107.5°	1447	1192	1034	1165	1345	1188	1075	1226	1447	1192	1034
110°	1635	1364	1161	1339	1541	1351	1205	1402	1635	1364	1161



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**CANDELA DISTRIBUTION (continued):**

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	1739	1550	1351	1518	1709	1527	1389	1575	1739	1550	1351
115°	1818	1743	1560	1716	1849	1718	1586	1751	1818	1743	1560
117.5°	1925	1911	1756	1909	2045	1900	1764	1904	1925	1911	1756
120°	2089	2045	1925	2072	2250	2048	1908	2031	2089	2045	1925
122.5°	2245	2133	2056	2183	2422	2150	2033	2122	2245	2133	2056
125°	2372	2192	2129	2228	2574	2202	2112	2182	2372	2192	2129
127.5°	2463	2240	2136	2261	2667	2232	2128	2229	2463	2240	2136
130°	2521	2281	2147	2286	2728	2253	2133	2278	2521	2281	2147
132.5°	2552	2337	2217	2311	2760	2273	2205	2335	2552	2337	2217
135°	2603	2415	2305	2364	2757	2330	2292	2417	2603	2415	2305
137.5°	2646	2467	2389	2443	2761	2418	2373	2463	2646	2467	2389
140°	2660	2503	2460	2495	2739	2476	2444	2495	2660	2503	2460
142.5°	2659	2540	2489	2526	2693	2512	2473	2540	2659	2540	2489
145°	2652	2561	2503	2529	2615	2521	2491	2567	2652	2561	2503
147.5°	2609	2574	2523	2495	2521	2499	2515	2579	2609	2574	2523
150°	2563	2558	2514	2446	2423	2452	2509	2559	2563	2558	2514
152.5°	2511	2487	2444	2371	2326	2375	2437	2491	2511	2487	2444
155°	2422	2374	2323	2263	2213	2267	2318	2374	2422	2374	2323
157.5°	2292	2222	2188	2138	2078	2142	2181	2222	2292	2222	2188
160°	2144	2071	2045	1999	1943	2005	2036	2073	2144	2071	2045
162.5°	1990	1932	1899	1858	1802	1861	1894	1935	1990	1932	1899
165°	1831	1795	1769	1733	1679	1738	1767	1796	1831	1795	1769
167.5°	1676	1661	1650	1631	1592	1636	1649	1661	1676	1661	1650
170°	1545	1541	1538	1533	1517	1535	1538	1542	1545	1541	1538
172.5°	1433	1440	1446	1453	1448	1454	1446	1442	1433	1440	1446
175°	1370	1377	1384	1391	1397	1392	1384	1377	1370	1377	1384
177.5°	1347	1349	1353	1356	1357	1356	1353	1350	1347	1349	1353
180°	1338	1338	1338	1338	1338	1338	1338	1338	1338	1338	1338



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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°	15	19	16	13	17	19	16	13	15	19	16
92.5°	121	118	103	89	103	125	127	112	121	118	103
95°	267	293	280	237	271	313	289	248	267	293	280
97.5°	475	493	472	412	470	503	478	426	475	493	472
100°	671	720	681	597	673	711	667	600	671	720	681
102.5°	866	911	883	772	865	938	845	763	866	911	883
105°	1030	1139	1054	925	1047	1204	1014	896	1030	1139	1054
107.5°	1165	1345	1188	1075	1226	1447	1192	1034	1165	1345	1188
110°	1339	1541	1351	1205	1402	1635	1364	1161	1339	1541	1351





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**CANDELA DISTRIBUTION (continued):**

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	1518	1709	1527	1389	1575	1739	1550	1351	1518	1709	1527
115°	1716	1849	1718	1586	1751	1818	1743	1560	1716	1849	1718
117.5°	1909	2045	1900	1764	1904	1925	1911	1756	1909	2045	1900
120°	2072	2250	2048	1908	2031	2089	2045	1925	2072	2250	2048
122.5°	2183	2422	2150	2033	2122	2245	2133	2056	2183	2422	2150
125°	2228	2574	2202	2112	2182	2372	2192	2129	2228	2574	2202
127.5°	2261	2667	2232	2128	2229	2463	2240	2136	2261	2667	2232
130°	2286	2728	2253	2133	2278	2521	2281	2147	2286	2728	2253
132.5°	2311	2760	2273	2205	2335	2552	2337	2217	2311	2760	2273
135°	2364	2757	2330	2292	2417	2603	2415	2305	2364	2757	2330
137.5°	2443	2761	2418	2373	2463	2646	2467	2389	2443	2761	2418
140°	2495	2739	2476	2444	2495	2660	2503	2460	2495	2739	2476
142.5°	2526	2693	2512	2473	2540	2659	2540	2489	2526	2693	2512
145°	2529	2615	2521	2491	2567	2652	2561	2503	2529	2615	2521
147.5°	2495	2521	2499	2515	2579	2609	2574	2523	2495	2521	2499
150°	2446	2423	2452	2509	2559	2563	2558	2514	2446	2423	2452
152.5°	2371	2326	2375	2437	2491	2511	2487	2444	2371	2326	2375
155°	2263	2213	2267	2318	2374	2422	2374	2323	2263	2213	2267
157.5°	2138	2078	2142	2181	2222	2292	2222	2188	2138	2078	2142
160°	1999	1943	2005	2036	2073	2144	2071	2045	1999	1943	2005
162.5°	1858	1802	1861	1894	1935	1990	1932	1899	1858	1802	1861
165°	1733	1679	1738	1767	1796	1831	1795	1769	1733	1679	1738
167.5°	1631	1592	1636	1649	1661	1676	1661	1650	1631	1592	1636
170°	1533	1517	1535	1538	1542	1545	1541	1538	1533	1517	1535
172.5°	1453	1448	1454	1446	1442	1433	1440	1446	1453	1448	1454
175°	1391	1397	1392	1384	1377	1370	1377	1384	1391	1397	1392
177.5°	1356	1357	1356	1353	1350	1347	1349	1353	1356	1357	1356
180°	1338	1338	1338	1338	1338	1338	1338	1338	1338	1338	1338



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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°	13	17	19
92.5°	89	103	125
95°	237	271	313
97.5°	412	470	503
100°	597	673	711
102.5°	772	865	938
105°	925	1047	1204
107.5°	1075	1226	1447
110°	1205	1402	1635



TEST NUMBER: 253p149

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**CANDELA DISTRIBUTION (continued):**

	330°	340°	360°
112.5°	1389	1575	1739
115°	1586	1751	1818
117.5°	1764	1904	1925
120°	1908	2031	2089
122.5°	2033	2122	2245
125°	2112	2182	2372
127.5°	2128	2229	2463
130°	2133	2278	2521
132.5°	2205	2335	2552
135°	2292	2417	2603
137.5°	2373	2463	2646
140°	2444	2495	2660
142.5°	2473	2540	2659
145°	2491	2567	2652
147.5°	2515	2579	2609
150°	2509	2559	2563
152.5°	2437	2491	2511
155°	2318	2374	2422
157.5°	2181	2222	2292
160°	2036	2073	2144
162.5°	1894	1935	1990
165°	1767	1796	1831
167.5°	1649	1661	1676
170°	1538	1542	1545
172.5°	1446	1442	1433
175°	1384	1377	1370
177.5°	1353	1350	1347
180°	1338	1338	1338

(END OF REPORT)