

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: 253p130

Luminaire Tested: **1240-OB-36-CFL/3/55**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253p130
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1240-OB-36-CFL/3/55
Description: SHAPER 36 INCH 1240 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
Light Source: THREE - F55BX - 55 WATTS
THREE GX24 T4 COMPACT FLUORESCENT LAMPS
Ballast/Driver: -

Summary

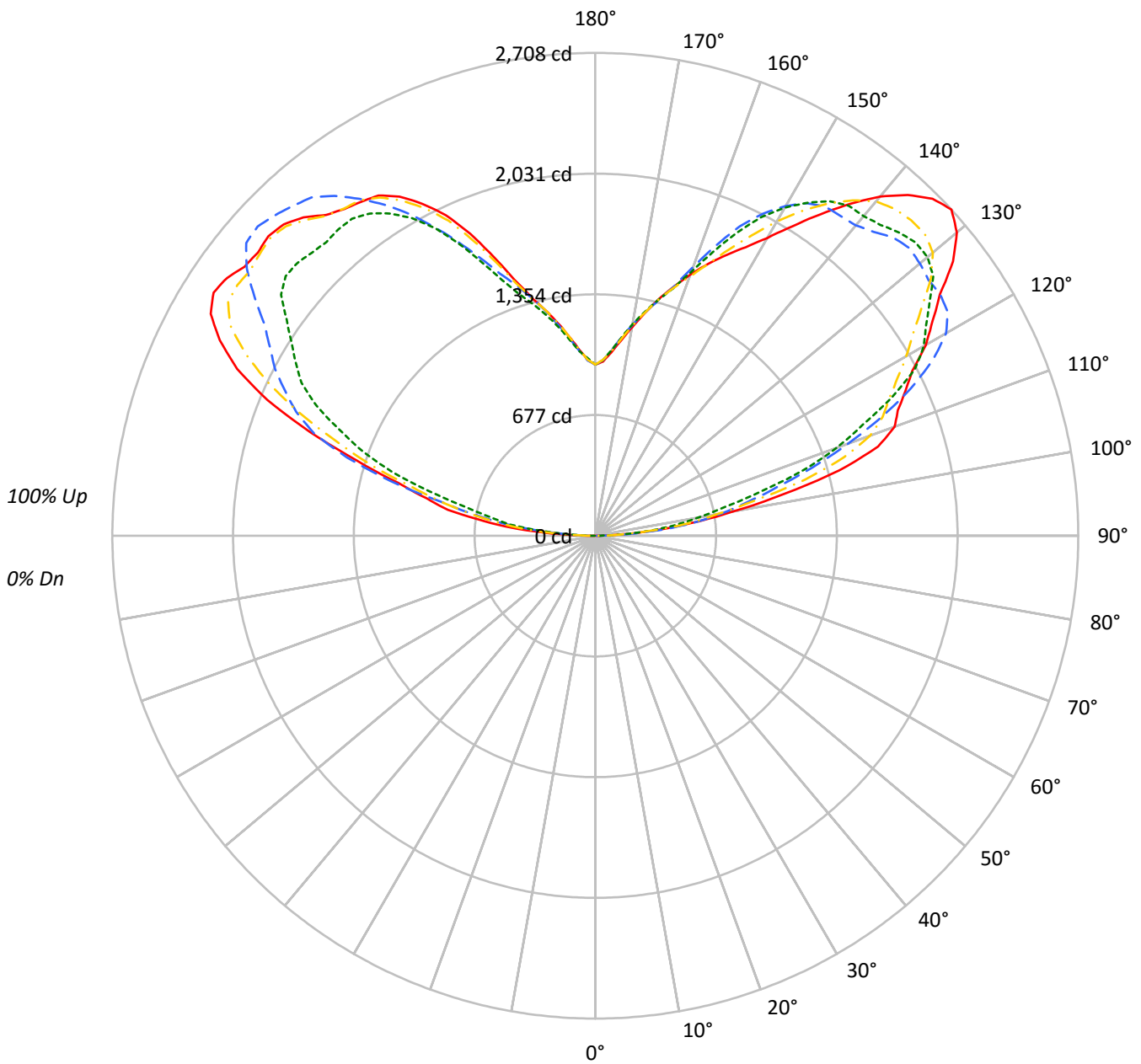
Lumens per Lamp: 4800 (3 lamps)
Luminaire Lumens: 10226.1 lumens
Efficiency: 71.0%
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Circular (Dia: 3' x H: 0')
CIE Type: Indirect

Input Watts (W): 177
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	68	68	68	68	58	58	58	58	39	39	39	23	23	23	7	7	7	0
1	61	59	56	54	52	50	48	46	34	33	32	20	19	19	6	6	6	0
2	56	51	47	44	48	44	41	38	30	28	26	17	16	15	6	5	5	0
3	51	45	40	36	43	38	35	32	26	24	22	15	14	13	5	5	4	0
4	46	39	34	31	39	34	30	27	23	21	19	13	12	11	4	4	4	0
5	42	35	30	26	36	30	26	22	21	18	16	12	11	9	4	3	3	0
6	39	31	26	22	33	27	22	19	18	16	14	11	9	8	3	3	3	0
7	36	28	23	19	30	24	20	17	17	14	12	10	8	7	3	3	2	0
8	33	25	20	17	28	22	17	14	15	12	10	9	7	6	3	2	2	0
9	31	23	18	15	26	20	15	13	14	11	9	8	6	5	3	2	2	0
10	28	21	16	13	24	18	14	11	12	10	8	7	6	5	2	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°	0.5	0.0	0.0
90°-100°	366.5	3.6	2.5
100°-110°	1197.5	11.7	8.3
110°-120°	1892.3	18.5	13.1
120°-130°	2090.2	20.4	14.5
130°-140°	1893.9	18.5	13.2
140°-150°	1420.8	13.9	9.9
150°-160°	863.3	8.4	6.0
160°-170°	396.4	3.9	2.8
170°-180°	104.6	1.0	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°	0.5	0.0	0.0
90°-120°	3456.4	33.8	24.0
90°-150°	8861.3	86.7	61.5
90°-180°	10226.0	100.0	71.0
0°-180°	10226.1	100.0	71.0

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°	4	3	4	3	4	18
95°	320	289	432	289	320	358
105°	1417	963	1143	960	1417	1437
115°	1917	1833	2216	1724	1917	1913
125°	2358	2288	2521	2113	2358	2131
135°	2673	2406	2470	2246	2673	2042
145°	2201	2290	2287	2206	2201	1391
155°	1737	1873	1984	1805	1737	810
165°	1373	1371	1382	1344	1373	394
175°	1032	1045	1049	1039	1032	103
180°	960	960	960	960	960	



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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	4	3	3	5	4	5	5	3	3
92.5°	120	116	113	107	124	160	195	169	141	108	114
95°	320	310	299	289	334	390	432	388	343	289	304
97.5°	541	527	510	480	527	572	628	571	511	444	498
100°	788	721	653	594	675	768	839	754	669	588	661
102.5°	1084	974	862	743	833	916	969	915	860	741	825
105°	1417	1284	1151	960	1024	1089	1143	1095	1046	963	1117
107.5°	1662	1529	1393	1197	1252	1305	1402	1346	1290	1225	1390
110°	1785	1688	1591	1390	1441	1573	1703	1596	1488	1439	1640



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	1836	1775	1713	1552	1651	1821	1991	1857	1721	1620	1808
115°	1917	1851	1784	1724	1857	2041	2216	2084	1952	1833	1918
117.5°	2003	1940	1877	1857	2022	2245	2373	2265	2156	2019	2030
120°	2139	2055	1970	1939	2154	2388	2490	2407	2322	2126	2093
122.5°	2242	2156	2069	2019	2248	2435	2538	2474	2408	2198	2181
125°	2358	2276	2193	2113	2295	2425	2521	2474	2427	2288	2323
127.5°	2528	2424	2319	2221	2306	2404	2479	2454	2428	2388	2442
130°	2646	2529	2412	2266	2338	2413	2470	2462	2452	2431	2525
132.5°	2708	2573	2438	2265	2345	2431	2487	2477	2466	2435	2521
135°	2673	2560	2446	2246	2320	2409	2470	2460	2449	2406	2496
137.5°	2592	2522	2449	2233	2269	2354	2422	2409	2394	2365	2481
140°	2483	2459	2435	2242	2247	2298	2348	2345	2340	2340	2473
142.5°	2346	2364	2379	2241	2243	2276	2310	2313	2315	2333	2421
145°	2201	2250	2297	2206	2239	2265	2287	2294	2299	2290	2341
147.5°	2058	2127	2194	2143	2191	2231	2263	2254	2244	2214	2249
150°	1928	1999	2069	2056	2112	2158	2196	2179	2161	2124	2134
152.5°	1824	1874	1922	1944	2015	2060	2099	2080	2061	2014	1992
155°	1737	1760	1780	1805	1888	1939	1984	1962	1937	1873	1842
157.5°	1649	1649	1648	1657	1730	1785	1833	1808	1780	1721	1696
160°	1559	1549	1538	1525	1582	1625	1662	1644	1625	1575	1566
162.5°	1465	1460	1454	1420	1447	1478	1505	1494	1481	1456	1471
165°	1373	1372	1371	1344	1357	1371	1382	1381	1378	1371	1385
167.5°	1277	1280	1282	1266	1276	1288	1296	1296	1295	1287	1295
170°	1187	1193	1198	1189	1196	1205	1212	1212	1211	1205	1207
172.5°	1104	1109	1113	1109	1116	1122	1127	1127	1126	1120	1120
175°	1032	1036	1040	1039	1043	1045	1049	1049	1049	1045	1045
177.5°	977	984	991	997	984	985	986	987	988	986	986
180°	960	960	960	960	960	960	960	960	960	960	960



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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°	4	4	4	4	3	3	5	4	5	5	3
92.5°	118	120	116	113	107	124	160	195	169	141	108
95°	313	320	310	299	289	334	390	432	388	343	289
97.5°	521	541	527	510	480	527	572	628	571	511	444
100°	726	788	721	653	594	675	768	839	754	669	588
102.5°	955	1084	974	862	743	833	916	969	915	860	741
105°	1268	1417	1284	1151	960	1024	1089	1143	1095	1046	963
107.5°	1527	1662	1529	1393	1197	1252	1305	1402	1346	1290	1225
110°	1714	1785	1688	1591	1390	1441	1573	1703	1596	1488	1439



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	1823	1836	1775	1713	1552	1651	1821	1991	1857	1721	1620
115°	1918	1917	1851	1784	1724	1857	2041	2216	2084	1952	1833
117.5°	2017	2003	1940	1877	1857	2022	2245	2373	2265	2156	2019
120°	2117	2139	2055	1970	1939	2154	2388	2490	2407	2322	2126
122.5°	2212	2242	2156	2069	2019	2248	2435	2538	2474	2408	2198
125°	2341	2358	2276	2193	2113	2295	2425	2521	2474	2427	2288
127.5°	2486	2528	2424	2319	2221	2306	2404	2479	2454	2428	2388
130°	2586	2646	2529	2412	2266	2338	2413	2470	2462	2452	2431
132.5°	2615	2708	2573	2438	2265	2345	2431	2487	2477	2466	2435
135°	2586	2673	2560	2446	2246	2320	2409	2470	2460	2449	2406
137.5°	2537	2592	2522	2449	2233	2269	2354	2422	2409	2394	2365
140°	2479	2483	2459	2435	2242	2247	2298	2348	2345	2340	2340
142.5°	2384	2346	2364	2379	2241	2243	2276	2310	2313	2315	2333
145°	2272	2201	2250	2297	2206	2239	2265	2287	2294	2299	2290
147.5°	2154	2058	2127	2194	2143	2191	2231	2263	2254	2244	2214
150°	2032	1928	1999	2069	2056	2112	2158	2196	2179	2161	2124
152.5°	1908	1824	1874	1922	1944	2015	2060	2099	2080	2061	2014
155°	1791	1737	1760	1780	1805	1888	1939	1984	1962	1937	1873
157.5°	1674	1649	1649	1648	1657	1730	1785	1833	1808	1780	1721
160°	1563	1559	1549	1538	1525	1582	1625	1662	1644	1625	1575
162.5°	1469	1465	1460	1454	1420	1447	1478	1505	1494	1481	1456
165°	1380	1373	1372	1371	1344	1357	1371	1382	1381	1378	1371
167.5°	1287	1277	1280	1282	1266	1276	1288	1296	1296	1295	1287
170°	1197	1187	1193	1198	1189	1196	1205	1212	1212	1211	1205
172.5°	1113	1104	1109	1113	1109	1116	1122	1127	1127	1126	1120
175°	1039	1032	1036	1040	1039	1043	1045	1049	1049	1049	1045
177.5°	982	977	984	991	997	984	985	986	987	988	986
180°	960	960	960	960	960	960	960	960	960	960	960



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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°	3	4	4	4	4	3	3	5	4	5	5
92.5°	114	118	120	116	113	107	124	160	195	169	141
95°	304	313	320	310	299	289	334	390	432	388	343
97.5°	498	521	541	527	510	480	527	572	628	571	511
100°	661	726	788	721	653	594	675	768	839	754	669
102.5°	825	955	1084	974	862	743	833	916	969	915	860
105°	1117	1268	1417	1284	1151	960	1024	1089	1143	1095	1046
107.5°	1390	1527	1662	1529	1393	1197	1252	1305	1402	1346	1290
110°	1640	1714	1785	1688	1591	1390	1441	1573	1703	1596	1488



TEST NUMBER: 253p130

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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	1808	1823	1836	1775	1713	1552	1651	1821	1991	1857	1721
115°	1918	1918	1917	1851	1784	1724	1857	2041	2216	2084	1952
117.5°	2030	2017	2003	1940	1877	1857	2022	2245	2373	2265	2156
120°	2093	2117	2139	2055	1970	1939	2154	2388	2490	2407	2322
122.5°	2181	2212	2242	2156	2069	2019	2248	2435	2538	2474	2408
125°	2323	2341	2358	2276	2193	2113	2295	2425	2521	2474	2427
127.5°	2442	2486	2528	2424	2319	2221	2306	2404	2479	2454	2428
130°	2525	2586	2646	2529	2412	2266	2338	2413	2470	2462	2452
132.5°	2521	2615	2708	2573	2438	2265	2345	2431	2487	2477	2466
135°	2496	2586	2673	2560	2446	2246	2320	2409	2470	2460	2449
137.5°	2481	2537	2592	2522	2449	2233	2269	2354	2422	2409	2394
140°	2473	2479	2483	2459	2435	2242	2247	2298	2348	2345	2340
142.5°	2421	2384	2346	2364	2379	2241	2243	2276	2310	2313	2315
145°	2341	2272	2201	2250	2297	2206	2239	2265	2287	2294	2299
147.5°	2249	2154	2058	2127	2194	2143	2191	2231	2263	2254	2244
150°	2134	2032	1928	1999	2069	2056	2112	2158	2196	2179	2161
152.5°	1992	1908	1824	1874	1922	1944	2015	2060	2099	2080	2061
155°	1842	1791	1737	1760	1780	1805	1888	1939	1984	1962	1937
157.5°	1696	1674	1649	1649	1648	1657	1730	1785	1833	1808	1780
160°	1566	1563	1559	1549	1538	1525	1582	1625	1662	1644	1625
162.5°	1471	1469	1465	1460	1454	1420	1447	1478	1505	1494	1481
165°	1385	1380	1373	1372	1371	1344	1357	1371	1382	1381	1378
167.5°	1295	1287	1277	1280	1282	1266	1276	1288	1296	1296	1295
170°	1207	1197	1187	1193	1198	1189	1196	1205	1212	1212	1211
172.5°	1120	1113	1104	1109	1113	1109	1116	1122	1127	1127	1126
175°	1045	1039	1032	1036	1040	1039	1043	1045	1049	1049	1049
177.5°	986	982	977	984	991	997	984	985	986	987	988
180°	960	960	960	960	960	960	960	960	960	960	960



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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°	3	3	4	4
92.5°	108	114	118	120
95°	289	304	313	320
97.5°	444	498	521	541
100°	588	661	726	788
102.5°	741	825	955	1084
105°	963	1117	1268	1417
107.5°	1225	1390	1527	1662
110°	1439	1640	1714	1785



TEST NUMBER: 253p130

CATALOG NUMBER: 1240-OB-36-CFL/3/55

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	1620	1808	1823	1836
115°	1833	1918	1918	1917
117.5°	2019	2030	2017	2003
120°	2126	2093	2117	2139
122.5°	2198	2181	2212	2242
125°	2288	2323	2341	2358
127.5°	2388	2442	2486	2528
130°	2431	2525	2586	2646
132.5°	2435	2521	2615	2708
135°	2406	2496	2586	2673
137.5°	2365	2481	2537	2592
140°	2340	2473	2479	2483
142.5°	2333	2421	2384	2346
145°	2290	2341	2272	2201
147.5°	2214	2249	2154	2058
150°	2124	2134	2032	1928
152.5°	2014	1992	1908	1824
155°	1873	1842	1791	1737
157.5°	1721	1696	1674	1649
160°	1575	1566	1563	1559
162.5°	1456	1471	1469	1465
165°	1371	1385	1380	1373
167.5°	1287	1295	1287	1277
170°	1205	1207	1197	1187
172.5°	1120	1120	1113	1104
175°	1045	1045	1039	1032
177.5°	986	986	982	977
180°	960	960	960	960

(END OF REPORT)