

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P27371

Luminaire Tested: **MPBL-3-LD4-UNV-2UP-HI-40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P27371
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MPBL-3-LD4-UNV-2UP-HI-40
Description: FAILSAFE MPBL LED PATIENT BED LIGHT
Light Source: (168) 4000K NICHIA LEDS
2UT109028A8404A
Ballast/Driver: (2) OSRAM ELECTRONIC DRIVERS
OT50W

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6838.7 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular w/ Sides (W: 3' x L: 0.42' x H: 0.29')
CIE Type: Indirect

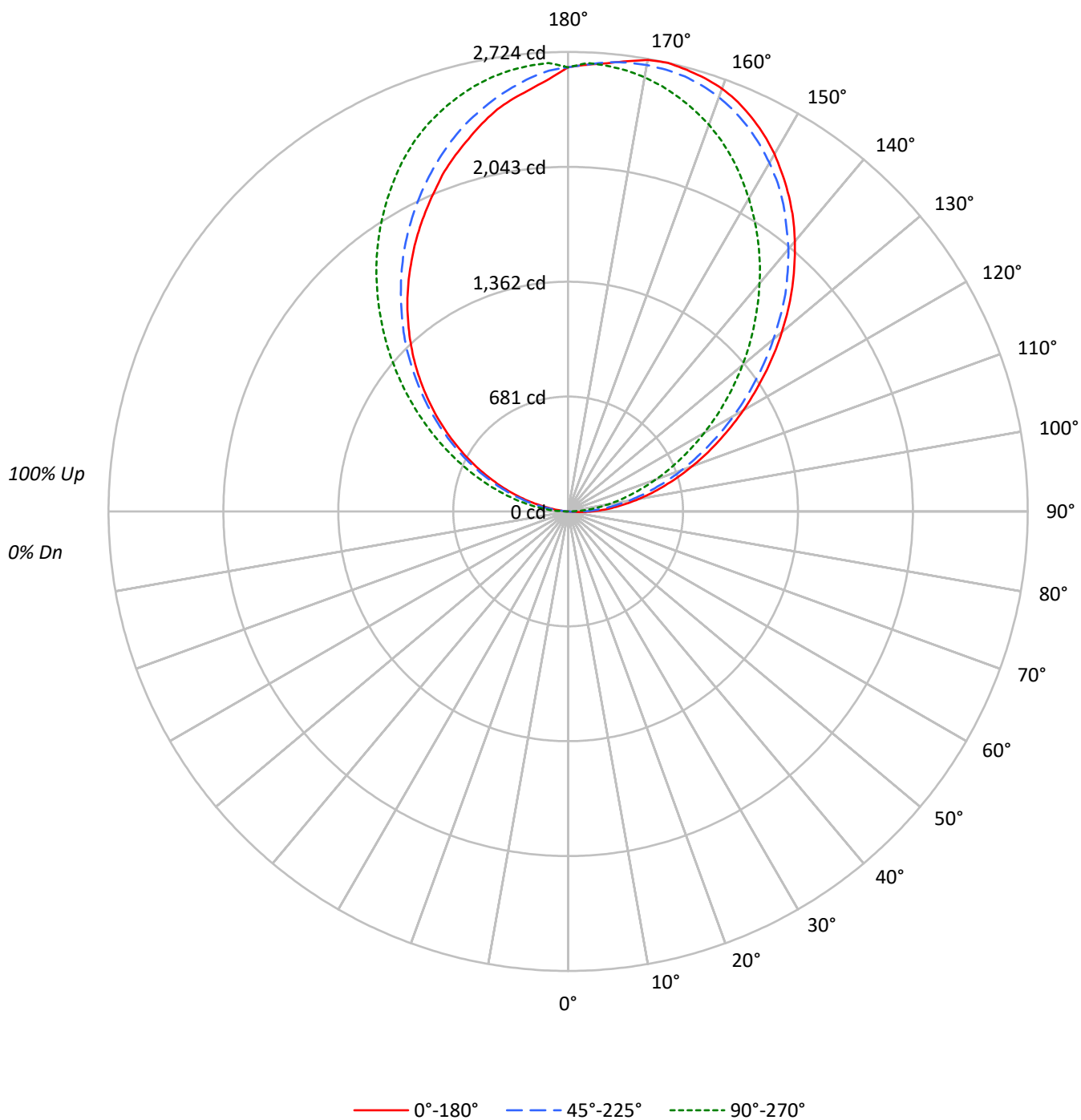
Input Watts (W): 72.9
Input Voltage (V): 120.05
Input Current (Ain): 0.60951
Voltage Rise (V): NR
Power Factor: 0.9988
Total Harmonic Distortion (THDi): 7.28%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	307	47	11



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	12.6	0.2
90°-100°	147.2	2.2
100°-110°	432.2	6.3
110°-120°	752.8	11.0
120°-130°	1037.3	15.2
130°-140°	1215.5	17.8
140°-150°	1228.6	18.0
150°-160°	1054.2	15.4
160°-170°	709.3	10.4
170°-180°	249.1	3.6
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	12.6	0.2
90°-120°	1332.1	19.5
90°-150°	4813.5	70.4
90°-180°	6826.0	99.8
0°-180°	6838.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	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°	28	3	1	1	1	18
90°	138	90	1	8	12	76
95°	273	215	112	30	18	254
105°	594	531	386	291	248	631
115°	983	915	735	606	570	975
125°	1423	1359	1137	967	928	1274
135°	1879	1821	1559	1349	1297	1448
145°	2281	2224	1962	1722	1651	1426
155°	2576	2517	2306	2071	1982	1186
165°	2711	2670	2540	2372	2285	766
175°	2667	2673	2652	2580	2514	256
180°	2633	2633	2633	2633	2633	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
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°	28	29	26	23	21	19	17	13	9	6	3
87.5°	78	80	76	72	68	64	62	55	48	42	36
90°	138	140	134	130	127	121	120	112	103	97	90
92.5°	202	205	198	196	191	185	183	177	168	159	148
95°	273	275	266	265	261	255	252	244	238	226	215
97.5°	346	350	340	338	334	327	325	316	310	298	287
100°	425	428	418	417	412	405	403	395	389	372	363
102.5°	508	511	501	500	495	487	486	477	471	453	445
105°	594	598	587	586	582	575	574	564	558	544	531
107.5°	686	689	677	676	669	666	665	654	649	631	622
110°	780	784	773	772	768	760	760	750	745	726	717



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	880	884	871	871	867	860	859	849	845	831	812
115°	983	985	973	973	970	963	961	953	948	933	915
117.5°	1089	1091	1080	1074	1069	1069	1067	1061	1056	1039	1022
120°	1198	1201	1189	1189	1185	1179	1178	1169	1165	1150	1132
122.5°	1310	1313	1301	1295	1291	1291	1290	1282	1278	1263	1244
125°	1423	1426	1415	1408	1404	1405	1403	1397	1392	1376	1359
127.5°	1539	1541	1529	1523	1520	1520	1518	1512	1508	1491	1474
130°	1653	1656	1643	1637	1639	1635	1632	1627	1623	1606	1588
132.5°	1767	1769	1758	1752	1748	1749	1746	1742	1738	1720	1703
135°	1879	1881	1870	1864	1865	1861	1858	1854	1849	1832	1821
137.5°	1985	1989	1978	1972	1967	1967	1966	1962	1956	1938	1925
140°	2090	2094	2083	2078	2072	2070	2070	2064	2057	2041	2031
142.5°	2191	2193	2183	2176	2170	2170	2168	2163	2156	2139	2125
145°	2281	2284	2274	2268	2263	2262	2262	2256	2250	2233	2224
147.5°	2366	2369	2360	2356	2351	2349	2349	2344	2338	2321	2310
150°	2446	2448	2438	2434	2428	2426	2426	2419	2412	2397	2386
152.5°	2516	2515	2508	2503	2497	2495	2490	2483	2480	2466	2455
155°	2576	2576	2570	2565	2559	2558	2557	2550	2543	2528	2517
157.5°	2628	2628	2622	2619	2614	2614	2609	2604	2597	2583	2570
160°	2668	2669	2662	2658	2654	2654	2651	2643	2636	2625	2614
162.5°	2693	2693	2687	2684	2681	2681	2678	2672	2667	2658	2646
165°	2711	2712	2706	2704	2701	2702	2700	2695	2688	2680	2670
167.5°	2724	2723	2718	2715	2712	2712	2710	2704	2698	2691	2682
170°	2718	2715	2712	2709	2707	2707	2705	2702	2697	2694	2687
172.5°	2692	2689	2690	2691	2692	2694	2694	2694	2691	2690	2684
175°	2667	2665	2666	2668	2671	2674	2675	2677	2675	2677	2673
177.5°	2651	2648	2646	2645	2645	2647	2649	2651	2649	2653	2652
180°	2633	2633	2633	2633	2633	2633	2633	2633	2633	2633	2633



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
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°	2	1	1	1	1	1	1	1	1	1	2
87.5°	26	17	10	4	2	2	1	1	1	1	1
90°	76	67	57	46	42	40	27	15	5	1	1
92.5°	137	129	118	105	100	98	87	72	62	53	45
95°	203	193	181	168	163	161	147	134	122	112	104
97.5°	274	263	250	236	230	227	211	198	184	173	164
100°	350	339	325	309	302	299	283	267	252	239	229
102.5°	431	414	404	387	379	376	358	338	324	310	298
105°	517	502	487	470	462	458	438	420	401	386	373
107.5°	607	592	576	558	549	546	523	503	484	466	452
110°	702	687	670	650	641	637	614	593	571	551	536



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	801	785	768	747	738	733	708	687	662	641	624
115°	903	888	869	853	839	837	807	784	761	735	719
117.5°	1010	995	976	958	943	941	910	885	858	831	814
120°	1120	1104	1084	1066	1051	1043	1015	988	960	931	907
122.5°	1232	1216	1196	1177	1161	1158	1118	1093	1059	1033	1011
125°	1346	1330	1309	1288	1272	1268	1233	1201	1169	1137	1113
127.5°	1461	1444	1422	1401	1385	1380	1338	1309	1275	1242	1217
130°	1574	1557	1535	1513	1496	1491	1448	1417	1383	1348	1321
132.5°	1688	1671	1648	1624	1608	1602	1559	1526	1490	1455	1425
135°	1800	1783	1759	1734	1717	1710	1667	1632	1596	1559	1529
137.5°	1906	1888	1864	1838	1821	1816	1772	1737	1700	1662	1632
140°	2007	1984	1965	1940	1923	1918	1876	1841	1804	1765	1735
142.5°	2104	2081	2063	2038	2022	2017	1975	1940	1905	1866	1835
145°	2198	2175	2156	2131	2115	2109	2070	2035	2001	1962	1932
147.5°	2285	2261	2242	2218	2202	2198	2159	2126	2094	2054	2025
150°	2362	2340	2321	2299	2283	2280	2244	2212	2181	2142	2115
152.5°	2432	2410	2392	2372	2357	2355	2321	2288	2263	2226	2199
155°	2494	2472	2454	2436	2423	2422	2390	2364	2338	2306	2277
157.5°	2548	2527	2510	2493	2482	2481	2453	2426	2407	2377	2350
160°	2593	2573	2558	2544	2533	2534	2509	2487	2468	2440	2415
162.5°	2628	2610	2596	2584	2576	2576	2553	2532	2519	2493	2471
165°	2653	2638	2625	2615	2609	2609	2591	2574	2562	2540	2520
167.5°	2669	2655	2646	2639	2635	2637	2622	2608	2600	2581	2564
170°	2676	2665	2658	2654	2652	2654	2644	2634	2629	2613	2599
172.5°	2676	2667	2663	2661	2662	2664	2657	2651	2649	2637	2624
175°	2668	2661	2659	2660	2663	2665	2663	2660	2660	2652	2643
177.5°	2650	2646	2647	2651	2656	2660	2660	2662	2666	2661	2655
180°	2633	2633	2633	2633	2633	2633	2633	2633	2633	2633	2633



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
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°	2	2	2	1	2	1	1	1	1	1	1
87.5°	1	1	1	1	1	1	1	1	1	2	2
90°	2	3	4	4	4	5	6	7	8	9	9
92.5°	33	23	13	15	8	8	7	8	9	10	11
95°	91	82	69	70	56	51	40	35	30	27	22
97.5°	150	141	130	133	120	114	100	91	83	78	68
100°	214	204	193	195	182	179	167	158	152	142	130
102.5°	282	271	258	261	247	244	233	225	222	212	200
105°	354	342	329	332	317	313	301	295	291	284	273
107.5°	432	418	404	403	391	387	374	368	365	357	350
110°	514	499	483	485	469	464	452	445	442	434	423



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	599	583	570	568	551	542	532	525	523	514	507
115°	689	671	656	655	640	626	620	608	606	601	590
117.5°	782	763	746	740	729	715	704	695	693	687	677
120°	877	856	840	833	822	805	794	785	782	772	765
122.5°	976	953	936	929	916	899	891	876	873	867	856
125°	1076	1051	1033	1027	1012	995	981	970	967	959	949
127.5°	1178	1151	1131	1125	1110	1091	1077	1065	1061	1053	1042
130°	1280	1251	1230	1223	1208	1189	1174	1160	1156	1148	1135
132.5°	1384	1353	1330	1323	1307	1289	1272	1257	1253	1243	1225
135°	1487	1454	1430	1428	1408	1389	1371	1355	1349	1338	1321
137.5°	1590	1555	1529	1525	1507	1488	1469	1451	1443	1431	1414
140°	1692	1656	1628	1623	1604	1584	1565	1545	1535	1523	1507
142.5°	1792	1754	1724	1719	1698	1680	1660	1639	1629	1616	1598
145°	1890	1851	1820	1814	1794	1775	1755	1734	1722	1709	1689
147.5°	1984	1944	1912	1905	1887	1868	1848	1828	1814	1801	1781
150°	2073	2035	2002	1994	1976	1957	1938	1917	1902	1888	1869
152.5°	2160	2122	2088	2080	2063	2044	2025	2004	1987	1973	1952
155°	2239	2202	2170	2161	2145	2126	2108	2087	2071	2056	2035
157.5°	2313	2279	2246	2237	2223	2204	2188	2169	2152	2139	2119
160°	2381	2348	2318	2309	2295	2278	2263	2246	2229	2216	2197
162.5°	2440	2410	2381	2372	2360	2345	2332	2315	2302	2288	2270
165°	2493	2465	2438	2430	2420	2407	2396	2381	2372	2357	2340
167.5°	2540	2516	2490	2483	2474	2464	2454	2442	2430	2416	2404
170°	2578	2556	2534	2527	2520	2512	2505	2494	2487	2474	2462
172.5°	2608	2590	2571	2566	2560	2554	2550	2543	2535	2525	2516
175°	2631	2616	2601	2596	2592	2591	2589	2584	2580	2571	2565
177.5°	2646	2635	2623	2620	2619	2618	2619	2619	2616	2610	2605
180°	2633	2633	2633	2633	2633	2633	2633	2633	2633	2633	2633



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0
22.5°	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0
27.5°	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0
32.5°	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0
37.5°	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0
42.5°	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0
47.5°	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0
52.5°	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0
57.5°	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0
62.5°	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0
85°	1	1	1	1	1	1	1	1
87.5°	2	2	3	3	4	5	5	5
90°	10	10	11	11	11	11	12	12
92.5°	11	12	12	12	13	13	13	13
95°	21	20	19	18	18	18	18	18
97.5°	65	62	61	60	57	56	54	54
100°	122	120	118	114	114	112	109	108
102.5°	192	190	187	182	181	179	175	174
105°	269	264	262	256	255	253	250	248
107.5°	343	340	338	333	332	330	328	327
110°	424	416	414	410	410	408	406	405



TEST NUMBER: P27371

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	505	497	496	494	490	489	486	485
115°	588	579	579	577	574	573	570	570
117.5°	675	664	669	663	660	660	657	657
120°	763	753	758	751	749	748	745	745
122.5°	853	843	848	841	838	838	835	836
125°	946	934	940	932	930	930	926	928
127.5°	1038	1027	1027	1024	1022	1021	1018	1019
130°	1132	1120	1129	1116	1114	1113	1111	1112
132.5°	1226	1213	1217	1209	1207	1207	1203	1205
135°	1319	1305	1314	1300	1299	1298	1294	1297
137.5°	1412	1397	1404	1392	1389	1389	1384	1387
140°	1504	1488	1495	1483	1480	1479	1475	1476
142.5°	1595	1578	1585	1572	1569	1568	1563	1565
145°	1686	1668	1674	1660	1656	1654	1649	1651
147.5°	1776	1757	1761	1749	1742	1740	1734	1734
150°	1864	1843	1846	1834	1828	1824	1824	1819
152.5°	1946	1926	1929	1917	1911	1907	1903	1901
155°	2029	2010	2012	2000	1993	1988	1983	1982
157.5°	2113	2093	2094	2082	2074	2069	2065	2061
160°	2191	2172	2172	2162	2153	2147	2142	2145
162.5°	2263	2245	2248	2233	2224	2219	2214	2216
165°	2333	2315	2318	2304	2294	2289	2283	2285
167.5°	2398	2382	2382	2372	2365	2356	2354	2356
170°	2457	2442	2443	2434	2427	2423	2419	2420
172.5°	2511	2497	2497	2488	2480	2472	2470	2470
175°	2561	2547	2547	2538	2528	2518	2513	2514
177.5°	2603	2592	2594	2586	2579	2572	2571	2566
180°	2633	2633	2633	2633	2633	2633	2633	2633

(END OF REPORT)