

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P151260

Luminaire Tested: **TLM-E06-LED-E1-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P151260
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E06-LED-E1-SL3
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

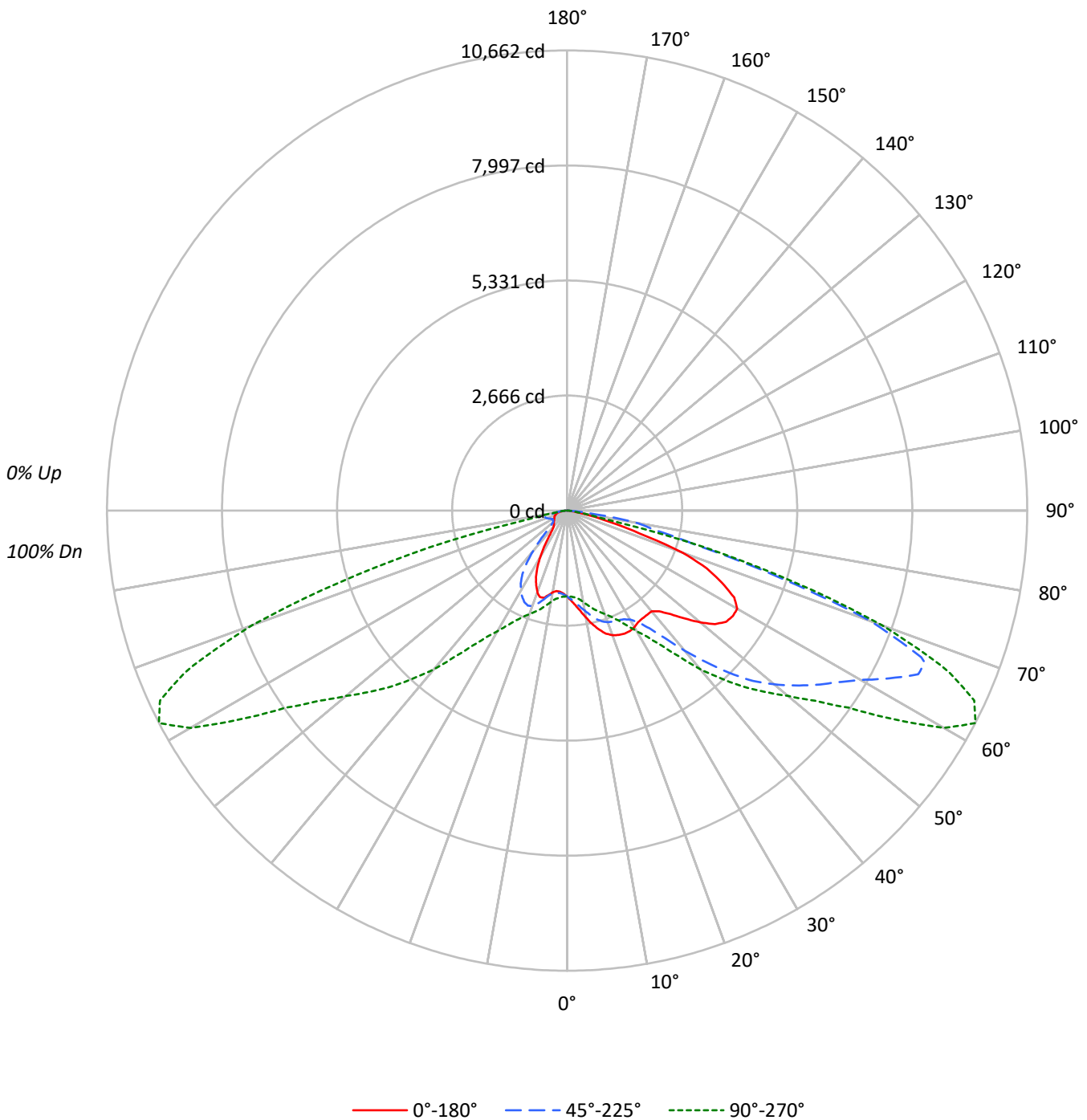
Lumens per Lamp: N/A
Luminaire Lumens: 18217.0 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 3.92 / 2.51
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (A_{in}): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77
2	93	82	74	66	90	80	72	65	77	70	64	73	67	62	70	65	61	58
3	82	69	59	50	79	67	58	50	64	56	49	61	54	48	58	52	47	44
4	73	59	48	39	71	57	47	39	54	46	38	52	44	38	49	43	37	35
5	66	51	40	32	64	49	39	31	47	38	31	45	37	31	43	36	30	28
6	60	44	34	26	58	43	33	26	41	32	26	39	31	25	38	31	25	23
7	55	39	29	22	53	38	29	22	37	28	22	35	27	21	34	27	21	19
8	51	35	25	19	49	35	25	19	33	25	18	32	24	18	30	23	18	16
9	47	32	23	16	46	31	22	16	30	22	16	29	21	16	28	21	16	14
10	44	29	20	14	43	29	20	14	28	20	14	27	19	14	26	19	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	21420	21420	21420
5°	23793	21826	20400
10°	27500	23434	21029
15°	31804	26277	23335
20°	35189	29255	23093
25°	37340	33350	20238
30°	38754	40047	15437
35°	40052	50170	9408
40°	42772	67390	6857
45°	51665	87834	6607
50°	67485	111861	6665
55°	84298	149492	6906
60°	97952	216742	7363
65°	100758	265138	8201
70°	89694	244031	9064
75°	43086	137908	10563
80°	14877	19092	10786
85°	6669	11856	10868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.1	1.1
10°-20°	679.4	3.7
20°-30°	1199.6	6.6
30°-40°	1721.9	9.5
40°-50°	2615.1	14.4
50°-60°	3850.3	21.1
60°-70°	5116.9	28.1
70°-80°	2503.3	13.7
80°-90°	332.4	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2077.1	11.4
0°-40°	3798.9	20.9
0°-60°	10264.3	56.3
0°-90°	18217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18217.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1990	1990	1990	1990	1990	
5°	2202	2140	2020	1920	1888	220
15°	2854	2598	2358	2136	2094	811
25°	3144	2802	2808	2342	1704	1448
35°	3048	3330	3818	1806	716	1921
45°	3394	5322	5770	650	434	2682
55°	4492	7040	7966	394	368	3964
65°	3956	8978	10410	440	322	3841
75°	1036	3088	3316	510	254	1291
85°	54	170	96	122	88	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990
2.5°	2084	2086	2082	2080	2068	2056	2048	2038	2038	2038	2034
5°	2202	2194	2200	2186	2162	2140	2118	2100	2096	2096	2088
7.5°	2344	2334	2330	2310	2274	2242	2198	2180	2170	2166	2162
10°	2516	2516	2490	2456	2408	2352	2304	2272	2270	2270	2252
12.5°	2692	2696	2662	2628	2550	2476	2420	2384	2382	2374	2364
15°	2854	2844	2822	2772	2686	2598	2528	2492	2484	2476	2470
17.5°	2988	2978	2950	2886	2796	2692	2606	2568	2564	2560	2552
20°	3072	3064	3024	2950	2856	2750	2658	2632	2624	2624	2620
22.5°	3120	3108	3050	2952	2860	2782	2706	2690	2684	2686	2686
25°	3144	3134	3052	2912	2824	2802	2770	2760	2762	2764	2768
27.5°	3148	3134	3038	2860	2778	2840	2862	2878	2878	2886	2900
30°	3118	3102	3010	2820	2758	2916	3004	3046	3062	3058	3090
32.5°	3066	3056	2982	2820	2814	3066	3222	3282	3290	3294	3330
35°	3048	3046	3014	2916	2988	3330	3568	3614	3624	3624	3650
37.5°	3044	3054	3090	3096	3294	3722	4034	4104	4104	4124	4124
40°	3044	3066	3202	3364	3668	4232	4664	4744	4744	4766	4754
42.5°	3162	3194	3418	3726	4140	4758	5254	5344	5350	5344	5362
45°	3394	3422	3694	4136	4626	5322	5818	5926	5904	5918	5924
47.5°	3702	3746	4056	4584	5100	5844	6450	6548	6540	6546	6520
50°	4030	4076	4422	5028	5572	6264	6958	7104	7090	7100	7114
52.5°	4320	4348	4682	5362	5930	6656	7348	7530	7562	7566	7576
55°	4492	4526	4832	5528	6190	7040	7794	8070	8132	8148	8192
57.5°	4552	4588	4866	5552	6332	7400	8416	8902	8954	9040	9180
60°	4550	4588	4830	5498	6476	7846	9384	10198	10462	10550	10750
62.5°	4364	4408	4654	5334	6660	8416	10824	12076	12416	12576	12792
65°	3956	3988	4218	4918	6608	8978	12028	13590	13900	14134	14520
67°	3594	3614	3794	4426	6100	8998	12408	13966	14236	14484	14882
67.5°	3502	3544	3684	4276	5910	8884	12382	13908	14184	14442	14862
70°	2850	2910	2980	3378	4646	7474	11464	12904	13146	13386	13972
72.5°	1758	1866	1880	2132	3024	5166	9276	10882	11064	11236	11836
75°	1036	1052	1102	1306	1774	3088	6224	8084	8252	8336	8806
77.5°	578	594	636	812	1364	2080	3624	4750	4852	4958	4882
80°	240	262	282	328	638	1642	2492	3020	3086	3148	3226
82.5°	116	124	152	174	232	674	1954	2618	2696	2786	2968
85°	54	60	84	100	112	170	654	1274	1382	1402	1438
87.5°	4	4	10	14	20	22	68	96	108	98	124
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990
2.5°	2032	2030	2026	2026	2024	2024	2024	2020	2020	2020	2018
5°	2086	2084	2078	2078	2074	2074	2068	2066	2062	2062	2060
7.5°	2156	2154	2146	2146	2140	2138	2134	2128	2128	2124	2120
10°	2252	2246	2244	2234	2236	2232	2228	2222	2218	2214	2210
12.5°	2360	2360	2350	2344	2348	2344	2336	2334	2328	2328	2322
15°	2462	2462	2458	2450	2452	2446	2444	2440	2432	2434	2432
17.5°	2550	2550	2544	2540	2540	2534	2536	2532	2528	2526	2520
20°	2620	2620	2616	2612	2614	2614	2608	2608	2608	2604	2604
22.5°	2688	2690	2690	2690	2692	2694	2692	2696	2694	2698	2698
25°	2778	2784	2788	2788	2798	2800	2802	2808	2808	2814	2816
27.5°	2912	2916	2932	2936	2938	2954	2956	2964	2972	2974	2976
30°	3096	3106	3118	3126	3126	3146	3154	3150	3172	3178	3186
32.5°	3342	3350	3362	3370	3378	3388	3390	3400	3418	3434	3424
35°	3652	3672	3652	3674	3680	3694	3690	3702	3710	3716	3714
37.5°	4102	4092	4088	4080	4066	4114	4090	4088	4076	4110	4088
40°	4694	4700	4706	4674	4656	4656	4650	4628	4618	4648	4644
42.5°	5312	5318	5290	5270	5224	5218	5190	5184	5174	5190	5174
45°	5874	5878	5816	5826	5790	5796	5752	5770	5746	5762	5792
47.5°	6502	6510	6456	6478	6442	6420	6418	6430	6404	6420	6428
50°	7072	7062	7034	7040	7024	7028	7004	7026	6996	7028	7024
52.5°	7578	7566	7560	7580	7566	7566	7552	7562	7566	7614	7624
55°	8192	8202	8212	8248	8264	8238	8264	8314	8316	8430	8492
57.5°	9178	9248	9284	9306	9400	9390	9450	9570	9582	9846	10000
60°	10898	11022	11140	11076	11266	11324	11360	11584	11654	11904	12038
62.5°	13070	13084	13268	13210	13318	13292	13336	13438	13530	13736	13862
65°	14586	14652	14724	14650	14648	14560	14504	14502	14558	14602	14742
67°	14998	15064	15082	15028	14950	14838	14734	14680	14644	14664	14752
67.5°	14994	15056	15078	15026	14918	14824	14714	14652	14604	14614	14688
70°	14142	14276	14348	14364	14350	14186	14092	14036	13996	13898	13892
72.5°	11982	12144	12200	12290	12330	12088	11986	12048	11908	11598	11612
75°	8798	8810	8622	8586	8452	7904	7740	7590	7350	6976	6624
77.5°	4586	4584	4368	4258	4098	3768	3752	3484	3296	2954	2830
80°	3258	3310	3382	3418	3362	3234	3058	2868	2650	2436	2180
82.5°	3030	3062	3100	2960	2882	2702	2568	2292	2138	1894	1636
85°	1474	1572	1496	1408	1378	1078	1042	870	790	650	606
87.5°	94	116	104	94	82	46	62	44	46	34	30
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990
2.5°	2018	2016	2014	2012	2010	2010	2008	2006	2004	2000	2000
5°	2056	2056	2054	2050	2050	2046	2040	2038	2038	2034	2030
7.5°	2118	2116	2112	2110	2106	2102	2098	2094	2092	2086	2084
10°	2212	2208	2198	2194	2192	2188	2184	2180	2174	2170	2168
12.5°	2318	2316	2308	2312	2302	2298	2294	2284	2288	2280	2276
15°	2424	2426	2422	2422	2414	2408	2404	2396	2394	2390	2386
17.5°	2518	2522	2516	2512	2508	2504	2496	2488	2488	2480	2476
20°	2604	2608	2606	2602	2596	2594	2590	2584	2584	2580	2574
22.5°	2702	2704	2704	2702	2696	2698	2694	2688	2690	2682	2682
25°	2820	2824	2828	2830	2826	2828	2824	2820	2818	2820	2818
27.5°	2982	2986	2998	2988	2998	3000	2994	2986	2992	3002	2996
30°	3196	3192	3208	3210	3208	3210	3206	3200	3204	3222	3212
32.5°	3436	3444	3448	3452	3458	3466	3460	3454	3464	3458	3472
35°	3726	3744	3750	3744	3748	3762	3760	3762	3782	3762	3788
37.5°	4092	4110	4124	4116	4126	4126	4142	4186	4158	4194	4222
40°	4624	4652	4654	4652	4662	4674	4690	4738	4706	4744	4770
42.5°	5172	5206	5218	5198	5220	5246	5248	5290	5292	5298	5312
45°	5790	5820	5844	5834	5836	5870	5862	5902	5872	5872	5880
47.5°	6448	6476	6492	6508	6488	6518	6532	6524	6488	6480	6432
50°	7048	7072	7096	7140	7138	7152	7162	7126	7118	7074	7020
52.5°	7684	7746	7800	7892	7906	7954	7936	7876	7866	7794	7722
55°	8570	8748	8826	8968	9064	9062	9022	9012	8936	8792	8706
57.5°	10112	10390	10524	10708	10738	10720	10668	10576	10444	10202	10046
60°	12338	12510	12666	12710	12732	12698	12516	12312	12054	11720	11442
62.5°	14020	14196	14312	14294	14156	13982	13716	13374	13012	12638	12222
65°	14876	14950	14932	14792	14556	14252	13864	13442	13016	12574	12142
67°	14830	14832	14710	14438	14136	13754	13280	12820	12320	11856	11342
67.5°	14748	14740	14570	14272	13946	13552	13060	12584	12066	11598	11066
70°	13820	13708	13324	12848	12394	11862	11346	10800	10216	9814	9202
72.5°	11356	10978	10316	9818	9332	8636	8314	7636	7226	6970	6508
75°	6576	6260	5748	5282	5046	4634	4438	3940	3836	3832	3672
77.5°	2510	2190	1860	1498	1274	1012	892	798	726	776	704
80°	1882	1548	1210	880	628	464	398	368	350	336	326
82.5°	1402	1106	858	560	392	296	256	240	232	218	206
85°	474	380	300	208	164	134	124	120	114	104	98
87.5°	26	24	26	20	24	20	22	22	22	20	20
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990
2.5°	1998	1998	1998	1994	1988	1976	1964	1954	1944	1938	1934
5°	2028	2024	2022	2020	2006	1982	1960	1940	1920	1904	1898
7.5°	2082	2074	2072	2066	2048	2012	1980	1948	1920	1898	1888
10°	2164	2164	2152	2144	2124	2076	2030	1988	1950	1926	1920
12.5°	2268	2268	2258	2252	2228	2166	2110	2060	2024	2000	1998
15°	2376	2374	2366	2358	2332	2266	2210	2166	2136	2108	2100
17.5°	2472	2472	2462	2454	2428	2372	2322	2290	2256	2198	2154
20°	2568	2570	2562	2554	2532	2484	2462	2430	2354	2228	2124
22.5°	2674	2682	2672	2664	2646	2626	2618	2542	2382	2180	2028
25°	2810	2824	2812	2808	2798	2804	2780	2604	2342	2076	1886
27.5°	2996	2996	2998	2998	2994	3016	2928	2606	2254	1942	1716
30°	3214	3226	3222	3222	3238	3252	3010	2562	2142	1776	1508
32.5°	3476	3486	3490	3472	3536	3464	3040	2482	2004	1570	1260
35°	3792	3806	3816	3818	3860	3648	3024	2364	1806	1312	988
37.5°	4204	4232	4254	4264	4266	3804	2980	2208	1548	1024	736
40°	4752	4782	4776	4796	4682	3896	2880	1982	1228	752	568
42.5°	5280	5284	5292	5274	5042	3944	2740	1706	920	562	486
45°	5870	5836	5798	5770	5374	3962	2548	1370	650	472	450
47.5°	6424	6378	6300	6220	5670	3934	2302	1026	494	432	426
50°	6968	6882	6772	6680	5954	3892	2030	740	432	412	406
52.5°	7642	7498	7354	7234	6324	3826	1744	562	406	396	388
55°	8566	8366	8134	7966	6826	3726	1444	476	394	386	374
57.5°	9846	9546	9284	9010	7512	3624	1186	442	392	380	364
60°	11154	10794	10460	10068	8212	3522	1006	438	398	380	356
62.5°	11834	11462	11060	10662	8514	3282	882	444	412	386	356
65°	11678	11224	10816	10410	8164	2828	746	452	440	410	362
67°	10894	10420	10028	9640	7384	2368	640	460	470	438	374
67.5°	10618	10144	9758	9380	7154	2272	614	464	476	446	378
70°	8804	8456	8046	7754	5792	1682	504	472	512	492	396
72.5°	6336	6004	5696	5534	4266	1176	424	464	534	518	404
75°	3368	3348	3236	3316	2640	768	374	434	510	474	376
77.5°	680	700	822	810	852	428	320	372	394	348	306
80°	316	310	304	308	302	274	260	292	274	224	204
82.5°	196	192	186	184	204	218	228	230	182	156	150
85°	94	94	92	96	120	178	192	170	122	112	106
87.5°	18	18	20	18	24	42	48	56	46	48	54
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	1990	1990	1990
2.5°	1930	1926	1926
5°	1890	1888	1888
7.5°	1880	1882	1880
10°	1918	1916	1924
12.5°	2002	2008	2006
15°	2090	2094	2094
17.5°	2116	2102	2100
20°	2048	2022	2016
22.5°	1920	1872	1874
25°	1758	1700	1704
27.5°	1570	1508	1506
30°	1344	1276	1242
32.5°	1072	990	990
35°	806	740	716
37.5°	612	574	562
40°	510	492	488
42.5°	464	458	456
45°	440	436	434
47.5°	418	416	414
50°	402	400	398
52.5°	388	384	382
55°	368	368	368
57.5°	356	356	354
60°	344	342	342
62.5°	334	330	332
65°	328	322	322
67°	324	312	312
67.5°	324	308	308
70°	318	292	288
72.5°	312	274	268
75°	296	260	254
77.5°	254	232	228
80°	196	170	174
82.5°	142	122	120
85°	102	88	88
87.5°	54	46	48
90°	0	0	0

(END OF REPORT)