

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: P154580

Luminaire Tested: **TLM-E06-LED-E1-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P154580
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
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-T2
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

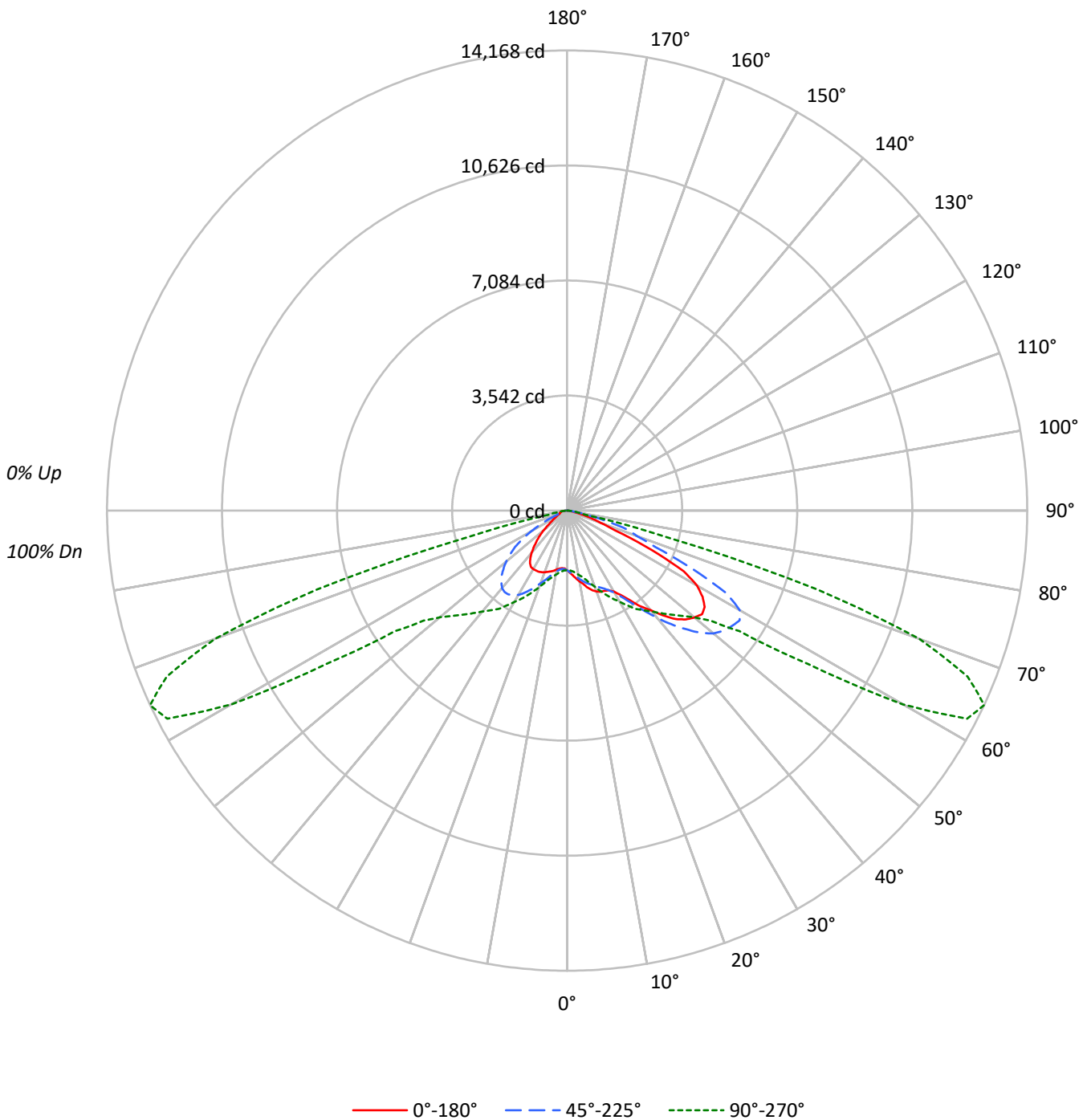
Lumens per Lamp: N/A
Luminaire Lumens: 18383.1 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 2.21 / 4.51 / 2.52
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	107	101	96	91	104	98	94	90	94	90	87	90	87	84	86	84	81	79
2	94	84	76	69	91	82	75	68	78	72	66	75	70	65	72	67	63	61
3	84	71	61	53	81	69	60	53	66	58	51	63	56	50	60	54	50	47
4	75	60	50	42	72	59	49	41	56	48	41	54	46	40	51	45	39	37
5	67	52	42	34	65	51	41	33	49	40	33	46	39	33	44	38	32	30
6	61	46	35	28	59	45	35	27	43	34	27	41	33	27	39	32	27	24
7	56	40	30	23	54	40	30	23	38	29	23	36	28	23	35	28	22	20
8	52	36	26	20	50	35	26	20	34	26	19	33	25	19	31	24	19	17
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	28	22	17	15
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19784	19784	19784
5°	21632	20270	19233
10°	24199	21926	20089
15°	27413	24494	21596
20°	30401	28683	23139
25°	32376	34086	24656
30°	35746	40295	25853
35°	44257	48619	26202
40°	56177	57020	23859
45°	71941	68988	20124
50°	85704	85470	15707
55°	97022	121493	11185
60°	99329	256655	8783
65°	73047	360853	7386
70°	34682	363056	7301
75°	18881	134830	8900
80°	8926	21571	11406
85°	4199	13338	13338



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	1.0
10°-20°	632.2	3.4
20°-30°	1242.0	6.8
30°-40°	2063.7	11.2
40°-50°	3032.3	16.5
50°-60°	4198.2	22.8
60°-70°	5011.0	27.3
70°-80°	1772.1	9.6
80°-90°	247.6	1.3
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°	2058.2	11.2
0°-40°	4121.9	22.4
0°-60°	11352.4	61.8
0°-90°	18383.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18383.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1838	1838	1838	1838	1838	
5°	2002	1964	1876	1804	1780	198
15°	2460	2306	2198	2110	1938	700
25°	2726	2644	2870	2698	2076	1271
35°	3368	3482	3700	3152	1994	2153
45°	4726	5158	4532	2856	1322	3617
55°	5170	6198	6474	1952	596	4530
65°	2868	4274	14168	604	290	2796
75°	454	1286	3242	242	214	560
85°	34	70	108	184	108	48
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°	1838	1838	1838	1838	1838	1838	1838	1838	1838	1838	1838
2.5°	1918	1920	1916	1914	1908	1898	1890	1882	1882	1882	1876
5°	2002	2006	1998	1992	1974	1964	1950	1940	1936	1934	1928
7.5°	2108	2102	2090	2086	2072	2050	2024	2004	2004	2002	2004
10°	2214	2198	2192	2186	2164	2136	2106	2084	2082	2080	2074
12.5°	2320	2314	2308	2286	2264	2220	2186	2164	2162	2164	2156
15°	2460	2446	2440	2402	2354	2306	2264	2244	2238	2240	2234
17.5°	2568	2568	2554	2512	2450	2384	2340	2328	2326	2326	2328
20°	2654	2652	2638	2604	2530	2464	2442	2438	2436	2436	2442
22.5°	2702	2698	2692	2654	2596	2552	2554	2566	2570	2574	2582
25°	2726	2720	2718	2692	2650	2644	2680	2712	2720	2728	2738
27.5°	2766	2756	2760	2750	2740	2758	2832	2866	2872	2882	2888
30°	2876	2872	2888	2892	2900	2926	2994	3026	3040	3040	3068
32.5°	3086	3088	3092	3134	3148	3166	3202	3228	3230	3232	3258
35°	3368	3380	3414	3450	3484	3482	3460	3474	3464	3476	3478
37.5°	3724	3708	3758	3840	3892	3878	3780	3716	3734	3726	3720
40°	3998	4016	4112	4220	4260	4304	4176	4066	4050	4020	4002
42.5°	4376	4378	4456	4536	4652	4748	4666	4508	4460	4424	4346
45°	4726	4720	4784	4882	5020	5158	5188	5016	4998	4934	4832
47.5°	4960	4952	4996	5124	5348	5574	5698	5646	5612	5586	5426
50°	5118	5102	5152	5288	5538	5886	6210	6254	6240	6240	6138
52.5°	5236	5236	5272	5382	5636	6070	6650	6872	6890	6910	6904
55°	5170	5180	5270	5430	5698	6198	7014	7500	7600	7684	7780
57.5°	4944	4978	5098	5360	5714	6294	7418	8380	8662	8906	9286
60°	4614	4658	4832	5166	5596	6138	7560	9124	9572	10104	11096
62.5°	4048	4092	4262	4596	4964	5540	6972	9234	9950	10704	12204
65°	2868	2798	2994	3294	3716	4274	5634	8496	9526	10548	12400
67.5°	1598	1592	1712	1936	2340	2940	3882	6516	7464	8622	10896
70°	1102	1114	1190	1432	1766	2284	2766	4092	4774	5560	7796
72.5°	774	800	842	986	1328	1924	2826	2446	2786	3322	4688
75°	454	472	502	572	756	1286	2926	2150	2150	2276	2836
77.5°	280	280	298	326	402	630	2084	2416	2348	2276	2282
80°	144	154	180	194	224	288	936	2254	2472	2618	2516
82.5°	66	74	110	118	130	152	322	1282	1718	2262	2826
85°	34	34	58	72	78	70	118	518	784	1196	1872
87.5°	6	6	10	12	18	16	20	30	50	54	56
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°	1838	1838	1838	1838	1838	1838	1838	1838	1838	1838	1838
2.5°	1874	1876	1874	1872	1868	1868	1868	1866	1866	1866	1864
5°	1928	1920	1922	1918	1916	1914	1916	1912	1908	1910	1908
7.5°	1996	1992	1984	1984	1982	1978	1978	1972	1970	1966	1964
10°	2072	2062	2066	2062	2064	2056	2052	2048	2044	2044	2046
12.5°	2150	2148	2142	2138	2138	2132	2134	2132	2126	2124	2118
15°	2230	2230	2224	2226	2224	2220	2216	2216	2212	2208	2210
17.5°	2324	2324	2324	2324	2326	2320	2322	2318	2314	2322	2322
20°	2446	2454	2454	2452	2462	2456	2454	2464	2454	2468	2466
22.5°	2586	2594	2594	2602	2604	2610	2614	2610	2618	2626	2626
25°	2742	2750	2756	2768	2774	2770	2772	2782	2786	2794	2802
27.5°	2906	2908	2916	2930	2940	2944	2946	2962	2964	2968	2976
30°	3066	3086	3082	3100	3106	3112	3124	3130	3144	3152	3152
32.5°	3254	3250	3266	3280	3290	3300	3310	3318	3326	3330	3350
35°	3488	3496	3496	3498	3522	3524	3532	3550	3556	3568	3576
37.5°	3720	3706	3704	3704	3696	3702	3704	3706	3714	3716	3724
40°	3980	3962	3946	3936	3920	3898	3894	3884	3890	3888	3890
42.5°	4336	4286	4248	4220	4188	4164	4146	4120	4102	4080	4076
45°	4790	4696	4632	4586	4540	4474	4436	4396	4360	4324	4294
47.5°	5386	5286	5184	5100	5028	4922	4814	4754	4684	4622	4578
50°	6088	5968	5920	5802	5712	5552	5418	5320	5180	5086	5004
52.5°	6806	6776	6750	6650	6544	6452	6334	6162	6020	5912	5744
55°	7784	7798	7788	7734	7696	7608	7560	7410	7346	7190	7014
57.5°	9430	9542	9684	9740	9816	9744	9828	9930	9676	9764	9606
60°	11532	12046	12352	12728	12974	13318	13380	13470	13444	13494	13596
62.5°	12816	13426	14012	14438	14894	15146	15450	15662	15882	16030	15988
65°	13194	13822	14354	14820	15228	15536	15818	16084	16286	16428	16512
67.5°	11806	12626	13186	13732	14258	14582	14818	15076	15372	15618	15666
70°	8884	10114	10908	11562	12180	12616	12946	13186	13416	13592	13784
72.5°	5556	6632	7540	8388	9044	9644	9922	10454	10384	10518	10662
75°	3330	3854	4354	4952	5296	5796	5886	5974	5928	5778	5890
77.5°	2314	2400	2396	2362	2326	2238	2124	2062	2020	1960	1984
80°	2328	2142	1858	1562	1290	1110	1038	1038	1112	1218	1324
82.5°	2782	2584	2304	1928	1528	1244	1054	978	992	1100	1236
85°	1876	1920	1684	1540	1220	950	796	646	572	590	668
87.5°	68	82	30	40	28	24	24	26	18	22	20
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°	1838	1838	1838	1838	1838	1838	1838	1838	1838	1838	1838
2.5°	1862	1860	1860	1856	1856	1854	1854	1852	1850	1850	1848
5°	1906	1904	1900	1898	1894	1894	1892	1888	1888	1884	1882
7.5°	1968	1964	1960	1958	1956	1950	1950	1946	1946	1942	1940
10°	2042	2038	2034	2036	2030	2028	2024	2024	2018	2016	2016
12.5°	2122	2120	2120	2114	2112	2110	2102	2102	2102	2098	2100
15°	2208	2210	2204	2210	2208	2202	2202	2202	2194	2204	2196
17.5°	2324	2330	2326	2328	2324	2324	2326	2324	2328	2328	2340
20°	2468	2470	2480	2476	2476	2474	2478	2480	2488	2484	2492
22.5°	2626	2636	2638	2646	2646	2644	2648	2656	2660	2666	2664
25°	2806	2812	2820	2810	2826	2826	2830	2840	2842	2842	2856
27.5°	2974	2990	2992	3002	2996	3000	3014	3020	3028	3028	3032
30°	3164	3170	3174	3186	3184	3186	3188	3198	3198	3208	3218
32.5°	3360	3364	3368	3380	3384	3392	3388	3396	3406	3408	3414
35°	3594	3598	3602	3620	3622	3636	3640	3636	3652	3642	3652
37.5°	3730	3748	3752	3764	3760	3770	3776	3784	3788	3796	3812
40°	3896	3902	3914	3920	3928	3930	3938	3944	3950	3968	3986
42.5°	4066	4074	4080	4088	4098	4106	4112	4130	4134	4146	4180
45°	4272	4268	4270	4272	4276	4286	4304	4322	4334	4362	4390
47.5°	4528	4502	4492	4476	4480	4502	4506	4536	4560	4586	4620
50°	4916	4846	4804	4762	4758	4770	4786	4818	4846	4880	4928
52.5°	5568	5434	5350	5234	5202	5196	5184	5202	5210	5256	5346
55°	6888	6640	6480	6300	6132	6082	5986	6006	5986	6014	6148
57.5°	9644	9446	9290	9060	8772	8466	8390	8076	8138	8318	8202
60°	13646	13574	13462	13352	12958	12736	12374	12334	12080	12082	11916
62.5°	15886	15978	15910	15878	15856	15786	15606	15390	15066	14832	14488
65°	16526	16448	16374	16364	16358	16472	16498	16346	16052	15688	15292
67.5°	15780	15736	15740	15656	15708	15906	16044	16002	15732	15292	14788
70°	14004	13918	14006	14116	14194	14308	14446	14480	14234	13782	13268
72.5°	10486	10500	10584	10614	10928	10896	11020	10616	10438	10008	9744
75°	5518	5428	5662	5166	4962	5104	4706	4324	4404	4470	3994
77.5°	1950	1824	1610	1524	1268	1074	878	792	746	722	692
80°	1400	1440	1396	1292	1098	880	694	548	470	428	400
82.5°	1416	1574	1644	1614	1438	1088	718	458	340	284	264
85°	760	832	800	674	606	362	248	166	140	128	118
87.5°	30	24	20	20	22	24	20	22	20	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°	1838	1838	1838	1838	1838	1838	1838	1838	1838	1838	1838
2.5°	1844	1844	1844	1842	1838	1828	1818	1810	1804	1798	1790
5°	1880	1876	1876	1876	1860	1844	1830	1816	1804	1794	1786
7.5°	1940	1938	1930	1928	1916	1890	1874	1850	1836	1822	1818
10°	2012	2010	2008	2006	1990	1964	1944	1922	1902	1882	1862
12.5°	2096	2094	2092	2086	2080	2066	2044	2020	1996	1954	1932
15°	2200	2204	2200	2198	2194	2196	2182	2148	2110	2056	2010
17.5°	2338	2334	2332	2340	2338	2348	2344	2300	2242	2156	2076
20°	2490	2490	2498	2504	2522	2548	2536	2482	2376	2256	2152
22.5°	2672	2676	2684	2680	2708	2750	2754	2678	2540	2374	2228
25°	2862	2866	2858	2870	2916	2976	2988	2880	2698	2482	2292
27.5°	3042	3046	3046	3062	3106	3208	3220	3100	2858	2576	2338
30°	3218	3234	3238	3242	3308	3450	3476	3302	2998	2646	2370
32.5°	3440	3446	3454	3464	3540	3714	3714	3476	3088	2690	2376
35°	3678	3680	3698	3700	3808	3982	3948	3620	3152	2680	2332
37.5°	3822	3830	3848	3872	3986	4232	4154	3744	3164	2614	2232
40°	4000	4016	4034	4058	4228	4486	4328	3822	3114	2484	2082
42.5°	4192	4214	4242	4286	4488	4710	4460	3834	3000	2338	1904
45°	4408	4448	4480	4532	4760	4904	4540	3764	2856	2146	1714
47.5°	4658	4690	4746	4802	5030	5036	4548	3628	2660	1954	1512
50°	4966	4986	5070	5104	5318	5174	4490	3444	2454	1738	1288
52.5°	5376	5404	5512	5564	5716	5362	4408	3244	2218	1496	1058
55°	6186	6308	6384	6474	6572	5788	4372	3030	1952	1216	838
57.5°	8460	8420	8588	8792	8790	6762	4588	2846	1638	930	644
60°	11848	11886	11800	11922	11534	7970	4884	2652	1284	692	492
62.5°	14366	14146	14024	13880	13026	8102	4668	2254	934	486	378
65°	14962	14704	14442	14168	12880	7304	3830	1654	604	334	300
67.5°	14374	13960	13626	13344	11802	6054	2800	1016	346	270	256
70°	12850	12392	11852	11536	9938	4462	1794	548	266	240	234
72.5°	9406	9030	8440	8078	7136	2712	1002	308	248	230	222
75°	3664	3468	3222	3242	2894	1200	454	266	242	226	218
77.5°	630	614	568	568	646	438	302	268	240	222	208
80°	378	370	352	348	336	308	290	272	236	210	192
82.5°	248	238	232	230	250	270	272	270	224	182	156
85°	106	106	106	108	144	218	224	240	184	142	112
87.5°	18	22	22	24	26	48	60	78	62	60	54
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	1838	1838	1838
2.5°	1788	1784	1784
5°	1782	1778	1780
7.5°	1806	1798	1800
10°	1850	1842	1838
12.5°	1906	1896	1896
15°	1964	1940	1938
17.5°	2012	1982	1978
20°	2066	2026	2020
22.5°	2116	2062	2054
25°	2152	2086	2076
27.5°	2168	2090	2082
30°	2180	2092	2080
32.5°	2168	2074	2064
35°	2102	2000	1994
37.5°	1988	1874	1866
40°	1838	1718	1698
42.5°	1646	1534	1512
45°	1460	1332	1322
47.5°	1260	1138	1144
50°	1050	940	938
52.5°	850	754	748
55°	670	602	596
57.5°	530	494	488
60°	432	414	408
62.5°	348	342	340
65°	290	290	290
67.5°	252	254	254
70°	232	234	232
72.5°	224	230	230
75°	218	222	214
77.5°	214	216	202
80°	212	210	184
82.5°	184	178	156
85°	168	128	108
87.5°	86	60	46
90°	0	0	0

(END OF REPORT)