

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: P150120

Luminaire Tested: **TLM-E06-LED-E1-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P150120
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
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-SL2
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

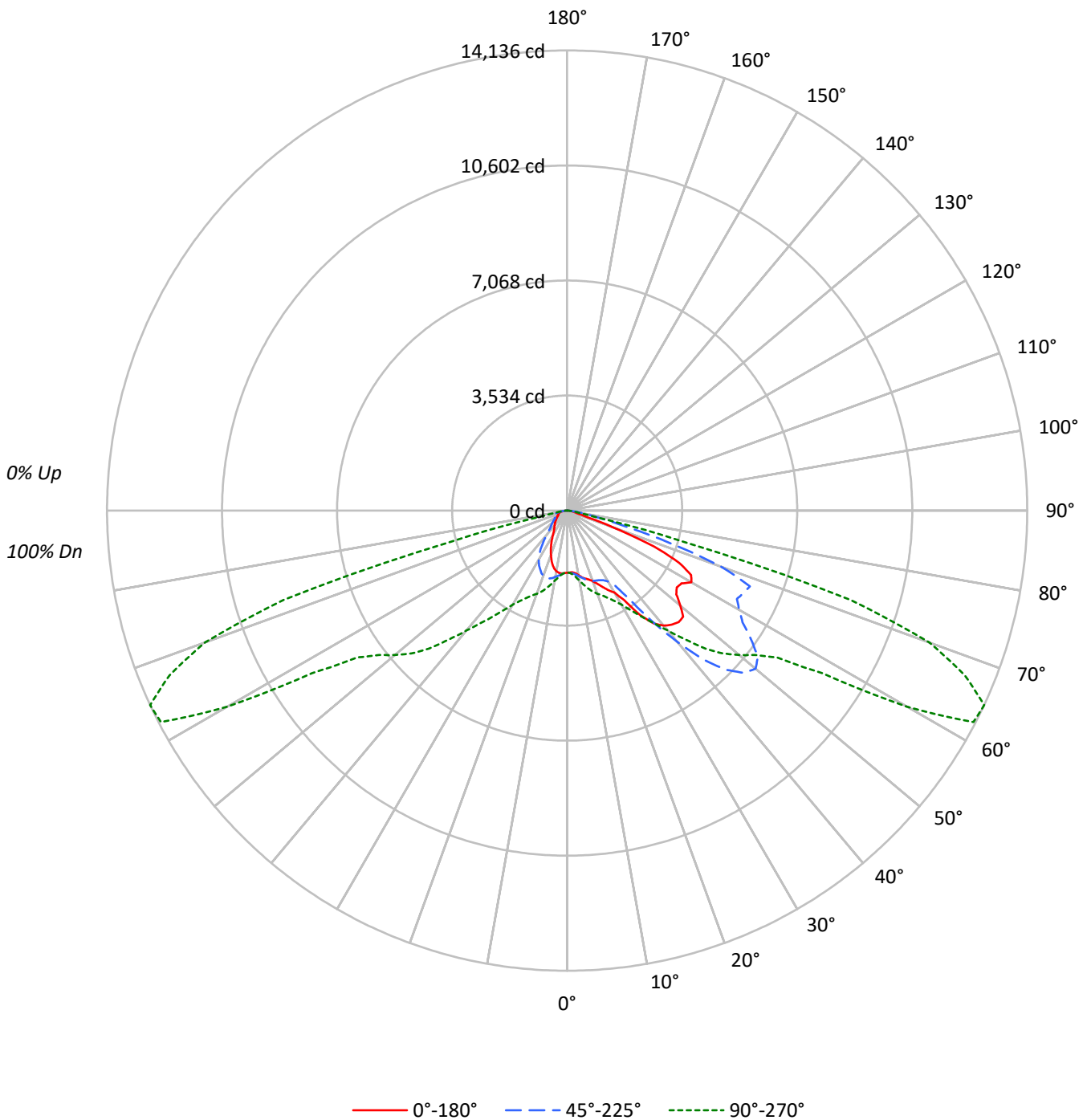
Lumens per Lamp: N/A
Luminaire Lumens: 18330.6 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.99 / 4.45 / 2.31
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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	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					100			
1	106	100	94	90	103	98	93	88	93	89	85	89	86	83	85	83	80	78					78			
2	93	83	74	67	90	81	73	66	77	70	64	74	68	63	70	66	61	59					59			
3	82	69	59	51	80	68	58	51	64	56	50	61	54	49	59	53	48	45					45			
4	74	59	48	40	71	57	47	40	55	46	39	52	45	38	50	43	38	35					35			
5	66	51	40	32	64	50	39	32	47	38	31	45	37	31	43	36	30	28					28			
6	60	44	34	26	58	43	33	26	41	32	26	40	32	25	38	31	25	23					23			
7	55	39	29	22	53	38	29	22	37	28	22	35	27	21	34	27	21	19					19			
8	51	35	25	19	49	34	25	19	33	24	18	32	24	18	30	23	18	16					16			
9	47	32	22	16	46	31	22	16	30	22	16	29	21	16	28	21	16	14					14			
10	44	29	20	14	42	28	20	14	27	19	14	26	19	14	25	19	14	12					12			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	20538	20538	20538
5°	20551	21308	20962
10°	21991	23893	20701
15°	24093	27592	19256
20°	26415	31134	16632
25°	30808	35131	13753
30°	36144	41389	10863
35°	51536	52193	9067
40°	64833	67531	8431
45°	73768	91304	8007
50°	75992	115612	7569
55°	77092	147428	7356
60°	94852	259367	7319
65°	96886	360038	7692
70°	46452	372686	8749
75°	12809	153462	10647
80°	10786	21447	10538
85°	7163	13338	11362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	1.0
10°-20°	620.2	3.4
20°-30°	1071.2	5.8
30°-40°	1773.1	9.7
40°-50°	3007.2	16.4
50°-60°	3995.6	21.8
60°-70°	5161.3	28.2
70°-80°	2164.7	11.8
80°-90°	347.7	1.9
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°	1881.0	10.3
0°-40°	3654.2	19.9
0°-60°	10656.9	58.1
0°-90°	18330.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18330.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1908	1908	1908	1908	1908	
5°	1902	1934	1972	1960	1940	185
15°	2162	2188	2476	2158	1728	616
25°	2594	2356	2958	1978	1158	1211
35°	3922	3272	3972	1400	690	2427
45°	4846	6916	5998	718	526	3680
55°	4108	6892	7856	488	392	3805
65°	3804	5976	14136	388	302	3438
75°	308	1718	3690	404	256	496
85°	58	144	108	124	92	77
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°	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908
2.5°	1902	1908	1904	1908	1912	1914	1918	1916	1916	1918	1914
5°	1902	1902	1908	1918	1922	1934	1948	1946	1948	1946	1950
7.5°	1942	1940	1946	1958	1962	1980	2004	2008	2012	2012	2018
10°	2012	2010	2016	2022	2028	2042	2076	2090	2092	2094	2102
12.5°	2100	2098	2090	2090	2088	2114	2160	2186	2190	2198	2204
15°	2162	2156	2144	2136	2146	2188	2256	2286	2290	2296	2312
17.5°	2222	2216	2190	2170	2184	2252	2344	2376	2384	2390	2408
20°	2306	2302	2264	2216	2212	2300	2412	2454	2460	2468	2486
22.5°	2434	2416	2372	2282	2238	2328	2460	2518	2526	2534	2558
25°	2594	2586	2510	2372	2280	2356	2512	2584	2596	2606	2638
27.5°	2760	2748	2666	2486	2354	2412	2594	2676	2692	2708	2738
30°	2908	2904	2836	2640	2474	2518	2726	2826	2844	2864	2892
32.5°	3256	3258	3188	2988	2764	2710	2916	3066	3074	3098	3148
35°	3922	3930	3904	3746	3494	3272	3292	3440	3448	3468	3516
37.5°	4368	4384	4464	4514	4386	4284	4030	3972	3978	3966	3956
40°	4614	4638	4848	5108	5248	5250	5140	4884	4786	4758	4638
42.5°	4754	4794	5092	5536	5938	6214	6282	5998	5926	5798	5568
45°	4846	4894	5246	5854	6446	6916	7270	7144	7096	7018	6806
47.5°	4830	4868	5234	5962	6712	7380	8008	8138	8080	8060	7916
50°	4538	4572	4944	5694	6566	7556	8476	8844	8844	8882	8838
52.5°	4226	4254	4592	5266	6094	7384	8736	9346	9426	9492	9596
55°	4108	4142	4398	4974	5692	6892	8824	9722	9870	9982	10218
57.5°	4164	4198	4380	4816	5456	6390	8828	10228	10514	10744	11222
60°	4406	4438	4590	4962	5394	6100	8658	11034	11490	11922	12718
62.5°	4294	4334	4556	5204	5856	5880	8044	11658	12392	13030	14296
65°	3804	3846	4020	4626	5884	5976	7134	11670	12582	13444	14810
67.5°	2888	2904	3042	3528	4706	6082	6198	10288	11156	12118	13528
70°	1476	1504	1544	1948	3030	5026	5326	7582	8688	9682	11376
72.5°	512	522	562	744	1476	3298	4662	5196	5864	6794	8756
75°	308	308	322	376	674	1718	4148	4244	4334	4646	5930
77.5°	244	248	248	258	374	882	3150	3946	3958	3988	4204
80°	174	182	198	206	242	484	1768	3464	3700	3814	3972
82.5°	130	138	168	178	188	270	794	2390	2820	3048	3604
85°	58	68	114	126	132	144	372	680	782	878	1158
87.5°	10	10	18	26	38	36	82	116	118	138	154
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°	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908
2.5°	1914	1914	1914	1912	1914	1914	1914	1914	1916	1916	1916
5°	1956	1952	1954	1954	1954	1952	1956	1954	1956	1962	1960
7.5°	2018	2022	2024	2026	2026	2026	2028	2032	2032	2038	2036
10°	2110	2108	2110	2116	2122	2124	2130	2128	2132	2140	2148
12.5°	2208	2212	2218	2224	2234	2236	2242	2244	2256	2256	2264
15°	2318	2320	2332	2334	2346	2350	2360	2364	2378	2380	2388
17.5°	2418	2422	2428	2434	2448	2454	2462	2470	2482	2486	2500
20°	2498	2506	2508	2520	2532	2540	2548	2556	2568	2574	2588
22.5°	2570	2578	2584	2594	2602	2614	2618	2632	2644	2654	2666
25°	2648	2660	2666	2684	2690	2702	2712	2726	2742	2754	2770
27.5°	2758	2776	2784	2804	2818	2824	2840	2860	2874	2888	2904
30°	2910	2944	2950	2964	2990	2994	3014	3030	3052	3066	3080
32.5°	3146	3188	3192	3208	3230	3238	3254	3272	3306	3312	3334
35°	3508	3526	3542	3548	3566	3576	3588	3608	3642	3638	3662
37.5°	3942	3948	3950	3930	3934	3916	3938	3942	3954	3964	3988
40°	4562	4500	4492	4444	4396	4370	4360	4320	4330	4334	4354
42.5°	5468	5348	5248	5180	5062	5004	4926	4864	4816	4834	4842
45°	6616	6444	6284	6076	5922	5812	5674	5550	5494	5468	5500
47.5°	7762	7610	7422	7208	6964	6782	6552	6350	6210	6158	6186
50°	8752	8612	8470	8344	8060	7862	7548	7286	7066	6954	6924
52.5°	9574	9500	9424	9318	9090	8892	8642	8384	8092	7864	7786
55°	10308	10352	10314	10316	10226	10100	9888	9696	9492	9234	9126
57.5°	11378	11638	11690	11820	11884	11952	12012	11898	11846	11654	11656
60°	13064	13444	13774	14074	14320	14560	14812	14924	15048	15106	15304
62.5°	14858	15220	15712	16114	16340	16652	16926	17104	17322	17554	17856
65°	15302	15738	16048	16316	16540	16706	16856	17068	17250	17618	17974
67.5°	14164	14512	14796	15060	15234	15374	15508	15648	15960	16294	16652
70°	12158	12578	13048	13390	13476	13596	13724	13906	14062	14412	14684
72.5°	9768	10372	10770	11244	11346	11528	11600	11742	11770	11960	12032
75°	6808	7500	7900	8248	8316	8216	8256	7754	7626	7522	7438
77.5°	4494	4680	4744	4688	4420	4210	3986	3766	3790	3612	3300
80°	3996	4038	3980	3924	3770	3550	3348	3142	3040	2932	2772
82.5°	3888	4050	4068	4000	3878	3638	3394	3088	2828	2588	2344
85°	1300	1582	1708	1826	1862	1904	1760	1564	1328	1170	916
87.5°	166	206	238	204	238	280	202	226	228	142	106
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°	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908
2.5°	1918	1916	1916	1916	1914	1916	1916	1916	1916	1916	1914
5°	1962	1962	1968	1970	1966	1964	1966	1968	1968	1966	1968
7.5°	2044	2046	2050	2056	2052	2054	2056	2054	2060	2062	2060
10°	2148	2152	2162	2164	2162	2170	2172	2168	2172	2172	2180
12.5°	2268	2272	2284	2288	2292	2294	2300	2302	2308	2312	2318
15°	2398	2402	2410	2424	2428	2432	2436	2448	2450	2458	2464
17.5°	2508	2514	2526	2536	2542	2552	2556	2570	2574	2586	2596
20°	2596	2606	2616	2628	2638	2650	2654	2668	2676	2682	2694
22.5°	2676	2688	2702	2716	2724	2740	2746	2752	2770	2778	2790
25°	2780	2792	2808	2826	2834	2854	2860	2870	2890	2898	2916
27.5°	2922	2938	2950	2968	2978	2992	3006	3018	3036	3048	3068
30°	3100	3112	3132	3146	3162	3182	3198	3210	3220	3238	3260
32.5°	3362	3364	3370	3404	3420	3436	3458	3468	3484	3502	3526
35°	3688	3706	3720	3736	3754	3772	3780	3810	3824	3848	3872
37.5°	4012	4014	4046	4056	4072	4090	4118	4148	4184	4208	4246
40°	4360	4376	4416	4436	4456	4500	4522	4570	4630	4664	4728
42.5°	4864	4888	4960	4992	5040	5112	5158	5224	5248	5330	5360
45°	5524	5598	5702	5770	5856	5934	5974	6004	6040	6104	6096
47.5°	6238	6334	6450	6590	6646	6738	6790	6848	6816	6800	6784
50°	6970	7082	7236	7362	7448	7504	7548	7540	7472	7436	7336
52.5°	7784	7850	7996	8104	8156	8168	8158	8098	8034	7920	7802
55°	9032	9002	9060	9110	9094	9150	9006	8950	8792	8644	8486
57.5°	11568	11608	11284	11138	11112	11164	10910	10878	10496	10448	10182
60°	15276	15472	15218	15076	14692	14566	14282	14164	13798	13502	13128
62.5°	18064	18242	18348	18146	17922	17592	17162	16686	16298	15844	15448
65°	18316	18676	18920	19014	18856	18494	17964	17364	16770	16200	15700
67.5°	17138	17460	17838	18176	18196	17960	17508	16898	16212	15508	14922
70°	15114	15518	15848	16204	16452	16316	16090	15530	14818	14270	13596
72.5°	12292	12462	12542	12892	12896	12648	12488	12178	11604	11216	10702
75°	7178	6804	6406	6060	5778	5660	5136	5048	4696	4478	4158
77.5°	2960	2626	2196	1838	1484	1324	1092	990	858	800	762
80°	2538	2222	1898	1588	1312	1036	806	626	492	418	388
82.5°	2072	1882	1656	1488	1272	1066	900	698	522	384	294
85°	748	614	494	454	362	298	250	214	176	140	124
87.5°	84	80	46	44	50	36	42	38	32	28	30
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°	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908	1908
2.5°	1914	1914	1916	1916	1918	1920	1924	1922	1922	1924	1924
5°	1968	1974	1972	1972	1972	1974	1976	1968	1960	1952	1948
7.5°	2062	2066	2070	2066	2070	2068	2064	2042	2016	1984	1962
10°	2184	2184	2188	2186	2194	2188	2176	2126	2070	2002	1952
12.5°	2316	2330	2324	2326	2342	2326	2298	2224	2124	2014	1926
15°	2472	2478	2482	2476	2486	2472	2422	2304	2158	2004	1874
17.5°	2600	2602	2604	2608	2622	2606	2520	2360	2166	1958	1786
20°	2700	2710	2718	2718	2738	2714	2600	2388	2140	1882	1674
22.5°	2804	2812	2822	2824	2850	2826	2666	2382	2072	1774	1544
25°	2932	2940	2948	2958	2994	2960	2732	2358	1978	1646	1404
27.5°	3080	3098	3104	3120	3162	3110	2788	2322	1874	1498	1256
30°	3278	3300	3308	3330	3388	3274	2820	2260	1742	1348	1098
32.5°	3544	3574	3598	3622	3688	3438	2824	2170	1588	1180	946
35°	3892	3938	3956	3972	4034	3616	2806	2036	1400	1008	826
37.5°	4282	4328	4340	4348	4360	3768	2762	1832	1188	858	730
40°	4762	4802	4818	4806	4742	3886	2664	1594	982	756	670
42.5°	5348	5408	5414	5360	5148	3952	2468	1314	820	682	624
45°	6074	6070	6036	5998	5590	3926	2194	1070	718	624	582
47.5°	6726	6658	6606	6494	5980	3774	1840	886	656	580	546
50°	7260	7136	7026	6904	6270	3504	1488	752	598	542	512
52.5°	7682	7532	7404	7284	6550	3204	1220	654	542	504	474
55°	8342	8192	7988	7856	6978	2928	1046	576	488	464	434
57.5°	10012	9880	9636	9294	8078	2824	948	516	444	430	406
60°	12928	12714	12396	12048	10314	2894	870	474	414	402	384
62.5°	15128	14752	14392	14070	12102	2892	768	442	392	386	368
65°	15218	14836	14474	14136	12142	2574	648	414	388	386	356
67.5°	14410	13996	13646	13220	11240	2012	520	396	404	400	352
70°	13090	12550	12262	11842	9892	1408	428	402	438	426	358
72.5°	10274	9866	9428	9136	7744	890	360	406	452	432	374
75°	3824	3934	3754	3690	3934	522	320	378	404	374	340
77.5°	772	738	700	692	894	322	294	328	310	274	276
80°	370	360	348	346	332	268	272	280	234	212	226
82.5°	246	232	228	220	224	240	258	240	180	168	204
85°	114	110	108	108	120	216	214	176	124	120	204
87.5°	28	28	30	28	32	64	56	54	46	52	96
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	1908	1908	1908
2.5°	1922	1924	1922
5°	1940	1940	1940
7.5°	1940	1934	1932
10°	1912	1894	1894
12.5°	1864	1834	1830
15°	1774	1734	1728
17.5°	1660	1606	1596
20°	1532	1464	1452
22.5°	1392	1314	1308
25°	1254	1174	1158
27.5°	1100	1022	1014
30°	946	878	874
32.5°	816	774	766
35°	724	700	690
37.5°	664	646	644
40°	618	602	600
42.5°	580	566	564
45°	542	530	526
47.5°	504	492	490
50°	470	454	452
52.5°	438	422	418
55°	408	392	392
57.5°	382	366	364
60°	358	342	340
62.5°	340	320	318
65°	326	306	302
67.5°	318	294	288
70°	332	288	278
72.5°	334	282	268
75°	322	266	256
77.5°	282	238	228
80°	244	184	170
82.5°	232	150	130
85°	180	98	92
87.5°	102	54	44
90°	0	0	0

(END OF REPORT)