

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: McGRAW-EDISON

Report Number: P949207

Luminaire Tested: **GALN-SB4A-740-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14516 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

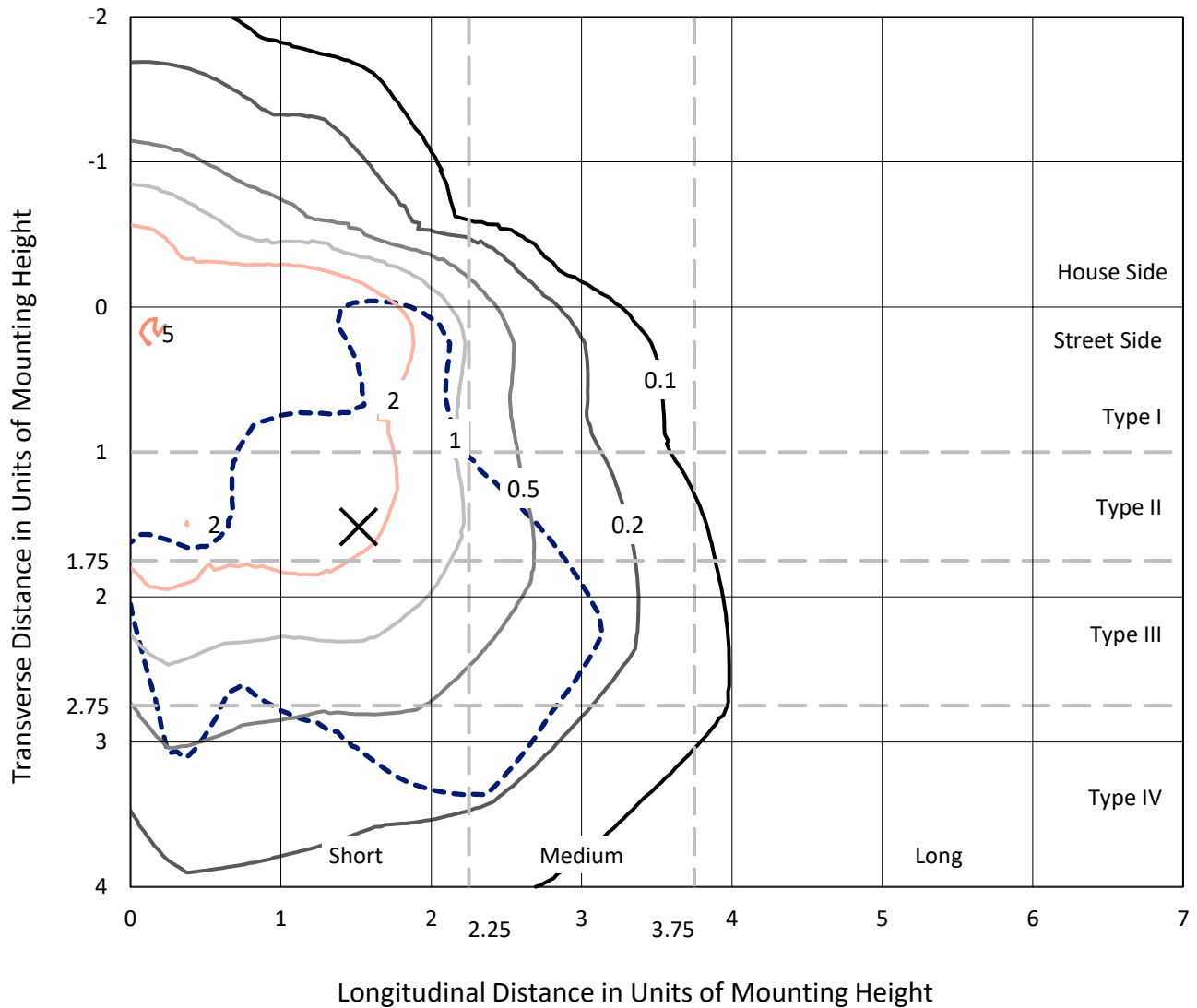
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

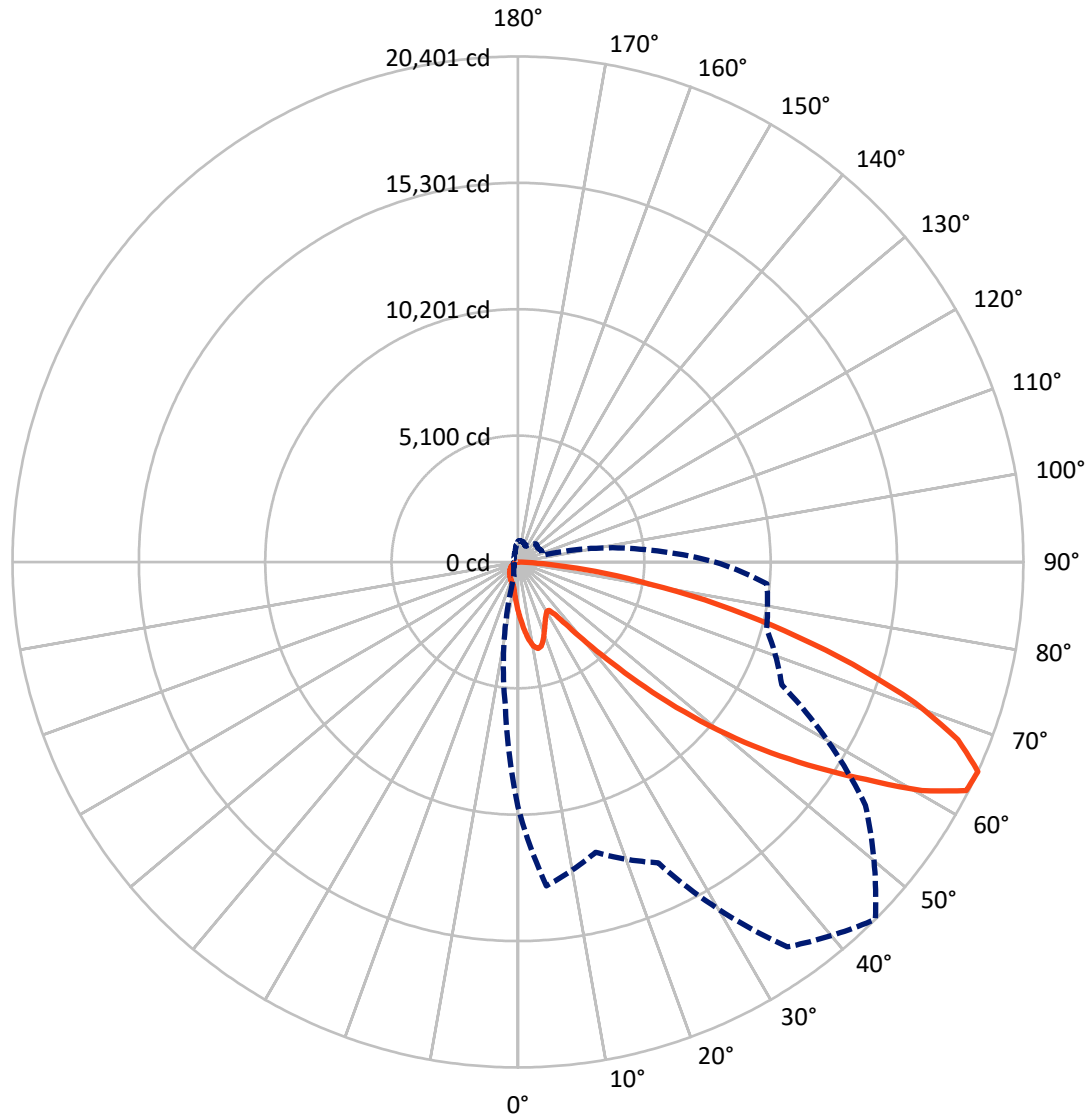
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2885.3	0.0	2885.3
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	11630.7	0.0	11630.7
	% Fixture	80.1	0.0	80.1
Total	Lumens	14516.0	0.0	14516.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	1.4
10°-20°	593.2	4.1
20°-30°	873.9	6.0
30°-40°	1122.8	7.7
40°-50°	1815.8	12.5
50°-60°	3184.3	21.9
60°-70°	3984.4	27.4
70°-80°	2328.3	16.0
80°-90°	415.4	2.9
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°-90°	14516.0	100.0
0°-180°	14516.0	100.0



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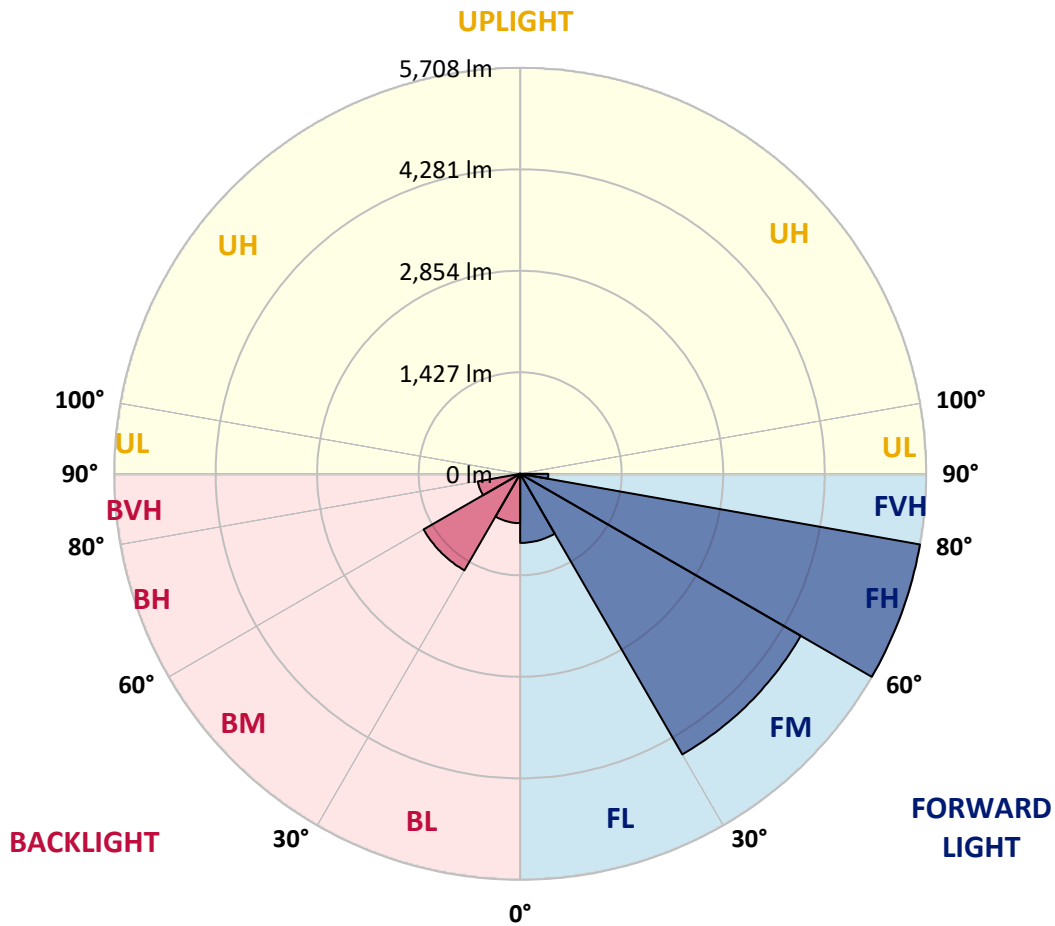
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	971.3	6.7			
FM (30°-60°)	4555.3	31.4			
FH (60°-80°)	5708.1	39.3			G3/7500
FVH (80°-90°)	395.9	2.7			G3/500
BL (0°-30°)	693.8	4.8	B2/1000		
BM (30°-60°)	1567.6	10.8	B2/2500		
BH (60°-80°)	604.5	4.2	B2/1000		G2/1000
BVH (80°-90°)	19.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
2.5°	2252	2269	2307	2327	2358	2360	2360	2333	2332	2277
5°	2517	2557	2647	2740	2760	2765	2755	2701	2661	2554
7.5°	2780	2857	2994	3118	3158	3158	3134	3046	2964	2809
10°	2998	3095	3281	3420	3466	3456	3407	3296	3183	2995
12.5°	3142	3251	3455	3567	3614	3588	3532	3424	3305	3107
15°	3214	3328	3505	3564	3551	3524	3517	3465	3375	3190
17.5°	3245	3351	3474	3437	3327	3306	3376	3442	3420	3262
20°	3274	3363	3400	3236	3044	3025	3159	3347	3443	3329
22.5°	3314	3369	3293	3024	2817	2773	2921	3204	3450	3414
25°	3369	3384	3175	2823	2615	2571	2709	3045	3438	3506
27.5°	3435	3404	3062	2655	2454	2413	2551	2892	3404	3598
30°	3521	3430	2950	2525	2339	2309	2442	2760	3362	3715
32.5°	3608	3441	2846	2449	2313	2324	2433	2689	3316	3827
35°	3702	3476	2795	2524	2530	2626	2671	2755	3309	3979
37.5°	3830	3554	2856	2897	3105	3304	3267	3078	3390	4206
40°	4014	3691	3122	3532	3959	4282	4141	3665	3638	4533
42.5°	4282	3909	3594	4308	5032	5564	5186	4422	4072	5000
45°	4678	4262	4165	5127	6355	7193	6407	5229	4680	5707
47.5°	5227	4781	4700	5990	7963	9047	7761	5977	5372	6671
50°	5956	5480	5207	6934	9726	10937	9114	6699	6165	7849
52.5°	6918	6455	5798	7833	11539	12787	10473	7333	7149	9216
55°	8230	7922	6606	8691	13351	14648	11779	7931	8449	10840
57.5°	9858	10078	7771	9686	14980	16566	13091	8767	10137	12656
60°	10908	12945	10002	11157	16831	18735	14889	10357	11911	13307
62.5°	10654	13857	12674	13035	18533	20312	16651	11954	12245	12348
65°	9875	13121	12129	13400	18964	20401	17122	11748	10387	10081
67.5°	8803	12248	10834	12432	18185	19157	16245	10392	8027	7565
70°	7646	11282	9984	11346	16700	16989	14754	9140	5904	5109
72.5°	6548	10276	9402	10233	14719	14121	12813	8033	4299	3685
75°	5425	8792	8573	8911	12114	11123	10646	6651	3374	2666
77.5°	4186	6870	7374	7136	8527	8262	8252	4998	2465	1779
80°	2865	4788	5761	5034	5534	5399	6215	3353	1788	1071
82.5°	1684	2915	4010	2437	3060	3141	3701	1631	1052	247
85°	683	1151	1568	954	1476	1245	1405	458	293	6
87.5°	172	368	258	107	171	157	124	56	12	0
90°	0	0	0	0	0	0	0	0	0	0

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2010	0°	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
2271	2.5°	2232	2209	2152	2095	2049	1987	1946	1897	1850	1808
2531	5°	2468	2392	2288	2193	2096	2002	1909	1811	1721	1666
2751	7.5°	2660	2526	2388	2267	2150	2040	1917	1798	1657	1582
2919	10°	2803	2627	2446	2307	2189	2082	1978	1858	1688	1594
3021	12.5°	2897	2688	2476	2317	2185	2102	2056	2009	1840	1730
3096	15°	2962	2731	2497	2294	2132	2071	2117	2171	2063	1936
3174	17.5°	3033	2787	2506	2232	2029	2003	2122	2247	2242	2116
3248	20°	3108	2836	2500	2132	1904	1927	2079	2224	2285	2217
3333	22.5°	3185	2883	2477	2002	1787	1859	2011	2138	2210	2189
3437	25°	3282	2949	2443	1862	1690	1790	1932	2035	2085	2084
3549	27.5°	3398	3037	2425	1749	1621	1712	1838	1930	1965	1965
3688	30°	3533	3141	2405	1675	1581	1631	1729	1819	1854	1854
3840	32.5°	3683	3241	2357	1630	1551	1552	1614	1696	1738	1744
4030	35°	3863	3348	2252	1594	1516	1475	1505	1573	1623	1636
4301	37.5°	4099	3479	2102	1541	1462	1394	1401	1453	1508	1528
4675	40°	4416	3633	1946	1465	1386	1305	1302	1340	1394	1416
5181	42.5°	4835	3818	1797	1392	1294	1211	1206	1236	1283	1306
5849	45°	5371	4045	1669	1335	1204	1122	1120	1145	1186	1210
6704	47.5°	6116	4272	1582	1305	1133	1049	1053	1075	1112	1129
7811	50°	7087	4341	1538	1305	1095	984	1004	1022	1050	1060
9138	52.5°	8019	4113	1498	1313	1100	929	972	985	1009	1013
10368	55°	8476	3536	1443	1315	1131	882	946	970	979	978
11082	57.5°	8319	2859	1350	1307	1152	852	914	960	966	957
10946	60°	7768	2105	1279	1248	1144	843	865	938	947	935
9898	62.5°	6844	1461	1224	1118	1109	840	788	890	912	895
7956	65°	5388	1032	1054	980	1033	824	708	832	862	836
5772	67.5°	3646	745	854	888	910	788	650	766	806	772
3704	70°	1969	523	564	748	773	726	598	699	745	708
2633	72.5°	1163	376	395	601	644	639	540	621	677	633
1817	75°	641	254	282	436	523	493	464	526	583	540
1139	77.5°	287	152	196	286	411	338	359	410	463	418
634	80°	111	85	130	156	299	187	231	302	340	304
138	82.5°	14	38	56	61	174	99	134	190	187	162
0	85°	0	7	8	4	75	36	44	62	58	44
0	87.5°	0	0	0	0	0	0	0	0	2	0
0	90°	0	0	0	0	0	0	0	0	0	0

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
2010	0°	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
1800	2.5°	1751	1715	1697	1682	1696	1704	1704	1738	1758	1766
1631	5°	1543	1476	1431	1404	1413	1423	1434	1477	1506	1525
1514	7.5°	1379	1277	1214	1181	1186	1193	1202	1244	1273	1298
1492	10°	1298	1154	1071	1031	1024	1020	1017	1042	1064	1084
1582	12.5°	1302	1101	1000	951	930	906	887	891	905	930
1743	15°	1353	1084	963	902	867	839	816	811	816	820
1927	17.5°	1422	1082	931	855	819	796	775	768	769	774
2049	20°	1477	1076	895	810	778	758	737	730	732	733
2061	22.5°	1506	1067	855	765	738	718	699	698	698	704
1996	25°	1506	1048	819	722	698	680	657	661	663	671
1895	27.5°	1470	1012	790	685	660	642	621	626	629	638
1795	30°	1424	969	757	650	621	608	590	592	596	606
1702	32.5°	1375	918	730	615	586	576	556	559	563	574
1610	35°	1321	858	698	583	554	546	523	525	531	543
1511	37.5°	1264	809	666	552	522	514	490	492	499	513
1407	40°	1208	761	632	519	489	482	456	458	466	481
1302	42.5°	1147	724	588	485	453	446	422	425	434	449
1205	45°	1074	700	539	453	417	410	388	394	404	419
1122	47.5°	999	690	498	419	380	374	356	366	377	389
1051	50°	927	677	456	387	348	342	330	343	354	365
1000	52.5°	845	649	418	359	321	319	313	325	335	345
956	55°	760	604	385	334	298	300	297	307	315	324
916	57.5°	686	547	359	307	278	284	280	285	290	301
868	60°	611	479	330	275	258	265	254	253	255	258
797	62.5°	510	408	294	247	236	239	218	202	202	205
698	65°	410	342	254	215	206	204	174	152	150	159
583	67.5°	337	284	214	179	173	175	153	131	129	139
475	70°	279	229	171	138	144	153	131	110	107	116
386	72.5°	222	179	131	102	119	130	107	87	85	93
298	75°	163	128	89	74	92	102	78	62	59	66
199	77.5°	101	72	56	44	63	68	41	36	35	40
121	80°	47	31	27	15	23	27	17	19	20	24
61	82.5°	13	5	1	0	0	8	4	8	10	15
5	85°	0	0	0	0	0	0	0	2	5	9
0	87.5°	0	0	0	0	0	0	0	0	0	4
0	90°	0	0	0	0	0	0	0	0	0	0

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CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
2010	0°	2010	2010	2010	2010	2010	2010	2010	2010
1822	2.5°	1864	1904	1968	2034	2099	2165	2229	2252
1612	5°	1691	1783	1910	2046	2186	2328	2458	2517
1395	7.5°	1498	1630	1821	2034	2257	2480	2685	2780
1180	10°	1292	1459	1677	1965	2285	2593	2875	2998
991	12.5°	1096	1271	1512	1857	2263	2658	2997	3142
858	15°	932	1087	1347	1729	2192	2662	3055	3214
784	17.5°	809	910	1179	1587	2099	2625	3075	3245
744	20°	748	776	961	1405	2012	2590	3095	3274
712	22.5°	712	719	786	1170	1908	2579	3130	3314
683	25°	683	685	703	927	1749	2572	3184	3369
653	27.5°	654	654	664	747	1533	2542	3254	3435
623	30°	625	625	632	661	1280	2483	3338	3521
593	32.5°	595	595	601	622	1022	2409	3415	3608
562	35°	565	563	571	593	813	2315	3492	3702
531	37.5°	533	532	540	565	702	2206	3550	3830
500	40°	499	499	508	535	670	2069	3642	4014
468	42.5°	468	466	476	509	646	1938	3807	4282
439	45°	438	434	443	484	604	1892	4115	4678
411	47.5°	410	400	408	454	566	2064	4619	5227
386	50°	387	368	375	424	537	2437	5273	5956
363	52.5°	363	338	342	387	511	2792	5982	6918
340	55°	338	310	312	350	474	2845	6674	8230
314	57.5°	310	284	284	316	447	2466	7206	9858
282	60°	279	262	257	289	471	1740	7268	10908
241	62.5°	245	236	229	263	489	1031	6769	10654
190	65°	206	204	199	289	412	609	5811	9875
162	67.5°	173	170	170	303	313	383	4540	8803
138	70°	149	138	138	229	190	265	3170	7646
114	72.5°	125	113	105	183	142	194	1981	6548
87	75°	100	91	81	121	106	147	1151	5425
55	77.5°	72	68	57	89	77	106	685	4186
34	80°	37	38	36	51	52	72	390	2865
22	82.5°	22	17	19	25	30	41	147	1684
16	85°	14	9	9	12	15	16	45	683
8	87.5°	7	3	4	6	5	4	2	172
0	90°	0	0	0	0	0	0	0	0

(END OF REPORT)