

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: P949209

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949209
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-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT 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

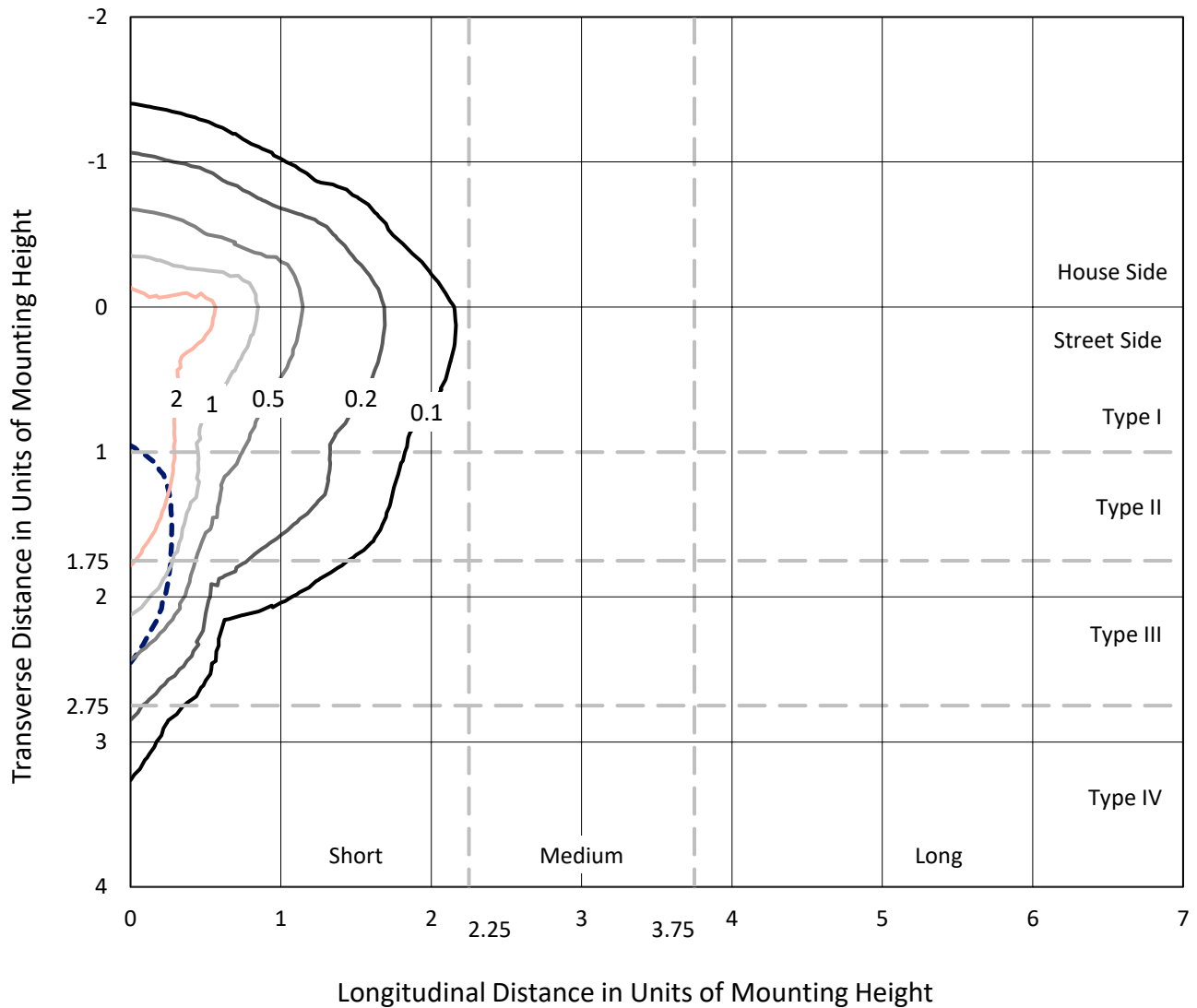
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

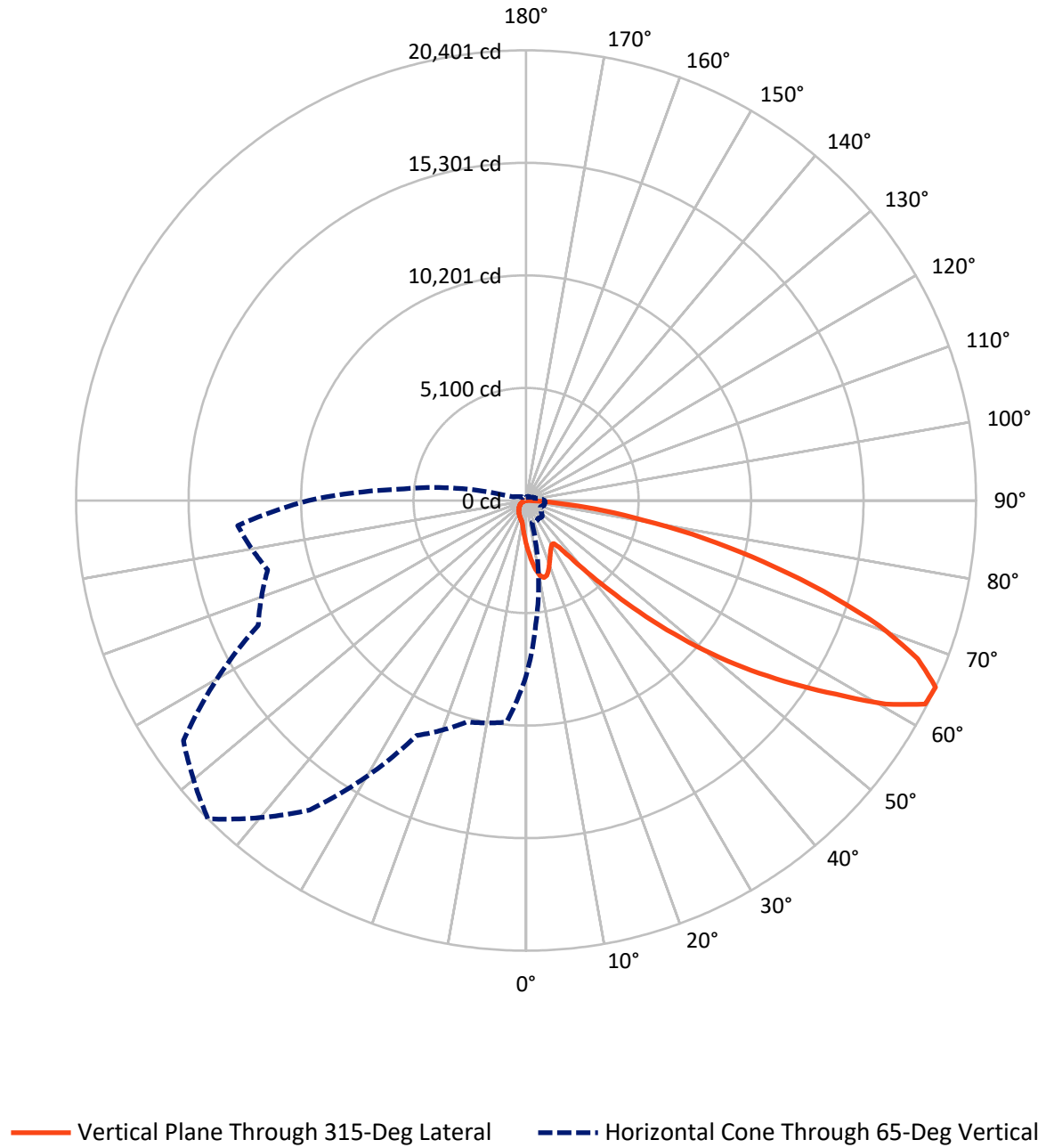
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2032.9	0.0	2032.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12483.1	0.0	12483.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	14516.0	0.0	14516.0
	% Fixture	100.0	0.0	100.0

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

Coefficient of Utilization



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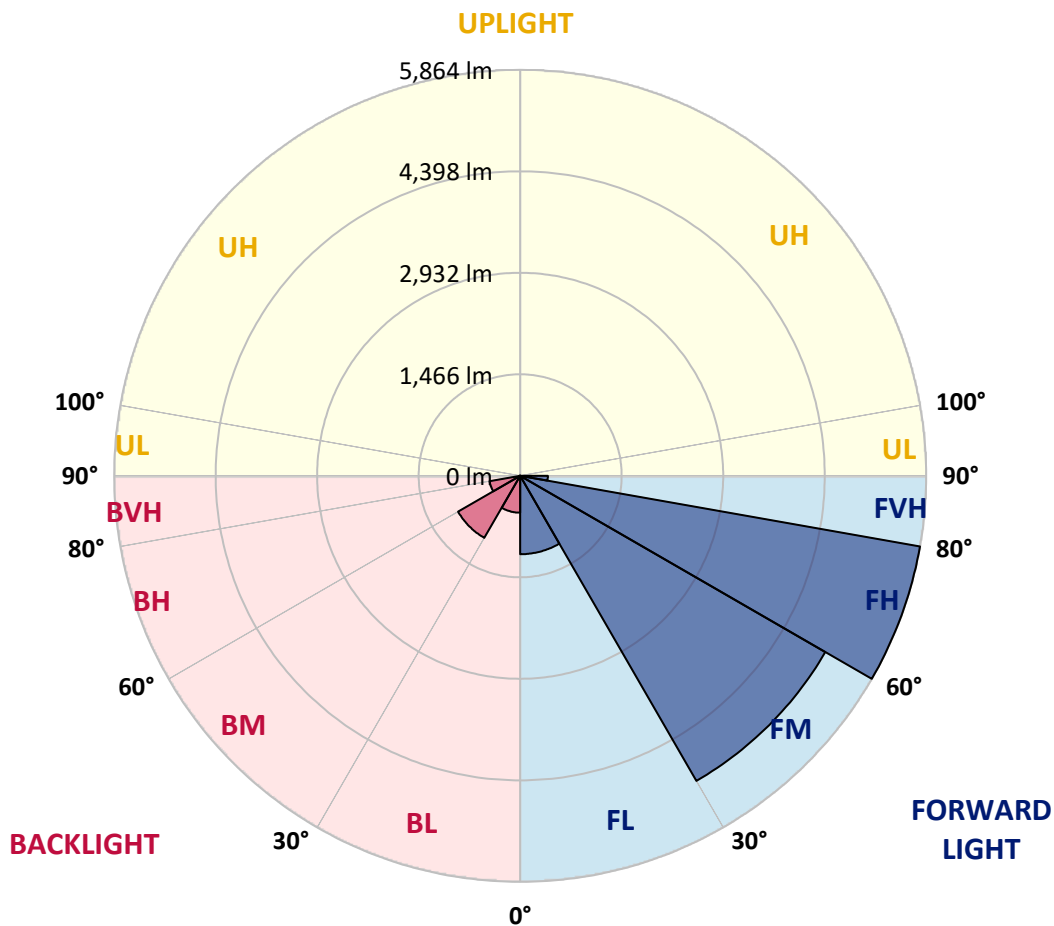
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.2	7.8			
FM (30°-60°)	5087.7	35.0			
FH (60°-80°)	5863.8	40.4			G3/7500
FVH (80°-90°)	399.4	2.8			G3/500
BL (0°-30°)	532.8	3.7	B2/1000		
BM (30°-60°)	1035.2	7.1	B2/2500		
BH (60°-80°)	448.9	3.1	B1/500		G1/500
BVH (80°-90°)	16.0	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°	2271	2232	2209	2152	2095	2049	1987	1946	1897	1850
5°	2531	2468	2392	2288	2193	2096	2002	1909	1811	1721
7.5°	2751	2660	2526	2388	2267	2150	2040	1917	1798	1657
10°	2919	2803	2627	2446	2307	2189	2082	1978	1858	1688
12.5°	3021	2897	2688	2476	2317	2185	2102	2056	2009	1840
15°	3096	2962	2731	2497	2294	2132	2071	2117	2171	2063
17.5°	3174	3033	2787	2506	2232	2029	2003	2122	2247	2242
20°	3248	3108	2836	2500	2132	1904	1927	2079	2224	2285
22.5°	3333	3185	2883	2477	2002	1787	1859	2011	2138	2210
25°	3437	3282	2949	2443	1862	1690	1790	1932	2035	2085
27.5°	3549	3398	3037	2425	1749	1621	1712	1838	1930	1965
30°	3688	3533	3141	2405	1675	1581	1631	1729	1819	1854
32.5°	3840	3683	3241	2357	1630	1551	1552	1614	1696	1738
35°	4030	3863	3348	2252	1594	1516	1475	1505	1573	1623
37.5°	4301	4099	3479	2102	1541	1462	1394	1401	1453	1508
40°	4675	4416	3633	1946	1465	1386	1305	1302	1340	1394
42.5°	5181	4835	3818	1797	1392	1294	1211	1206	1236	1283
45°	5849	5371	4045	1669	1335	1204	1122	1120	1145	1186
47.5°	6704	6116	4272	1582	1305	1133	1049	1053	1075	1112
50°	7811	7087	4341	1538	1305	1095	984	1004	1022	1050
52.5°	9138	8019	4113	1498	1313	1100	929	972	985	1009
55°	10368	8476	3536	1443	1315	1131	882	946	970	979
57.5°	11082	8319	2859	1350	1307	1152	852	914	960	966
60°	10946	7768	2105	1279	1248	1144	843	865	938	947
62.5°	9898	6844	1461	1224	1118	1109	840	788	890	912
65°	7956	5388	1032	1054	980	1033	824	708	832	862
67.5°	5772	3646	745	854	888	910	788	650	766	806
70°	3704	1969	523	564	748	773	726	598	699	745
72.5°	2633	1163	376	395	601	644	639	540	621	677
75°	1817	641	254	282	436	523	493	464	526	583
77.5°	1139	287	152	196	286	411	338	359	410	463
80°	634	111	85	130	156	299	187	231	302	340
82.5°	138	14	38	56	61	174	99	134	190	187
85°	0	0	7	8	4	75	36	44	62	58
87.5°	0	0	0	0	0	0	0	0	0	2
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
1808	2.5°	1800	1751	1715	1697	1682	1696	1704	1704	1738	1758
1666	5°	1631	1543	1476	1431	1404	1413	1423	1434	1477	1506
1582	7.5°	1514	1379	1277	1214	1181	1186	1193	1202	1244	1273
1594	10°	1492	1298	1154	1071	1031	1024	1020	1017	1042	1064
1730	12.5°	1582	1302	1101	1000	951	930	906	887	891	905
1936	15°	1743	1353	1084	963	902	867	839	816	811	816
2116	17.5°	1927	1422	1082	931	855	819	796	775	768	769
2217	20°	2049	1477	1076	895	810	778	758	737	730	732
2189	22.5°	2061	1506	1067	855	765	738	718	699	698	698
2084	25°	1996	1506	1048	819	722	698	680	657	661	663
1965	27.5°	1895	1470	1012	790	685	660	642	621	626	629
1854	30°	1795	1424	969	757	650	621	608	590	592	596
1744	32.5°	1702	1375	918	730	615	586	576	556	559	563
1636	35°	1610	1321	858	698	583	554	546	523	525	531
1528	37.5°	1511	1264	809	666	552	522	514	490	492	499
1416	40°	1407	1208	761	632	519	489	482	456	458	466
1306	42.5°	1302	1147	724	588	485	453	446	422	425	434
1210	45°	1205	1074	700	539	453	417	410	388	394	404
1129	47.5°	1122	999	690	498	419	380	374	356	366	377
1060	50°	1051	927	677	456	387	348	342	330	343	354
1013	52.5°	1000	845	649	418	359	321	319	313	325	335
978	55°	956	760	604	385	334	298	300	297	307	315
957	57.5°	916	686	547	359	307	278	284	280	285	290
935	60°	868	611	479	330	275	258	265	254	253	255
895	62.5°	797	510	408	294	247	236	239	218	202	202
836	65°	698	410	342	254	215	206	204	174	152	150
772	67.5°	583	337	284	214	179	173	175	153	131	129
708	70°	475	279	229	171	138	144	153	131	110	107
633	72.5°	386	222	179	131	102	119	130	107	87	85
540	75°	298	163	128	89	74	92	102	78	62	59
418	77.5°	199	101	72	56	44	63	68	41	36	35
304	80°	121	47	31	27	15	23	27	17	19	20
162	82.5°	61	13	5	1	0	0	8	4	8	10
44	85°	5	0	0	0	0	0	0	0	2	5
0	87.5°	0	0	0	0	0	0	0	0	0	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
1766	2.5°	1822	1864	1904	1968	2034	2099	2165	2229	2252	2269
1525	5°	1612	1691	1783	1910	2046	2186	2328	2458	2517	2557
1298	7.5°	1395	1498	1630	1821	2034	2257	2480	2685	2780	2857
1084	10°	1180	1292	1459	1677	1965	2285	2593	2875	2998	3095
930	12.5°	991	1096	1271	1512	1857	2263	2658	2997	3142	3251
820	15°	858	932	1087	1347	1729	2192	2662	3055	3214	3328
774	17.5°	784	809	910	1179	1587	2099	2625	3075	3245	3351
733	20°	744	748	776	961	1405	2012	2590	3095	3274	3363
704	22.5°	712	712	719	786	1170	1908	2579	3130	3314	3369
671	25°	683	683	685	703	927	1749	2572	3184	3369	3384
638	27.5°	653	654	654	664	747	1533	2542	3254	3435	3404
606	30°	623	625	625	632	661	1280	2483	3338	3521	3430
574	32.5°	593	595	595	601	622	1022	2409	3415	3608	3441
543	35°	562	565	563	571	593	813	2315	3492	3702	3476
513	37.5°	531	533	532	540	565	702	2206	3550	3830	3554
481	40°	500	499	499	508	535	670	2069	3642	4014	3691
449	42.5°	468	468	466	476	509	646	1938	3807	4282	3909
419	45°	439	438	434	443	484	604	1892	4115	4678	4262
389	47.5°	411	410	400	408	454	566	2064	4619	5227	4781
365	50°	386	387	368	375	424	537	2437	5273	5956	5480
345	52.5°	363	363	338	342	387	511	2792	5982	6918	6455
324	55°	340	338	310	312	350	474	2845	6674	8230	7922
301	57.5°	314	310	284	284	316	447	2466	7206	9858	10078
258	60°	282	279	262	257	289	471	1740	7268	10908	12945
205	62.5°	241	245	236	229	263	489	1031	6769	10654	13857
159	65°	190	206	204	199	289	412	609	5811	9875	13121
139	67.5°	162	173	170	170	303	313	383	4540	8803	12248
116	70°	138	149	138	138	229	190	265	3170	7646	11282
93	72.5°	114	125	113	105	183	142	194	1981	6548	10276
66	75°	87	100	91	81	121	106	147	1151	5425	8792
40	77.5°	55	72	68	57	89	77	106	685	4186	6870
24	80°	34	37	38	36	51	52	72	390	2865	4788
15	82.5°	22	22	17	19	25	30	41	147	1684	2915
9	85°	16	14	9	9	12	15	16	45	683	1151
4	87.5°	8	7	3	4	6	5	4	2	172	368
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
2307	2.5°	2327	2358	2360	2360	2333	2332	2277	2271
2647	5°	2740	2760	2765	2755	2701	2661	2554	2531
2994	7.5°	3118	3158	3158	3134	3046	2964	2809	2751
3281	10°	3420	3466	3456	3407	3296	3183	2995	2919
3455	12.5°	3567	3614	3588	3532	3424	3305	3107	3021
3505	15°	3564	3551	3524	3517	3465	3375	3190	3096
3474	17.5°	3437	3327	3306	3376	3442	3420	3262	3174
3400	20°	3236	3044	3025	3159	3347	3443	3329	3248
3293	22.5°	3024	2817	2773	2921	3204	3450	3414	3333
3175	25°	2823	2615	2571	2709	3045	3438	3506	3437
3062	27.5°	2655	2454	2413	2551	2892	3404	3598	3549
2950	30°	2525	2339	2309	2442	2760	3362	3715	3688
2846	32.5°	2449	2313	2324	2433	2689	3316	3827	3840
2795	35°	2524	2530	2626	2671	2755	3309	3979	4030
2856	37.5°	2897	3105	3304	3267	3078	3390	4206	4301
3122	40°	3532	3959	4282	4141	3665	3638	4533	4675
3594	42.5°	4308	5032	5564	5186	4422	4072	5000	5181
4165	45°	5127	6355	7193	6407	5229	4680	5707	5849
4700	47.5°	5990	7963	9047	7761	5977	5372	6671	6704
5207	50°	6934	9726	10937	9114	6699	6165	7849	7811
5798	52.5°	7833	11539	12787	10473	7333	7149	9216	9138
6606	55°	8691	13351	14648	11779	7931	8449	10840	10368
7771	57.5°	9686	14980	16566	13091	8767	10137	12656	11082
10002	60°	11157	16831	18735	14889	10357	11911	13307	10946
12674	62.5°	13035	18533	20312	16651	11954	12245	12348	9898
12129	65°	13400	18964	20401	17122	11748	10387	10081	7956
10834	67.5°	12432	18185	19157	16245	10392	8027	7565	5772
9984	70°	11346	16700	16989	14754	9140	5904	5109	3704
9402	72.5°	10233	14719	14121	12813	8033	4299	3685	2633
8573	75°	8911	12114	11123	10646	6651	3374	2666	1817
7374	77.5°	7136	8527	8262	8252	4998	2465	1779	1139
5761	80°	5034	5534	5399	6215	3353	1788	1071	634
4010	82.5°	2437	3060	3141	3701	1631	1052	247	138
1568	85°	954	1476	1245	1405	458	293	6	0
258	87.5°	107	171	157	124	56	12	0	0
0	90°	0	0	0	0	0	0	0	0

(END OF REPORT)