

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: LUMARK

Report Number: 08525

Luminaire Tested: **HPSF-X-150-XX-TV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 08525
Test Lab: LUMINAIRE TESTING LABORATORY, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: HPSF-X-150-XX-TV
Description: FALCON FLOODLIGHT
Light Source: 150 WATT HPS CLEAR ED-17 HOR
Ballast/Driver: -

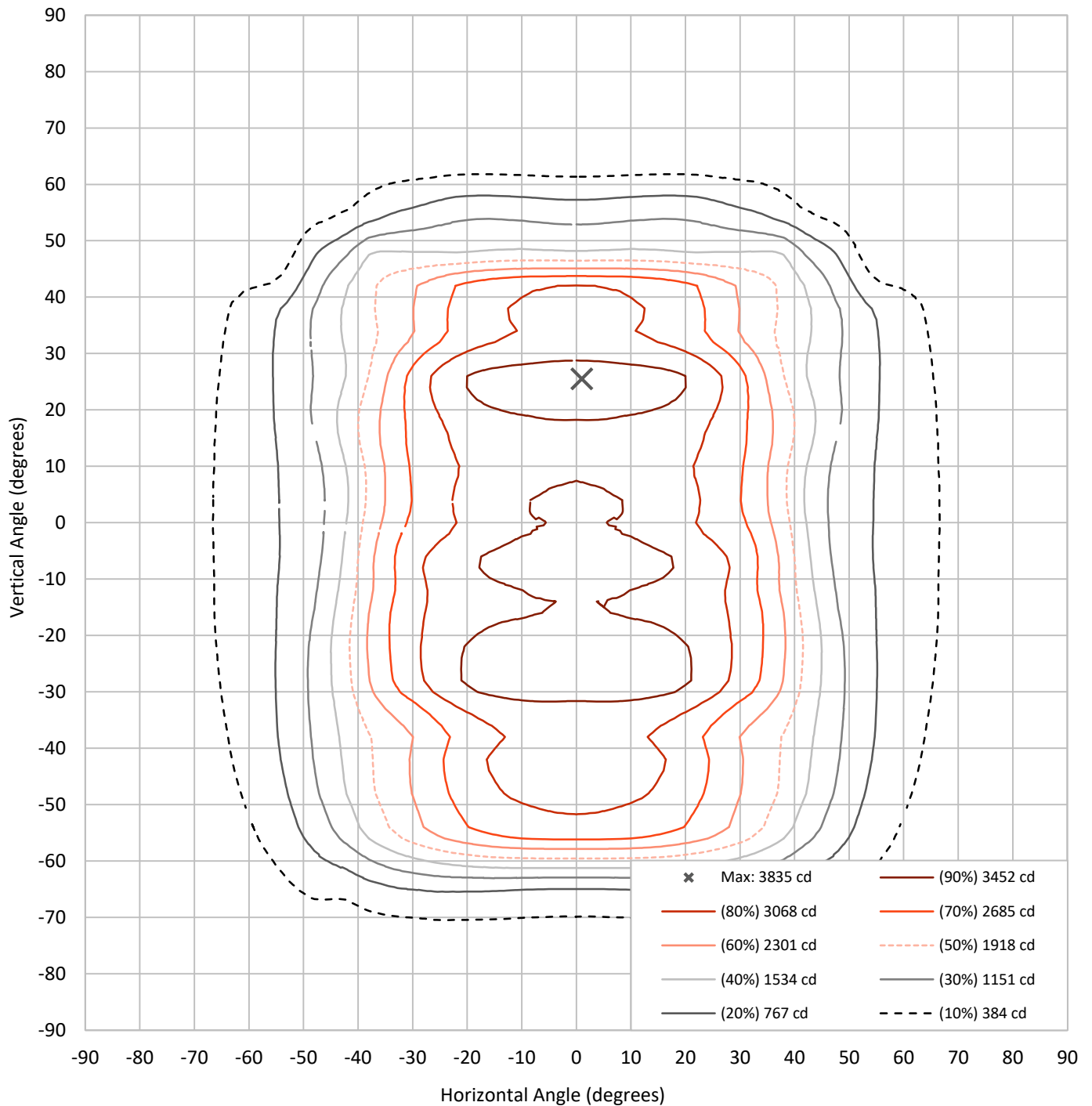
Summary

Lumens per Lamp:	16000 (1 lamp)	NEMA Type:	7H x 7V
Luminaire Lumens:	8690.5 lumens	Max Intensity:	3835 candela
Efficiency:	54.3%	Max Intensity Angle:	1°H x 25.5°V
Efficacy:	57.9 lumens/watt		
Luminous Opening:	Rectangular (W 0.79' x L: 0.54' x H: 0')		
Beam Angle (50%):	76.4°H x 105.9°V	Field Angle (10%):	130.7°H x 131.3°V
Beam Lumens:	6648.2 lumens	Field Lumens:	8517.2 lumens
Beam Efficiency:	76.5%	Field Efficiency:	98.0%
Input Watts (W):	150		
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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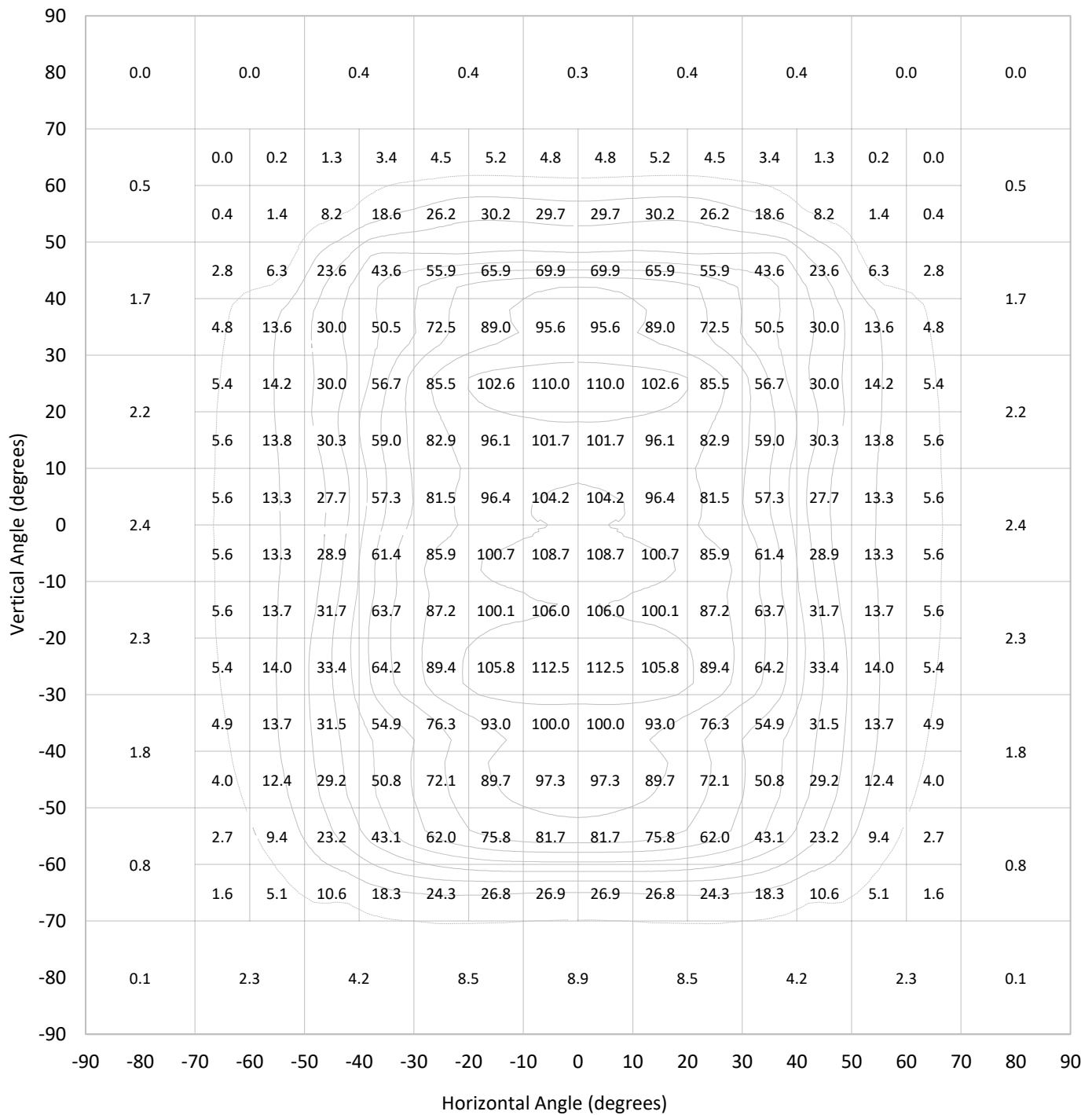
Iso-Candela Plot





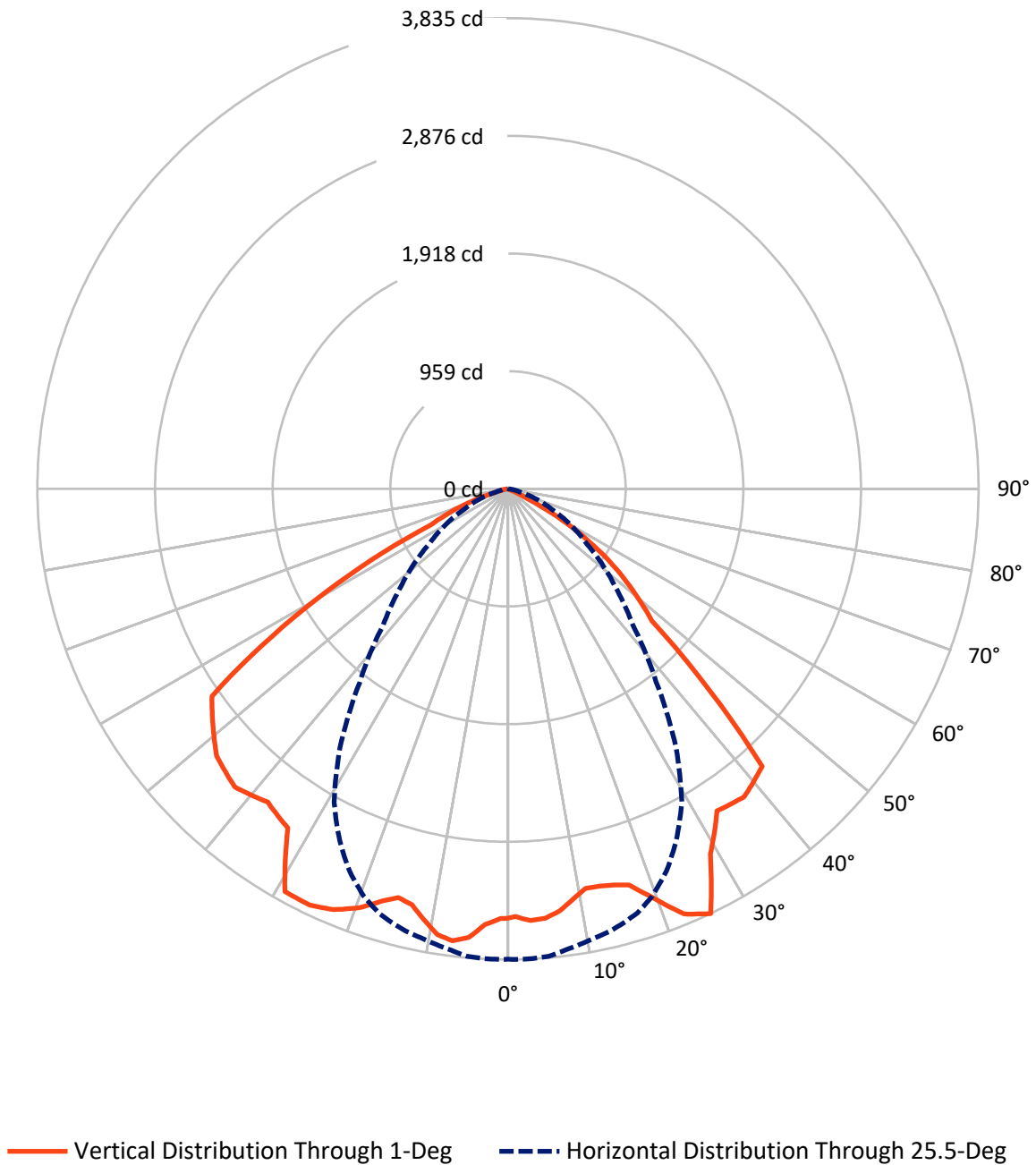
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Lumen Table



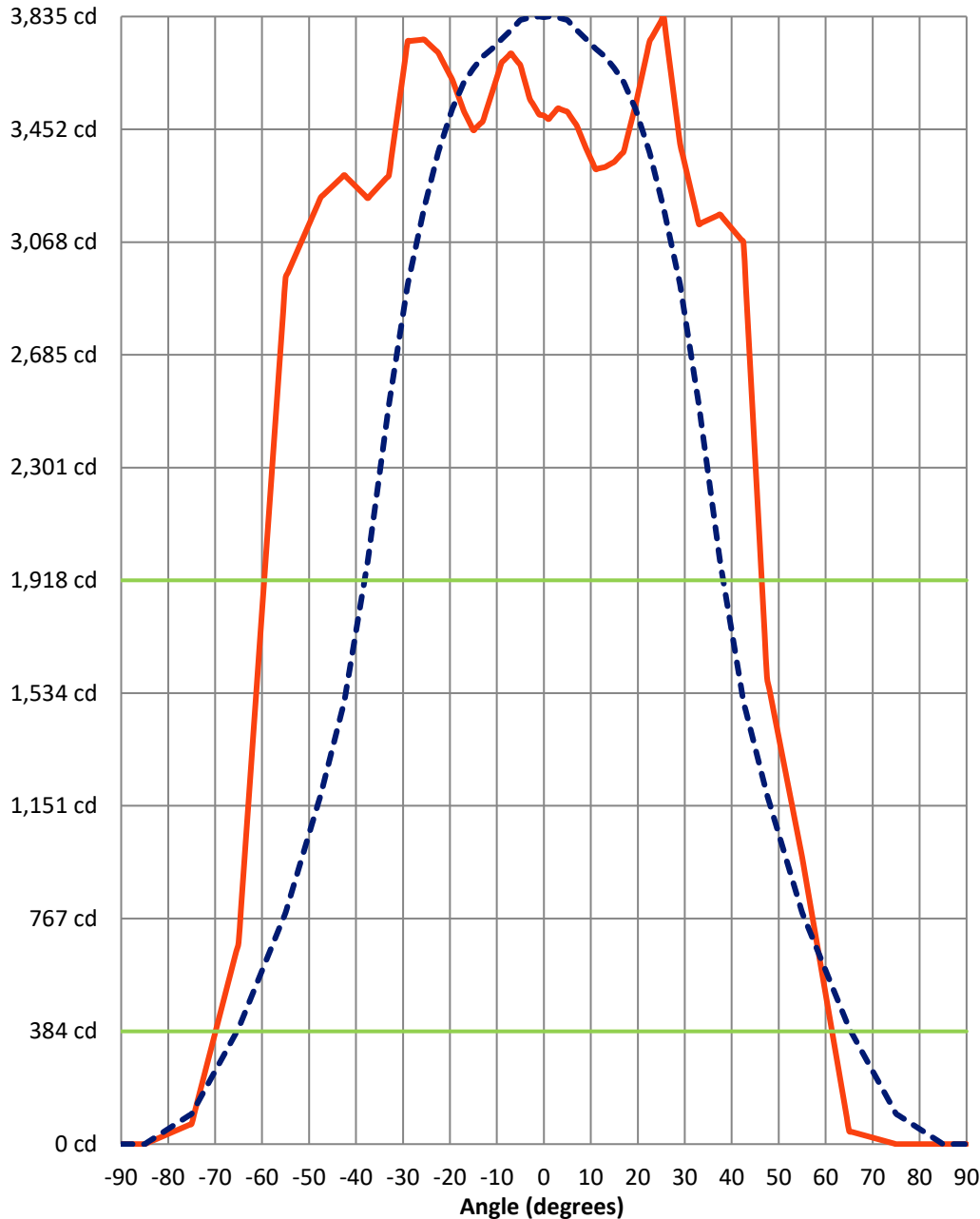
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 76.4°
 V Angle: 105.9°
 Lumens: 6648.2
 Efficiency: 76.5%

Field:
 H Angle: 130.7°
 V Angle: 131.3°
 Lumens: 8517.2
 Efficiency: 98.0%

Spill:
 Lumens: 173.3
 Efficiency: 2.0%

— Vertical Distribution through 1-Deg
 - - - Horizontal Distribution through 25.5-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
65°	45	44	44	44	46	49	51	56	58	59	62
55°	979	975	980	999	1017	1032	1049	1057	1071	1077	1066
47.5°	1589	1589	1596	1603	1598	1615	1611	1603	1596	1584	1572
42.5°	3075	3067	3064	3046	3049	3035	3008	2975	2934	2887	2798
37.5°	3161	3162	3160	3155	3138	3124	3100	3072	3035	2983	2898
33°	3130	3129	3128	3123	3105	3081	3059	3028	2997	2954	2874
29°	3402	3402	3391	3381	3362	3348	3334	3315	3279	3262	3197
25.5°	3833	3835	3832	3823	3789	3758	3726	3699	3659	3612	3521
22.5°	3750	3750	3752	3737	3703	3669	3637	3612	3574	3525	3435
19.5°	3526	3533	3525	3517	3492	3470	3457	3437	3410	3371	3311
17°	3378	3376	3381	3380	3368	3352	3347	3338	3311	3274	3215
15°	3333	3341	3327	3330	3322	3304	3294	3292	3274	3242	3184
13°	3316	3323	3308	3294	3289	3282	3261	3245	3218	3188	3142
11°	3312	3316	3296	3277	3264	3249	3246	3226	3195	3160	3111
9°	3385	3386	3369	3348	3322	3301	3277	3251	3214	3166	3105
7°	3478	3464	3444	3427	3391	3365	3353	3317	3265	3211	3140
5°	3523	3511	3504	3485	3452	3433	3413	3372	3316	3251	3162
3°	3536	3523	3512	3502	3487	3456	3419	3393	3341	3284	3179
1°	3498	3486	3488	3466	3449	3444	3405	3357	3317	3247	3160
0°	3505	3498	3500	3449	3442	3440	3399	3342	3311	3249	3149
-1°	3505	3502	3485	3448	3430	3423	3390	3343	3302	3247	3168
-3°	3550	3555	3553	3512	3492	3479	3436	3399	3359	3309	3241
-5°	3674	3669	3684	3660	3617	3617	3557	3508	3480	3441	3378
-7°	3705	3710	3712	3707	3686	3654	3620	3564	3526	3490	3420
-9°	3674	3678	3662	3640	3611	3583	3554	3516	3497	3454	3397
-11°	3581	3578	3560	3548	3516	3496	3461	3437	3426	3399	3349
-13°	3474	3479	3473	3461	3448	3437	3403	3403	3384	3347	3293
-15°	3443	3448	3435	3433	3427	3419	3395	3386	3359	3331	3288
-17°	3509	3512	3494	3484	3468	3447	3437	3431	3405	3373	3315
-19.5°	3619	3620	3606	3589	3561	3540	3536	3532	3514	3474	3404
-22.5°	3723	3712	3716	3704	3681	3661	3646	3632	3613	3578	3506
-25.5°	3760	3757	3755	3754	3746	3736	3716	3681	3640	3595	3513
-29°	3750	3751	3761	3764	3757	3744	3719	3673	3625	3586	3508
-33°	3292	3295	3300	3308	3303	3292	3274	3253	3224	3192	3119
-37.5°	3216	3217	3201	3180	3158	3142	3110	3058	3012	2951	2849
-42.5°	3299	3296	3283	3264	3251	3232	3200	3170	3124	3062	2974
-47.5°	3223	3220	3209	3187	3168	3145	3127	3094	3040	2977	2883
-55°	2947	2946	2946	2943	2932	2917	2894	2858	2814	2755	2665
-65°	682	686	668	684	688	695	709	729	742	750	761
-75°	69	69	68	73	71	71	74	71	67	69	64
-85°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	6	2	0	0	0	0	0
65°	58	53	59	65	83	36	23	6	0	19	0
55°	1037	956	852	763	564	359	238	23	3	48	0
47.5°	1552	1578	1584	1603	1617	1103	801	68	190	69	0
42.5°	2660	2493	2302	2108	1873	1468	1050	385	287	78	0
37.5°	2758	2573	2353	2131	1891	1586	1219	746	331	86	0
33°	2744	2572	2336	2097	1843	1575	1228	779	361	95	0
29°	3092	2944	2695	2335	1905	1506	1199	792	381	98	0
25.5°	3373	3183	2923	2514	1983	1505	1189	787	394	103	0
22.5°	3304	3139	2905	2560	2072	1588	1209	783	408	106	0
19.5°	3207	3065	2862	2574	2164	1655	1224	778	416	104	0
17°	3120	3007	2839	2562	2177	1660	1196	770	417	106	0
15°	3099	2994	2838	2566	2172	1633	1160	761	424	108	0
13°	3079	2987	2827	2552	2146	1579	1113	756	426	111	0
11°	3053	2953	2799	2532	2079	1515	1078	751	425	109	0
9°	3039	2936	2781	2512	2040	1483	1057	748	428	109	0
7°	3059	2943	2769	2518	2036	1457	1041	748	434	114	0
5°	3077	2949	2754	2515	2039	1448	1036	746	433	112	0
3°	3082	2970	2752	2516	2052	1447	1029	745	433	112	0
1°	3058	2949	2798	2527	2099	1466	1031	746	433	115	0
0°	3050	2959	2825	2558	2127	1486	1036	743	436	115	0
-1°	3055	2964	2840	2592	2151	1500	1033	742	434	115	0
-3°	3130	3034	2908	2665	2200	1526	1034	739	433	112	0
-5°	3257	3120	2985	2713	2247	1550	1047	737	430	112	0
-7°	3322	3182	3035	2724	2282	1574	1071	737	430	113	0
-9°	3301	3180	3028	2712	2284	1602	1097	742	426	112	0
-11°	3251	3146	2995	2699	2271	1627	1121	748	427	112	0
-13°	3223	3137	2994	2727	2304	1671	1149	751	427	110	0
-15°	3226	3145	3009	2772	2348	1709	1174	750	426	112	0
-17°	3241	3162	3028	2798	2380	1754	1201	751	424	113	0
-19.5°	3306	3196	3032	2795	2399	1792	1229	752	420	111	0
-22.5°	3391	3245	3045	2787	2400	1811	1257	755	411	110	0
-25.5°	3400	3252	3035	2771	2373	1791	1267	760	401	108	0
-29°	3396	3217	2978	2726	2338	1763	1266	757	388	106	0
-33°	2997	2831	2618	2413	2135	1681	1253	753	367	100	0
-37.5°	2715	2546	2341	2148	1928	1615	1226	742	341	94	0
-42.5°	2810	2619	2394	2165	1908	1569	1194	708	304	83	0
-47.5°	2748	2578	2373	2160	1896	1523	1135	638	255	73	0
-55°	2546	2409	2227	1979	1678	1283	937	515	168	54	0
-65°	769	773	740	716	622	451	477	274	108	22	0
-75°	60	64	39	34	26	12	0	92	34	0	0
-85°	0	0	0	0	0	0	0	0	0	0	0
-90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	90°
90°	0
85°	0
75°	0
65°	0
55°	0
47.5°	0
42.5°	0
37.5°	0
33°	0
29°	0
25.5°	0
22.5°	0
19.5°	0
17°	0
15°	0
13°	0
11°	0
9°	0
7°	0
5°	0
3°	0
1°	0
0°	0
-1°	0
-3°	0
-5°	0
-7°	0
-9°	0
-11°	0
-13°	0
-15°	0
-17°	0
-19.5°	0
-22.5°	0
-25.5°	0
-29°	0
-33°	0
-37.5°	0
-42.5°	0
-47.5°	0
-55°	0
-65°	0
-75°	0
-85°	0
-90°	0

(END OF REPORT)