

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: INVUE

Report Number: P95385

Luminaire Tested: **VFS-K-B40-3-LED-E1-MST-SG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P95385
REPORT SCALED FROM IESNA LM79-08 TEST DATA (P22792)
Test Lab: INNOVATION CENTER
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VFS-K-B40-3-LED-E1-MST-SG
Description: ARCHITECTURAL FLOOD LUMINAIRE
MEDIUM SYMMETRIC RECTANGULAR WITH SOFTENING GLASS DISTRIBUTION
WITH 40 LED'S, 350mA DRIVE CURRENT
Light Source: -
Ballast/Driver: -

Summary

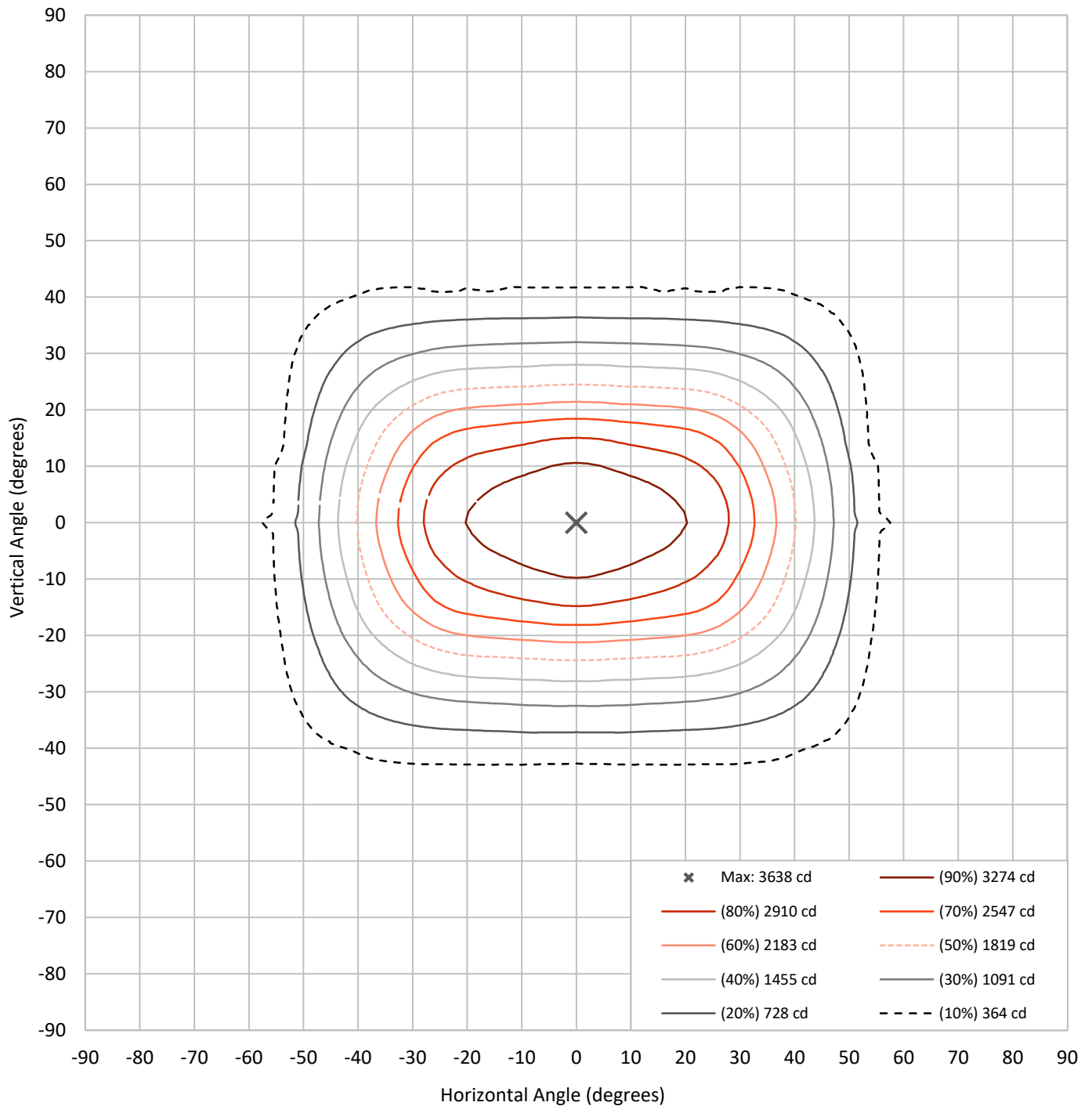
Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	4270.4 lumens	Max Intensity:	3638 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	94.9 lumens/watt		
Luminous Opening:	(L: 0.83 ' x W: 0 ' x H: 0.5 ')		
Beam Angle (50%):	80.5°H x 48.9°V	Field Angle (10%):	115.1°H x 84.2°V
Beam Lumens:	2652 lumens	Field Lumens:	3968.3 lumens
Beam Efficiency:	62.1%	Field Efficiency:	92.9%
Input Watts (W):	45		
Input Voltage (V):	NR		
Input Current (A _{in}):	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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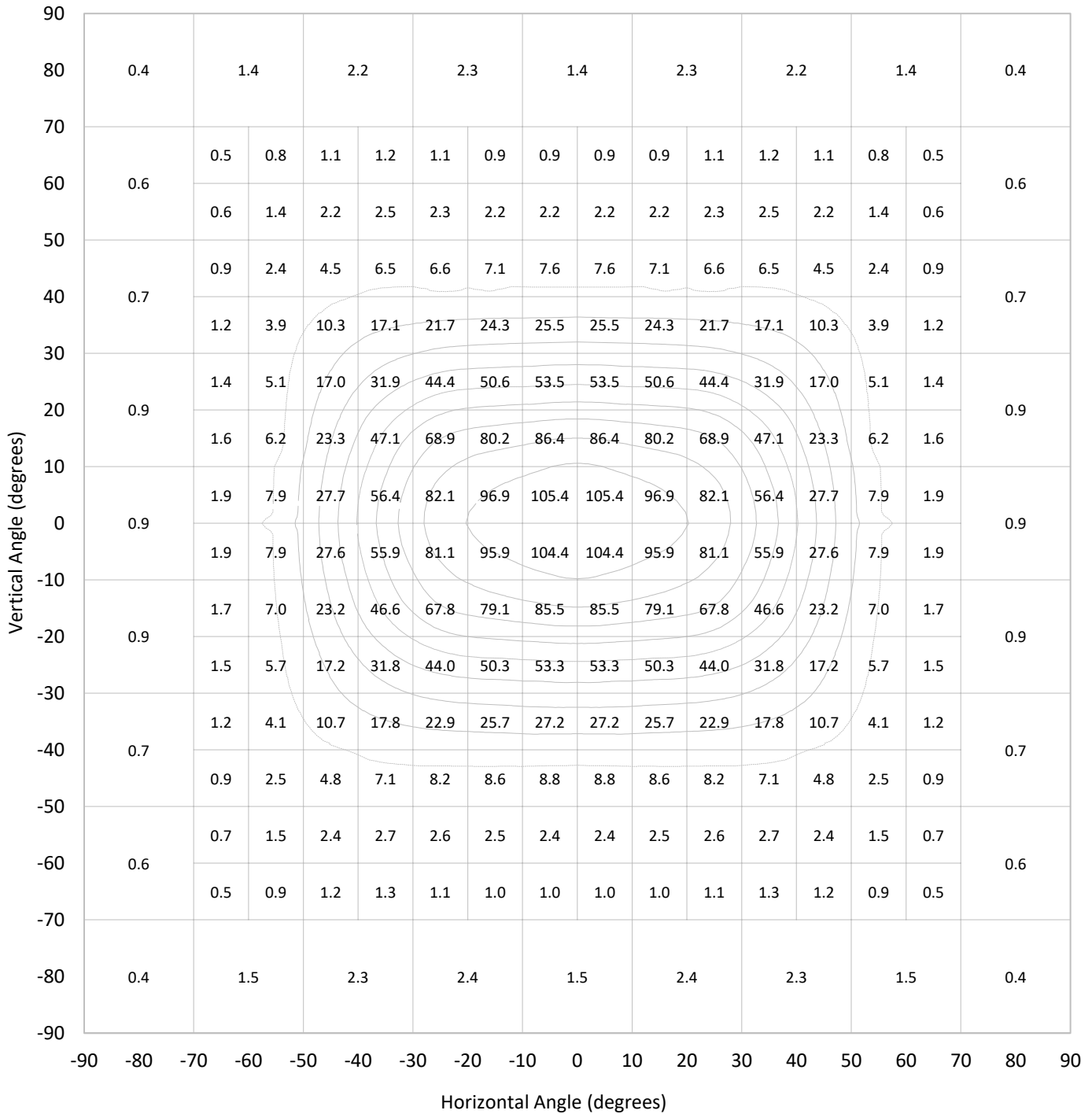
Iso-Candela Plot





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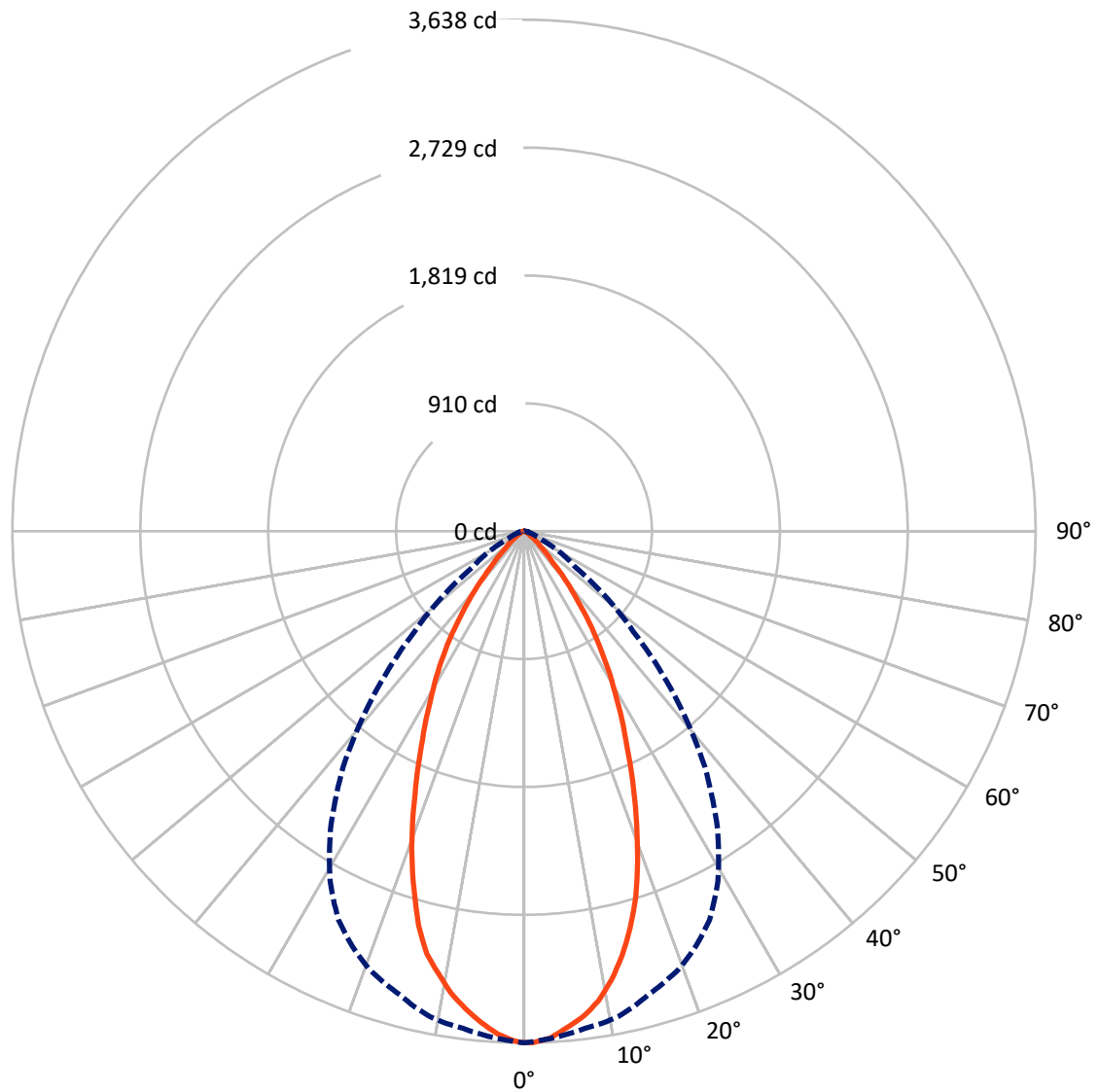
Lumen Table



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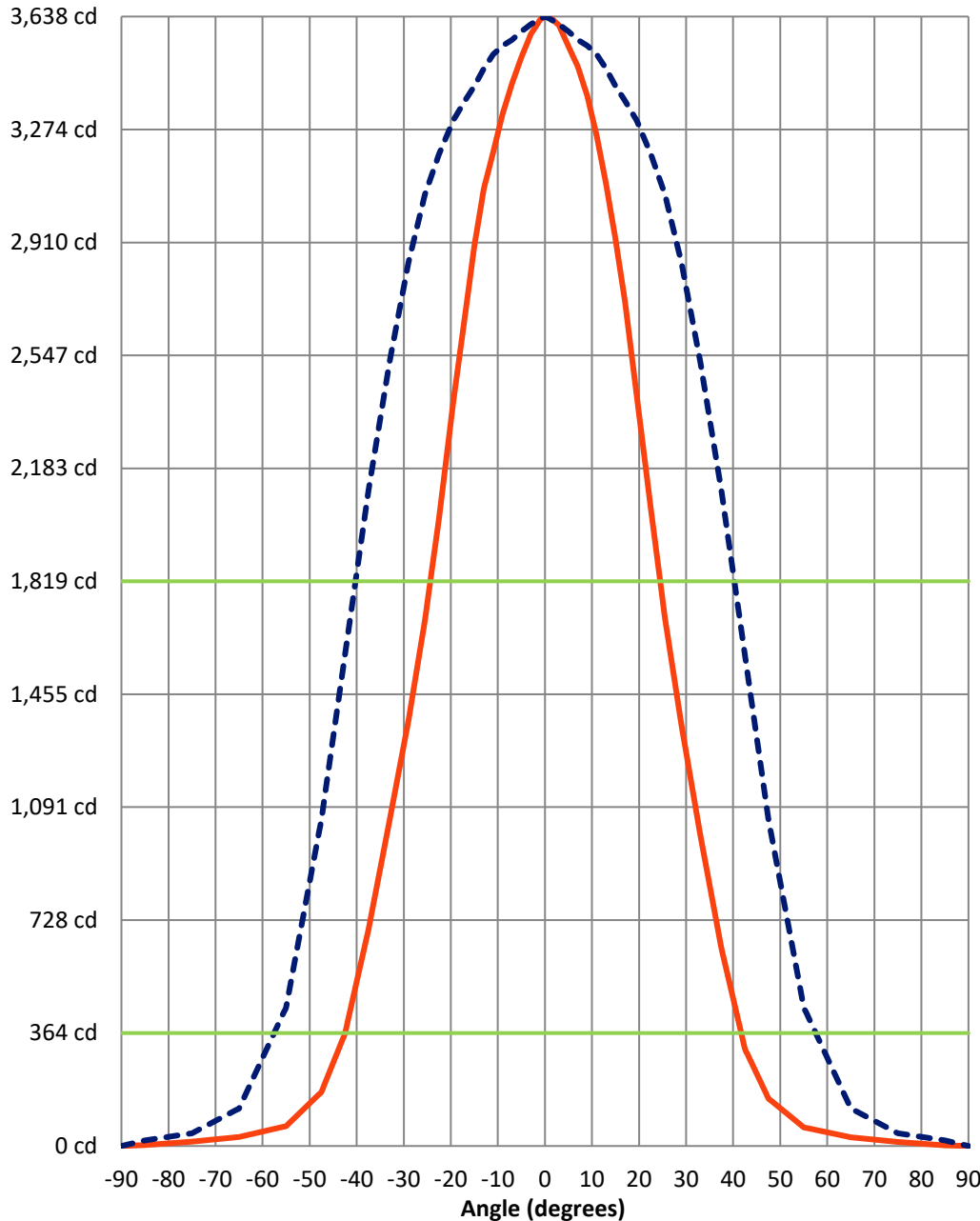
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 80.5°
 V Angle: 48.9°
 Lumens: 2652
 Efficiency: 62.1%

Field:
 H Angle: 115.1°
 V Angle: 84.2°
 Lumens: 3968.3
 Efficiency: 92.9%

Spill:
 Lumens: 302
 Efficiency: 7.1%

— Vertical Distribution through 0-Deg
 - - - Horizontal Distribution through 0-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°	2	3	5	9	15	18	20	20	21	21	22
75°	13	13	13	13	13	14	15	18	20	23	25
65°	28	28	28	28	28	28	27	28	28	29	30
55°	60	60	59	59	59	59	60	59	60	62	63
47.5°	153	153	152	155	154	156	159	160	160	160	163
42.5°	313	312	314	315	313	318	320	323	251	250	320
37.5°	637	636	634	630	627	627	624	626	628	624	613
33°	1003	1002	1000	991	992	990	991	979	978	975	963
29°	1357	1357	1356	1354	1343	1326	1333	1320	1310	1304	1291
25.5°	1701	1698	1692	1690	1680	1657	1667	1657	1650	1645	1632
22.5°	2053	2053	2045	2036	2023	1999	2008	1992	1982	1973	1952
19.5°	2418	2421	2415	2399	2381	2356	2358	2337	2319	2310	2284
17°	2721	2718	2707	2694	2671	2636	2628	2611	2579	2564	2535
15°	2920	2918	2912	2898	2867	2827	2806	2779	2755	2734	2694
13°	3098	3100	3090	3062	3024	2983	2960	2933	2904	2883	2838
11°	3254	3255	3239	3204	3163	3125	3110	3075	3034	3007	2958
9°	3382	3379	3364	3337	3297	3258	3220	3190	3153	3115	3051
7°	3476	3472	3456	3429	3408	3358	3321	3289	3247	3202	3134
5°	3542	3544	3531	3517	3492	3454	3415	3370	3322	3275	3204
3°	3609	3602	3585	3568	3543	3514	3481	3435	3387	3334	3266
1°	3638	3631	3610	3594	3568	3541	3510	3467	3412	3365	3303
0°	3638	3631	3613	3590	3563	3544	3516	3470	3414	3367	3303
-1°	3628	3624	3608	3580	3548	3537	3508	3463	3409	3358	3288
-3°	3581	3578	3568	3548	3515	3489	3449	3410	3368	3317	3239
-5°	3507	3509	3496	3474	3444	3412	3366	3332	3288	3245	3163
-7°	3422	3420	3406	3371	3343	3315	3272	3232	3190	3148	3074
-9°	3324	3322	3307	3276	3251	3216	3181	3143	3096	3055	2996
-11°	3201	3201	3193	3162	3135	3104	3065	3030	2993	2960	2900
-13°	3082	3079	3060	3025	2997	2973	2946	2909	2874	2837	2793
-15°	2899	2899	2887	2864	2830	2805	2784	2755	2731	2693	2656
-17°	2673	2675	2684	2665	2637	2618	2593	2566	2542	2521	2488
-19.5°	2394	2390	2383	2373	2343	2338	2322	2298	2284	2269	2243
-22.5°	2023	2021	2029	2016	1994	1995	1980	1964	1952	1948	1929
-25.5°	1694	1694	1693	1683	1666	1670	1661	1646	1635	1638	1622
-29°	1370	1370	1374	1364	1350	1355	1344	1332	1325	1325	1306
-33°	1050	1047	1053	1049	1042	1045	1030	1024	1016	1012	998
-37.5°	697	696	703	700	702	704	694	685	686	681	672
-42.5°	362	367	365	365	368	371	372	368	374	372	371
-47.5°	174	177	179	181	182	180	182	186	186	187	191
-55°	64	65	65	67	67	67	68	68	68	70	73
-65°	29	29	29	29	29	29	29	29	29	30	32
-75°	14	14	14	14	14	15	16	19	21	24	26
-85°	3	3	6	10	16	20	21	22	22	22	22
-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°	22	22	22	22	22	22	22	22	23	22	22
75°	27	28	29	29	29	30	30	29	26	23	22
65°	33	35	38	42	45	49	50	46	35	26	22
55°	67	72	79	86	93	97	95	77	46	29	22
47.5°	165	170	178	183	188	182	163	113	60	32	23
42.5°	251	251	328	328	318	241	230	150	68	35	23
37.5°	611	601	583	566	521	447	343	187	77	37	22
33°	947	927	886	832	753	621	459	211	86	38	22
29°	1277	1241	1174	1091	964	773	558	226	94	40	22
25.5°	1607	1553	1454	1324	1144	905	646	233	100	40	21
22.5°	1921	1851	1720	1539	1313	1016	709	236	105	41	21
19.5°	2235	2151	1985	1760	1483	1125	773	240	110	41	21
17°	2476	2376	2199	1942	1618	1215	827	243	112	42	20
15°	2632	2535	2348	2067	1708	1277	868	244	115	42	20
13°	2765	2664	2460	2172	1792	1342	908	245	117	42	20
11°	2881	2774	2563	2261	1866	1406	943	345	119	42	19
9°	2969	2865	2658	2337	1935	1457	974	353	119	42	19
7°	3054	2944	2732	2404	2011	1503	1003	356	120	42	19
5°	3113	3001	2795	2462	2062	1535	1028	358	122	41	19
3°	3167	3045	2834	2506	2088	1561	1042	360	122	41	18
1°	3190	3068	2850	2522	2106	1577	1048	363	121	41	18
0°	3195	3065	2846	2527	2111	1581	1052	447	121	41	18
-1°	3186	3058	2835	2522	2104	1577	1050	363	121	42	18
-3°	3149	3025	2804	2492	2075	1556	1039	363	120	41	18
-5°	3075	2962	2753	2438	2025	1529	1022	361	120	41	18
-7°	2990	2892	2679	2373	1978	1484	1000	357	120	41	19
-9°	2922	2810	2600	2308	1918	1434	970	354	119	41	19
-11°	2835	2732	2522	2229	1846	1383	942	347	117	41	19
-13°	2735	2630	2422	2145	1784	1331	905	339	116	41	19
-15°	2605	2499	2301	2045	1697	1275	870	333	114	41	19
-17°	2437	2337	2152	1916	1599	1210	831	323	113	41	20
-19.5°	2196	2107	1952	1741	1466	1123	781	313	112	41	20
-22.5°	1885	1813	1694	1524	1295	1012	712	298	107	41	20
-25.5°	1587	1535	1451	1320	1140	907	650	280	102	41	21
-29°	1283	1247	1196	1099	966	785	573	256	96	40	21
-33°	987	962	926	861	771	641	473	228	88	38	22
-37.5°	667	657	638	604	551	474	363	195	78	37	22
-42.5°	370	367	369	356	342	245	233	157	70	35	23
-47.5°	194	197	201	206	210	197	176	120	62	32	23
-55°	77	81	88	96	103	107	104	82	48	30	23
-65°	34	37	41	44	48	52	54	49	36	26	22
-75°	28	29	30	30	31	31	32	31	27	23	22
-85°	23	23	23	23	23	23	23	23	23	22	22
-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)