

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: P95379

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P95379
REPORT SCALED FROM IESNA LM79-08 TEST DATA (P22791)
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
Description: ARCHITECTURAL FLOOD LUMINAIRE
MEDIUM SYMMETRIC RECTANGULAR DISTRIBUTION
WITH 40 LED'S, 350mA DRIVE CURRENT
Light Source: -
Ballast/Driver: -

Summary

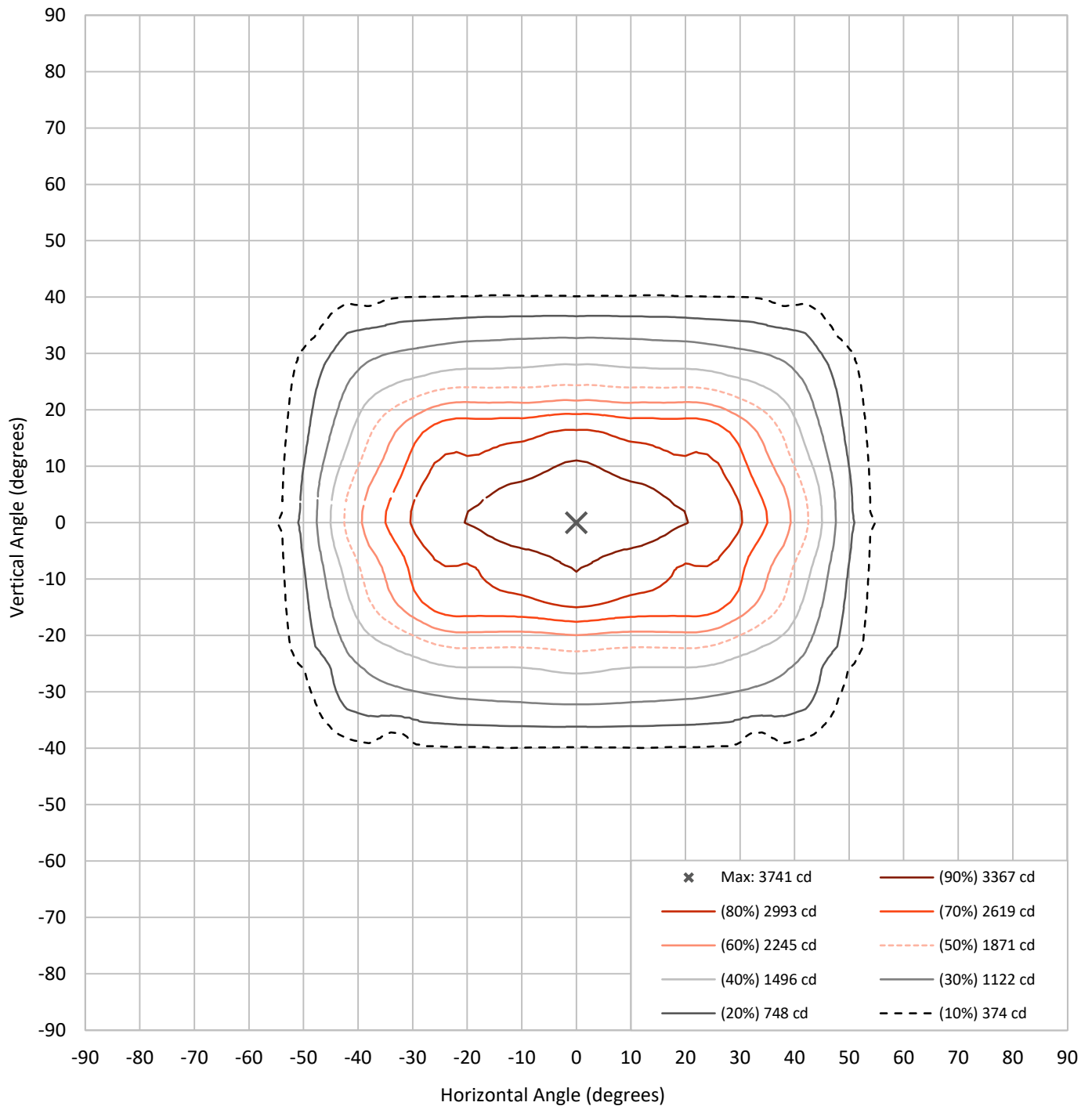
Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	4209.5 lumens	Max Intensity:	3741 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	93.5 lumens/watt		
Luminous Opening:	(L: 0.83 ' x W: 0 ' x H: 0.5 ')		
Beam Angle (50%):	85.3°H x 47.1°V	Field Angle (10%):	109°H x 79.9°V
Beam Lumens:	2797.5 lumens	Field Lumens:	4019.4 lumens
Beam Efficiency:	66.5%	Field Efficiency:	95.5%
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		



REPORT NUMBER: P95379

CATALOG NUMBER: VFS-K-B40-3-LED-E1-MST

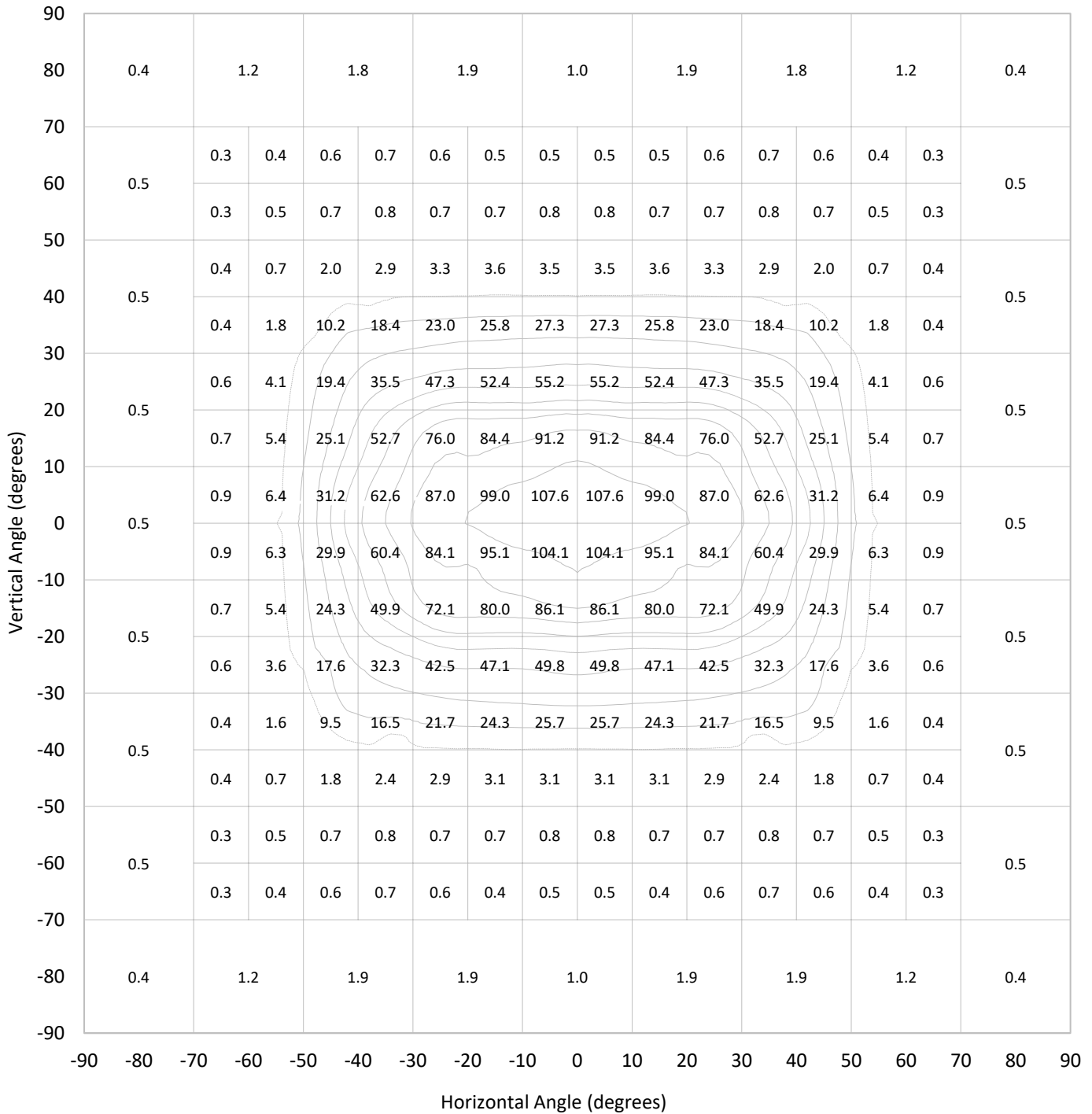
Iso-Candela Plot





REPORT NUMBER: P95379
 CATALOG NUMBER: VFS-K-B40-3-LED-E1-MST

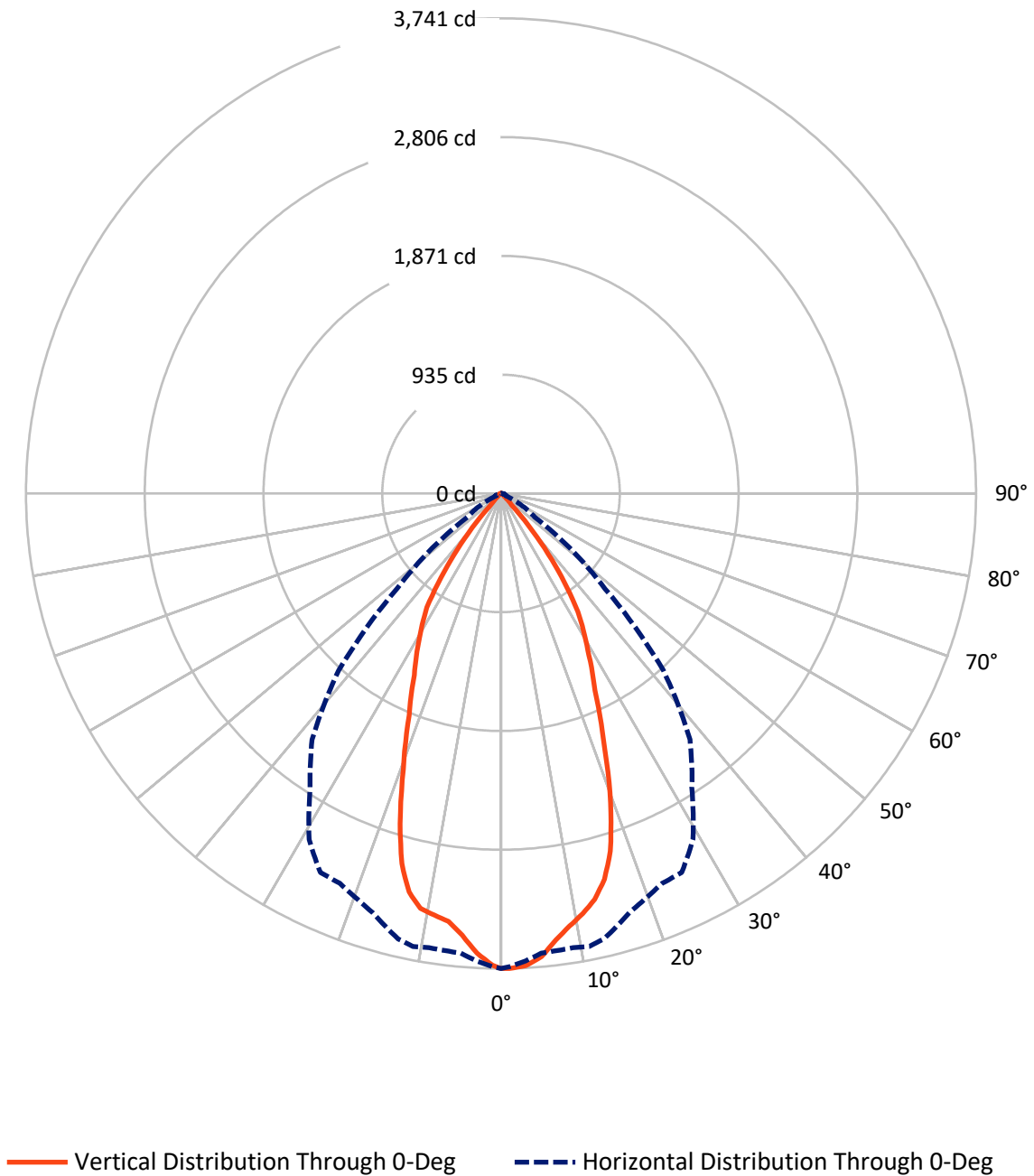
Lumen Table



REPORT NUMBER: P95379

CATALOG NUMBER: VFS-K-B40-3-LED-E1-MST

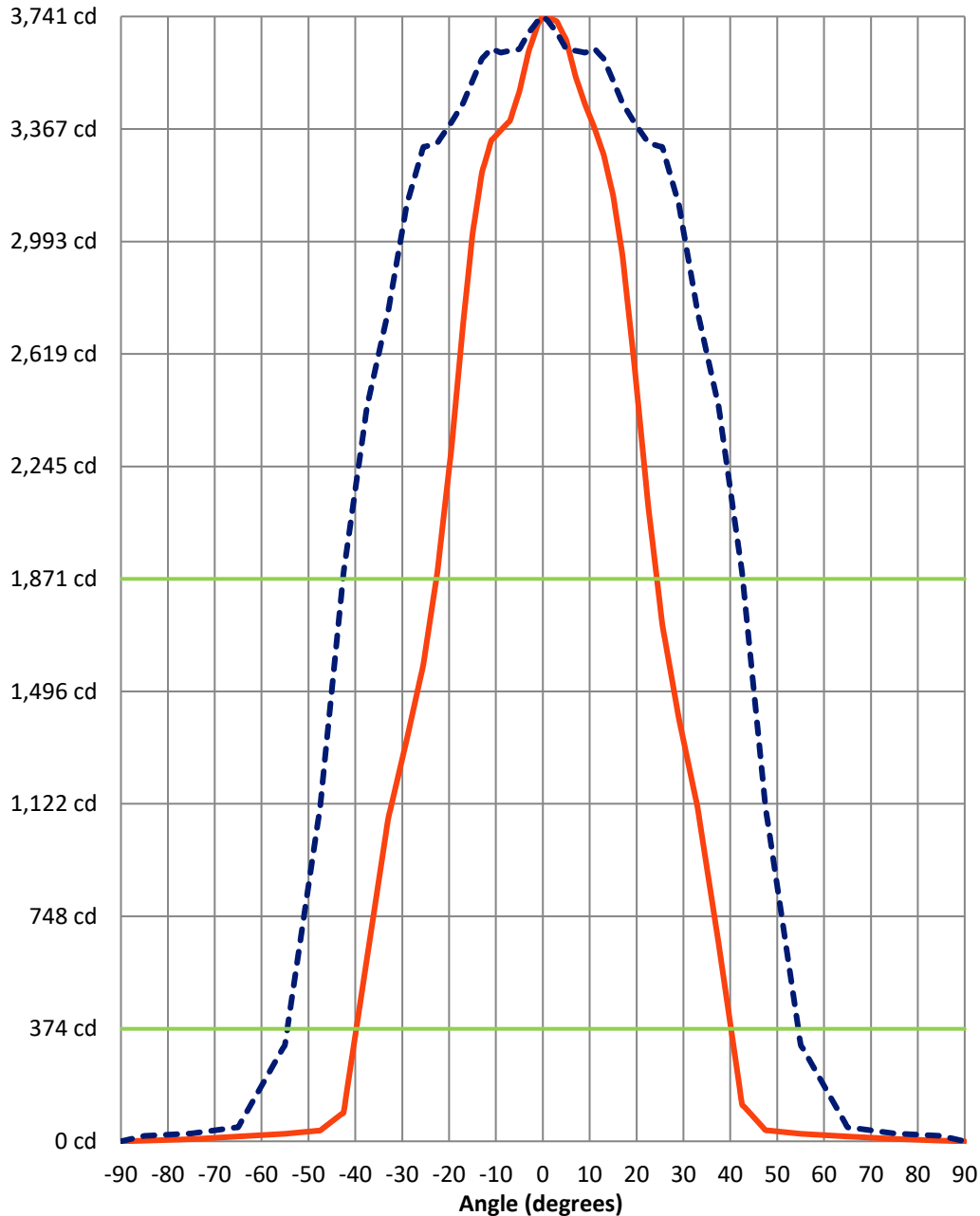
Luminous Intensity Polar Plot



REPORT NUMBER: P95379

CATALOG NUMBER: VFS-K-B40-3-LED-E1-MST

Luminous Intensity Plot



Beam:
 H Angle: 85.3°
 V Angle: 47.1°
 Lumens: 2797.5
 Efficiency: 66.5%

Field:
 H Angle: 109°
 V Angle: 79.9°
 Lumens: 4019.4
 Efficiency: 95.5%

Spill:
 Lumens: 190.1
 Efficiency: 4.5%

— Vertical Distribution through 0-Deg
 - - - Horizontal Distribution through 0-Deg



REPORT NUMBER: P95379

CATALOG NUMBER: VFS-K-B40-3-LED-E1-MST

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	10	16	19	20	20	20	20	21
75°	8	8	8	7	7	8	9	12	15	18	20
65°	16	16	16	15	15	15	14	14	13	15	17
55°	25	25	25	24	24	24	24	23	23	22	22
47.5°	37	37	37	37	36	36	36	36	35	35	35
42.5°	123	132	124	131	128	134	147	155	161	149	131
37.5°	658	674	664	674	664	657	664	653	655	655	643
33°	1111	1123	1117	1120	1110	1104	1107	1095	1081	1081	1070
29°	1408	1419	1414	1402	1387	1375	1371	1362	1343	1343	1340
25.5°	1718	1723	1725	1704	1684	1665	1668	1669	1652	1662	1667
22.5°	2111	2131	2125	2092	2079	2055	2069	2077	2065	2069	2084
19.5°	2587	2606	2594	2562	2535	2496	2509	2522	2508	2500	2518
17°	2945	2959	2948	2905	2859	2815	2806	2806	2789	2769	2779
15°	3145	3154	3133	3072	3030	2969	2956	2945	2922	2893	2892
13°	3280	3281	3254	3197	3144	3078	3060	3041	3009	2970	2956
11°	3371	3371	3346	3290	3237	3175	3151	3128	3088	3036	3009
9°	3449	3449	3428	3379	3336	3270	3249	3219	3173	3110	3067
7°	3541	3544	3525	3483	3457	3395	3375	3334	3274	3201	3145
5°	3662	3662	3636	3594	3577	3531	3518	3474	3403	3317	3250
3°	3724	3717	3680	3631	3622	3602	3607	3570	3497	3408	3339
1°	3741	3734	3691	3631	3630	3622	3638	3606	3536	3460	3408
0°	3741	3728	3687	3633	3627	3621	3634	3600	3527	3453	3389
-1°	3716	3705	3667	3619	3605	3598	3606	3565	3493	3411	3328
-3°	3626	3612	3582	3551	3516	3487	3485	3431	3362	3294	3210
-5°	3492	3480	3454	3422	3377	3336	3316	3260	3205	3147	3072
-7°	3395	3386	3353	3313	3264	3215	3181	3139	3094	3039	2978
-9°	3362	3355	3317	3269	3212	3150	3121	3088	3050	3000	2955
-11°	3328	3318	3280	3225	3165	3107	3077	3049	3017	2977	2945
-13°	3221	3203	3173	3115	3058	3012	2984	2962	2943	2916	2899
-15°	3017	3011	2993	2934	2886	2850	2827	2813	2812	2793	2790
-17°	2719	2691	2689	2650	2606	2597	2584	2574	2575	2575	2579
-19.5°	2304	2297	2276	2244	2223	2216	2210	2212	2223	2224	2233
-22.5°	1893	1888	1881	1844	1835	1822	1812	1814	1822	1822	1833
-25.5°	1585	1581	1571	1541	1524	1505	1488	1489	1491	1491	1496
-29°	1338	1336	1335	1322	1308	1299	1288	1284	1275	1269	1262
-33°	1072	1070	1074	1066	1062	1058	1045	1050	1039	1030	1022
-37.5°	610	609	620	619	611	602	607	605	601	597	593
-42.5°	96	95	95	104	104	117	128	129	123	109	110
-47.5°	36	36	36	36	35	35	34	34	34	33	33
-55°	25	25	25	24	24	24	23	23	23	22	22
-65°	16	16	16	15	15	14	14	13	13	14	17
-75°	7	7	7	7	7	7	8	11	15	18	20
-85°	2	3	5	10	17	20	21	20	21	21	21
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P95379

CATALOG NUMBER: VFS-K-B40-3-LED-E1-MST

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°	21	21	21	21	21	21	21	21	22	22	22
75°	22	23	23	23	23	23	23	22	22	22	22
65°	20	23	25	26	27	28	26	25	23	23	22
55°	23	25	27	31	32	33	32	29	25	24	22
47.5°	34	35	36	39	41	42	41	34	27	25	22
42.5°	155	141	155	151	144	135	103	38	28	25	22
37.5°	627	616	602	584	421	462	208	42	29	25	22
33°	1048	1023	995	963	912	784	379	62	30	25	22
29°	1324	1293	1248	1204	1124	959	639	106	31	25	21
25.5°	1656	1608	1515	1427	1298	1065	726	139	32	25	21
22.5°	2078	2007	1856	1687	1482	1150	785	164	33	25	20
19.5°	2516	2426	2229	1984	1686	1235	832	185	34	25	20
17°	2789	2711	2504	2208	1832	1318	870	200	34	25	20
15°	2916	2850	2634	2321	1925	1386	903	211	34	25	19
13°	2989	2940	2712	2393	2005	1461	938	220	35	25	19
11°	3041	3014	2782	2450	2087	1542	981	228	36	25	19
9°	3090	3078	2858	2518	2187	1644	1024	234	38	25	19
7°	3150	3142	2936	2587	2275	1740	1063	239	40	25	18
5°	3237	3223	3025	2667	2351	1812	1091	243	44	26	18
3°	3300	3284	3092	2735	2416	1869	1106	245	46	26	18
1°	3326	3311	3122	2767	2448	1895	1114	247	47	26	18
0°	3321	3306	3117	2760	2444	1892	1113	322	47	26	18
-1°	3296	3282	3093	2735	2424	1873	1106	247	46	26	18
-3°	3203	3192	3002	2649	2352	1808	1083	245	43	25	18
-5°	3080	3078	2885	2542	2250	1709	1046	243	40	25	18
-7°	2997	2997	2794	2458	2139	1606	1001	239	38	25	18
-9°	2979	2968	2748	2419	2068	1536	965	234	36	24	18
-11°	2975	2949	2717	2390	2016	1481	938	227	35	24	18
-13°	2927	2878	2644	2321	1948	1420	912	220	34	24	19
-15°	2811	2738	2507	2203	1860	1354	886	210	33	23	19
-17°	2588	2504	2281	2013	1729	1285	857	199	33	24	19
-19.5°	2238	2161	1977	1764	1545	1204	817	184	32	24	19
-22.5°	1833	1765	1625	1483	1349	1113	765	163	32	24	19
-25.5°	1490	1443	1363	1281	1182	1019	490	138	31	24	20
-29°	1248	1220	1180	1131	1061	926	446	105	31	25	21
-33°	1010	981	951	917	865	757	357	61	30	25	21
-37.5°	583	571	553	249	499	417	193	42	29	25	22
-42.5°	133	109	129	121	123	114	86	37	28	25	22
-47.5°	33	33	34	37	39	40	39	34	27	25	22
-55°	23	24	27	31	32	33	32	29	25	24	22
-65°	20	23	25	26	27	28	27	25	23	23	22
-75°	22	23	23	23	23	23	23	23	22	22	22
-85°	22	22	22	22	22	22	22	22	22	22	22
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P95379

CATALOG NUMBER: VFS-K-B40-3-LED-E1-MST

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)