

Scaled data based on original data using
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 763837

Luminaire Tested: **OVX25SXX2DF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 763837
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVX25SXX2DF
Description: 250 WATT HPS TYPE II ROADWAY
Light Source: 250W HPS CL E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 27500 (1 lamp)
Luminaire Lumens: 20504.3 lumens
Efficiency: 74.6%
Efficacy: 82.0 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G2

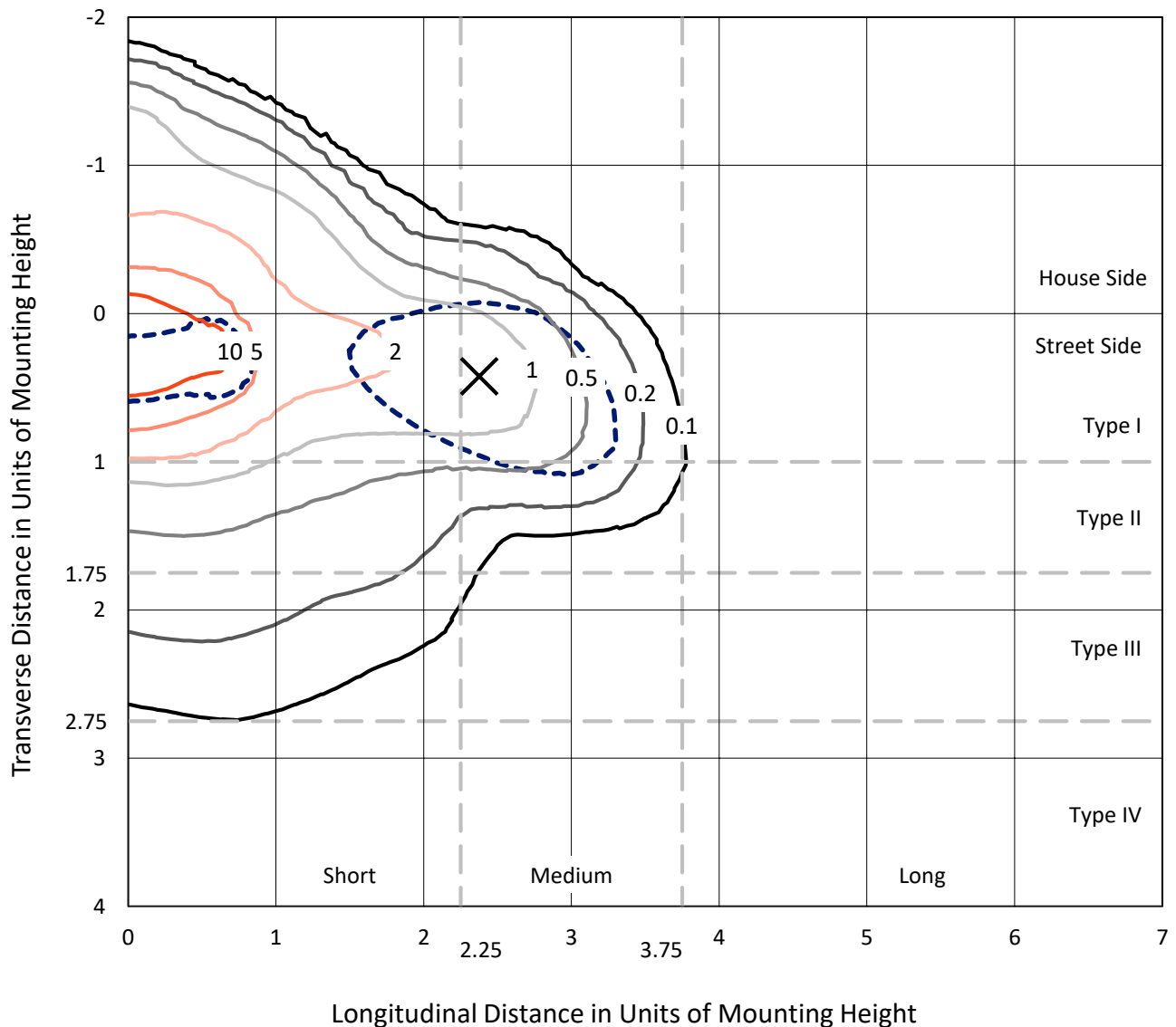
Input Watts (W): 250
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: 763837
 CATALOG NUMBER: OVX25SXX2DF

Iso-Footcandle Lines of Horizontal Illumination

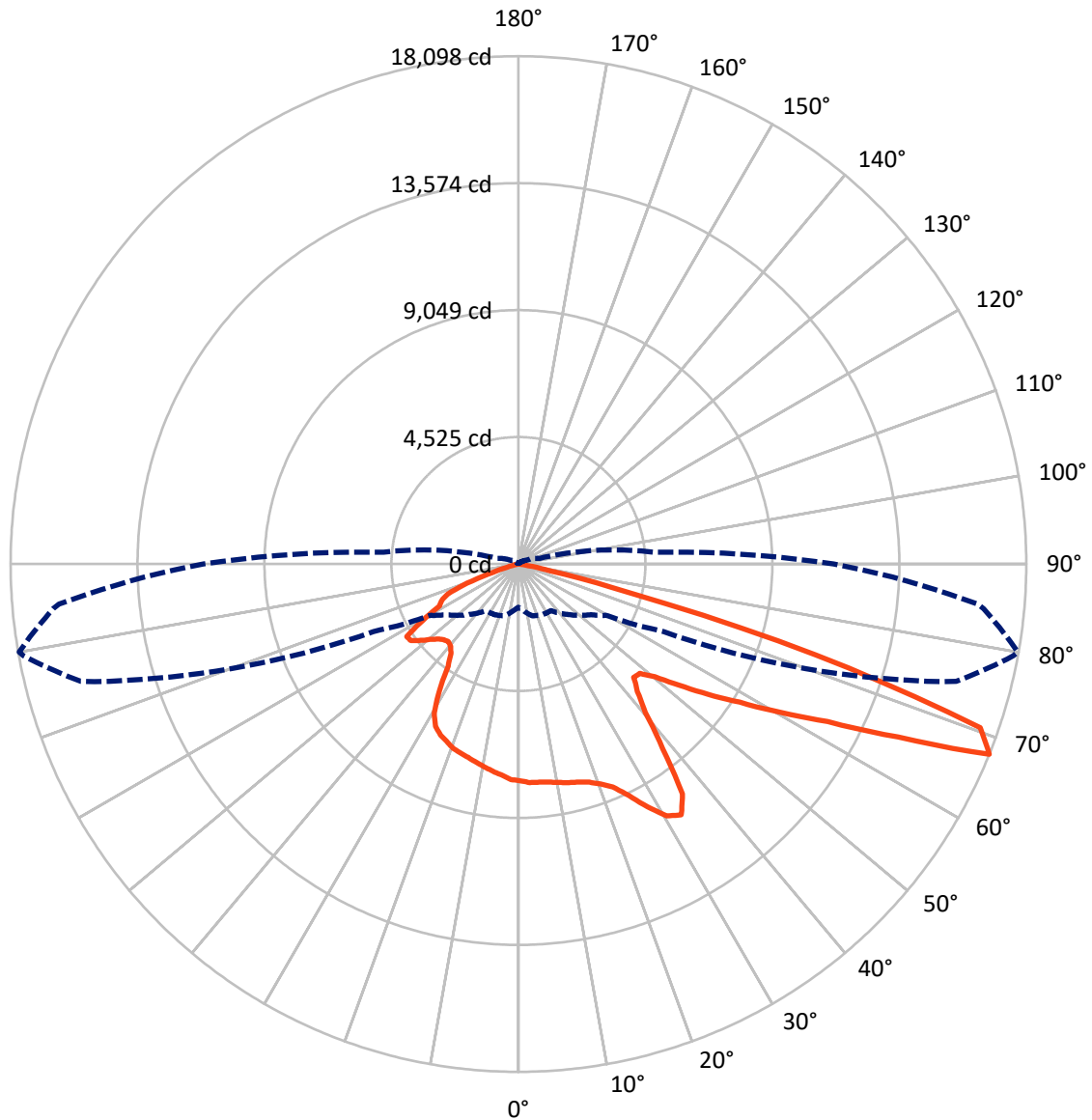
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: 763837
CATALOG NUMBER: OVX25SXX2DF

Luminous Intensity Polar Plot



— Vertical Plane Through 79.9-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: 763837
 CATALOG NUMBER: OVX25SXX2DF

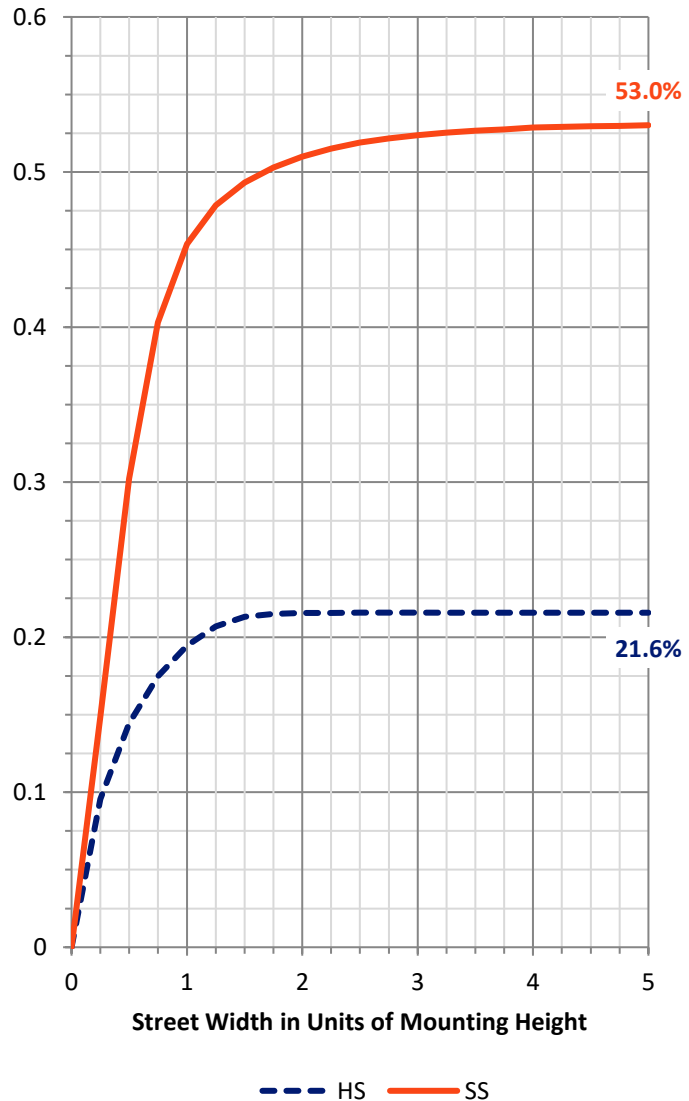
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5975.8	0.0	5975.8
	% Lamp	21.7	0.0	21.7
Street Side	Lumens	14528.5	0.0	14528.5
	% Lamp	52.8	0.0	52.8
Total	Lumens	20504.3	0.0	20504.3
	% Lamp	74.6	0.0	74.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	727.4	3.5	2.6
10°-20°	2058.3	10.0	7.5
20°-30°	3238.1	15.8	11.8
30°-40°	3865.8	18.9	14.1
40°-50°	3252.6	15.9	11.8
50°-60°	3028.2	14.8	11.0
60°-70°	3032.1	14.8	11.0
70°-80°	1264.5	6.2	4.6
80°-90°	37.2	0.2	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	20504.3	100.0	74.6
0°-180°	20504.3	100.0	74.6

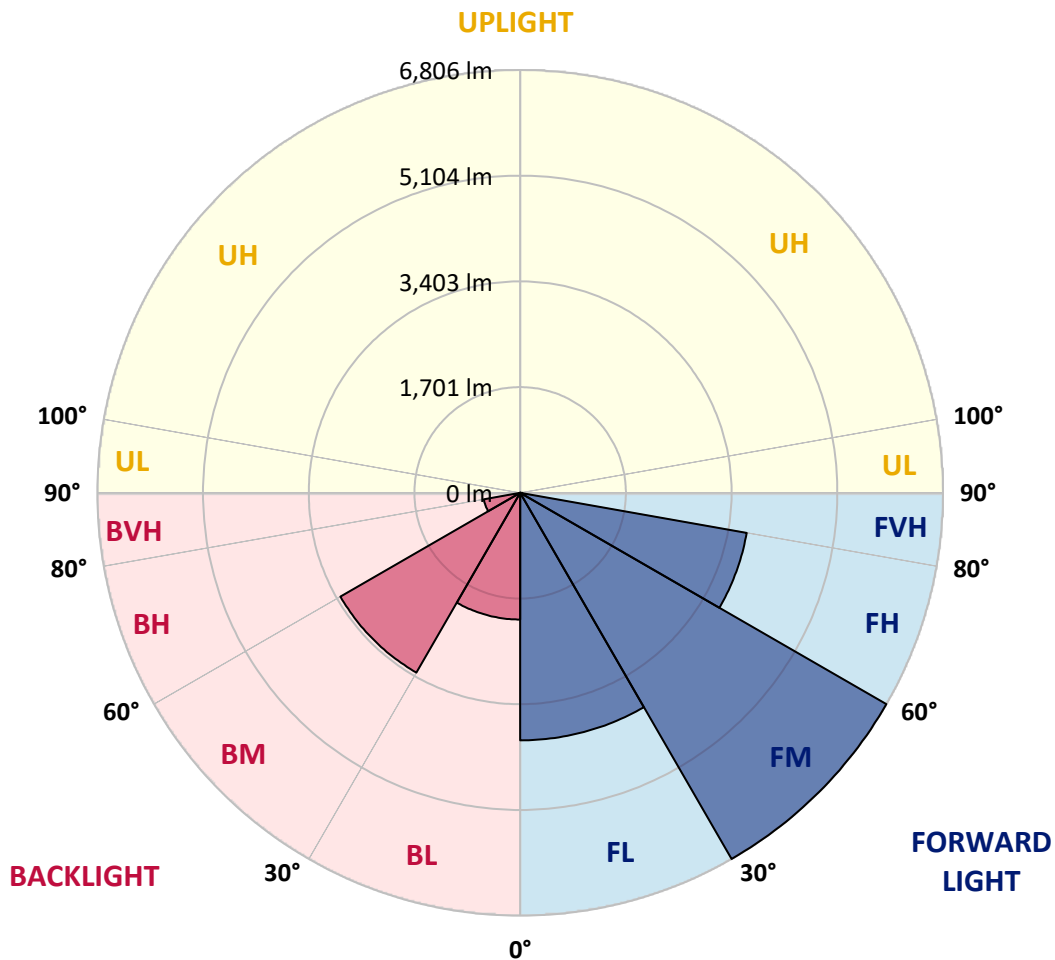


REPORT NUMBER: 763837
 CATALOG NUMBER: OVX25SXX2DF

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3983.9	14.5			
FM	(30°-60°)	6806.0	24.7			
FH	(60°-80°)	3702.7	13.5			G2/5000
FVH	(80°-90°)	35.9	0.1			G1/100
BL	(0°-30°)	2039.9	7.4	B3/2500		
BM	(30°-60°)	3340.7	12.1	B3/5000		
BH	(60°-80°)	593.9	2.2	B2/1000		G2/1000
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		6995.7	25.4			

BUG Rating: B3-U0-G2
 Type II Medium





REPORT NUMBER: 763837
 CATALOG NUMBER: OVX25SXX2DF

CANDELA DISTRIBUTION (FULL):

	0°	4.9°	14.9°	24.9°	34.9°	44.9°	54.9°	59.9°	64.9°	69.9°	74.9°
0°	7723	7723	7723	7723	7723	7723	7723	7723	7723	7723	7723
2.5°	7958	7981	7986	7972	7933	7900	7887	7882	7880	7870	7826
5°	8332	8349	8342	8300	8228	8148	8083	8039	8000	7960	7875
7.5°	8651	8665	8654	8594	8503	8395	8289	8222	8155	8076	7958
10°	8961	8973	8963	8903	8790	8631	8485	8402	8312	8203	8053
12.5°	9317	9317	9317	9243	9086	8899	8732	8624	8501	8365	8173
15°	9700	9712	9730	9622	9439	9220	8998	8855	8693	8506	8275
17.5°	10038	10066	10066	9943	9784	9546	9266	9081	8882	8670	8413
20°	10315	10354	10327	10209	10072	9855	9546	9365	9155	8924	8635
22.5°	10491	10535	10505	10475	10340	10116	9878	9719	9532	9268	8947
25°	10315	10345	10331	10458	10387	10264	10209	10123	10019	9818	9506
27.5°	9733	9809	9791	10093	10160	10338	10530	10599	10657	10611	10301
30°	9026	9100	9100	9419	9721	10299	10874	11156	11413	11533	11195
32.5°	8291	8342	8395	8642	9130	10056	11276	11805	12268	12466	11919
35°	7556	7565	7646	7824	8420	9617	11593	12385	12938	12931	11882
37.5°	6720	6646	6835	6971	7533	9051	11514	12346	12734	12254	10615
40°	5694	5631	5828	6084	6567	8194	10454	11122	11133	10206	8580
42.5°	4312	4344	4695	5167	5650	6888	8617	8986	8855	8326	7339
45°	3013	3002	3559	4219	4718	5453	6618	7045	7200	7004	6456
47.5°	2278	2299	2724	3309	3840	4379	5275	5791	6119	6264	6193
50°	2020	2033	2322	2747	3233	3787	4494	5028	5624	6147	6435
52.5°	1853	1883	2121	2429	2819	3346	4044	4663	5506	6391	7048
55°	1752	1798	2013	2239	2526	3011	3766	4490	5604	6874	7884
57.5°	1701	1765	1964	2137	2341	2787	3593	4409	5800	7424	8718
60°	1696	1782	1978	2077	2228	2671	3468	4342	5959	8002	9788
62.5°	1701	1802	2006	2070	2156	2625	3399	4254	6103	8906	11341
65°	1664	1765	1994	2066	2103	2595	3304	4099	6216	9839	13319
67.5°	1539	1638	1909	1992	2024	2544	3140	3646	5601	10789	16108
70°	1340	1430	1754	1832	1902	2419	2405	2382	4598	11323	16871
72.5°	1086	1185	1560	1620	1717	1874	1222	1518	3616	9021	12247
75°	689	843	1310	1347	1241	739	751	996	2114	4478	5056
77.5°	328	508	850	763	411	324	434	520	855	1407	1488
80°	208	247	388	215	146	153	217	247	317	416	430
82.5°	134	129	155	76	53	62	97	109	125	143	143
85°	51	44	35	25	12	16	30	35	42	46	42
87.5°	14	7	7	5	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: 763837

CATALOG NUMBER: OVX25SXX2DF

CANDELA DISTRIBUTION (continued):

	0°	4.9°	14.9°	24.9°	34.9°	44.9°	54.9°	59.9°	64.9°	69.9°	74.9°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	79.9°	84.9°	89.9°	94.9°	104.9°	114.9°	124.9°	134.9°	144.9°	154.9°	164.9°
0°	7723	7723	7723	7723	7723	7723	7723	7723	7723	7723	7723
2.5°	7799	7766	7741	7709	7660	7614	7556	7535	7498	7484	7466
5°	7808	7739	7674	7609	7484	7371	7249	7163	7080	7008	6978
7.5°	7847	7748	7642	7540	7348	7133	6941	6789	6653	6558	6500
10°	7917	7776	7614	7482	7189	6907	6653	6433	6197	6015	5885
12.5°	7995	7815	7614	7431	7032	6650	6297	5959	5617	5266	5037
15°	8062	7838	7602	7378	6886	6396	5872	5384	4873	4439	4145
17.5°	8175	7919	7639	7364	6738	6103	5449	4779	4164	3688	3418
20°	8365	8069	7727	7376	6588	5772	4973	4206	3589	3177	2958
22.5°	8628	8263	7815	7337	6341	5396	4485	3720	3207	2879	2694
25°	9134	8631	8004	7341	6103	5017	4028	3348	2958	2699	2526
27.5°	9802	9058	8138	7242	5800	4584	3639	3089	2808	2590	2399
30°	10417	9282	8025	6955	5296	3993	3297	2946	2701	2512	2311
32.5°	10659	9090	7568	6276	4413	3448	3083	2851	2637	2454	2269
35°	10063	8023	6299	5111	3778	3219	2988	2787	2595	2424	2274
37.5°	8356	6454	5243	4478	3542	3143	2960	2743	2551	2405	2313
40°	6965	5696	4843	4222	3406	3147	2985	2717	2500	2392	2368
42.5°	6214	5275	4591	4076	3399	3244	3039	2699	2442	2371	2440
45°	5763	5111	4561	4088	3501	3422	3085	2667	2394	2327	2514
47.5°	5825	5282	4714	4199	3658	3609	3115	2637	2329	2251	2549
50°	6308	5763	5058	4425	3877	3723	3119	2567	2237	2133	2472
52.5°	7159	6551	5622	4786	4085	3711	3036	2436	2075	1923	2223
55°	8196	7563	6382	5255	4199	3535	2780	2149	1768	1534	1675
57.5°	9291	8732	7325	5719	3847	2697	1890	1430	1146	952	1007
60°	10719	10211	8106	5446	2542	1359	788	541	455	395	446
62.5°	12367	11660	8783	4950	1562	760	411	236	171	173	217
65°	14867	14204	10373	5079	1137	508	261	139	90	85	99
67.5°	18098	16536	11357	4862	795	333	157	69	37	28	37
70°	17458	14645	9194	3508	513	199	76	23	7	2	2
72.5°	11068	7986	4409	1627	303	104	25	5	0	0	0
75°	4004	2641	1474	629	164	37	2	0	0	0	0
77.5°	1137	783	469	254	65	5	0	0	0	0	0
80°	354	259	171	102	9	0	0	0	0	0	0
82.5°	122	90	51	14	0	0	0	0	0	0	0
85°	25	9	2	0	0	0	0	0	0	0	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	0
92.5°	0	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	79.9°	84.9°	89.9°	94.9°	104.9°	114.9°	124.9°	134.9°	144.9°	154.9°	164.9°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: 763837

CATALOG NUMBER: OVX25SXX2DF

CANDELA DISTRIBUTION (continued):

	174.9°	180°
0°	7723	7723
2.5°	7431	7445
5°	6932	6941
7.5°	6452	6461
10°	5816	5837
12.5°	4883	4903
15°	3993	4002
17.5°	3300	3300
20°	2888	2888
22.5°	2630	2634
25°	2445	2454
27.5°	2297	2306
30°	2186	2191
32.5°	2126	2130
35°	2135	2140
37.5°	2202	2214
40°	2366	2399
42.5°	2660	2722
45°	3085	3212
47.5°	3496	3725
50°	3686	3974
52.5°	3415	3702
55°	2692	2967
57.5°	1641	1835
60°	707	813
62.5°	321	379
65°	146	176
67.5°	55	69
70°	9	14
72.5°	0	0
75°	0	0
77.5°	0	0
80°	0	0
82.5°	0	0
85°	0	0
87.5°	0	0
90°	0	0
92.5°	0	0
95°	0	0
97.5°	0	0
100°	0	0
102.5°	0	0
105°	0	0
107.5°	0	0
110°	0	0



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CANDELA DISTRIBUTION (continued):

	174.9°	180°
112.5°	0	0
115°	0	0
117.5°	0	0
120°	0	0
122.5°	0	0
180°	0	0

(END OF REPORT)