

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: 767415

Luminaire Tested: **OVX25SXX3EG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 767415
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVX25SXX3EG
Description: 250 HPS TYPE III ROADWAY
Light Source: 250W HPS CL E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 27500 (1 lamp)
Luminaire Lumens: 19153 lumens
Efficiency: 69.6%
Efficacy: 76.6 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B3 - U3 - G4

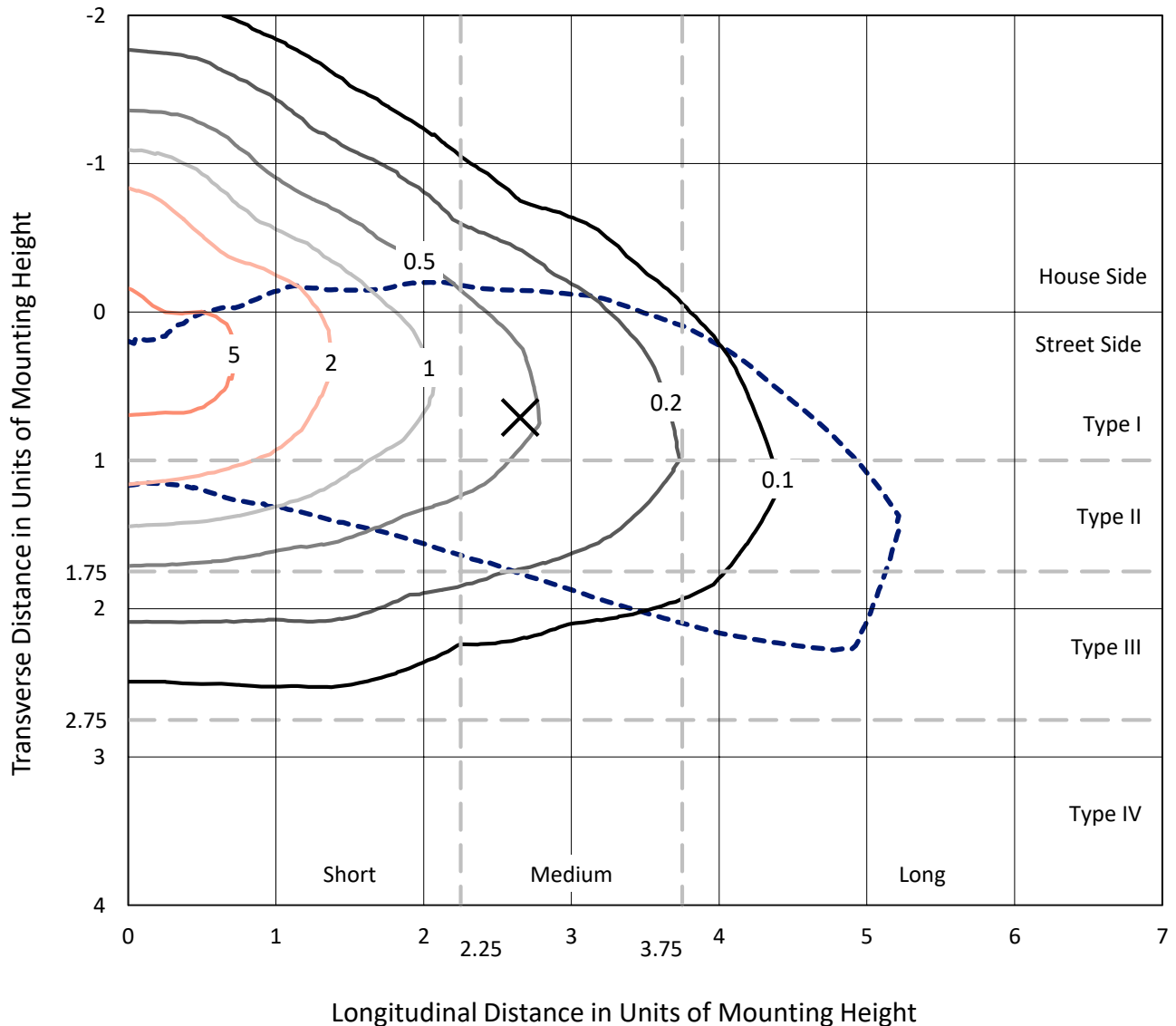
Input Watts (W): 250
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

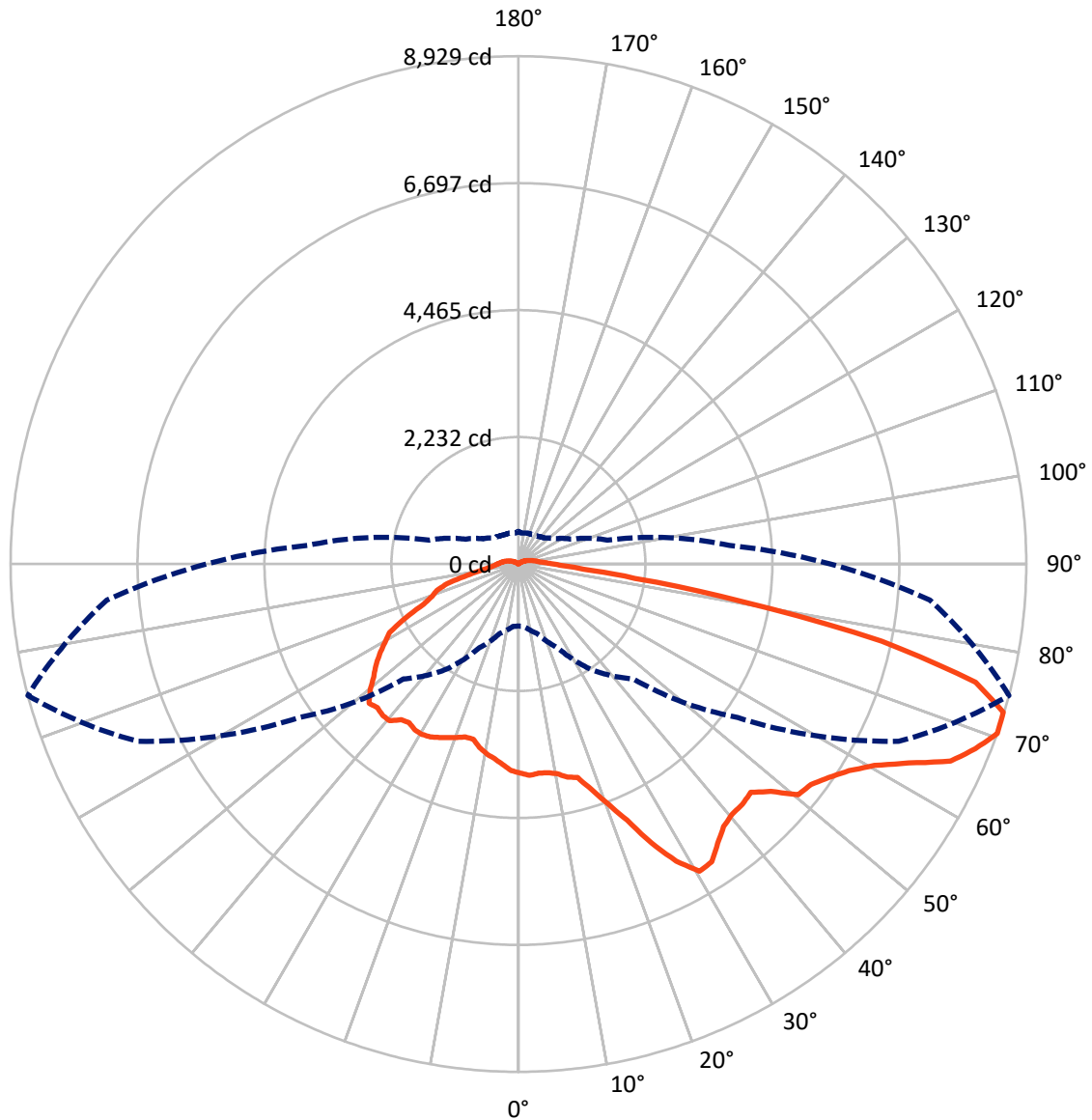


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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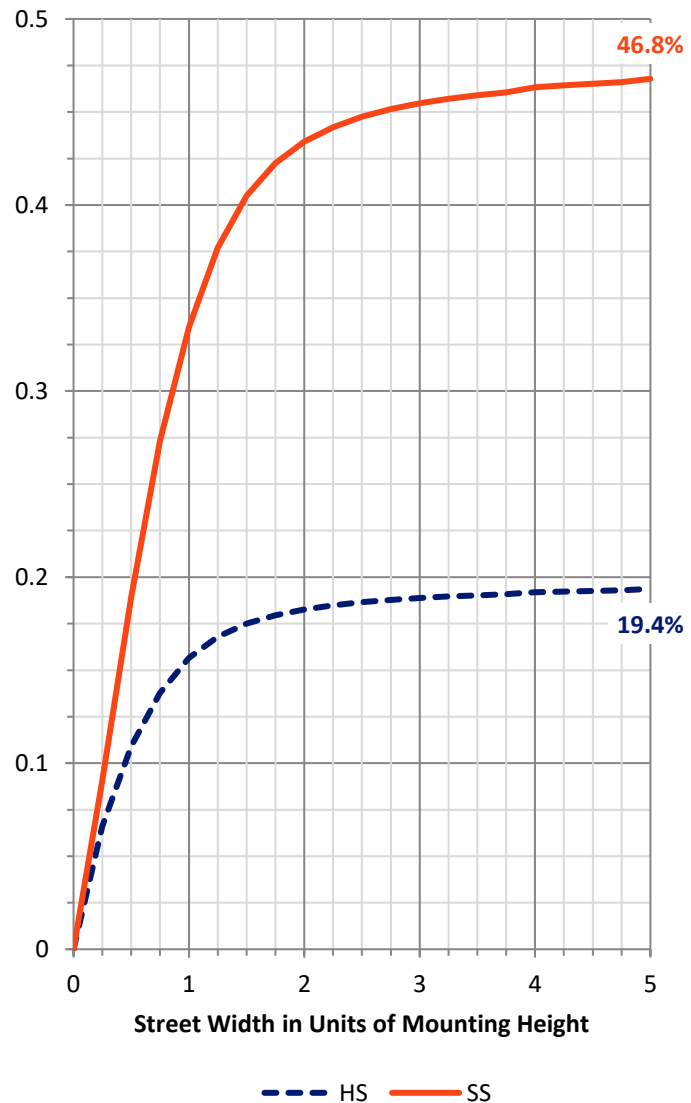
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5451.4	228.8	5680.2
	% Lamp	19.8	0.8	20.7
Street Side	Lumens	13047.3	425.5	13472.8
	% Lamp	47.4	1.5	49.0
Total	Lumens	18498.7	654.3	19153.0
	% Lamp	67.3	2.4	69.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	346.8	1.8	1.3
10°-20°	1058.3	5.5	3.8
20°-30°	1973.7	10.3	7.2
30°-40°	2840.4	14.8	10.3
40°-50°	3220.1	16.8	11.7
50°-60°	3267.6	17.1	11.9
60°-70°	2942.2	15.4	10.7
70°-80°	2118.2	11.1	7.7
80°-90°	731.4	3.8	2.7
90°-100°	333.0	1.7	1.2
100°-110°	192.6	1.0	0.7
110°-120°	97.3	0.5	0.4
120°-130°	38.3	0.2	0.1
130°-140°	7.8	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°	18498.7	96.6	67.3
0°-180°	19153.0	100.0	69.6



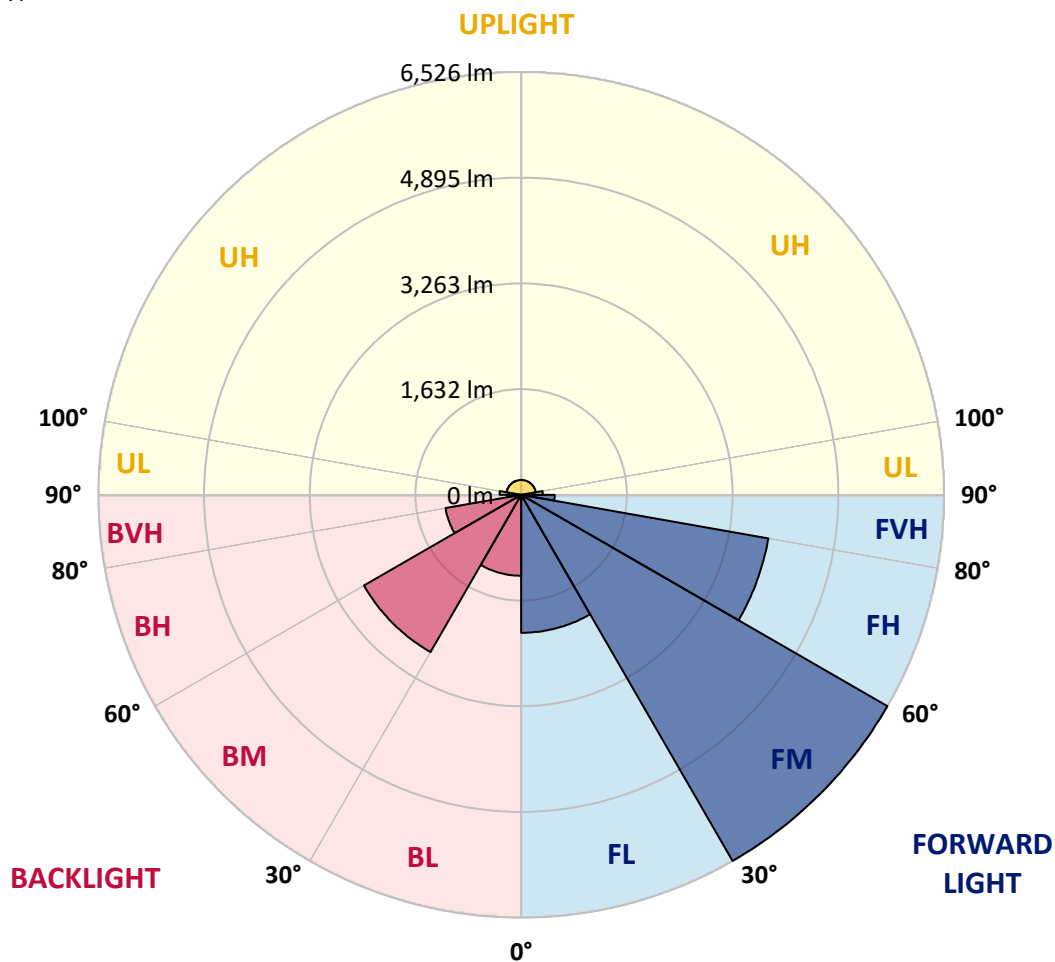
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2129.5	7.7			
FM (30°-60°)	6526.1	23.7			
FH (60°-80°)	3874.2	14.1			G2/5000
FVH (80°-90°)	517.5	1.9			G4/750
BL (0°-30°)	1249.3	4.5	B3/2500		
BM (30°-60°)	2801.9	10.2	B3/5000		
BH (60°-80°)	1186.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	213.9	0.8			G2/225
UL (90°-100°)	333.0	1.2		U3/500	
UH (100°-180°)	228.8	0.8		U3/500	
Trapped Light	8347.0	30.4			

BUG Rating: B3-U3-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3674	3674	3674	3674	3674	3674	3674	3674	3674	3674	3674
2.5°	3876	3846	3715	3836	3826	3674	3770	3750	3720	3685	3533
5°	4018	3992	3851	3967	3907	3725	3801	3745	3695	3644	3493
7.5°	4189	4159	4028	4109	4038	3836	3871	3786	3705	3619	3422
10°	4361	4351	4230	4300	4204	3982	3972	3886	3750	3624	3422
12.5°	4543	4538	4432	4502	4432	4174	4144	4008	3846	3654	3442
15°	4704	4719	4664	4795	4699	4406	4346	4119	3892	3659	3402
17.5°	4936	4941	4916	5118	4992	4709	4573	4411	4169	3831	3538
20°	5138	5184	5330	5401	5300	4997	5012	4851	4507	4033	3690
22.5°	5340	5411	5592	5653	5542	5497	5456	5320	4891	4290	3886
25°	5512	5618	5815	5880	5820	5885	5921	5840	5431	4644	4174
27.5°	5744	5830	5951	6032	6122	6269	6466	6481	5915	5057	4502
30°	5895	5936	5971	6148	6430	6678	7011	6905	6269	5274	4654
32.5°	5835	5860	5870	6203	6748	7041	7298	7097	6244	5189	4618
35°	5613	5633	5653	6193	6885	7187	7344	6910	6032	5113	4613
37.5°	5391	5375	5391	6077	6819	7011	7117	6526	5860	5073	4669
40°	5229	5174	5214	5885	6632	6799	6880	6355	5784	5209	4830
42.5°	5118	5062	5128	5638	6218	6501	6738	6269	5774	5300	4997
45°	4977	4931	5022	5340	5845	6228	6577	6092	5729	5557	5254
47.5°	4755	4694	4825	5078	5567	6218	6415	6021	5971	6021	5683
50°	4361	4310	4482	4845	5345	6198	6269	6122	6375	6218	5653
52.5°	3907	3856	4053	4563	5168	6032	6521	6395	6440	6032	5370
55°	3422	3377	3619	4209	4957	5820	6476	6551	6622	5976	5305
57.5°	2938	2902	3155	3700	4507	5643	6420	6829	6854	6042	5290
60°	2342	2332	2564	3094	3826	5148	6173	6930	7187	6198	5380
62.5°	1807	1807	2039	2509	3220	4633	5774	7182	7697	6673	5714
65°	1464	1479	1666	2069	2852	4129	5441	7576	8353	7056	5885
67.5°	1252	1262	1438	1802	2615	3488	5123	7712	8666	7238	5618
70°	1090	1100	1262	1620	2276	2857	4704	7379	8929	7263	5481
72.5°	949	969	1105	1464	1807	2291	4068	6915	8914	7117	5123
75°	838	853	959	1232	1383	1807	3301	6350	8303	5885	3937
77.5°	737	747	838	944	1070	1408	2584	5461	6531	3770	2453
80°	656	661	752	772	883	1110	1979	4209	3972	2155	1474
82.5°	585	591	686	661	752	903	1433	2630	2064	1216	939
85°	525	535	606	585	651	732	999	1413	1141	813	697
87.5°	474	485	525	515	570	580	697	818	757	601	550
90°	424	429	449	449	495	454	530	570	570	474	419
95°	333	338	353	363	374	318	368	384	379	348	298
105°	242	237	192	252	252	187	237	227	222	212	156
115°	162	167	111	167	162	81	136	131	126	126	61
125°	101	96	101	91	81	35	56	50	50	56	45
135°	0	5	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3674	3674	3674	3674	3674	3674	3674	3674	3674	3674
2.5°	3654	3634	3624	3599	3589	3584	3574	3568	3442	3574
5°	3589	3533	3503	3462	3437	3432	3442	3462	3336	3462
7.5°	3533	3447	3377	3316	3286	3281	3301	3306	3190	3321
10°	3508	3382	3271	3175	3129	3119	3139	3170	3059	3180
12.5°	3468	3296	3160	3044	2993	2983	2988	3023	2927	3059
15°	3397	3180	3023	2938	2887	2862	2882	2917	2852	2978
17.5°	3488	3180	2958	2827	2786	2761	2781	2832	2781	2907
20°	3594	3235	2958	2766	2690	2665	2690	2756	2721	2847
22.5°	3735	3291	2978	2731	2604	2569	2594	2670	2650	2776
25°	3907	3351	2968	2700	2534	2468	2478	2554	2569	2675
27.5°	4098	3412	2963	2660	2478	2408	2413	2509	2544	2645
30°	4204	3442	2887	2579	2418	2367	2392	2509	2599	2685
32.5°	4189	3437	2816	2498	2382	2357	2413	2569	2690	2786
35°	4199	3387	2726	2403	2347	2352	2448	2635	2776	2867
37.5°	4315	3427	2635	2302	2276	2302	2428	2620	2796	2887
40°	4502	3568	2640	2216	2180	2201	2332	2498	2700	2786
42.5°	4603	3574	2665	2145	2054	2064	2201	2347	2498	2574
45°	4785	3538	2534	2049	1903	1923	2049	2155	2246	2291
47.5°	5118	3589	2428	1928	1746	1772	1893	1953	1984	2009
50°	4982	3427	2408	1802	1585	1635	1736	1777	1787	1777
52.5°	4684	3230	2317	1701	1454	1484	1595	1615	1580	1575
55°	4593	3079	2170	1539	1317	1317	1403	1444	1388	1393
57.5°	4492	2907	2029	1388	1166	1166	1196	1272	1216	1211
60°	4437	2726	1888	1262	1035	1025	1004	1085	1055	1070
62.5°	4618	2564	1706	1146	924	883	863	919	919	929
65°	4507	2191	1479	1030	823	772	742	767	772	797
67.5°	3987	1807	1221	898	722	671	646	651	651	666
70°	3725	1620	1030	772	646	596	570	565	545	575
72.5°	3341	1509	924	671	565	535	510	490	469	485
75°	2514	1302	838	601	510	479	464	434	399	424
77.5°	1676	979	717	545	459	434	414	384	353	374
80°	1055	717	580	479	404	394	384	353	313	333
82.5°	742	560	485	414	374	363	343	318	308	303
85°	585	474	419	374	338	328	313	288	273	273
87.5°	485	414	379	338	308	298	278	257	242	242
90°	414	374	348	318	283	268	247	222	212	202
95°	323	313	293	257	227	212	187	167	151	151
105°	207	207	187	162	121	91	61	35	10	0
115°	121	111	96	71	45	15	0	0	0	0
125°	45	35	20	5	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)