

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: 763842

Luminaire Tested: **OVX10SXX2DF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: 763842  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: OVX10SXX2DF  
Description: 100 WATT HPS TYPE II ROADWAY  
Light Source: 100W HPS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 9500 (1 lamp)  
Luminaire Lumens: 7044.3 lumens  
Efficiency: 74.2%  
Efficacy: 70.4 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G1

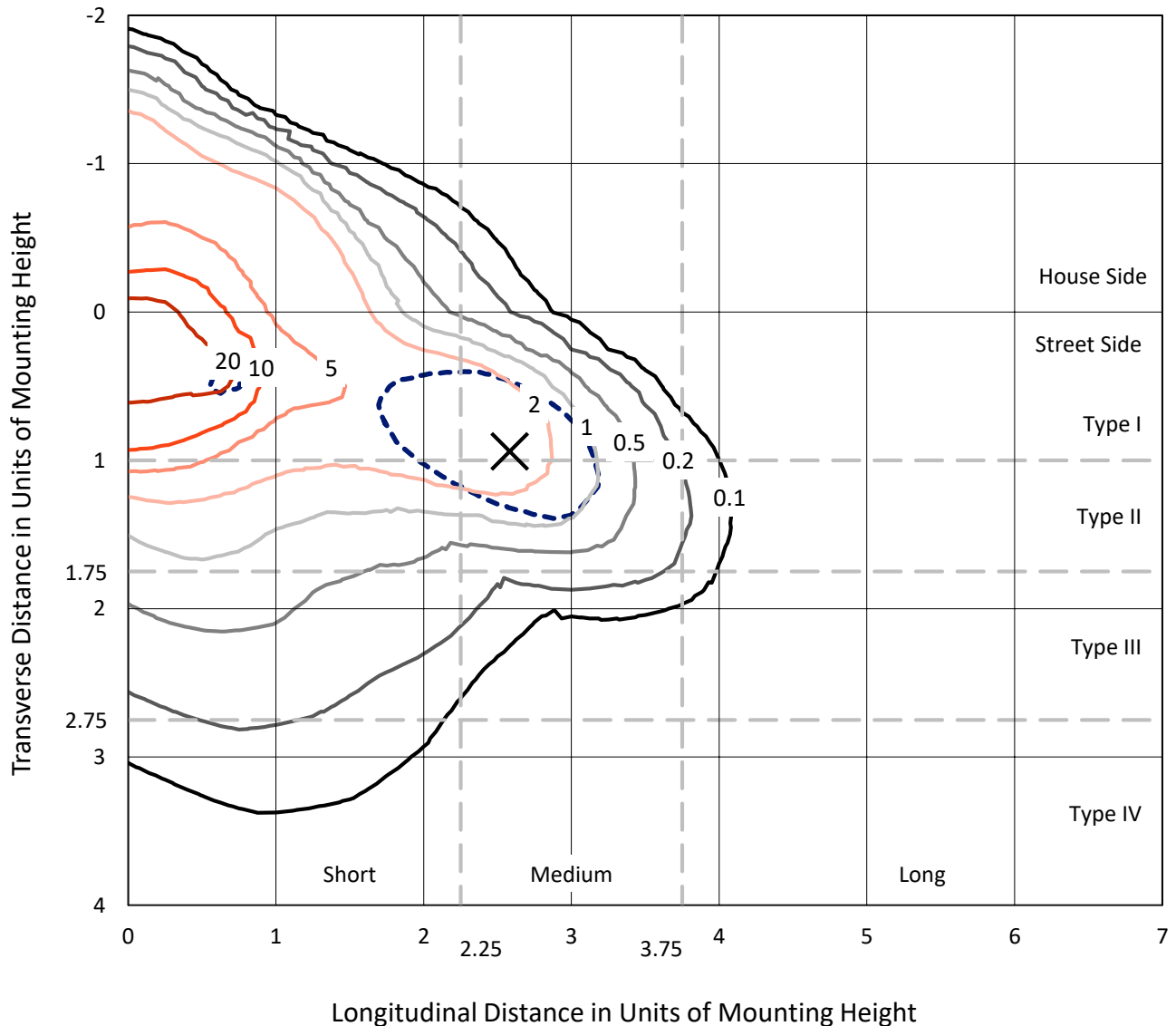
Input Watts (W): 100  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

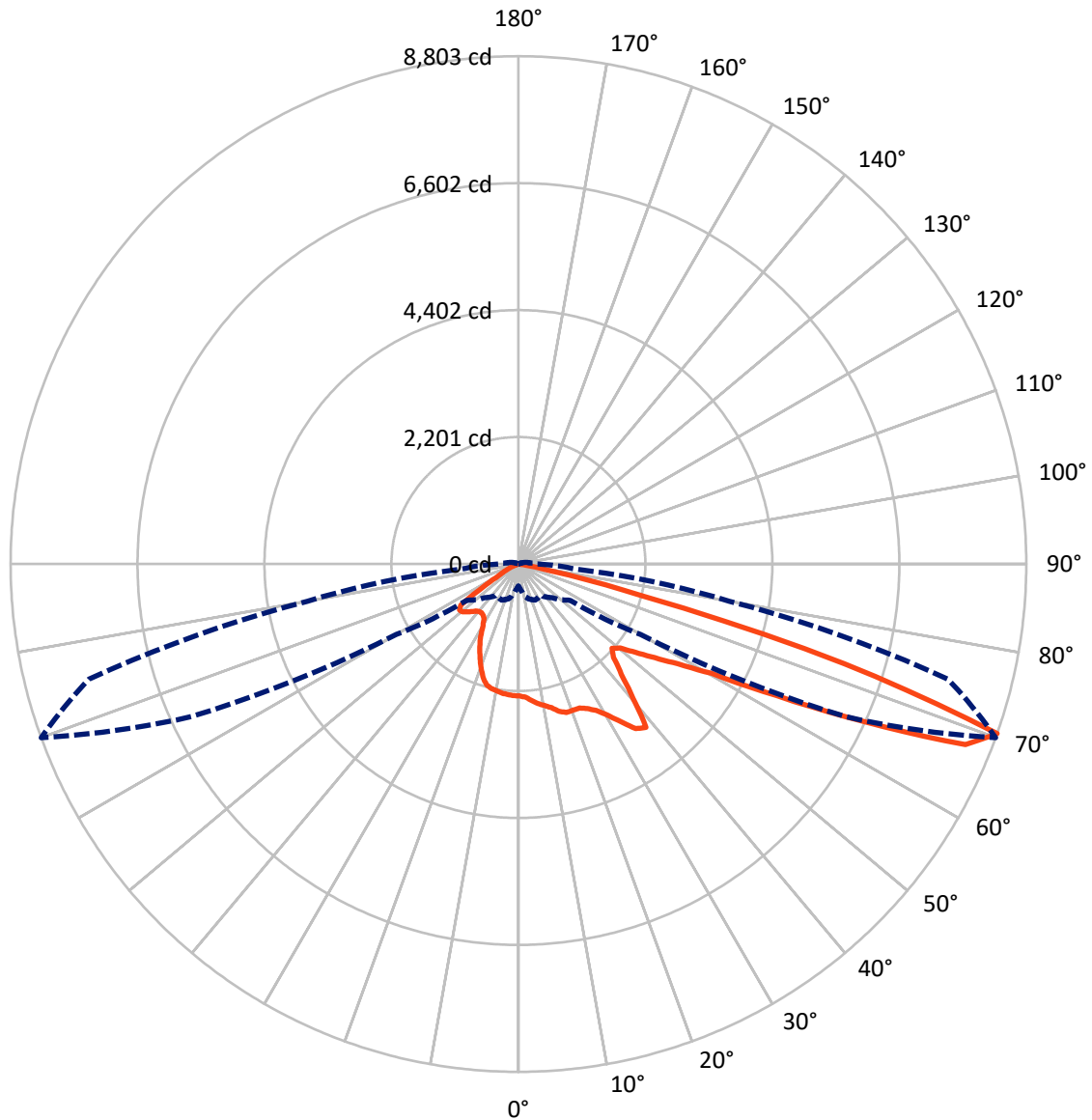
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.9 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



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

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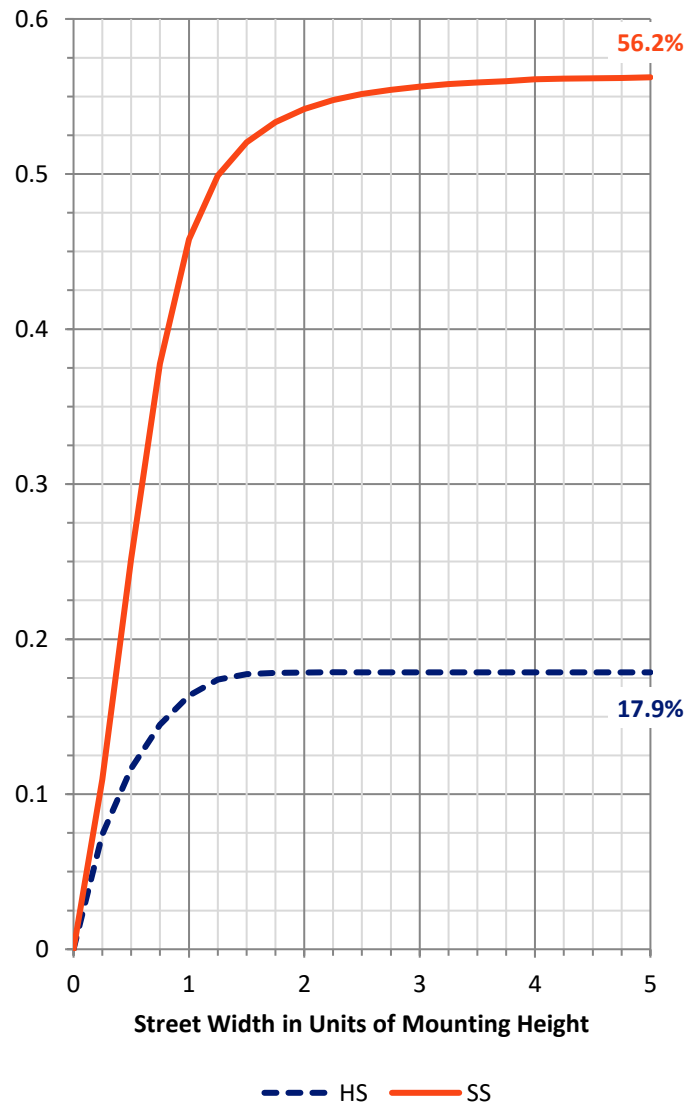
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1708.4	0.0	1708.4
	% Lamp	18.0	0.0	18.0
<b>Street Side</b>	Lumens	5335.9	0.0	5335.9
	% Lamp	56.2	0.0	56.2
<b>Total</b>	Lumens	7044.3	0.0	7044.3
	% Lamp	74.2	0.0	74.2

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	219.8	3.1	2.3
10°-20°	633.5	9.0	6.7
20°-30°	1004.7	14.3	10.6
30°-40°	1356.5	19.3	14.3
40°-50°	1314.2	18.7	13.8
50°-60°	1010.3	14.3	10.6
60°-70°	1044.9	14.8	11.0
70°-80°	456.4	6.5	4.8
80°-90°	4.0	0.1	0.0
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°	7044.3	100.0	74.2
0°-180°	7044.3	100.0	74.2

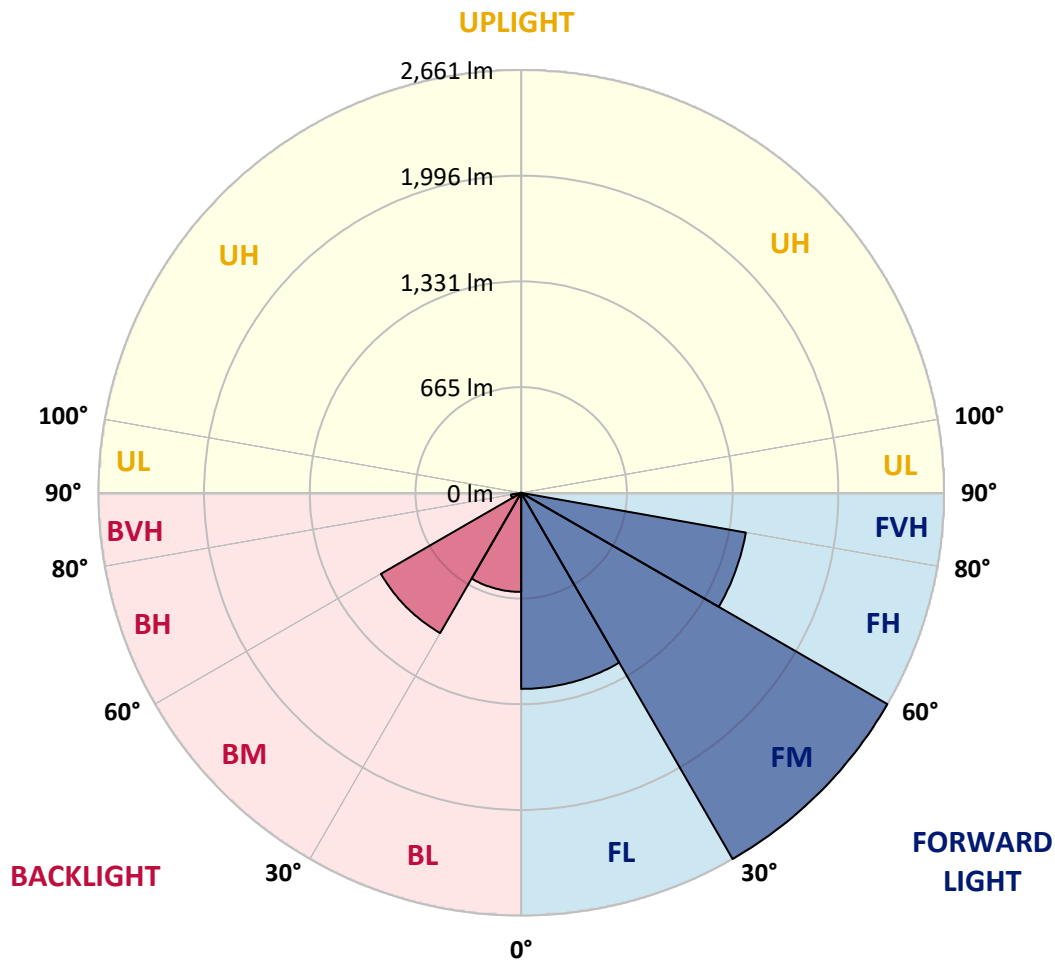


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1234.5	13.0			
FM (30°-60°)	2661.4	28.0			
FH (60°-80°)	1436.1	15.1			G1/1800
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	623.6	6.6	B2/1000		
BM (30°-60°)	1019.6	10.7	B2/2500		
BH (60°-80°)	65.2	0.7	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	2455.7	25.8			

**BUG Rating: B2-U0-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	70°	75°
0°	2288	2288	2288	2288	2288	2288	2288	2288	2288	2288	2288
2.5°	2249	2314	2323	2314	2305	2300	2302	2307	2302	2309	2311
5°	2383	2451	2460	2446	2424	2410	2399	2395	2388	2377	2368
7.5°	2523	2590	2602	2588	2557	2530	2503	2485	2471	2442	2424
10°	2644	2718	2732	2721	2682	2646	2590	2561	2527	2496	2462
12.5°	2757	2835	2858	2856	2817	2750	2671	2631	2595	2557	2521
15°	2869	2948	2984	2986	2943	2858	2766	2725	2687	2649	2599
17.5°	2968	3051	3096	3112	3071	2988	2892	2835	2770	2705	2631
20°	3044	3130	3186	3213	3206	3148	3015	2921	2811	2705	2606
22.5°	3098	3182	3272	3305	3337	3299	3103	2961	2829	2712	2599
25°	3134	3211	3312	3366	3465	3436	3191	3038	2901	2775	2635
27.5°	3161	3233	3303	3382	3539	3584	3395	3204	3040	2874	2691
30°	3193	3249	3263	3359	3553	3784	3681	3469	3254	3035	2763
32.5°	3224	3265	3231	3319	3521	3980	4020	3838	3582	3258	2844
35°	3301	3310	3251	3260	3472	4099	4367	4256	3978	3505	2894
37.5°	3292	3267	3240	3184	3384	4151	4706	4621	4272	3595	2705
40°	3089	3044	3056	3022	3202	4088	4814	4645	4104	3062	2235
42.5°	2617	2613	2644	2745	2878	3755	4351	3987	3263	2615	2048
45°	2019	2033	2120	2350	2422	3020	3321	3044	2709	2314	1918
47.5°	1381	1428	1608	1882	1934	2190	2523	2507	2381	2183	1934
50°	913	971	1162	1394	1495	1702	2091	2242	2323	2289	2102
52.5°	711	778	926	1075	1219	1448	1871	2210	2478	2541	2354
55°	621	695	836	913	1034	1268	1781	2291	2725	2865	2640
57.5°	567	654	805	841	906	1138	1731	2413	3024	3258	2946
60°	549	630	803	841	839	1050	1686	2550	3440	3852	3559
62.5°	540	616	785	868	803	987	1641	2698	4095	5021	4693
65°	522	591	749	854	769	933	1576	2860	5043	6581	6251
67.5°	445	522	693	789	726	884	1495	2860	5783	8355	8205
70°	378	447	618	690	663	827	1095	2442	6258	8803	7706
72.5°	306	369	540	598	589	650	616	1974	4857	5905	4461
75°	202	279	450	513	459	191	373	1061	2237	2228	1457
77.5°	81	187	315	317	115	63	157	346	594	564	375
80°	36	97	126	38	9	4	36	76	126	124	72
82.5°	0	9	7	0	0	0	0	0	4	2	0
85°	0	0	0	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



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**CANDELA DISTRIBUTION (continued):**

	80°	85°	90°	95°	105°	115°	125°	135°	145°	155°	165°
0°	2288	2288	2288	2288	2288	2288	2288	2288	2288	2288	2288
2.5°	2311	2305	2300	2291	2289	2275	2264	2260	2262	2255	2251
5°	2356	2341	2329	2309	2284	2257	2231	2201	2174	2150	2132
7.5°	2401	2372	2350	2320	2284	2231	2170	2118	2055	2001	1958
10°	2433	2399	2363	2334	2269	2192	2093	1985	1862	1747	1650
12.5°	2487	2449	2413	2374	2271	2145	1983	1797	1601	1430	1322
15°	2557	2505	2455	2406	2262	2087	1851	1583	1369	1216	1120
17.5°	2561	2489	2417	2347	2174	1970	1693	1405	1196	1106	1028
20°	2516	2426	2338	2244	2039	1817	1533	1282	1118	1028	960
22.5°	2489	2377	2255	2136	1893	1648	1365	1167	1070	967	908
25°	2487	2332	2172	2028	1747	1480	1225	1093	1016	929	863
27.5°	2485	2280	2084	1909	1608	1300	1120	1034	967	911	836
30°	2476	2208	1967	1774	1381	1129	1057	987	924	886	818
32.5°	2444	2114	1812	1500	1167	1073	1010	944	890	861	821
35°	2370	1837	1453	1279	1118	1037	985	922	866	848	845
37.5°	1916	1554	1349	1225	1091	1028	983	911	848	839	877
40°	1758	1477	1300	1194	1091	1043	992	906	836	827	904
42.5°	1673	1417	1268	1192	1115	1079	1016	906	830	812	922
45°	1617	1401	1279	1225	1167	1142	1041	902	809	796	938
47.5°	1664	1437	1322	1282	1232	1205	1064	893	782	776	922
50°	1797	1518	1392	1354	1304	1243	1061	866	729	713	805
52.5°	1974	1623	1471	1430	1356	1237	1021	798	614	519	576
55°	2159	1731	1545	1498	1363	1088	773	531	337	265	315
57.5°	2356	1833	1585	1430	929	506	277	160	97	94	175
60°	2703	1772	1183	866	513	279	137	67	36	40	90
62.5°	2952	1381	807	636	387	187	76	20	2	2	22
65°	3719	1446	704	497	277	119	29	0	0	0	0
67.5°	4470	1358	531	340	180	61	0	0	0	0	0
70°	3715	974	333	205	99	16	0	0	0	0	0
72.5°	1853	477	171	103	38	0	0	0	0	0	0
75°	603	182	70	36	0	0	0	0	0	0	0
77.5°	164	49	9	0	0	0	0	0	0	0	0
80°	20	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	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





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**CANDELA DISTRIBUTION (continued):**

	175°	180°
0°	2288	2288
2.5°	2246	2244
5°	2118	2114
7.5°	1922	1916
10°	1601	1596
12.5°	1275	1268
15°	1088	1084
17.5°	992	989
20°	913	908
22.5°	848	841
25°	798	791
27.5°	767	760
30°	751	751
32.5°	755	760
35°	794	800
37.5°	852	872
40°	942	980
42.5°	1064	1133
45°	1214	1322
47.5°	1306	1457
50°	1221	1394
52.5°	953	1115
55°	625	747
57.5°	358	436
60°	171	211
62.5°	65	85
65°	4	13
67.5°	0	0
70°	0	0
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

(END OF REPORT)