

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: 763660

Luminaire Tested: **OVX15SXX3DF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: 763660  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: OVX15SXX3DF  
Description: 150 WATT HPS TYPE III ROADWAY  
Light Source: 150W HPS ED 23.5  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 16500 (1 lamp)  
Luminaire Lumens: 12363 lumens  
Efficiency: 74.9%  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.1' x L: 2.35' x H: 0.94')  
IES Classification: Type III - Medium - Cutoff  
BUG Rating: B3 - U1 - G2

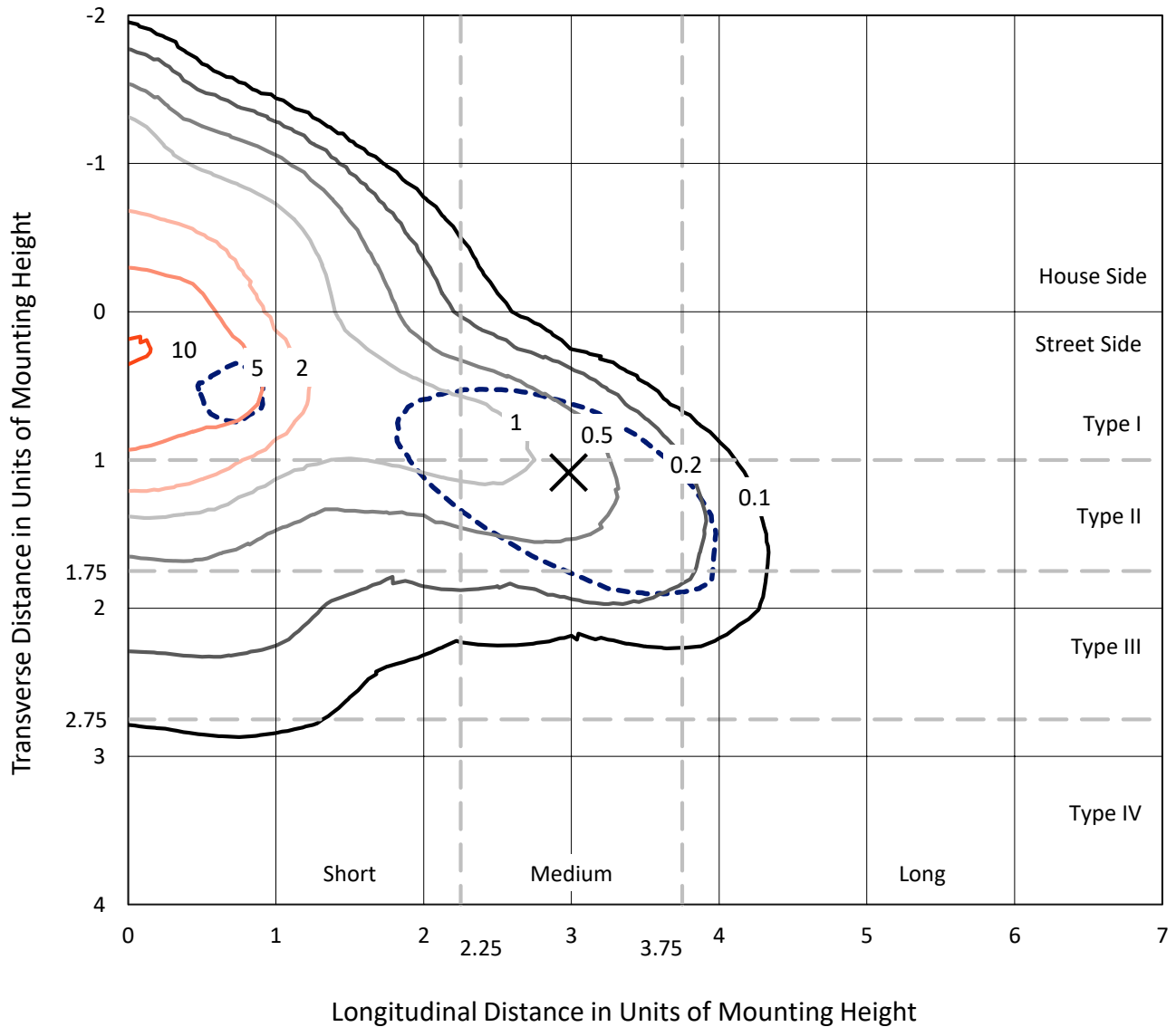
Input Watts (W): 150  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

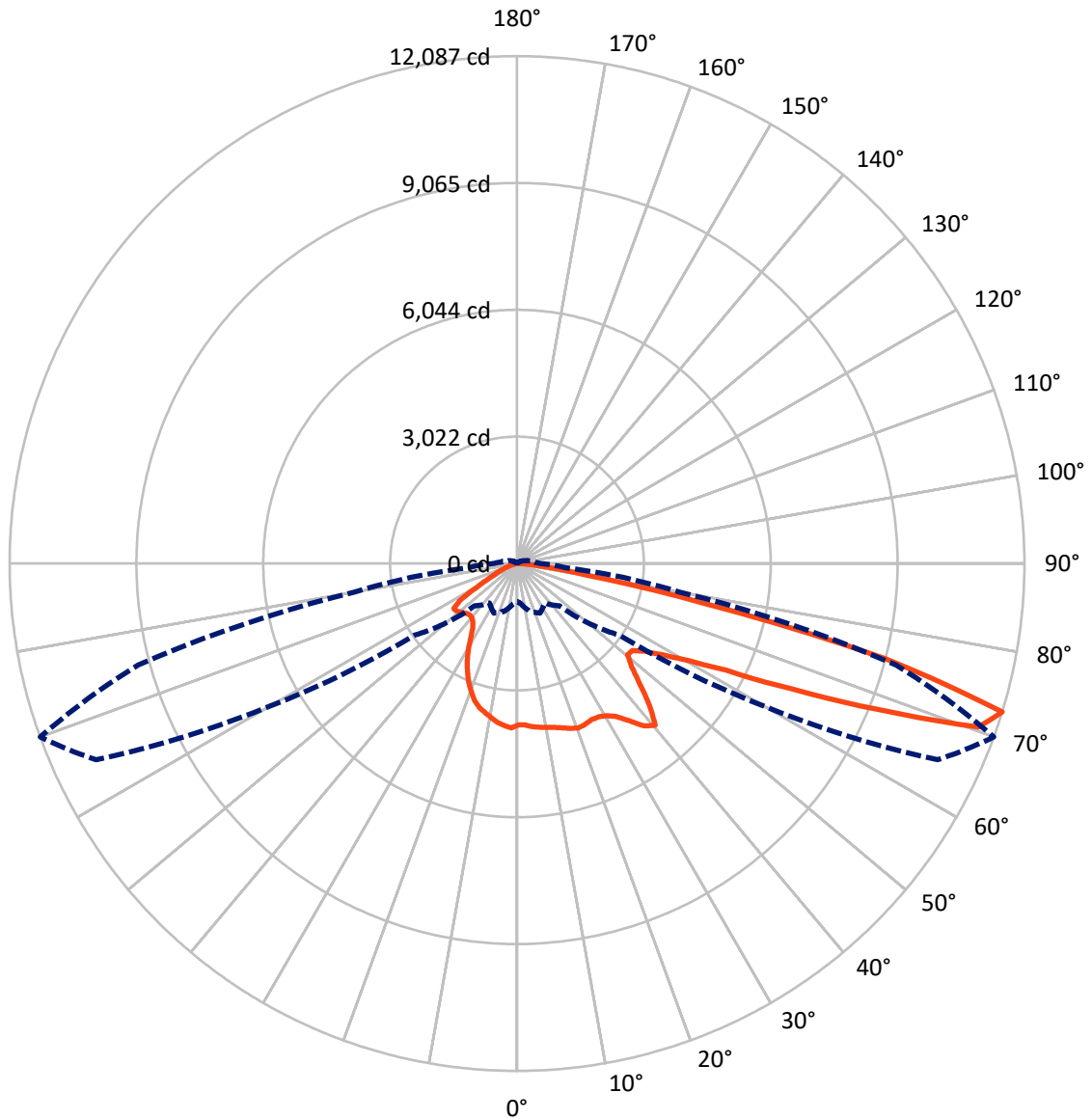
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Medium - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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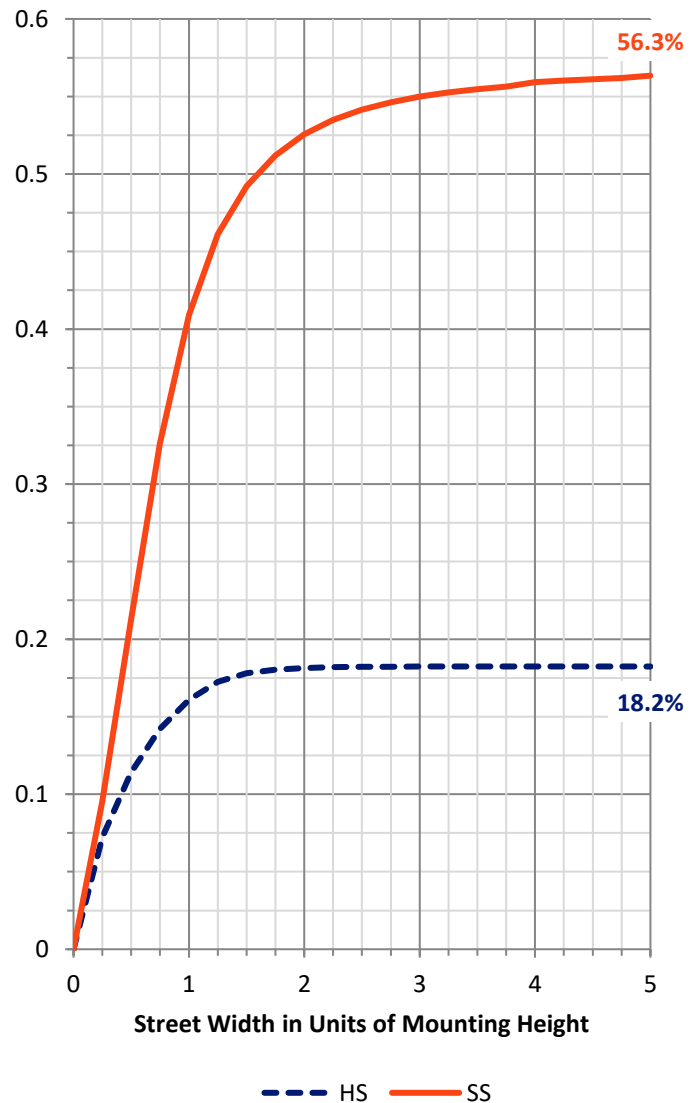
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3029.3	0.0	3029.3
	% Lamp	18.4	0.0	18.4
<b>Street Side</b>	Lumens	9326.1	7.6	9333.7
	% Lamp	56.5	0.0	56.6
<b>Total</b>	Lumens	12355.4	7.6	12363.0
	% Lamp	74.9	0.0	74.9

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	368.3	3.0	2.2
10°-20°	1032.4	8.4	6.3
20°-30°	1579.6	12.8	9.6
30°-40°	2092.0	16.9	12.7
40°-50°	2375.3	19.2	14.4
50°-60°	1825.5	14.8	11.1
60°-70°	1636.2	13.2	9.9
70°-80°	1319.0	10.7	8.0
80°-90°	127.0	1.0	0.8
90°-100°	3.2	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°	12355.4	99.9	74.9
0°-180°	12363.0	100.0	74.9

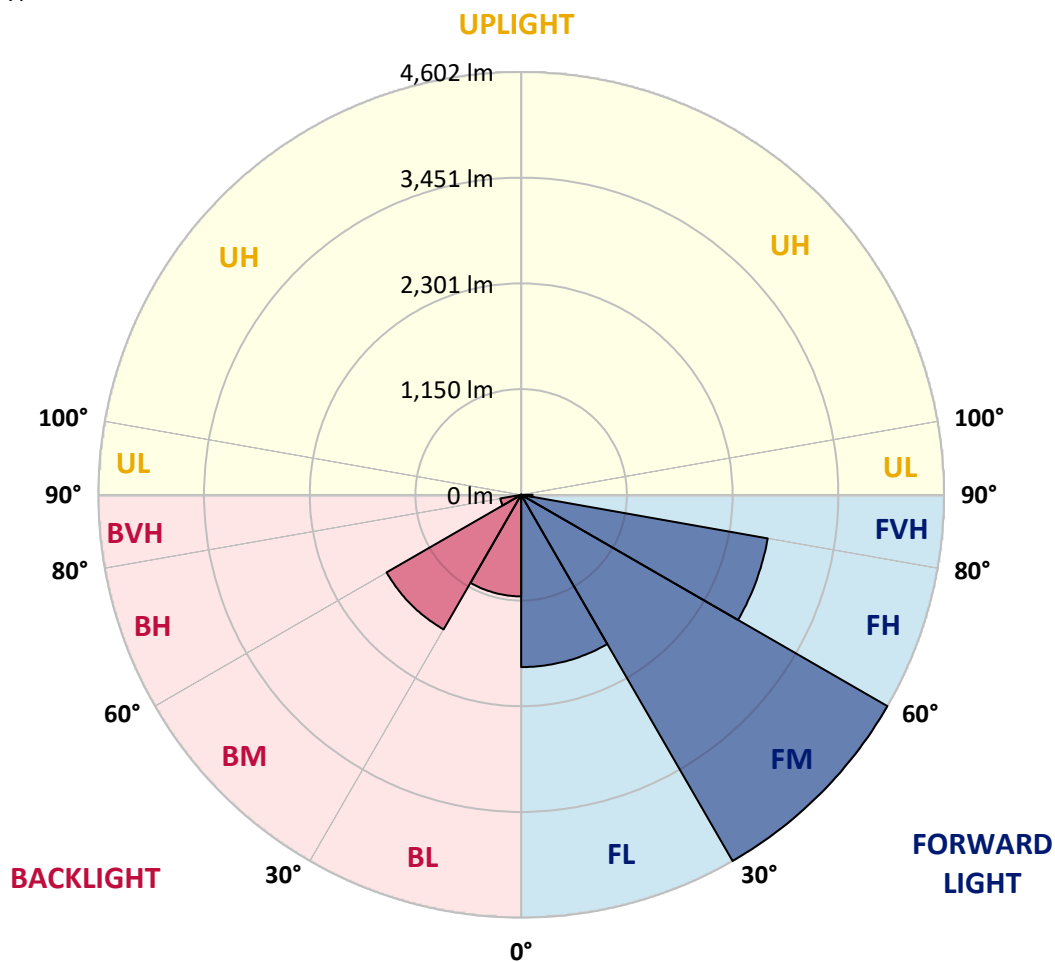


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1875.2	11.4			
FM	(30°-60°)	4601.8	27.9			
FH	(60°-80°)	2725.0	16.5			G2/5000
FVH	(80°-90°)	124.1	0.8			G2/225
BL	(0°-30°)	1105.1	6.7	B3/2500		
BM	(30°-60°)	1691.0	10.2	B2/2500		
BH	(60°-80°)	230.3	1.4	B1/500		G1/500
BVH	(80°-90°)	2.9	0.0			G0/10
UL	(90°-100°)	3.2	0.0		U1/10	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		4137.0	25.1			

**BUG Rating: B3-U1-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	70°	75°
0°	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844
2.5°	3671	3729	3748	3761	3782	3809	3828	3838	3853	3853	3857
5°	3848	3894	3901	3901	3909	3909	3907	3909	3905	3903	3899
7.5°	4020	4085	4066	4062	4047	4016	3988	3976	3957	3940	3917
10°	4235	4268	4245	4218	4179	4131	4072	4043	4009	3970	3938
12.5°	4404	4444	4419	4375	4314	4233	4145	4101	4060	4007	3961
15°	4549	4582	4561	4513	4436	4340	4225	4168	4118	4062	4009
17.5°	4684	4718	4705	4647	4561	4454	4323	4262	4199	4131	4068
20°	4822	4856	4828	4768	4693	4597	4448	4367	4281	4179	4074
22.5°	4941	4975	4935	4895	4860	4776	4597	4471	4317	4162	4012
25°	5025	5065	5035	5012	5052	4983	4707	4507	4306	4122	3953
27.5°	5079	5125	5100	5119	5246	5188	4807	4561	4337	4135	3936
30°	5110	5159	5102	5190	5407	5411	4998	4699	4444	4204	3953
32.5°	5125	5159	5054	5215	5499	5696	5332	4985	4653	4344	4003
35°	5133	5146	4975	5188	5545	6017	5783	5422	5054	4597	4078
37.5°	5236	5194	4947	5129	5543	6322	6360	6059	5581	4908	4122
40°	5359	5257	4975	5058	5474	6577	6951	6694	6080	5067	3855
42.5°	5294	5148	4899	4943	5307	6659	7396	7043	6057	4638	3439
45°	4737	4686	4525	4682	4966	6414	7231	6563	5344	4103	3132
47.5°	3943	4007	3940	4168	4404	5660	6209	5478	4576	3667	2912
50°	3161	3249	3253	3512	3669	4532	4920	4551	4005	3414	2856
52.5°	2355	2461	2593	2841	2931	3427	3972	3930	3738	3441	2971
55°	1757	1845	2031	2225	2340	2733	3429	3711	3819	3690	3224
57.5°	1481	1544	1732	1845	1977	2317	3211	3784	4137	4103	3558
60°	1392	1425	1602	1655	1738	2064	3157	4039	4697	4682	4028
62.5°	1350	1377	1548	1592	1580	1885	3180	4450	5478	5602	4780
65°	1297	1322	1502	1580	1458	1753	3253	5087	6786	7214	5850
67.5°	1208	1228	1419	1534	1352	1640	3353	5915	8547	9277	7708
70°	1051	1099	1306	1437	1252	1532	3431	6577	10210	11665	9726
72.5°	901	953	1176	1302	1145	1425	2969	6792	11057	12087	9346
75°	737	802	1047	1158	1041	1091	2394	5907	8997	9053	6009
77.5°	499	671	896	1001	832	556	1632	3924	5303	4515	2936
80°	276	487	690	683	422	278	878	1485	1649	1649	1214
82.5°	161	267	397	326	194	144	364	681	844	725	422
85°	92	136	180	136	84	71	157	251	299	247	167
87.5°	50	61	73	56	36	35	61	96	109	92	61
90°	23	25	27	21	13	13	21	33	36	31	17
92.5°	4	6	8	6	2	2	2	6	8	6	2
180°	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°	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844	3844
2.5°	3867	3874	3882	3886	3909	3924	3932	3951	3951	3966	3966
5°	3895	3890	3886	3878	3872	3869	3869	3857	3853	3842	3834
7.5°	3899	3880	3863	3846	3826	3798	3771	3736	3704	3671	3638
10°	3901	3869	3840	3811	3763	3683	3625	3521	3441	3358	3303
12.5°	3917	3869	3830	3790	3696	3571	3433	3261	3092	2959	2862
15°	3961	3899	3848	3794	3646	3452	3211	2919	2668	2505	2409
17.5°	3997	3920	3840	3761	3550	3303	2977	2605	2321	2165	2106
20°	3970	3863	3752	3650	3404	3099	2701	2294	2045	1928	1901
22.5°	3880	3744	3621	3493	3228	2892	2436	2056	1841	1759	1747
25°	3792	3631	3475	3326	3027	2658	2198	1874	1709	1630	1623
27.5°	3732	3518	3328	3153	2812	2403	1987	1738	1609	1540	1527
30°	3684	3420	3182	2961	2562	2131	1832	1648	1531	1463	1444
32.5°	3640	3301	2998	2733	2229	1906	1724	1577	1475	1412	1389
35°	3579	3126	2710	2367	1956	1766	1640	1525	1429	1373	1350
37.5°	3374	2745	2328	2071	1816	1674	1580	1486	1396	1345	1333
40°	2948	2415	2108	1924	1738	1628	1554	1463	1371	1323	1329
42.5°	2666	2223	1977	1839	1705	1619	1548	1456	1354	1300	1333
45°	2491	2112	1912	1809	1713	1644	1567	1454	1339	1277	1335
47.5°	2384	2060	1895	1822	1753	1697	1600	1452	1316	1251	1327
50°	2380	2064	1920	1864	1809	1757	1630	1440	1277	1197	1251
52.5°	2478	2123	1972	1931	1866	1799	1632	1396	1181	1038	1055
55°	2647	2215	2045	2000	1920	1780	1519	1216	942	779	779
57.5°	2846	2325	2125	2062	1795	1452	1103	811	583	478	516
60°	3094	2415	2045	1765	1289	921	635	441	324	280	330
62.5°	3339	2119	1525	1239	896	610	387	259	192	175	207
65°	3427	1770	1166	947	675	433	255	159	117	109	125
67.5°	4068	1684	972	738	510	315	171	102	73	65	75
70°	4567	1521	771	552	374	221	111	61	44	38	40
72.5°	3934	1162	552	387	263	144	69	35	21	17	17
75°	2351	723	353	253	167	90	36	13	6	4	2
77.5°	1128	374	213	152	102	46	15	2	0	0	0
80°	508	201	115	92	54	19	4	0	0	0	0
82.5°	211	98	65	48	23	4	0	0	0	0	0
85°	86	44	29	15	4	0	0	0	0	0	0
87.5°	31	13	6	4	0	0	0	0	0	0	0
90°	8	2	0	0	0	0	0	0	0	0	0
92.5°	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):**

	175°	180°
0°	3844	3844
2.5°	3966	3959
5°	3838	3813
7.5°	3606	3625
10°	3241	3257
12.5°	2800	2743
15°	2344	2367
17.5°	2081	2071
20°	1897	1891
22.5°	1747	1753
25°	1634	1634
27.5°	1542	1546
30°	1469	1469
32.5°	1414	1419
35°	1381	1389
37.5°	1377	1392
40°	1408	1435
42.5°	1477	1527
45°	1588	1676
47.5°	1726	1864
50°	1761	1960
52.5°	1626	1853
55°	1300	1542
57.5°	946	1116
60°	610	737
62.5°	359	437
65°	201	246
67.5°	109	127
70°	56	65
72.5°	23	27
75°	6	4
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
180°	0	0

(END OF REPORT)