

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge  
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 768898

Luminaire Tested: **ARC15SXX3CX6X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768898  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC15SXX3CX6X  
Description: CUTOFF GENERATIONS POST TOP  
Light Source: 150 WATT HPS CLEAR ED-23.5  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 16000 (1 lamp)  
Luminaire Lumens: 11791.4 lumens  
Efficiency: 73.7%  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type III - Short - Cutoff  
BUG Rating: B3 - U2 - G3

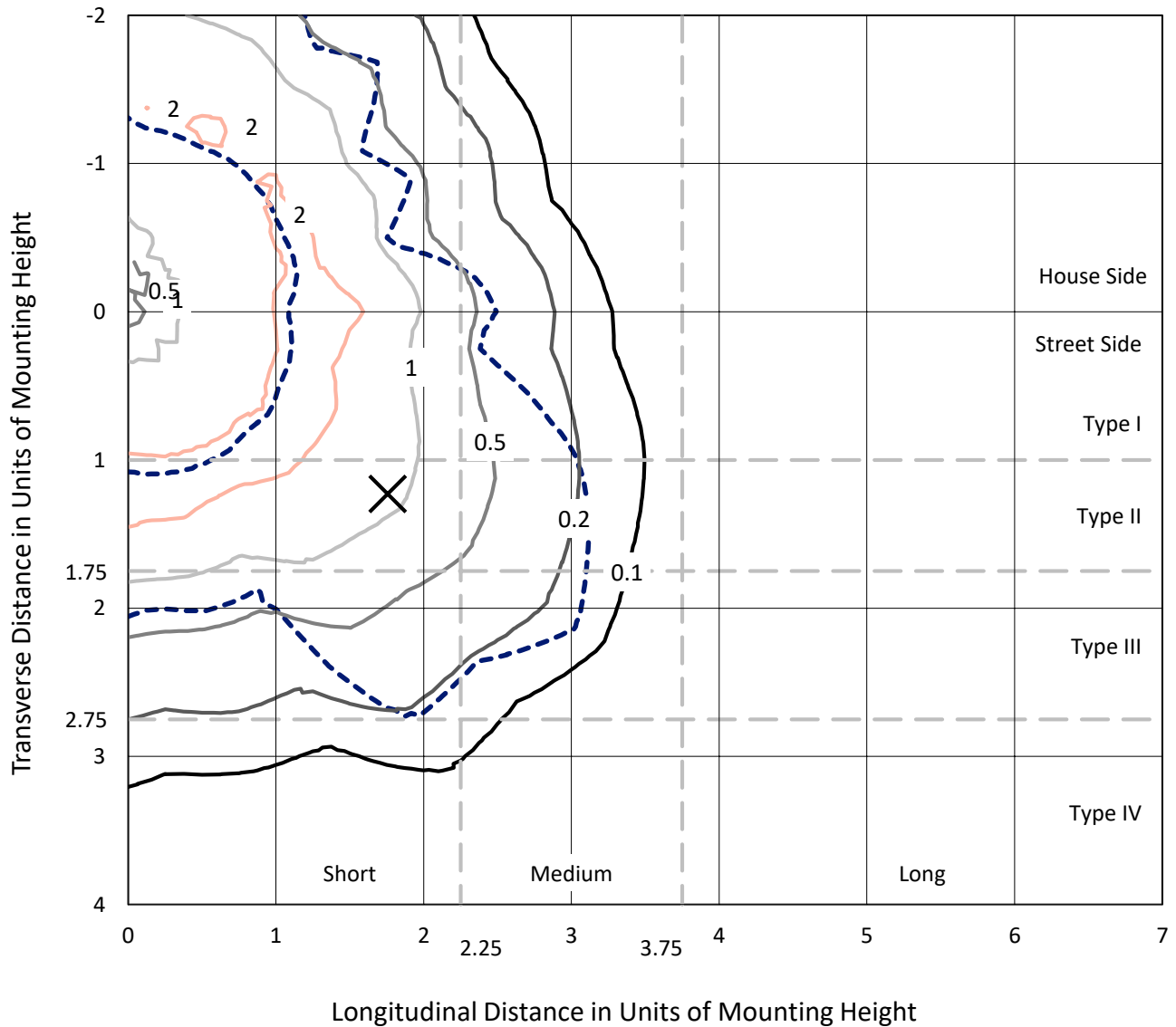
Input Watts (W): 150  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

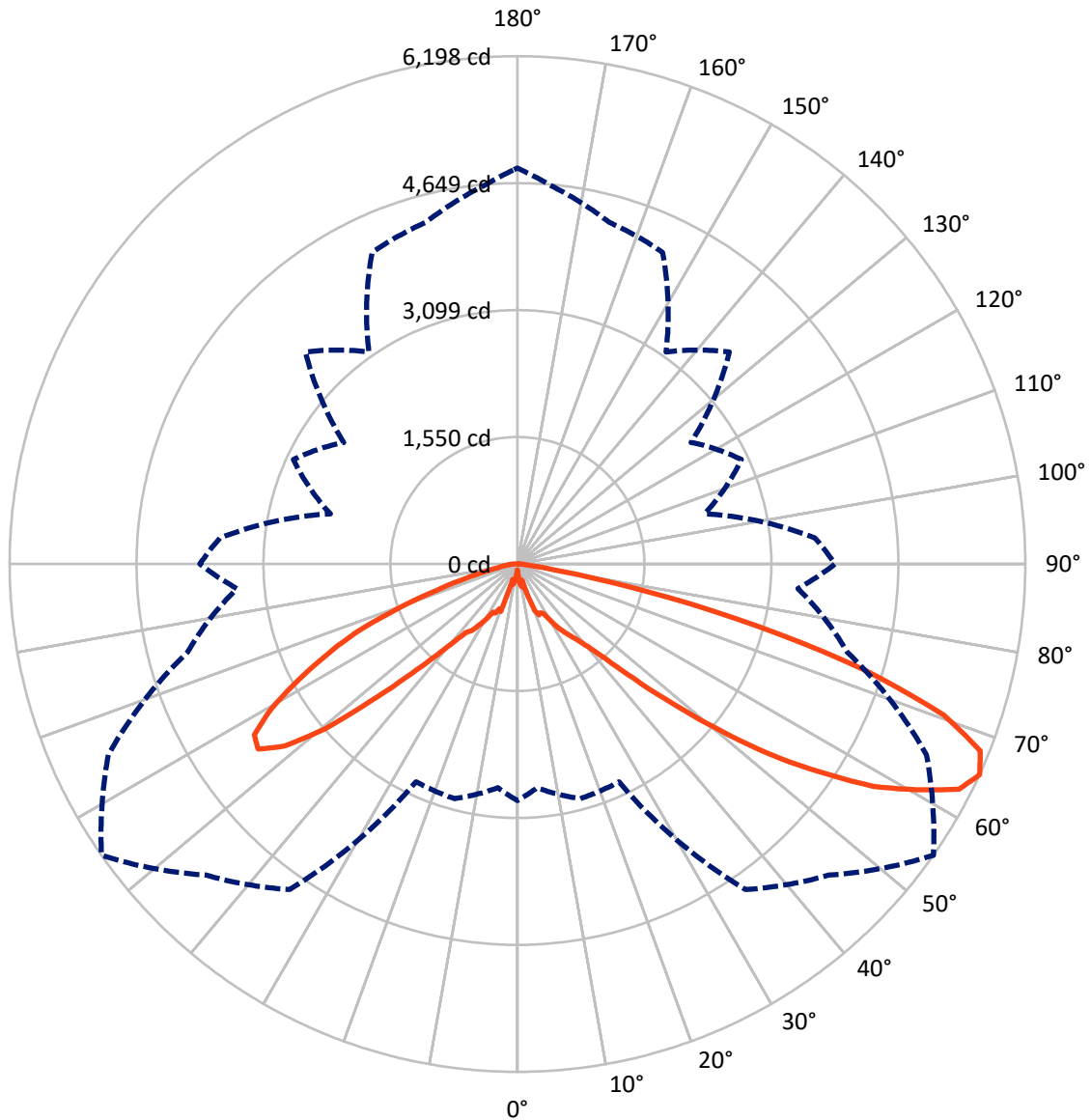
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Short - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical



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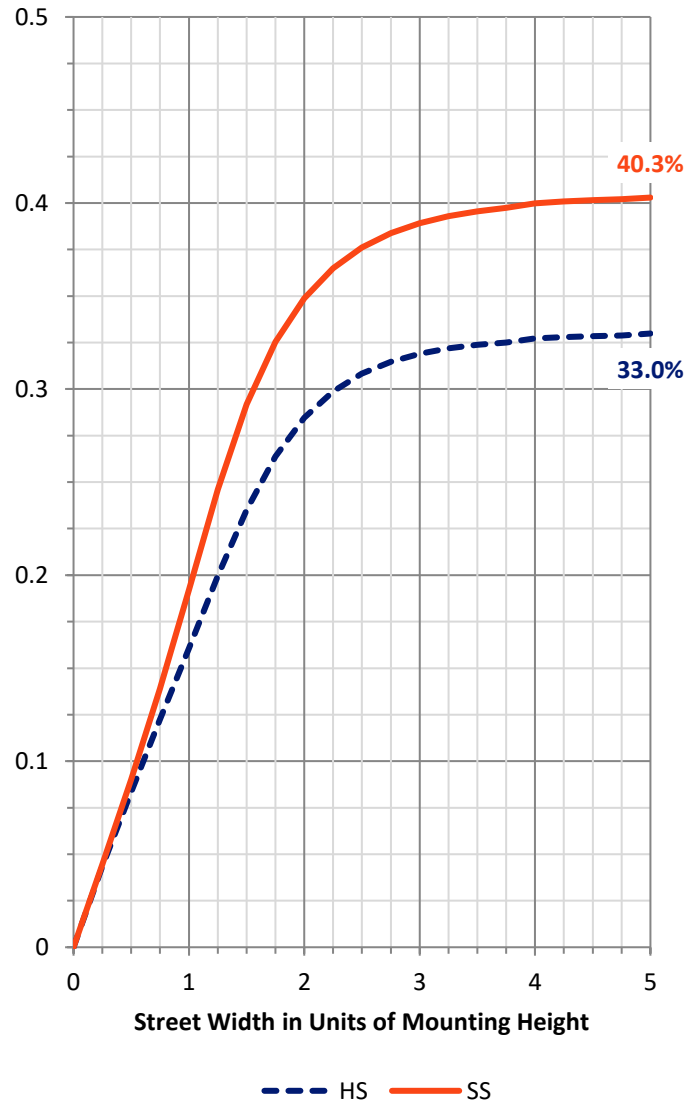
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5298.4	14.3	5312.8
	% Lamp	33.1	0.1	33.2
<b>Street Side</b>	Lumens	6460.9	17.7	6478.6
	% Lamp	40.4	0.1	40.5
<b>Total</b>	Lumens	11759.3	32.1	11791.4
	% Lamp	73.5	0.2	73.7

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	18.4	0.2	0.1
10°-20°	86.5	0.7	0.5
20°-30°	296.1	2.5	1.9
30°-40°	635.4	5.4	4.0
40°-50°	1656.9	14.1	10.4
50°-60°	3696.9	31.4	23.1
60°-70°	3768.4	32.0	23.6
70°-80°	1467.0	12.4	9.2
80°-90°	133.6	1.1	0.8
90°-100°	25.5	0.2	0.2
100°-110°	6.7	0.1	0.0
110°-120°	1.2	0.0	0.0
120°-130°	0.9	0.0	0.0
130°-140°	0.3	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.1	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	11759.3	99.7	73.5
0°-180°	11791.4	100.0	73.7



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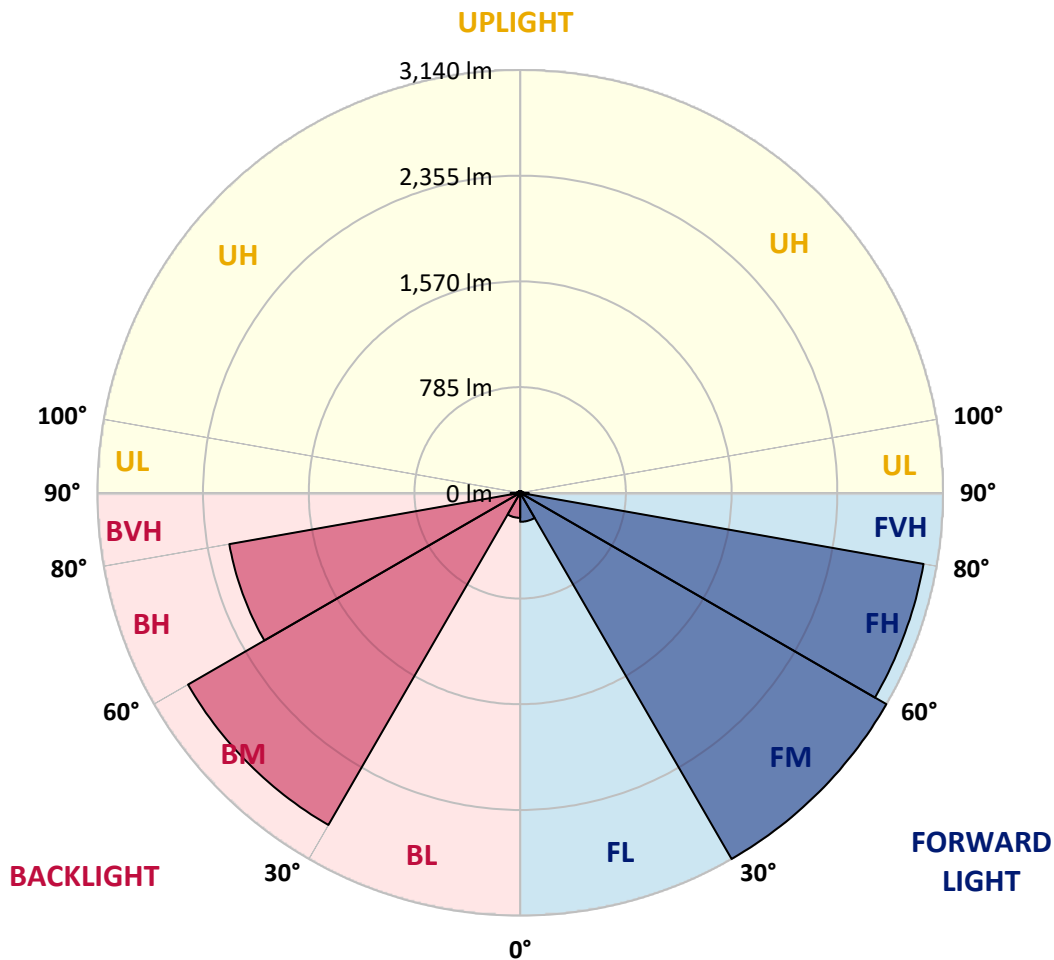
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	215.2	1.3			
FM	(30°-60°)	3140.5	19.6			
FH	(60°-80°)	3042.0	19.0			G2/5000
FVH	(80°-90°)	63.2	0.4			G1/100
BL	(0°-30°)	185.9	1.2	B1/500		
BM	(30°-60°)	2848.7	17.8	B3/5000		
BH	(60°-80°)	2193.4	13.7	B3/2500		G3/2500
BVH	(80°-90°)	70.4	0.4			G1/100
UL	(90°-100°)	25.5	0.2		U2/50	
UH	(100°-180°)	14.3	0.1		U2/50	
Trapped Light		4208.6	26.3			

**BUG Rating: B3-U2-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	85	85	85	85	85	85	85	85	85	85	85
2.5°	127	127	127	122	117	106	112	117	117	106	106
5°	181	175	181	186	175	175	170	186	191	175	175
7.5°	244	244	250	255	260	255	250	244	250	228	228
10°	297	287	271	287	303	297	281	281	308	266	271
12.5°	308	297	308	297	271	292	287	313	292	271	260
15°	255	228	212	212	197	223	202	212	228	228	223
17.5°	297	335	335	340	351	340	382	356	335	244	271
20°	552	542	680	685	643	669	605	616	637	536	547
22.5°	627	521	621	611	637	621	675	621	611	574	574
25°	690	664	685	690	669	659	659	664	669	648	659
27.5°	744	690	712	712	696	706	685	690	685	685	717
30°	786	813	866	818	802	807	813	765	775	791	797
32.5°	924	956	988	961	983	951	940	924	940	956	961
35°	1062	1036	1057	1057	1052	993	1046	1020	1009	1041	1046
37.5°	1179	1163	1179	1179	1137	1105	1163	1126	1137	1179	1168
40°	1445	1402	1360	1402	1333	1307	1323	1333	1333	1365	1402
42.5°	1806	1779	1678	1731	1652	1599	1577	1647	1593	1694	1753
45°	2433	2395	2220	2231	2109	2103	1997	2156	2098	2263	2316
47.5°	3176	3054	2857	2794	2703	2788	2528	2810	2746	2964	3118
50°	3867	3633	3479	3351	3261	3458	3166	3468	3351	3686	3983
52.5°	4366	4079	4042	3829	3787	4084	3861	4122	3904	4302	4716
55°	4462	4196	4323	4063	4185	4674	4477	4732	4249	4658	5216
57.5°	4185	4090	4217	3920	4536	5014	5120	5094	4531	4679	5391
60°	3760	3702	3851	3659	4716	5264	5593	5412	4626	4414	5078
62.5°	3378	3293	3458	3362	4865	5497	6050	5598	4456	3962	4552
65°	2889	2741	2964	2932	4849	5370	6198	5508	4169	3436	3877
67.5°	2454	2231	2523	2528	4610	5046	6092	5402	3845	2958	3245
70°	2008	1816	2178	2125	4201	4483	5518	4966	3452	2464	2571
72.5°	1562	1360	1583	1588	3452	3479	4435	3782	2820	1801	1753
75°	903	813	919	956	2470	2257	3033	2422	1960	1174	1046
77.5°	446	441	483	521	1519	1243	1609	1280	988	637	531
80°	170	154	197	250	680	398	526	393	372	255	239
82.5°	74	74	90	106	181	138	154	154	165	154	143
85°	53	58	58	64	74	80	90	101	96	101	90
87.5°	42	42	42	42	48	53	58	64	64	69	69
90°	32	32	32	32	32	32	37	37	37	37	42
95°	32	27	27	27	21	21	21	21	21	21	27
105°	0	0	5	0	5	5	0	0	5	5	0
115°	0	5	5	0	5	5	0	0	0	0	0
125°	11	5	0	0	0	5	0	11	0	0	0
135°	0	0	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°	85	85	85	85	85	85	85	85	85	85
2.5°	106	96	80	69	74	69	64	53	48	53
5°	170	165	133	122	117	112	112	112	112	106
7.5°	228	197	197	170	175	165	186	186	191	212
10°	266	234	223	218	223	228	244	276	292	276
12.5°	250	271	244	255	218	260	244	276	281	297
15°	218	234	223	228	223	218	212	218	239	234
17.5°	276	244	255	197	181	159	170	165	154	159
20°	584	611	605	616	531	536	542	436	377	276
22.5°	420	621	595	590	579	536	563	478	388	181
25°	632	664	616	659	616	616	600	510	467	478
27.5°	712	701	653	659	643	664	637	542	499	499
30°	802	797	749	770	680	706	701	605	542	542
32.5°	945	898	866	876	876	903	844	797	637	680
35°	1062	1014	993	983	951	956	908	871	728	765
37.5°	1253	1131	1089	1046	1052	1041	983	977	802	839
40°	1498	1323	1301	1248	1227	1200	1131	1158	935	945
42.5°	1854	1615	1556	1535	1429	1423	1376	1323	1137	1137
45°	2348	2034	2024	1933	1779	1763	1716	1662	1461	1423
47.5°	2911	2539	2640	2459	2337	2257	2210	2194	1976	1912
50°	3474	3112	3256	3102	2937	2879	2916	2852	2677	2475
52.5°	3999	3601	3739	3606	3612	3399	3675	3500	3474	3049
55°	4446	3755	4037	3888	4169	3867	4366	4116	4254	3654
57.5°	4727	3606	4090	3829	4446	4164	4833	4738	4929	4419
60°	4600	3245	3861	3490	4435	4132	4998	5019	5348	5088
62.5°	4201	2778	3484	3043	4127	3718	4759	4860	5205	5216
65°	3644	2364	3017	2587	3659	3160	4196	4318	4637	4833
67.5°	3043	1923	2449	2146	3017	2470	3405	3606	3877	4175
70°	2337	1445	1763	1562	2215	1790	2592	2741	2942	3325
72.5°	1508	988	1089	1041	1349	1142	1615	1785	1896	2231
75°	844	616	616	637	696	611	813	940	993	1147
77.5°	441	382	356	382	404	361	457	521	536	584
80°	228	234	223	239	260	234	292	324	335	351
82.5°	133	149	143	165	170	154	197	212	223	234
85°	85	106	96	112	117	106	127	143	143	138
87.5°	64	74	74	85	80	69	80	80	85	85
90°	42	37	48	48	53	42	42	32	37	42
95°	27	16	21	21	27	21	21	16	11	11
105°	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0
125°	0	5	0	0	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	5	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	5	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)