

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: 768934

Luminaire Tested: **ARC25SXX3CX6X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768934  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC25SXX3CX6X  
Description: CUTOFF GENERATIONS POST TOP TYPE 3  
Light Source: 250 WATT HPS CLEAR E-18  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 27500 (1 lamp)  
Luminaire Lumens: 17652.7 lumens  
Efficiency: 64.2%  
Efficacy: 70.6 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type II - Short - Cutoff  
BUG Rating: B4 - U3 - G3

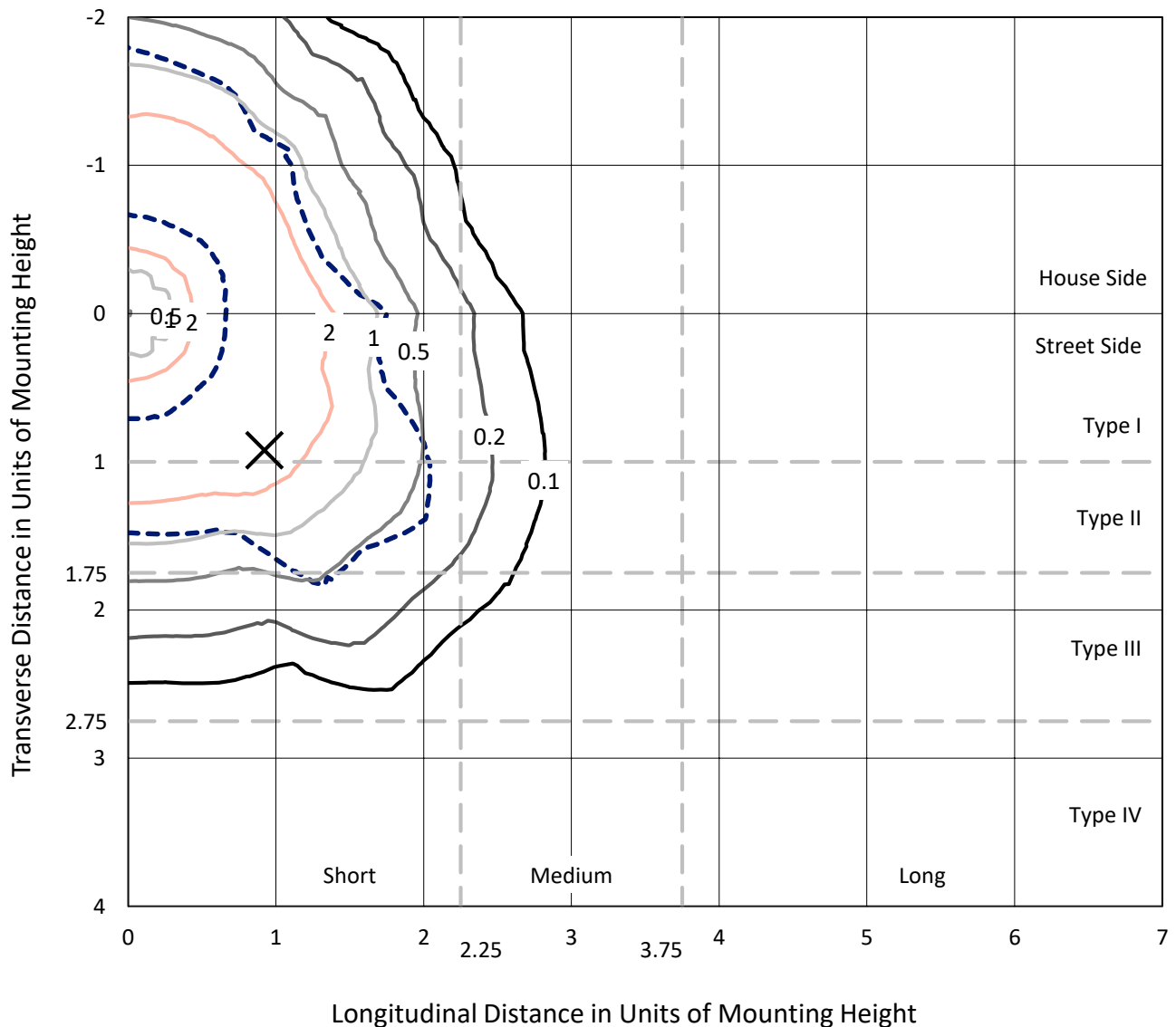
Input Watts (W): 250  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

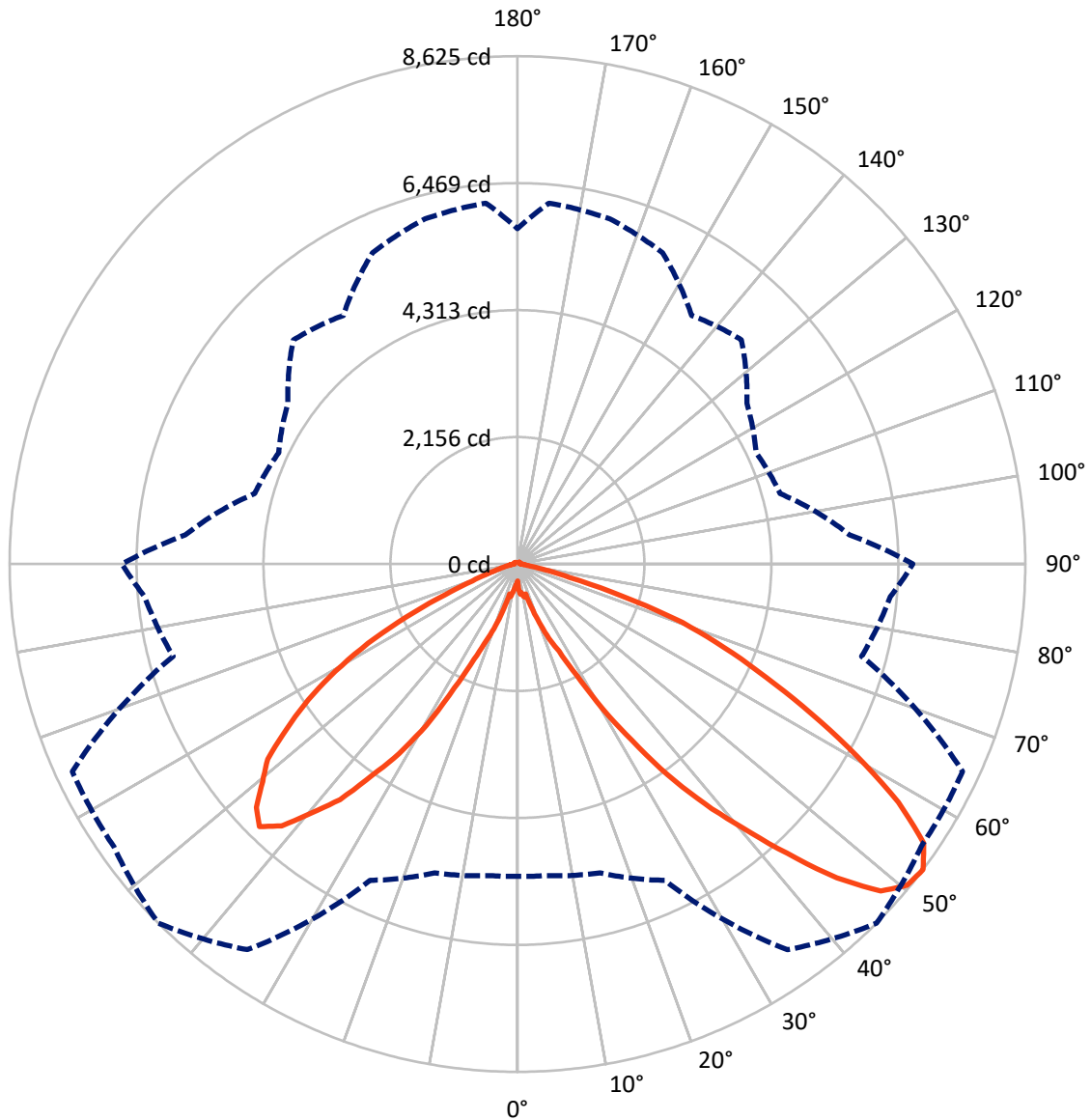
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Short - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical



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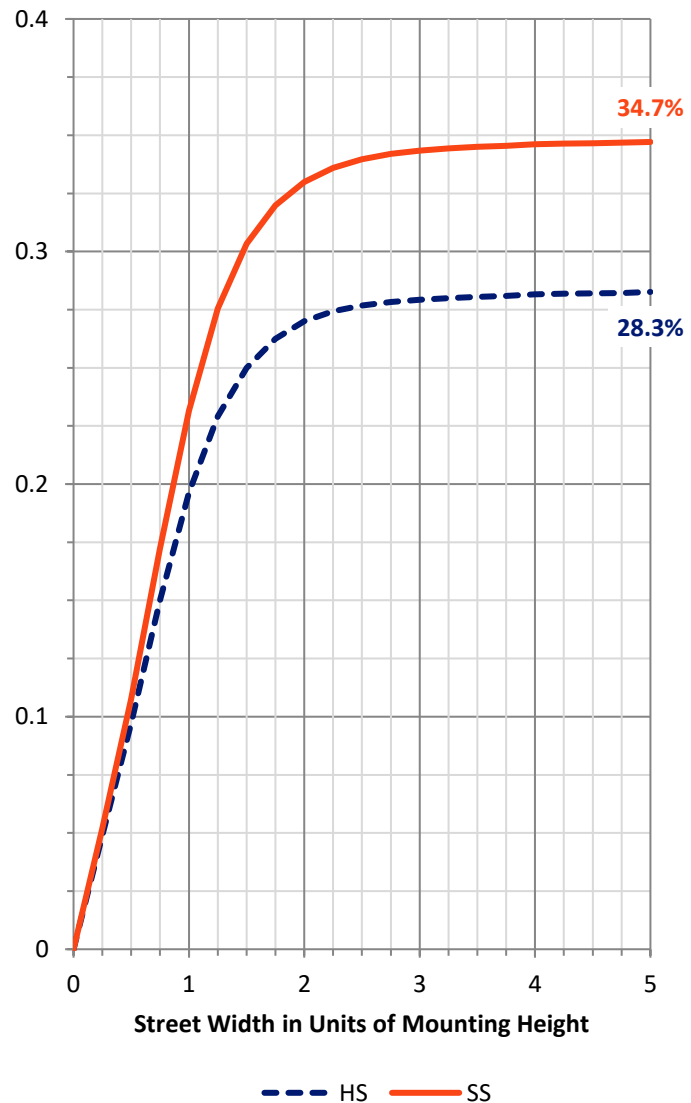
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7816.7	128.3	7945.0
	% Lamp	28.4	0.5	28.9
<b>Street Side</b>	Lumens	9581.2	126.5	9707.7
	% Lamp	34.8	0.5	35.3
<b>Total</b>	Lumens	17397.9	254.8	17652.7
	% Lamp	63.3	0.9	64.2

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	44.3	0.3	0.2
10°-20°	194.1	1.1	0.7
20°-30°	896.6	5.1	3.3
30°-40°	2839.2	16.1	10.3
40°-50°	4944.6	28.0	18.0
50°-60°	4922.5	27.9	17.9
60°-70°	2725.2	15.4	9.9
70°-80°	705.6	4.0	2.6
80°-90°	125.9	0.7	0.5
90°-100°	62.9	0.4	0.2
100°-110°	53.0	0.3	0.2
110°-120°	48.4	0.3	0.2
120°-130°	43.0	0.2	0.2
130°-140°	30.5	0.2	0.1
140°-150°	13.6	0.1	0.0
150°-160°	2.9	0.0	0.0
160°-170°	0.2	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	17397.9	98.6	63.3
0°-180°	17652.7	100.0	64.2



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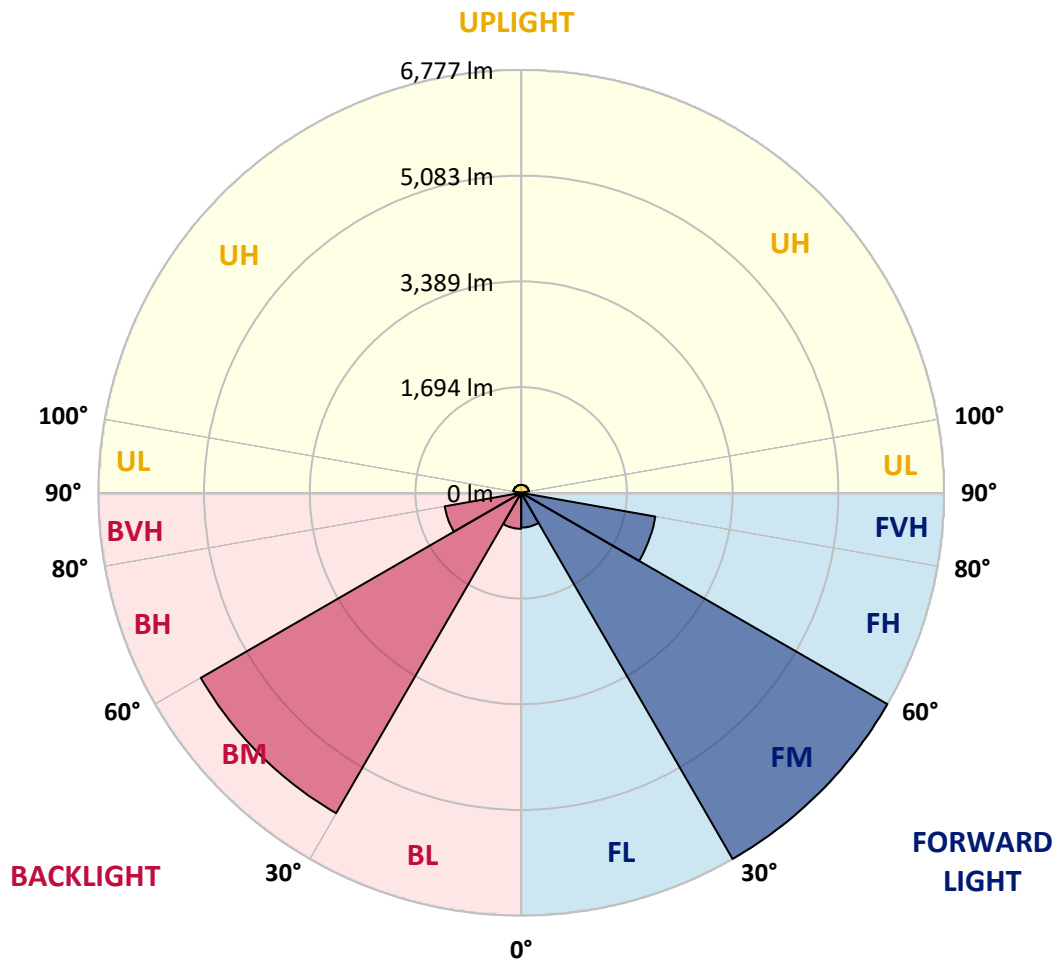
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	557.4	2.0			
FM	(30°-60°)	6777.3	24.6			
FH	(60°-80°)	2184.4	7.9			G2/5000
FVH	(80°-90°)	62.0	0.2			G1/100
BL	(0°-30°)	577.6	2.1	B2/1000		
BM	(30°-60°)	5928.9	21.6	B4/8500		
BH	(60°-80°)	1246.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	63.8	0.2			G1/100
UL	(90°-100°)	62.9	0.2		U3/500	
UH	(100°-180°)	128.3	0.5		U3/500	
Trapped Light		9847.3	35.8			

**BUG Rating: B4-U3-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	289	289	289	289	289	289	289	289	289	289	289
2.5°	466	471	475	471	457	424	391	354	368	382	373
5°	466	471	499	550	513	513	508	489	471	471	457
7.5°	541	536	522	503	499	494	513	485	489	503	485
10°	550	545	527	527	536	555	555	541	545	550	550
12.5°	643	610	573	531	550	573	615	587	606	564	541
15°	596	578	517	541	517	527	508	517	508	513	517
17.5°	811	820	788	722	797	778	778	592	746	750	760
20°	979	1053	1034	853	1072	1062	1030	736	1058	1030	1044
22.5°	1277	1351	1379	1300	1347	1370	1347	1272	1384	1342	1333
25°	1715	1757	1719	1831	1696	1640	1668	1761	1803	1836	1771
27.5°	2237	2297	2288	2265	2176	2130	2171	2321	2404	2456	2414
30°	3085	3089	2945	2903	2908	2852	2852	2945	3113	3187	3136
32.5°	3700	3672	3546	3555	3593	3574	3458	3593	3793	3998	3965
35°	4436	4301	4133	4101	4324	4403	4231	4436	4818	5028	4790
37.5°	4716	4748	4609	4697	4986	5168	5023	5261	5634	5829	5732
40°	5051	5177	5005	5210	5811	5890	5778	6095	6114	6561	6510
42.5°	5321	5443	5289	5648	6580	6715	6640	6873	6440	7074	7050
45°	5564	5652	5559	5983	7246	7605	7321	7428	6757	7227	7241
47.5°	5648	5680	5685	6114	7703	8299	7870	7973	6831	7074	7283
50°	5610	5620	5680	6170	7973	8574	8332	8266	6584	6733	7074
52.5°	5303	5312	5429	5927	7996	8625	8369	8341	6053	6356	6715
55°	4623	4674	4851	5280	7474	8374	7903	8089	5494	5829	6156
57.5°	3774	3868	4133	4445	6757	7628	7395	7362	4986	5121	5363
60°	2982	3029	3308	3527	6048	6617	6785	6393	4399	4157	4394
62.5°	2339	2339	2600	2819	5317	5610	6006	5466	3765	3229	3439
65°	1817	1775	2027	2176	4609	4641	5280	4627	3155	2470	2619
67.5°	1314	1295	1538	1598	3951	3779	4431	3826	2554	1883	1864
70°	904	951	1090	1109	3071	2973	3318	2959	1980	1365	1323
72.5°	550	578	596	662	1971	1841	2204	1878	1472	974	909
75°	317	336	336	415	1142	913	1347	895	806	555	452
77.5°	196	200	219	266	690	475	610	461	410	275	266
80°	140	140	158	177	266	219	219	224	228	205	196
82.5°	103	103	103	112	126	135	144	154	154	144	144
85°	93	89	89	98	103	107	116	126	130	121	116
87.5°	75	70	70	70	75	79	84	84	84	79	79
90°	65	75	70	75	70	70	75	84	75	75	75
95°	56	61	56	56	51	47	51	56	56	56	51
105°	56	56	51	51	47	42	47	47	47	51	47
115°	56	51	56	51	47	47	47	42	42	42	47
125°	56	56	56	56	51	47	47	47	47	47	47
135°	47	42	47	42	37	42	42	42	37	47	47
145°	19	19	19	19	23	19	23	14	19	19	19
155°	0	0	5	0	0	5	0	0	0	0	5
165°	0	0	0	0	0	0	0	0	0	5	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	5	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°	289	289	289	289	289	289	289	289	289	289
2.5°	377	368	359	354	349	322	312	280	275	289
5°	457	443	405	382	368	387	368	368	354	354
7.5°	489	461	429	443	429	438	461	480	480	485
10°	550	508	480	494	494	522	517	568	592	578
12.5°	550	536	564	555	568	559	555	564	596	587
15°	522	517	536	522	522	527	550	527	527	541
17.5°	741	741	783	839	792	839	834	801	788	811
20°	1039	1058	1086	1081	1114	1109	1002	1053	890	867
22.5°	1295	1403	1351	1375	1389	1389	1305	1319	1253	1314
25°	1757	1761	1761	1701	1775	1771	1841	1841	1761	1668
27.5°	2423	2409	2288	2302	2358	2451	2600	2623	2409	2637
30°	3215	3066	3117	2940	3150	3294	3397	3267	3308	3439
32.5°	3947	3938	3672	3719	3798	4040	4082	4049	4049	4017
35°	4758	4706	4334	4413	4352	4641	4660	4800	4590	4688
37.5°	5545	5242	4800	5061	5009	5326	5205	5485	5252	5219
40°	6281	5629	5321	5545	5466	5848	5899	6114	5923	5937
42.5°	6691	5797	5713	5769	5983	6109	6319	6505	6347	6458
45°	6957	5713	5718	5718	6249	6211	6645	6869	6677	6831
47.5°	6855	5461	5508	5582	6062	6072	6468	6971	6682	6822
50°	6412	5061	5070	5303	5690	5727	6184	6673	6472	6505
52.5°	5662	4618	4473	4758	5382	5154	5829	6067	6151	5694
55°	4911	4026	3868	4040	4804	4618	5335	5485	5610	5294
57.5°	4226	3276	3336	3308	4236	3961	4725	4851	5009	4986
60°	3504	2544	2731	2568	3588	3159	4035	4152	4399	4529
62.5°	2810	1938	2209	2018	2875	2395	3318	3411	3644	3840
65°	2069	1375	1622	1505	2092	1650	2470	2526	2740	2936
67.5°	1379	983	1123	1048	1333	1034	1594	1659	1803	1966
70°	955	713	741	718	815	666	937	1011	1067	1156
72.5°	624	517	499	508	508	438	568	648	671	708
75°	377	349	326	340	331	303	382	443	447	457
77.5°	256	256	242	256	247	228	284	322	317	326
80°	200	196	177	200	182	177	219	233	238	233
82.5°	140	140	130	144	130	126	144	158	163	168
85°	116	121	112	116	107	103	116	116	116	121
87.5°	79	79	79	79	70	75	75	79	75	75
90°	70	75	75	70	70	70	65	65	70	65
95°	51	51	56	47	51	51	56	56	56	47
105°	47	47	51	56	56	51	51	51	51	47
115°	47	47	47	47	47	47	47	47	47	47
125°	51	47	51	51	51	51	56	51	51	56
135°	47	37	47	47	42	42	47	42	37	47
145°	23	19	23	19	28	23	23	19	28	28
155°	5	5	0	5	0	5	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)