

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: 768877

Luminaire Tested: **ACN25SXX5514XR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768877  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN25SXX5514XR  
Description: GENERATIONS POST TOP  
W/TALL SPUN TOP & CAGE  
Light Source: 250 WATT HPS CLEAR E-18  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 27500 (1 lamp)  
Luminaire Lumens: 15981.8 lumens  
Efficiency: 58.1%  
Efficacy: 63.9 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U4 - G4

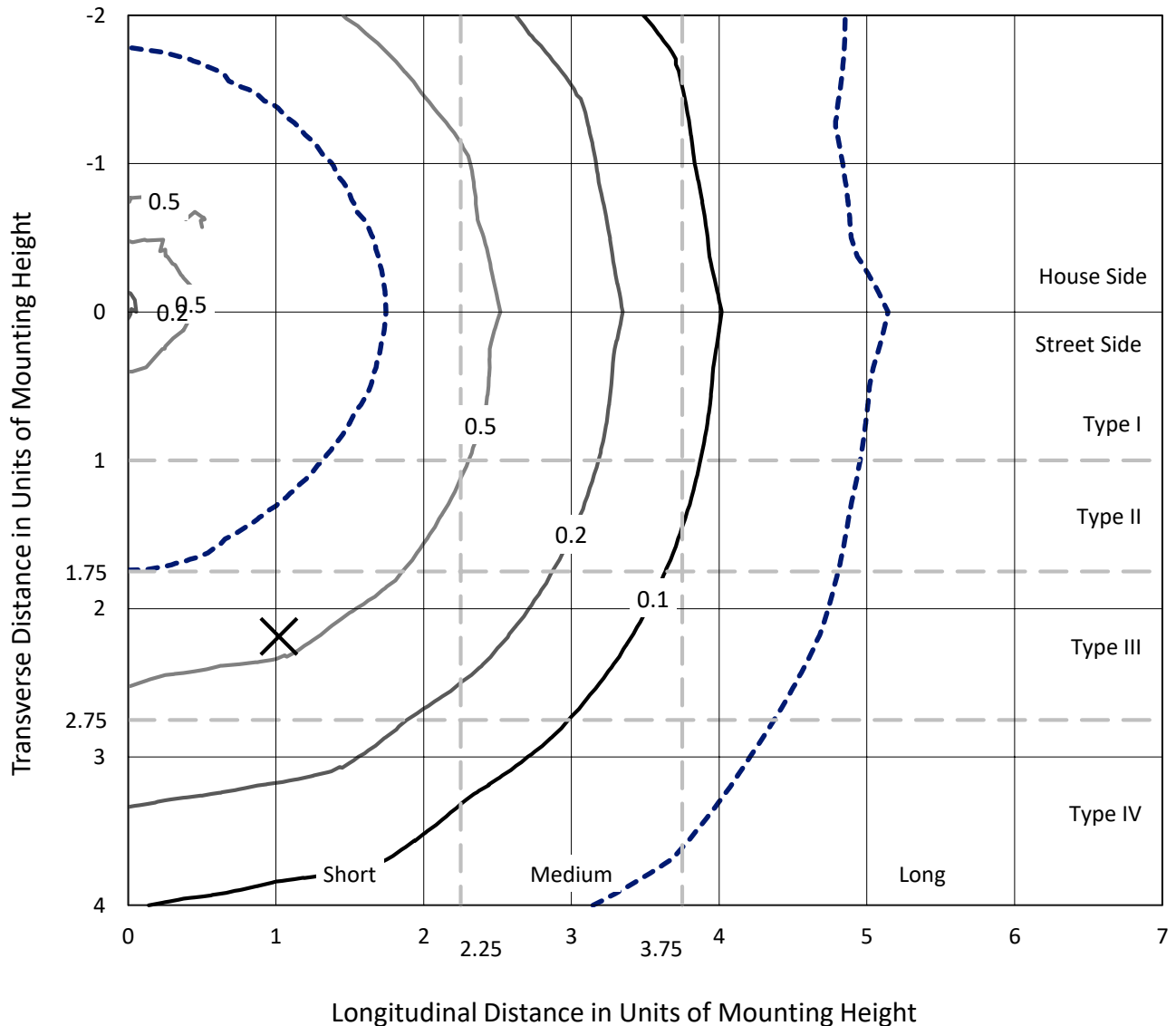
Input Watts (W): 250  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

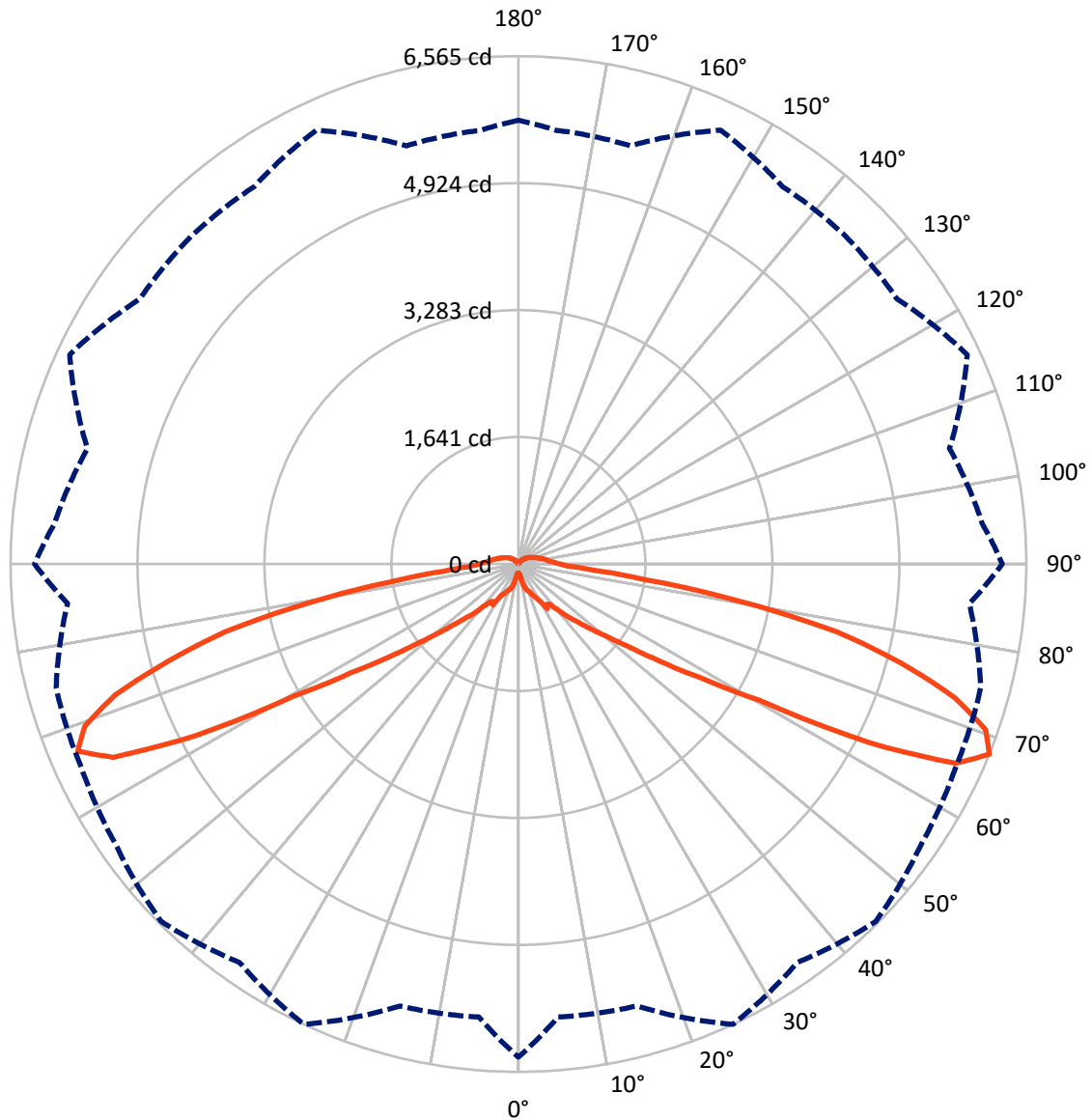


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 25-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical



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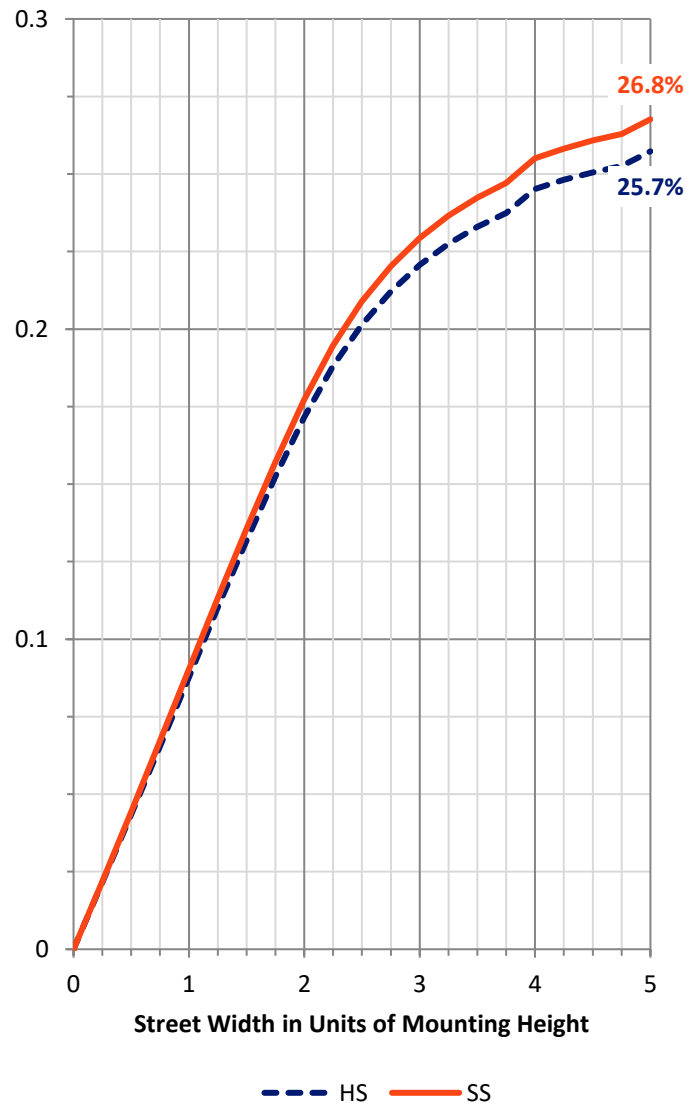
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7261.8	544.8	7806.6
	% Lamp	26.4	2.0	28.4
<b>Street Side</b>	Lumens	7610.4	564.8	8175.2
	% Lamp	27.7	2.1	29.7
<b>Total</b>	Lumens	14872.2	1109.6	15981.8
	% Lamp	54.1	4.0	58.1

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	13.6	0.1	0.0
10°-20°	85.5	0.5	0.3
20°-30°	206.8	1.3	0.8
30°-40°	402.8	2.5	1.5
40°-50°	816.3	5.1	3.0
50°-60°	1967.9	12.3	7.2
60°-70°	5271.4	33.0	19.2
70°-80°	4812.2	30.1	17.5
80°-90°	1295.5	8.1	4.7
90°-100°	433.1	2.7	1.6
100°-110°	288.7	1.8	1.0
110°-120°	189.5	1.2	0.7
120°-130°	117.0	0.7	0.4
130°-140°	61.7	0.4	0.2
140°-150°	24.9	0.2	0.1
150°-160°	6.3	0.0	0.0
160°-170°	0.6	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	14872.2	93.1	54.1
0°-180°	15981.8	100.0	58.1



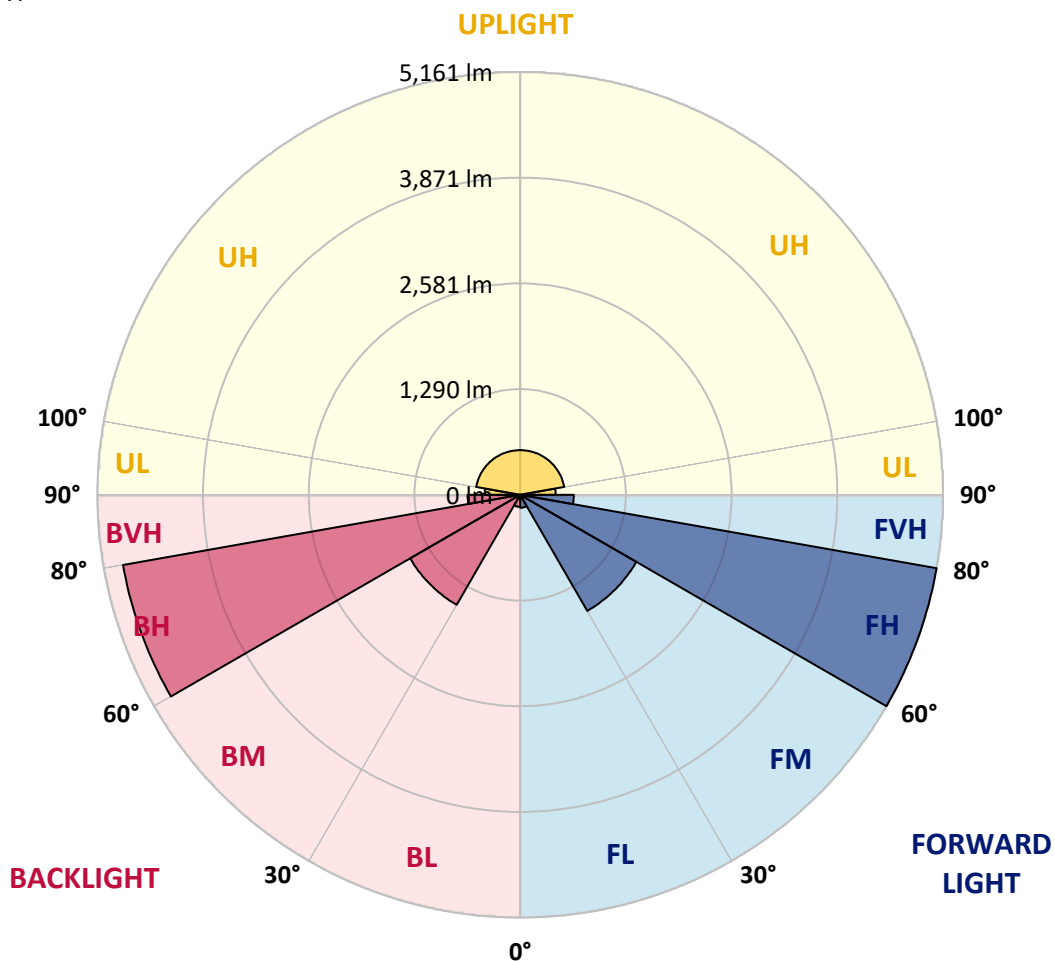
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	158.4	0.6			
FM (30°-60°)	1636.7	6.0			
FH (60°-80°)	5161.2	18.8			G3/7500
FVH (80°-90°)	654.2	2.4			G4/750
BL (0°-30°)	147.6	0.5	B1/500		
BM (30°-60°)	1550.3	5.6	B2/2500		
BH (60°-80°)	4922.5	17.9	B4/5000		G2/5000
BVH (80°-90°)	641.4	2.3			G4/750
UL (90°-100°)	433.1	1.6		U3/500	
UH (100°-180°)	544.8	2.0		U4/1000	
Trapped Light	11518.2	41.9			

**BUG Rating: B4-U4-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	118	118	118	118	118	118	118	118	118	118	118
2.5°	118	118	123	123	127	123	123	123	123	114	114
5°	118	123	123	132	132	132	132	123	123	114	114
7.5°	145	145	155	155	159	155	159	145	145	141	141
10°	191	191	195	191	186	191	186	182	182	182	177
12.5°	282	277	277	264	264	255	255	259	268	277	273
15°	309	318	318	318	327	327	327	318	314	314	309
17.5°	327	327	336	355	359	359	355	350	341	323	323
20°	355	355	359	373	391	382	386	377	359	350	346
22.5°	409	400	405	405	409	423	418	409	400	405	400
25°	464	459	450	455	459	464	464	450	450	455	455
27.5°	509	509	505	500	505	509	505	500	500	496	496
30°	555	559	555	564	555	559	555	550	555	546	532
32.5°	682	682	691	691	691	677	686	682	682	664	664
35°	627	618	623	636	632	636	646	650	641	636	632
37.5°	664	655	655	664	655	650	659	673	668	668	659
40°	782	764	764	768	746	750	768	782	791	791	786
42.5°	918	896	905	923	914	927	932	946	946	946	941
45°	1009	991	1018	1059	1077	1105	1087	1077	1055	1032	1014
47.5°	1137	1118	1168	1246	1282	1305	1273	1250	1196	1141	1118
50°	1300	1287	1359	1455	1532	1546	1518	1464	1382	1300	1287
52.5°	1555	1546	1627	1755	1868	1882	1855	1764	1632	1564	1550
55°	1900	1937	2028	2209	2346	2318	2318	2200	2023	1968	1946
57.5°	2300	2391	2500	2773	2864	2823	2819	2696	2469	2414	2350
60°	3128	3128	3182	3578	3669	3691	3596	3487	3237	3164	3119
62.5°	4819	4569	4596	5087	5092	5192	4987	4878	4723	4605	4642
65°	5992	5578	5560	6210	6042	6142	5983	5892	5883	5587	5810
67.5°	6374	5878	5914	6565	6287	6533	6346	6233	6187	5851	6255
70°	6019	5683	5764	6405	6019	6337	6160	6033	5928	5633	6128
72.5°	5501	5264	5346	5892	5496	5792	5696	5623	5487	5255	5605
75°	4819	4587	4578	5110	4714	4969	4969	4864	4723	4573	4773
77.5°	3937	3741	3701	4201	3846	4060	4037	3978	3841	3796	3932
80°	2673	2609	2609	2887	2655	2819	2759	2791	2719	2723	2787
82.5°	1673	1632	1614	1650	1505	1605	1591	1687	1728	1764	1778
85°	955	927	927	923	818	850	859	959	1009	1046	1064
87.5°	600	582	605	618	586	605	609	646	650	646	650
90°	491	473	491	514	505	527	523	532	514	509	505
95°	364	359	377	396	386	396	396	396	391	377	373
105°	245	245	268	282	255	259	264	277	268	255	250
115°	164	164	177	191	195	195	200	200	195	177	177
125°	127	118	132	141	136	127	136	145	136	132	132
135°	73	68	82	82	77	77	77	91	91	77	77
145°	45	45	45	41	36	36	41	45	45	41	41
155°	9	9	14	9	9	0	9	9	9	18	14
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°	118	118	118	118	118	118	118	118	118	118
2.5°	118	118	118	118	114	118	118	114	109	109
5°	114	114	118	123	123	118	114	109	109	100
7.5°	145	136	141	141	145	141	136	132	132	127
10°	177	173	173	173	168	173	173	164	164	164
12.5°	264	259	250	241	241	232	232	245	241	245
15°	305	309	305	309	309	305	300	295	286	291
17.5°	318	327	336	341	341	332	332	314	305	300
20°	350	341	355	355	359	355	346	332	327	327
22.5°	396	391	382	391	400	386	373	373	377	373
25°	450	436	423	427	436	423	409	409	423	418
27.5°	491	486	473	468	464	464	441	455	455	464
30°	527	527	514	505	505	496	486	496	486	491
32.5°	664	659	646	627	618	623	623	632	623	636
35°	623	618	618	591	582	582	586	586	582	582
37.5°	659	650	627	614	596	600	614	609	609	609
40°	786	764	732	718	705	705	709	723	732	727
42.5°	932	914	886	873	864	859	864	859	864	864
45°	1005	1014	1009	1014	1009	991	977	959	950	946
47.5°	1127	1155	1177	1182	1196	1168	1159	1123	1068	1073
50°	1291	1323	1377	1414	1441	1418	1387	1314	1250	1237
52.5°	1564	1577	1646	1737	1773	1768	1682	1573	1500	1509
55°	1950	1973	2059	2168	2173	2196	2087	1991	1891	1909
57.5°	2382	2414	2541	2619	2614	2578	2582	2369	2314	2218
60°	3119	3114	3441	3360	3369	3328	3360	3019	3000	2891
62.5°	4528	4519	4923	4673	4760	4642	4728	4278	4246	4201
65°	5687	5446	5987	5664	5692	5592	5801	5201	5233	5283
67.5°	6019	5769	6401	5974	5987	5955	6187	5596	5628	5737
70°	5805	5673	6174	5796	5796	5746	5983	5560	5419	5564
72.5°	5333	5301	5796	5301	5387	5314	5483	5187	4969	5119
75°	4492	4542	5069	4496	4582	4610	4692	4332	4201	4310
77.5°	3650	3691	4187	3687	3628	3723	3887	3428	3423	3491
80°	2646	2659	2950	2609	2487	2578	2755	2405	2437	2455
82.5°	1723	1687	1787	1546	1487	1514	1682	1523	1573	1527
85°	1032	1014	1014	846	814	836	973	905	955	918
87.5°	641	641	659	586	564	582	641	586	582	573
90°	500	505	532	500	486	496	514	477	473	464
95°	364	373	396	373	373	377	396	364	359	355
105°	250	259	286	250	250	259	277	264	268	264
115°	177	182	195	191	186	182	191	173	159	155
125°	127	132	136	127	127	127	136	118	118	109
135°	77	77	73	68	68	68	73	64	64	64
145°	45	45	36	32	27	27	27	32	27	27
155°	9	9	9	9	0	5	5	9	9	9
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)