

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: 768871

Luminaire Tested: **ACN25SXX3314XR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768871
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN25SXX3314XR
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: 16079.2 lumens
Efficiency: 58.5%
Efficacy: 64.3 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B4 - U4 - G5

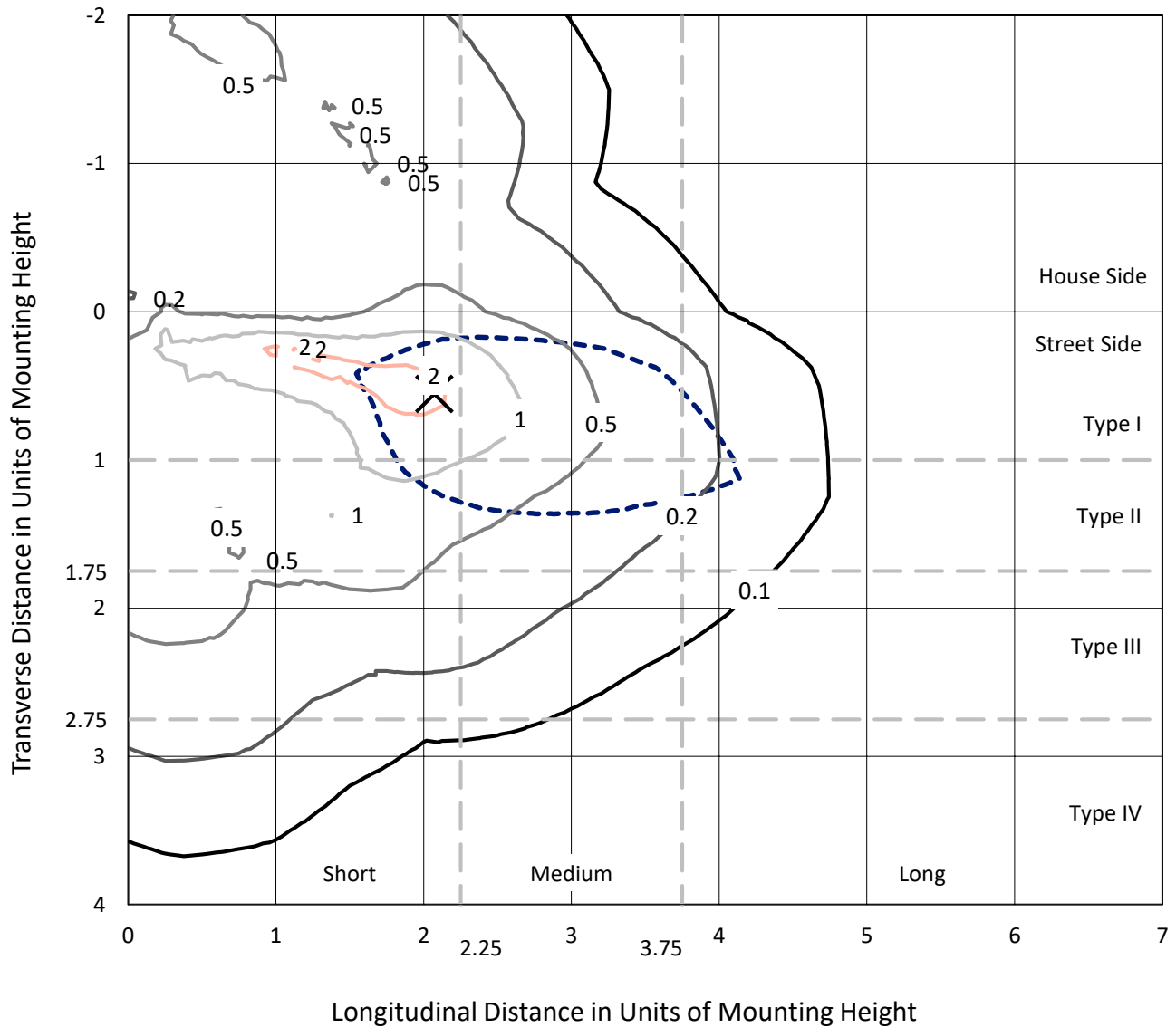
Input Watts (W): 250
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

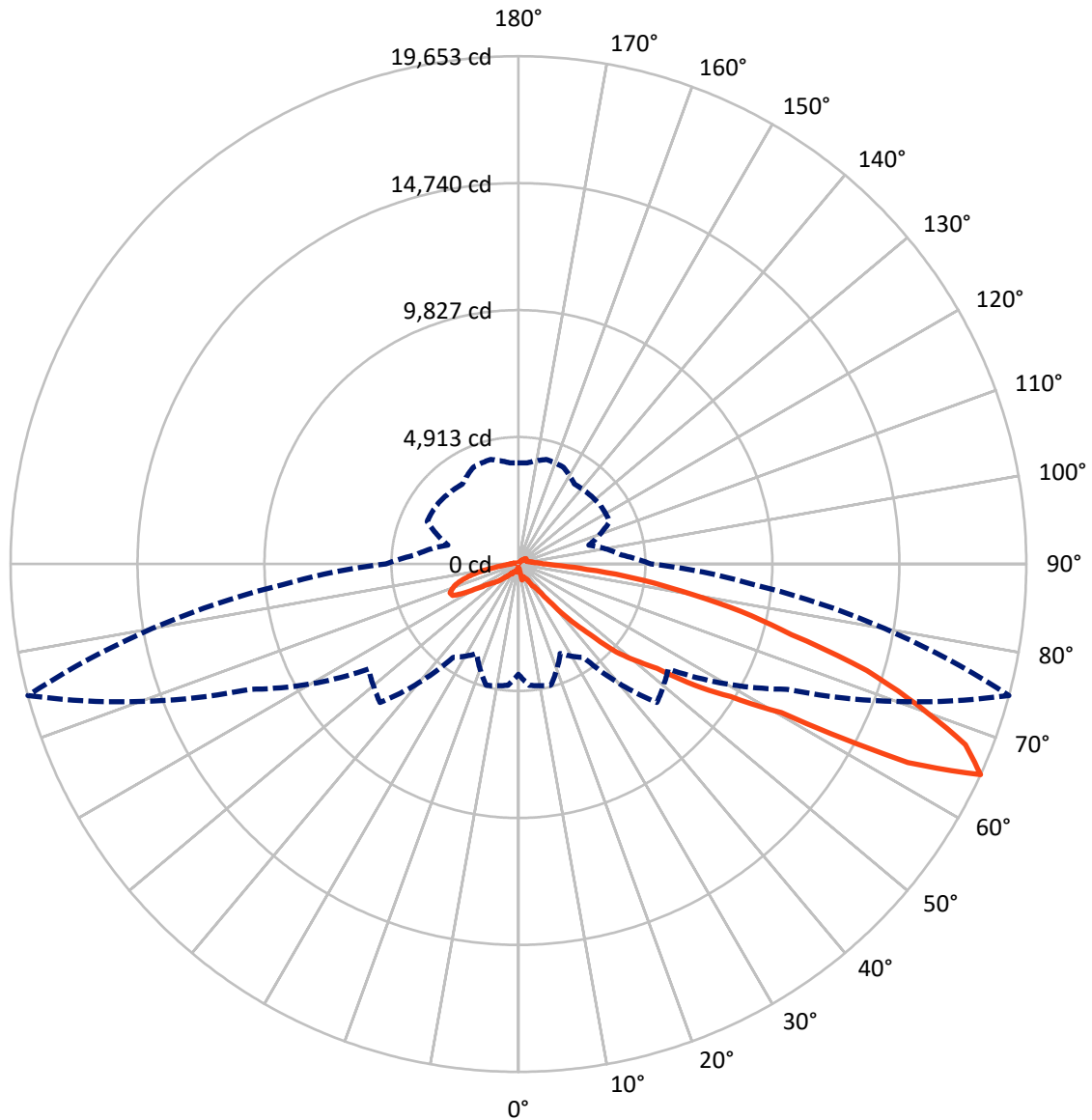


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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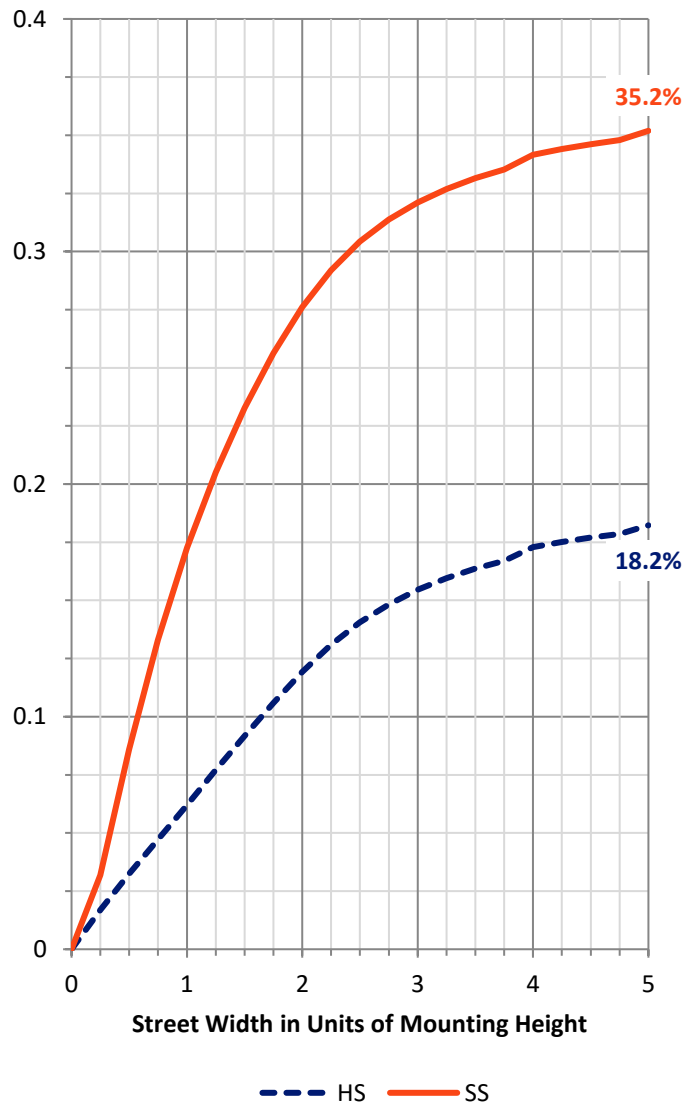
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5164.8	396.6	5561.5
	% Lamp	18.8	1.4	20.2
Street Side	Lumens	9940.8	577.0	10517.7
	% Lamp	36.1	2.1	38.2
Total	Lumens	15105.6	973.6	16079.2
	% Lamp	54.9	3.5	58.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	16.3	0.1	0.1
10°-20°	119.4	0.7	0.4
20°-30°	240.3	1.5	0.9
30°-40°	467.4	2.9	1.7
40°-50°	972.8	6.0	3.5
50°-60°	2071.1	12.9	7.5
60°-70°	5331.9	33.2	19.4
70°-80°	4571.3	28.4	16.6
80°-90°	1315.1	8.2	4.8
90°-100°	389.4	2.4	1.4
100°-110°	242.1	1.5	0.9
110°-120°	157.1	1.0	0.6
120°-130°	103.0	0.6	0.4
130°-140°	59.9	0.4	0.2
140°-150°	26.8	0.2	0.1
150°-160°	7.4	0.0	0.0
160°-170°	0.8	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	15105.6	93.9	54.9
0°-180°	16079.2	100.0	58.5



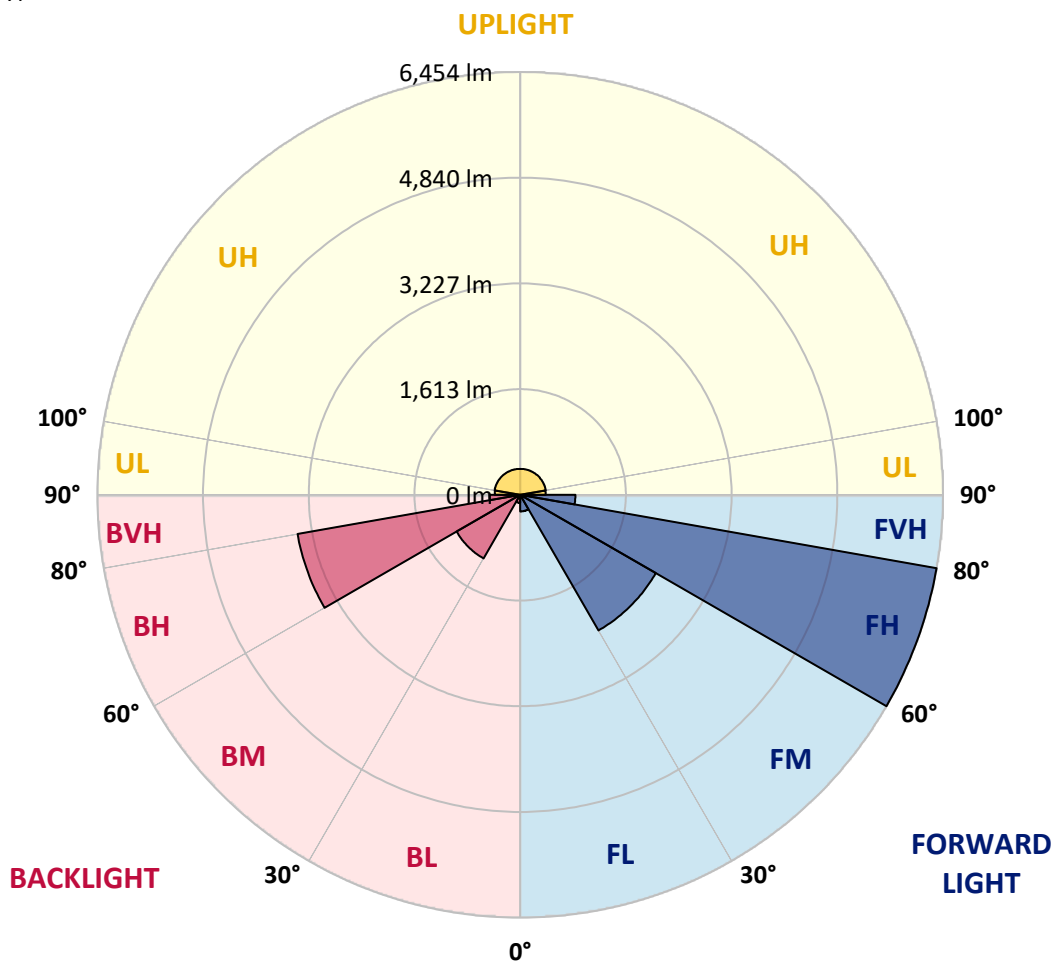
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.7	0.9			
FM (30°-60°)	2390.2	8.7			
FH (60°-80°)	6453.7	23.5			G3/7500
FVH (80°-90°)	843.2	3.1			G5
BL (0°-30°)	122.3	0.4	B1/500		
BM (30°-60°)	1121.1	4.1	B2/2500		
BH (60°-80°)	3449.5	12.5	B4/5000		G4/5000
BVH (80°-90°)	472.0	1.7			G3/500
UL (90°-100°)	389.4	1.4		U3/500	
UH (100°-180°)	396.6	1.4		U3/500	
Trapped Light	11420.8	41.5			

BUG Rating: B4-U4-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	155	155	155	155	155	155	155	155	155	155	155
2.5°	145	150	164	168	168	155	164	159	159	155	155
5°	182	177	182	186	186	186	182	173	164	150	145
7.5°	209	205	200	209	205	209	209	195	177	164	159
10°	264	268	273	286	314	323	323	309	268	227	205
12.5°	482	491	514	555	655	736	786	741	636	482	414
15°	473	482	532	609	727	809	818	714	577	427	377
17.5°	409	414	459	609	755	814	800	677	532	391	355
20°	391	377	427	586	736	841	782	659	518	400	359
22.5°	427	418	455	600	718	859	868	777	577	432	382
25°	546	523	550	641	791	959	1009	936	627	450	396
27.5°	591	568	564	632	741	877	996	1014	646	455	409
30°	664	632	623	686	782	932	1059	1237	741	464	400
32.5°	773	741	696	759	923	1082	1432	1791	1014	573	496
35°	800	759	677	682	809	755	1087	1728	1091	591	496
37.5°	1027	1000	877	791	986	691	927	2100	1459	618	477
40°	1346	1291	1159	986	1268	777	1096	2669	2155	664	523
42.5°	1564	1532	1364	1114	1473	1059	1268	2769	3050	773	596
45°	1546	1505	1341	1082	1432	1282	1287	2391	3891	859	655
47.5°	1637	1568	1414	1155	1532	1659	1473	2396	5092	1014	736
50°	1809	1705	1550	1268	1709	1982	1641	2505	5851	1246	859
52.5°	2091	1950	1737	1423	1987	2414	1928	2837	6715	1591	1077
55°	2473	2314	2005	1646	2364	2900	2296	3410	8292	2141	1414
57.5°	2609	2537	2264	1832	2578	3287	2641	4051	9679	3009	1887
60°	2973	3050	2896	2300	3082	4260	3632	5805	11683	4464	2850
62.5°	3801	4132	4137	3241	4032	6419	5646	9479	16925	6865	4101
65°	4264	4710	4855	3823	4414	7578	7078	11470	19653	9142	5133
67.5°	4146	4628	4823	3896	4341	7424	7596	11315	18653	10206	5619
70°	3919	4396	4546	3737	4028	6719	7460	10429	16411	10347	5560
72.5°	3555	4005	4132	3400	3478	5774	6910	9365	14102	9942	5360
75°	3055	3450	3519	2928	2869	4482	5837	7837	10920	8706	4869
77.5°	2600	2937	2950	2487	2382	3337	4678	6665	8788	7142	4110
80°	1982	2228	2218	1891	1814	2191	3046	4964	6446	5242	3087
82.5°	1427	1591	1600	1341	1287	1382	1637	3491	4551	3419	2018
85°	891	973	991	827	827	796	832	2055	2664	1900	1146
87.5°	546	582	618	518	527	518	555	1132	1405	1114	732
90°	436	459	486	436	446	441	477	777	959	823	568
95°	309	323	350	323	314	309	332	496	596	523	355
105°	218	223	232	218	205	195	173	300	350	286	195
115°	136	145	150	145	145	141	105	255	332	191	114
125°	100	105	105	105	100	118	82	205	359	132	86
135°	73	77	73	68	59	73	68	214	195	59	45
145°	55	55	45	45	32	32	55	173	77	27	23
155°	18	18	14	9	9	9	23	32	23	9	9
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°	155	155	155	155	155	155	155	155	155	155
2.5°	159	155	150	145	141	141	141	136	132	127
5°	141	136	127	127	123	114	105	105	109	109
7.5°	150	141	136	127	132	127	123	118	114	118
10°	186	168	159	150	150	150	141	141	145	145
12.5°	350	268	227	214	214	214	209	214	214	218
15°	341	300	273	250	259	255	259	250	245	245
17.5°	327	300	277	268	273	277	286	277	259	264
20°	327	286	282	282	282	295	295	286	282	282
22.5°	346	295	286	291	305	314	305	305	314	309
25°	368	327	327	332	341	341	336	341	350	346
27.5°	382	350	350	359	373	368	364	368	373	373
30°	368	359	377	382	391	386	391	391	396	400
32.5°	464	446	468	477	486	486	486	477	486	482
35°	450	423	455	468	473	486	491	486	486	491
37.5°	450	459	486	473	473	482	500	496	500	509
40°	509	541	577	546	546	546	564	582	573	573
42.5°	582	636	686	655	664	659	682	686	682	682
45°	623	718	782	759	764	764	786	777	759	755
47.5°	700	841	900	886	896	905	923	877	841	836
50°	814	1005	1077	1050	1055	1073	1068	1005	950	946
52.5°	977	1137	1277	1250	1264	1264	1282	1155	1091	1091
55°	1150	1291	1496	1464	1505	1509	1609	1405	1350	1364
57.5°	1405	1487	1750	1741	1832	1782	1941	1728	1650	1655
60°	2018	1846	2278	2268	2337	2278	2500	2300	2155	2118
62.5°	3073	2423	3210	3219	3214	3123	3460	3337	3114	3082
65°	4005	2823	3896	3901	3841	3778	4132	4187	3928	3910
67.5°	4528	2873	4146	4105	4037	4060	4392	4560	4201	4210
70°	4551	2728	3973	3923	3901	3969	4287	4523	4178	4146
72.5°	4360	2541	3641	3600	3600	3678	4014	4246	4005	3937
75°	3878	2218	3119	3073	3073	3160	3473	3682	3528	3446
77.5°	3050	1837	2509	2473	2455	2559	2819	3023	2955	2855
80°	2096	1377	1768	1750	1732	1814	2005	2200	2196	2118
82.5°	1227	900	1087	1055	1041	1082	1218	1355	1409	1391
85°	727	586	668	609	591	618	696	782	814	818
87.5°	496	405	450	423	414	423	468	500	509	500
90°	396	332	373	364	359	373	386	414	405	400
95°	255	232	268	264	268	277	300	309	314	300
105°	155	150	186	168	195	195	218	223	209	200
115°	95	95	132	127	136	136	136	141	127	127
125°	73	73	91	91	95	95	95	91	86	91
135°	45	45	55	55	59	59	59	50	50	55
145°	23	18	27	23	27	23	27	27	23	27
155°	5	9	5	0	5	5	9	5	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)