

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: 768870

Luminaire Tested: **ARC25SXX33X4XR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768870
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC25SXX33X4XR
Description: GENERATIONS POST TOP
W/TALL SPUN TOP
Light Source: 250 WATT HPS CLEAR E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 27500 (1 lamp)
Luminaire Lumens: 21186.8 lumens
Efficiency: 77.0%
Efficacy: 84.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B4 - U5 - G5

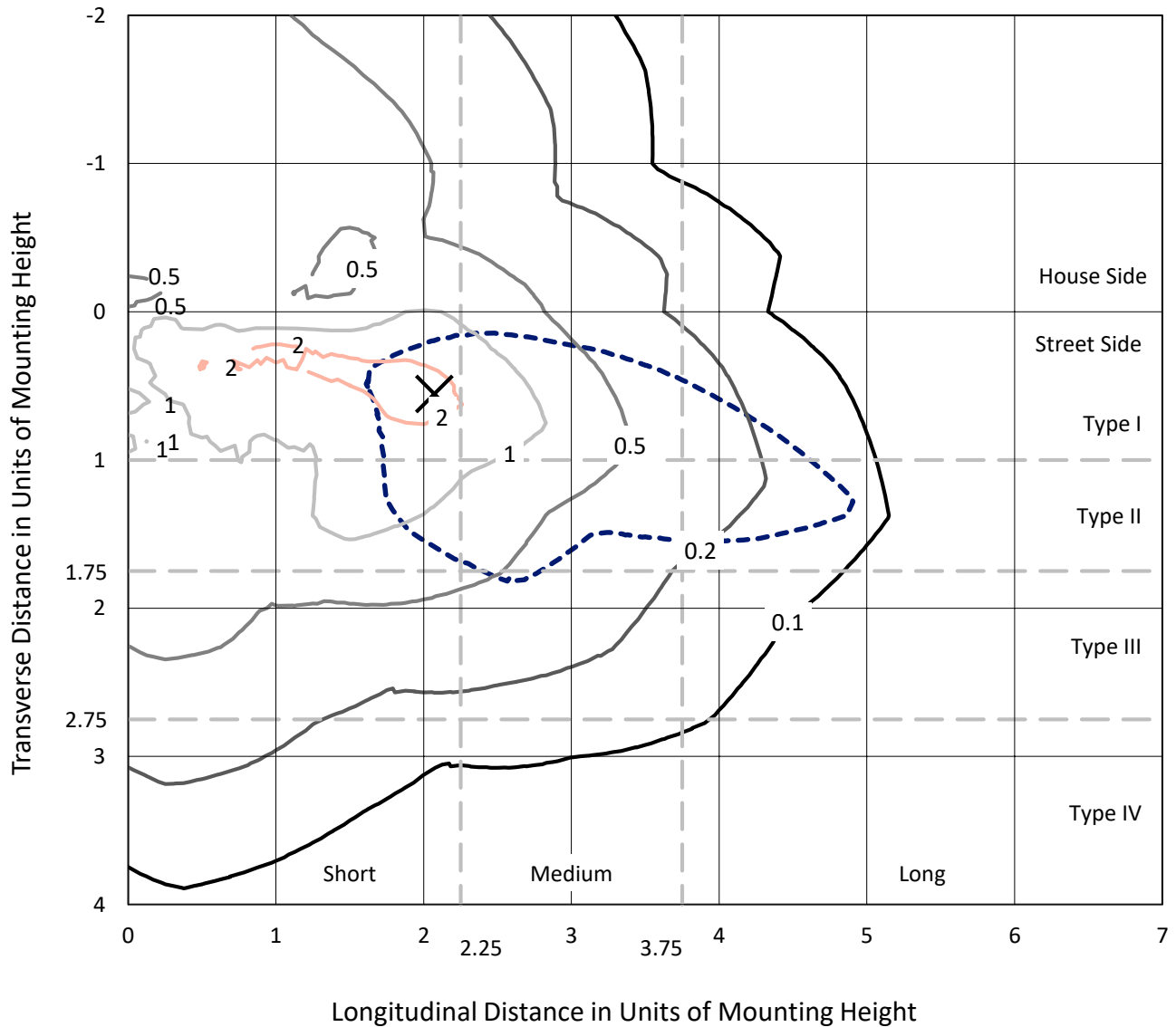
Input Watts (W): 250
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

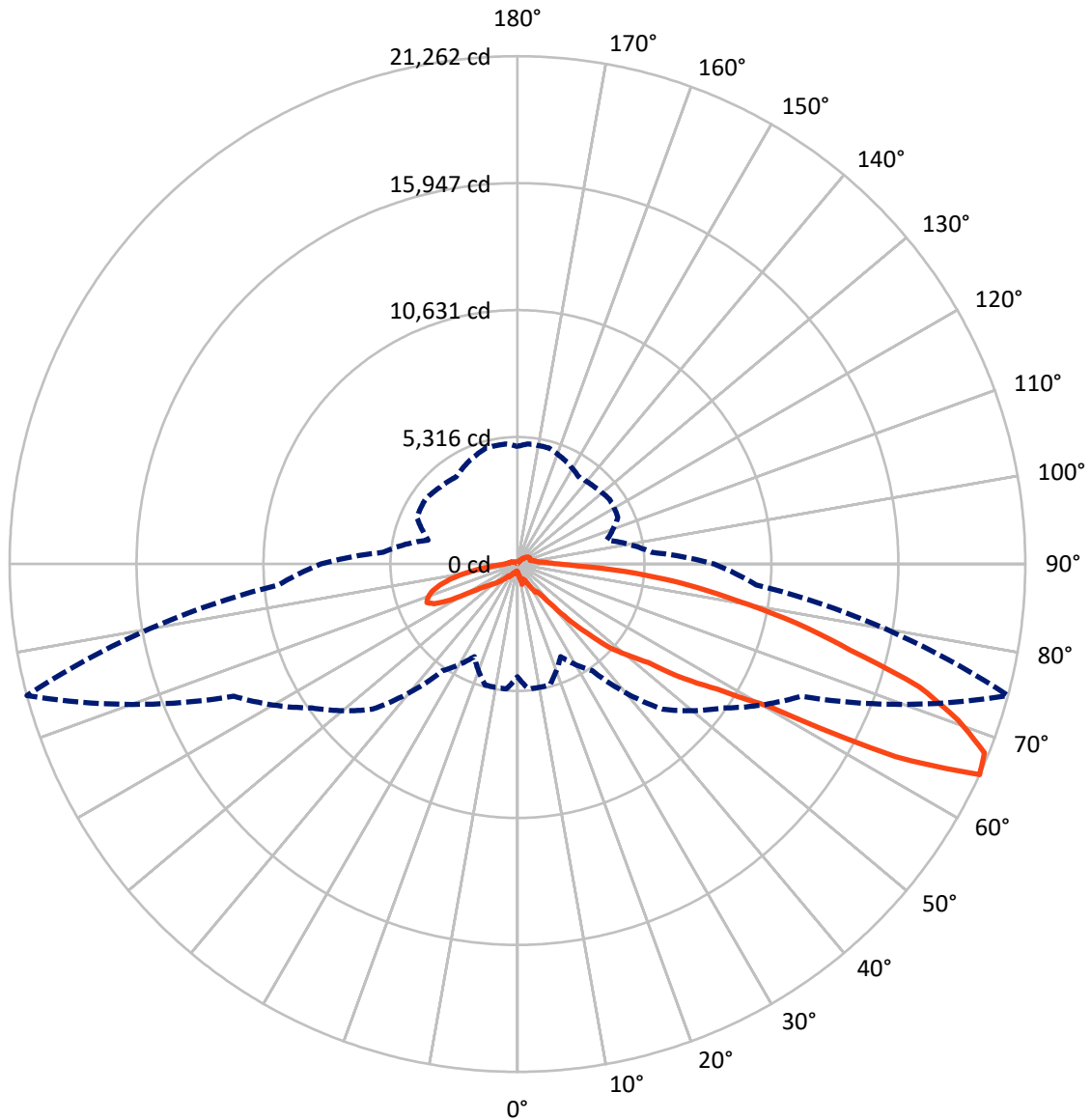
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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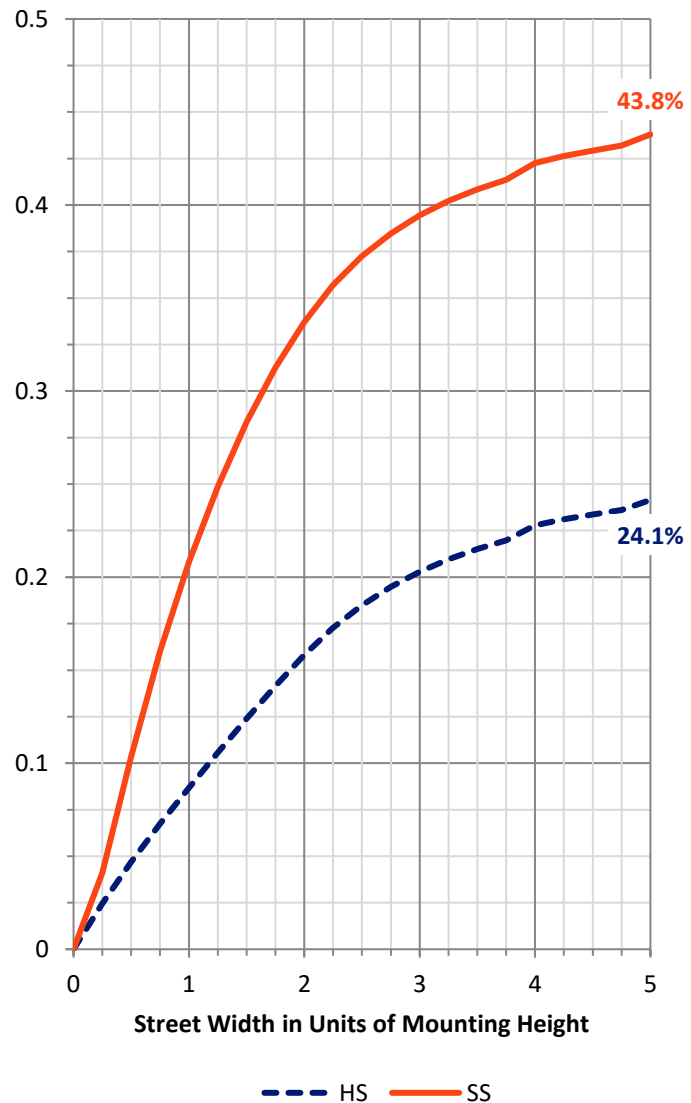
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6947.3	745.8	7693.1
	% Lamp	25.3	2.7	28.0
Street Side	Lumens	12497.9	995.8	13493.7
	% Lamp	45.4	3.6	49.1
Total	Lumens	19445.2	1741.6	21186.8
	% Lamp	70.7	6.3	77.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	38.0	0.2	0.1
10°-20°	172.6	0.8	0.6
20°-30°	349.5	1.6	1.3
30°-40°	662.2	3.1	2.4
40°-50°	1219.2	5.8	4.4
50°-60°	2437.8	11.5	8.9
60°-70°	6381.8	30.1	23.2
70°-80°	5980.2	28.2	21.7
80°-90°	2203.8	10.4	8.0
90°-100°	619.7	2.9	2.3
100°-110°	413.1	1.9	1.5
110°-120°	293.8	1.4	1.1
120°-130°	204.7	1.0	0.7
130°-140°	129.1	0.6	0.5
140°-150°	67.5	0.3	0.2
150°-160°	23.7	0.1	0.1
160°-170°	4.1	0.0	0.0
170°-180°	0.2	0.0	0.0
0°-90°	19445.2	91.8	70.7
0°-180°	21186.8	100.0	77.0



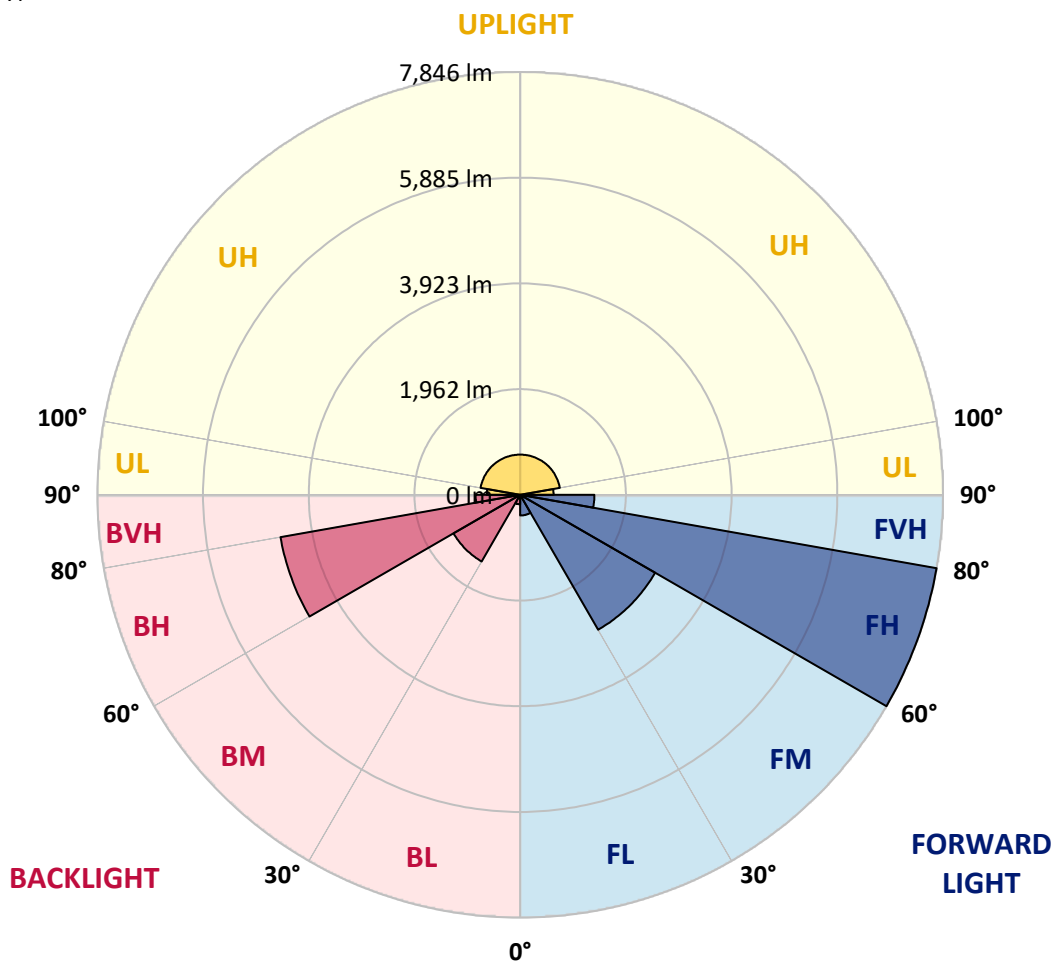
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.4	1.4			
FM (30°-60°)	2891.2	10.5			
FH (60°-80°)	7846.0	28.5			G4/12000
FVH (80°-90°)	1376.3	5.0			G5
BL (0°-30°)	175.7	0.6	B1/500		
BM (30°-60°)	1428.0	5.2	B2/2500		
BH (60°-80°)	4516.1	16.4	B4/5000		G4/5000
BVH (80°-90°)	827.5	3.0			G5
UL (90°-100°)	619.7	2.3		U4/1000	
UH (100°-180°)	745.8	2.7		U4/1000	
Trapped Light	6313.2	23.0			

BUG Rating: B4-U5-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	346	346	346	346	346	346	346	346	346	346	346
2.5°	382	386	386	386	382	386	382	377	364	364	359
5°	500	496	505	509	500	496	500	496	459	405	373
7.5°	536	546	600	646	655	650	641	627	568	477	441
10°	482	491	527	582	646	691	691	614	514	436	396
12.5°	618	655	782	946	1196	1359	1359	1168	877	632	536
15°	591	618	705	873	1100	1250	1268	1055	800	605	527
17.5°	546	550	586	791	987	1096	1096	923	705	541	486
20°	536	536	582	764	973	1123	1055	873	668	523	468
22.5°	646	627	664	818	1046	1241	1218	1041	741	564	496
25°	755	727	746	877	1168	1414	1432	1246	800	577	514
27.5°	918	873	836	918	1287	1541	1614	1509	950	655	564
30°	1100	1055	973	1027	1487	1759	1850	1918	1177	705	586
32.5°	1137	1100	973	1055	1577	1887	2228	2478	1418	809	691
35°	991	964	850	859	1318	1437	1723	2250	1423	841	700
37.5°	1127	1109	991	914	1500	1477	1596	2541	1718	814	677
40°	1437	1387	1255	1100	1900	1773	1905	3069	2359	868	727
42.5°	1682	1637	1473	1255	2168	1987	2150	3273	3305	1023	836
45°	1691	1655	1468	1237	2100	1982	2118	2832	4187	1223	955
47.5°	1782	1714	1532	1291	2209	2123	2282	2655	5278	1559	1087
50°	1937	1846	1668	1405	2405	2314	2469	2650	5987	2009	1323
52.5°	2237	2096	1850	1555	2746	2682	2859	2964	6860	2578	1646
55°	2682	2505	2168	1809	3237	3191	3441	3601	8469	3196	2055
57.5°	2846	2759	2450	2009	3455	3628	3982	4419	9870	4105	2846
60°	3210	3305	3100	2496	3946	4705	5514	6533	12093	5683	4378
62.5°	4164	4510	4446	3560	4969	7096	8515	10783	17780	8028	6469
65°	4719	5246	5242	4273	5451	8601	10506	13102	21262	10038	8224
67.5°	4655	5255	5228	4428	5292	8492	11133	13011	21085	11015	8915
70°	4464	5096	4964	4323	4851	7906	11029	12138	19580	11015	8474
72.5°	4137	4787	4564	4010	4201	7151	10461	11211	17593	10592	7615
75°	3655	4251	3978	3596	3505	5978	9138	9815	14384	9483	6455
77.5°	3210	3732	3450	3169	3005	4882	7897	8674	11952	8042	5228
80°	2564	2982	2737	2555	2423	3660	6192	6874	9324	6351	4051
82.5°	1973	2300	2091	1987	1850	2728	4560	5287	7196	4623	2873
85°	1337	1537	1423	1377	1282	1805	2991	3541	4960	2873	1782
87.5°	809	900	868	836	791	1055	1691	1923	2559	1618	1091
90°	618	668	655	636	618	764	1137	1223	1541	1127	796
95°	446	477	473	464	450	518	709	750	891	723	509
105°	346	350	350	327	327	350	432	464	555	436	341
115°	227	245	250	232	218	255	377	509	573	309	273
125°	182	186	191	182	177	214	268	482	509	255	195
135°	155	155	141	127	127	145	195	450	305	136	114
145°	109	109	100	91	91	91	150	359	159	86	73
155°	45	45	45	41	36	50	73	95	82	41	36
165°	9	14	14	9	5	9	14	9	9	5	0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	9	14	14	0	0	5	14	5	5	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°	346	346	346	346	346	346	346	346	346	346
2.5°	346	314	295	282	277	277	277	273	259	264
5°	350	291	250	218	195	186	191	209	223	227
7.5°	400	332	286	255	227	214	214	223	227	227
10°	368	327	291	268	259	250	250	250	259	264
12.5°	468	373	332	323	318	314	314	314	314	309
15°	482	418	377	355	359	368	368	373	373	373
17.5°	455	405	373	364	364	368	386	391	396	391
20°	436	382	364	368	377	382	396	400	400	400
22.5°	450	400	405	405	414	427	427	423	427	418
25°	477	446	441	450	459	473	464	464	464	455
27.5°	523	505	505	523	536	541	536	532	523	509
30°	541	550	555	582	586	600	596	582	573	564
32.5°	641	632	659	691	705	696	686	673	668	673
35°	623	600	627	664	686	696	691	686	682	673
37.5°	627	632	664	682	696	691	696	696	696	691
40°	700	732	777	791	786	777	786	786	764	755
42.5°	809	873	909	914	914	909	909	914	886	882
45°	918	987	1009	1000	1014	1009	1018	1009	1009	1000
47.5°	1005	1109	1127	1105	1096	1137	1150	1114	1132	1118
50°	1127	1259	1296	1264	1255	1282	1318	1277	1273	1282
52.5°	1318	1391	1496	1468	1482	1464	1564	1459	1423	1464
55°	1573	1591	1741	1718	1750	1714	1868	1796	1723	1746
57.5°	1973	1878	2055	2041	2091	2028	2228	2241	2100	2091
60°	2814	2423	2673	2678	2696	2614	2837	2955	2764	2700
62.5°	4219	3237	3769	3828	3769	3628	3932	4105	3964	3837
65°	5633	3869	4642	4714	4564	4460	4764	5033	5046	4928
67.5°	6633	4119	4992	5046	4851	4837	5101	5455	5592	5464
70°	7037	3996	4878	4887	4746	4787	5019	5446	5705	5528
72.5°	7187	3773	4582	4578	4510	4523	4778	5210	5619	5428
75°	6815	3400	4082	4055	3969	3987	4255	4632	5096	4946
77.5°	5769	2932	3473	3419	3350	3378	3610	3932	4360	4301
80°	4446	2337	2714	2682	2623	2628	2796	3046	3387	3410
82.5°	3000	1691	1937	1937	1882	1846	1964	2123	2355	2428
85°	1778	1141	1287	1296	1273	1241	1287	1377	1500	1555
87.5°	1087	741	823	823	814	796	823	855	923	946
90°	805	555	600	591	586	582	600	636	682	700
95°	518	386	427	432	427	432	446	468	509	518
105°	355	282	309	323	359	377	373	386	400	400
115°	236	227	245	259	264	255	255	259	259	264
125°	164	173	186	191	195	195	195	195	191	182
135°	114	114	127	132	141	136	132	127	127	127
145°	77	82	86	86	91	95	91	86	86	82
155°	27	27	32	27	36	36	36	32	27	27
165°	0	0	0	0	5	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	5	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)