

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: 768227

Luminaire Tested: **ACN17MXX33X1XR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768227
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN17MXX33X1XR
Description: REFRACTIVE GLOBE TYPE III
ACRYLIC WITH CLEAR TOP
AND DOWNLIGHT REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 12539.9 lumens
Efficiency: 89.6%
Efficacy: 71.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B4 - U5 - G4

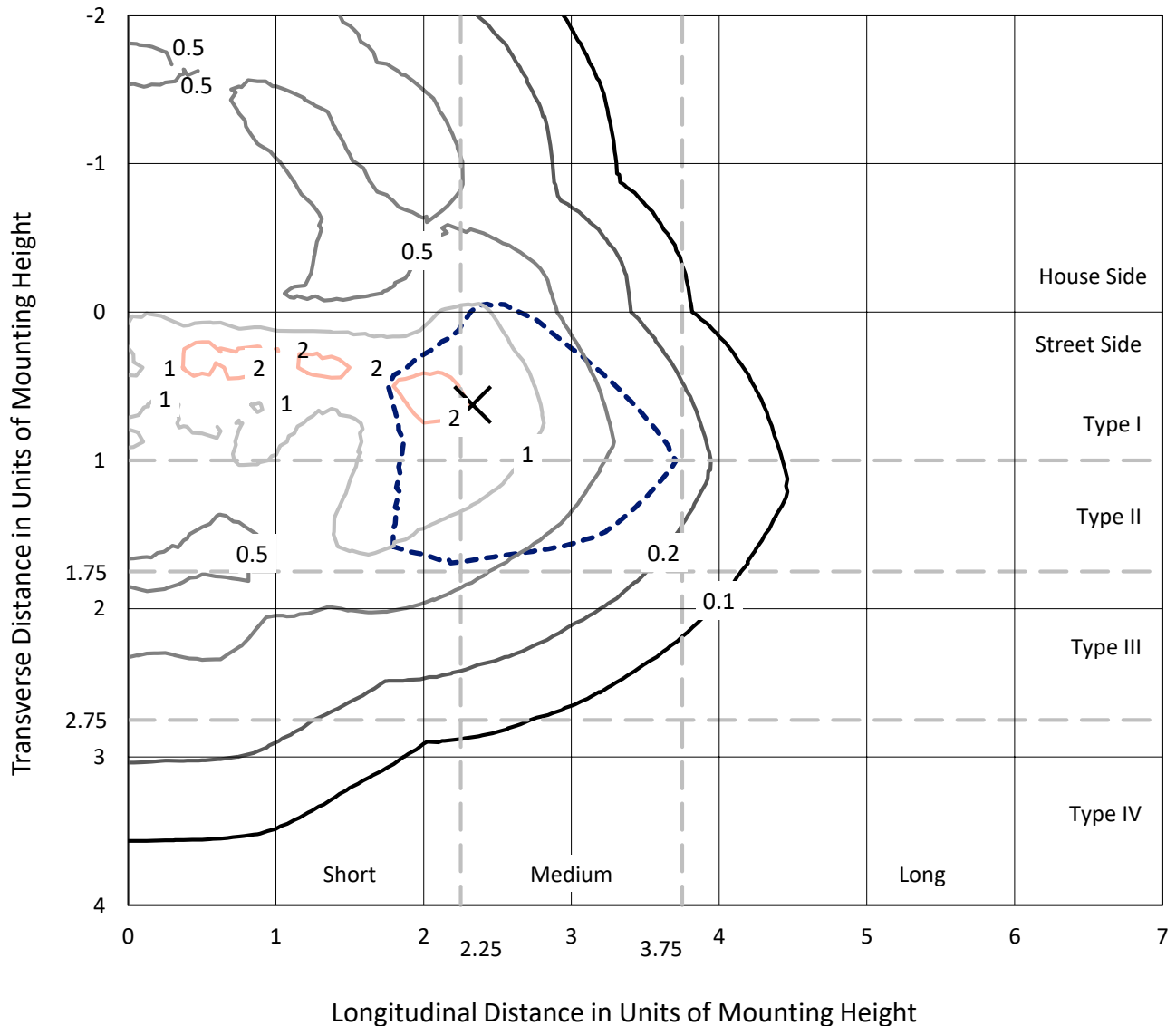
Input Watts (W): 175
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

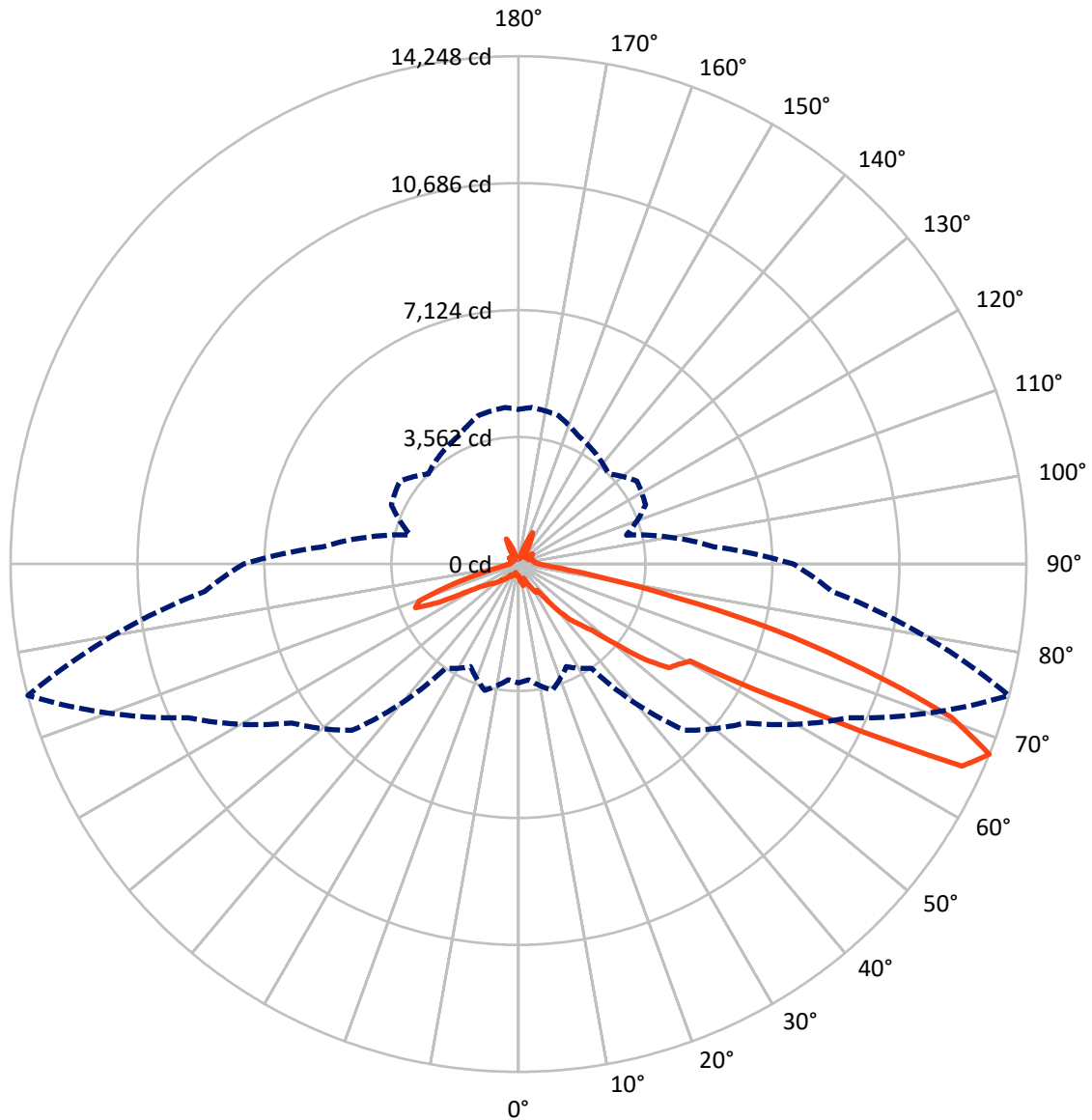
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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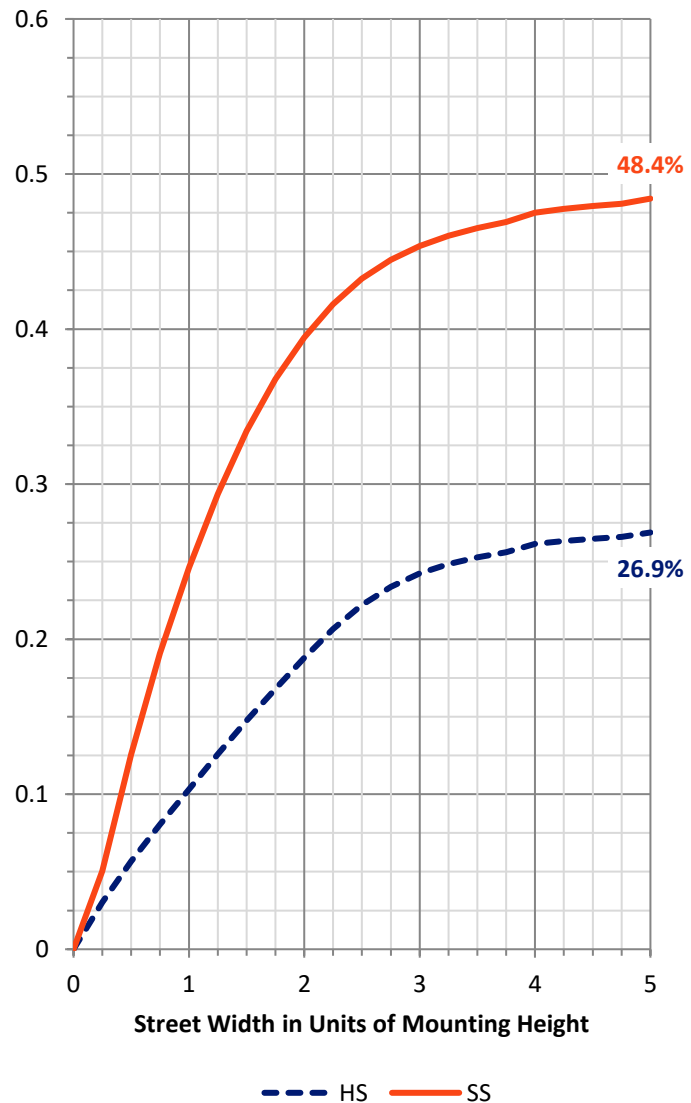
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3842.8	779.1	4621.9
	% Lamp	27.4	5.6	33.0
Street Side	Lumens	6907.7	1010.3	7918.0
	% Lamp	49.3	7.2	56.6
Total	Lumens	10750.5	1789.4	12539.9
	% Lamp	76.8	12.8	89.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	37.4	0.3	0.3
10°-20°	118.8	0.9	0.8
20°-30°	259.7	2.1	1.9
30°-40°	459.9	3.7	3.3
40°-50°	755.3	6.0	5.4
50°-60°	1420.4	11.3	10.1
60°-70°	4138.9	33.0	29.6
70°-80°	2963.8	23.6	21.2
80°-90°	596.4	4.8	4.3
90°-100°	326.1	2.6	2.3
100°-110°	275.0	2.2	2.0
110°-120°	245.5	2.0	1.8
120°-130°	227.6	1.8	1.6
130°-140°	176.2	1.4	1.3
140°-150°	221.3	1.8	1.6
150°-160°	218.3	1.7	1.6
160°-170°	82.3	0.7	0.6
170°-180°	13.0	0.1	0.1
0°-90°	10750.5	85.7	76.8
0°-180°	12539.9	100.0	89.6



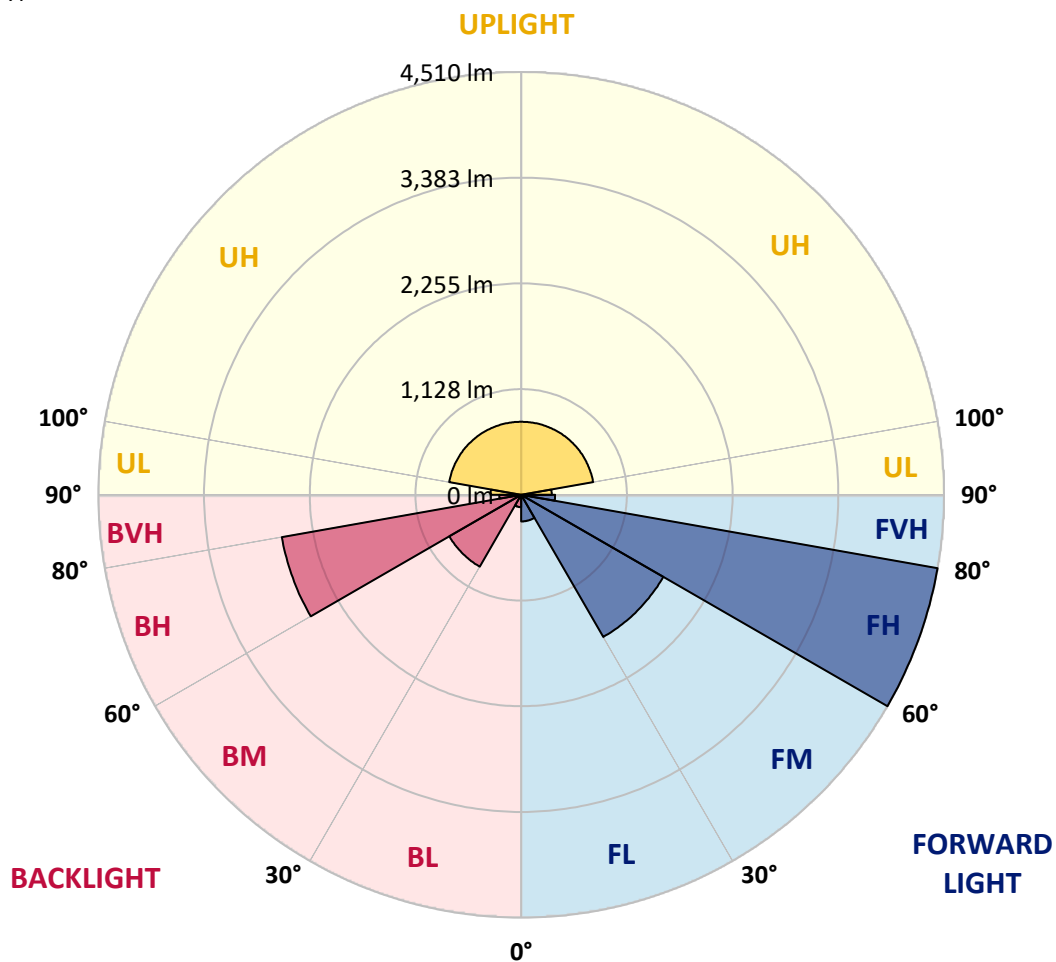
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.0	2.0			
FM (30°-60°)	1750.9	12.5			
FH (60°-80°)	4510.3	32.2			G2/5000
FVH (80°-90°)	362.4	2.6			G3/500
BL (0°-30°)	131.8	0.9	B1/500		
BM (30°-60°)	884.7	6.3	B1/1000		
BH (60°-80°)	2592.4	18.5	B4/5000		G4/5000
BVH (80°-90°)	234.0	1.7			G3/500
UL (90°-100°)	326.1	2.3		U3/500	
UH (100°-180°)	779.1	5.6		U4/1000	
Trapped Light	1460.1	10.4			

BUG Rating: B4-U5-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	341	341	341	341	341	341	341	341	341	341	341
2.5°	399	399	399	399	394	389	379	375	360	345	336
5°	438	443	462	501	530	535	516	491	457	423	399
7.5°	448	452	501	584	647	671	647	593	516	423	394
10°	389	399	467	530	603	632	623	574	496	399	365
12.5°	467	486	603	720	885	987	958	788	618	496	438
15°	409	418	506	598	705	754	686	584	462	365	336
17.5°	389	404	438	540	671	671	618	525	423	336	297
20°	399	409	438	574	652	705	676	555	428	341	316
22.5°	477	482	491	623	725	871	900	744	530	389	350
25°	574	569	555	666	846	1056	1143	987	652	433	384
27.5°	739	730	686	744	963	1148	1240	1211	725	462	409
30°	720	696	671	696	953	1313	1454	1639	880	506	433
32.5°	730	710	652	696	1041	1255	1591	1849	949	555	486
35°	564	555	525	550	783	958	1075	1518	905	540	448
37.5°	808	778	705	715	1085	1197	1236	2082	1231	535	433
40°	1022	963	866	866	1270	1377	1372	2559	1712	579	491
42.5°	1022	973	842	856	1250	1304	1274	2374	2126	657	555
45°	915	910	803	773	1075	1104	1075	1771	2427	769	613
47.5°	973	963	851	842	1211	1289	1265	1610	2773	949	671
50°	1226	1226	1095	1046	1532	1581	1605	1824	3483	1240	846
52.5°	1518	1459	1240	1167	1800	1892	1883	2043	4446	1566	1022
55°	1537	1450	1231	1202	1873	2058	2048	2228	5132	1960	1240
57.5°	1440	1440	1270	1129	1741	1892	1960	2359	5302	2413	1625
60°	1440	1416	1450	1289	1868	2281	2495	2972	5531	2924	2243
62.5°	2101	2033	2140	1912	2831	3814	4310	4903	8693	3804	3079
65°	3045	2953	3235	2821	3682	6076	6470	8104	13674	6455	5507
67.5°	3337	3259	3668	3177	3575	6596	7773	10211	14248	8834	7710
70°	3123	3084	3444	3011	3177	5331	7705	10439	12881	8445	6669
72.5°	2403	2403	2627	2354	2374	3833	5760	8479	10167	6353	4359
75°	1887	1912	2048	1824	1780	2802	4261	6280	7472	4208	2583
77.5°	1206	1245	1299	1197	1158	1722	2627	3707	4524	2466	1508
80°	710	739	788	735	735	1046	1562	2082	2515	1518	992
82.5°	467	482	511	491	496	671	944	1221	1445	997	691
85°	370	384	399	384	384	491	657	808	924	720	521
87.5°	321	326	345	336	341	413	521	613	681	574	433
90°	292	297	306	311	321	365	438	501	564	482	350
95°	233	243	253	253	248	277	336	394	448	365	268
105°	233	243	238	224	224	258	297	355	413	316	258
115°	175	175	175	165	161	170	195	272	292	199	190
125°	311	341	336	360	336	384	423	496	486	341	282
135°	175	175	175	161	156	156	175	326	243	156	146
145°	311	326	316	336	306	326	287	360	306	209	190
155°	924	880	866	900	978	866	987	939	968	783	574
165°	156	161	151	161	165	156	170	161	151	126	126



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	156	161	151	161	165	156	170	161	151	126	126
180°	136	136	136	136	136	136	136	136	136	136	136



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	341	341	341	341	341	341	341	341	341	341
2.5°	336	321	311	302	297	287	282	277	277	282
5°	379	341	311	287	277	268	268	263	253	253
7.5°	365	321	282	263	248	238	233	233	238	243
10°	336	292	268	253	238	233	233	238	233	243
12.5°	394	326	287	268	258	253	258	258	263	263
15°	311	282	263	248	243	243	248	258	263	263
17.5°	277	253	243	238	238	243	253	258	263	263
20°	287	263	253	253	258	263	268	263	268	263
22.5°	331	302	297	297	302	297	302	297	287	282
25°	355	336	336	345	365	375	379	370	341	341
27.5°	375	365	370	384	399	399	394	379	360	360
30°	404	399	413	428	433	423	418	418	409	409
32.5°	438	418	428	448	467	462	457	452	452	457
35°	399	370	389	404	409	423	433	438	433	438
37.5°	418	428	457	467	467	467	462	467	462	457
40°	486	525	545	540	550	545	540	535	525	525
42.5°	545	589	598	584	598	593	589	584	589	593
45°	569	618	618	598	623	608	618	613	637	632
47.5°	613	681	681	652	686	705	710	686	681	691
50°	735	803	822	769	822	851	856	837	803	827
52.5°	842	880	953	915	944	973	1046	968	958	983
55°	934	953	1075	1056	1065	1060	1163	1143	1129	1148
57.5°	1138	1090	1221	1202	1211	1202	1313	1304	1240	1236
60°	1450	1255	1435	1450	1411	1440	1581	1591	1489	1459
62.5°	2092	1703	2048	2136	2024	2121	2291	2340	2228	2218
65°	3668	2525	3138	3279	2997	3069	3245	3512	3473	3464
67.5°	5516	3138	3935	4057	3575	3780	3969	4315	4407	4339
70°	5711	2972	3673	3765	3366	3614	3775	4115	4339	4203
72.5°	4198	2184	2646	2710	2495	2530	2666	2919	3162	3113
75°	2427	1435	1703	1761	1688	1678	1703	1839	1975	1965
77.5°	1425	915	1075	1095	1080	1070	1080	1133	1192	1187
80°	953	613	681	676	657	652	662	676	715	710
82.5°	676	438	477	467	452	448	462	486	516	516
85°	511	355	375	365	360	360	375	394	418	418
87.5°	423	297	321	316	311	316	321	341	365	360
90°	350	268	287	282	287	287	302	316	336	331
95°	272	219	243	243	248	248	258	268	282	282
105°	268	224	248	282	316	326	306	306	321	321
115°	165	165	175	170	170	175	175	180	175	175
125°	302	302	326	287	302	277	238	229	209	204
135°	156	151	156	146	146	136	141	136	131	136
145°	209	190	185	180	190	180	180	165	156	165
155°	739	783	735	613	618	535	521	491	428	467
165°	136	141	136	122	107	107	97	97	107	107



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	136	141	136	122	107	107	97	97	107	107
180°	136	136	136	136	136	136	136	136	136	136

(END OF REPORT)