

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: 768739

Luminaire Tested: **ACN17MXX5511XR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768739
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN17MXX5511XR
Description: 175WATT MH TYPE V REFRACTIVE GLOBE
W/CLEAR TOP & CAGE
Light Source: 175 WATT MH CLEAR ED-28
Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 9412.7 lumens
Efficiency: 67.2%
Efficacy: 53.8 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Medium - Non-Cutoff
BUG Rating: B4 - U5 - G3

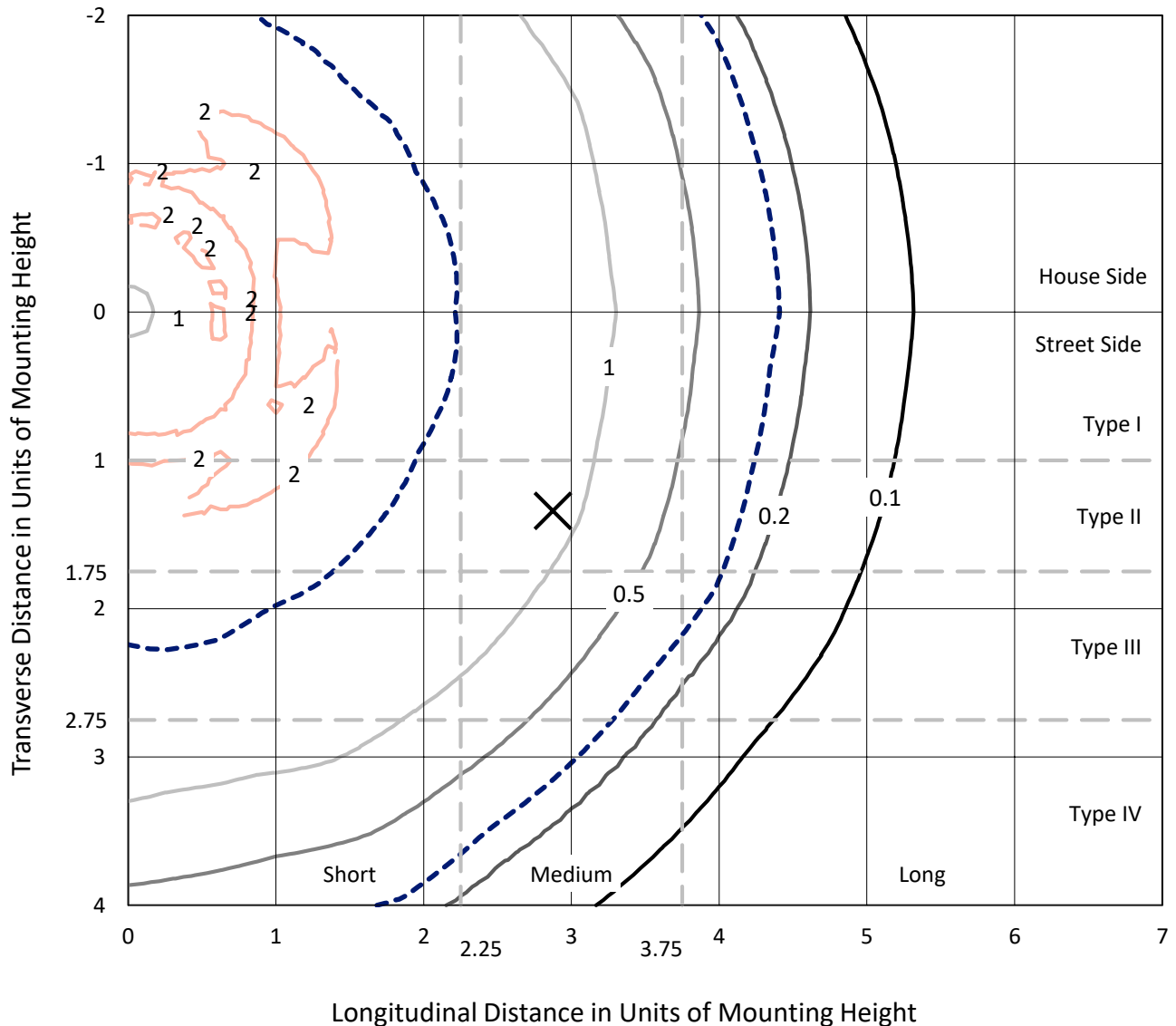
Input Watts (W): 175
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

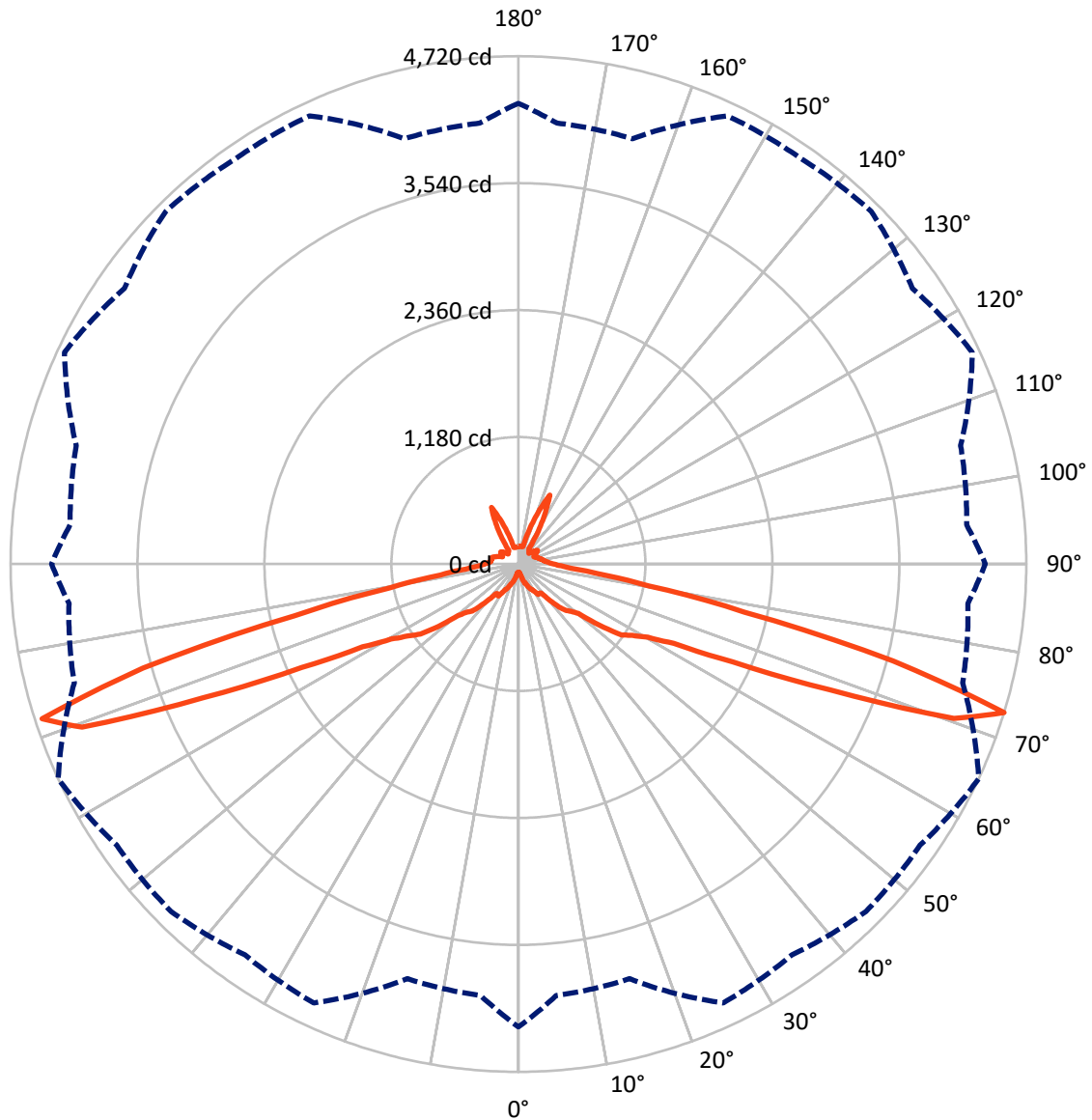
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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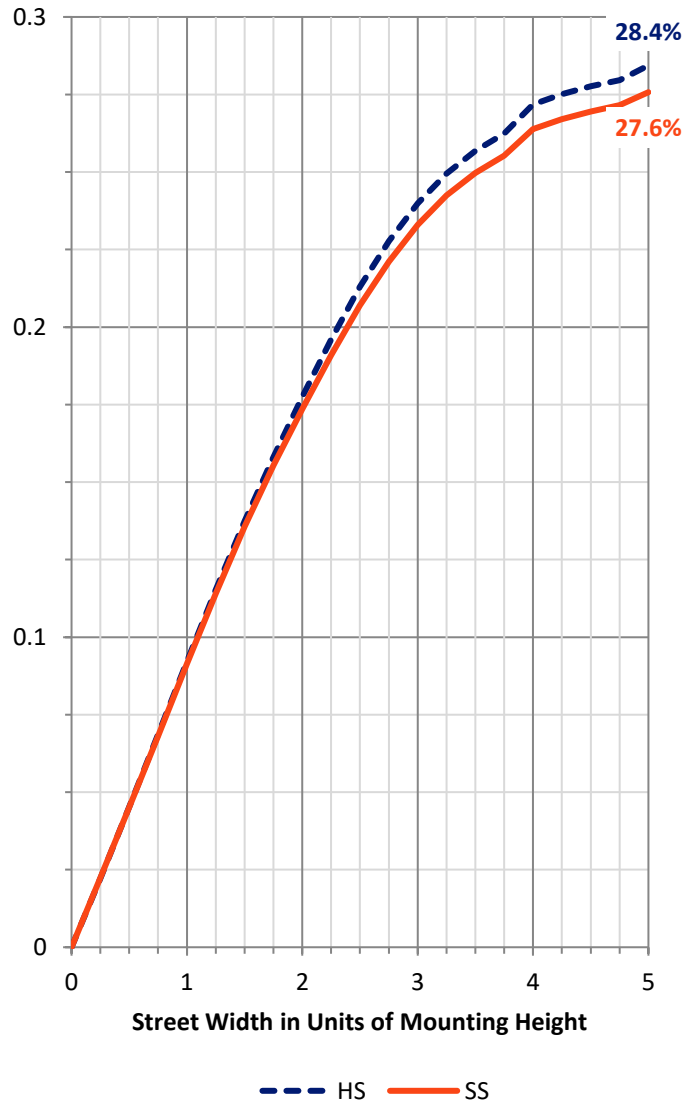
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4058.5	682.7	4741.2
	% Lamp	29.0	4.9	33.9
Street Side	Lumens	3978.1	693.5	4671.5
	% Lamp	28.4	5.0	33.4
Total	Lumens	8036.6	1376.1	9412.7
	% Lamp	57.4	9.8	67.2

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	8.3	0.1	0.1
10°-20°	43.8	0.5	0.3
20°-30°	113.6	1.2	0.8
30°-40°	216.0	2.3	1.5
40°-50°	450.4	4.8	3.2
50°-60°	957.2	10.2	6.8
60°-70°	2341.8	24.9	16.7
70°-80°	3286.4	34.9	23.5
80°-90°	619.1	6.6	4.4
90°-100°	275.8	2.9	2.0
100°-110°	209.4	2.2	1.5
110°-120°	172.6	1.8	1.2
120°-130°	152.7	1.6	1.1
130°-140°	121.9	1.3	0.9
140°-150°	170.8	1.8	1.2
150°-160°	183.1	1.9	1.3
160°-170°	79.1	0.8	0.6
170°-180°	15.5	0.2	0.1
0°-90°	8036.6	85.4	57.4
0°-180°	9412.7	100.0	67.2



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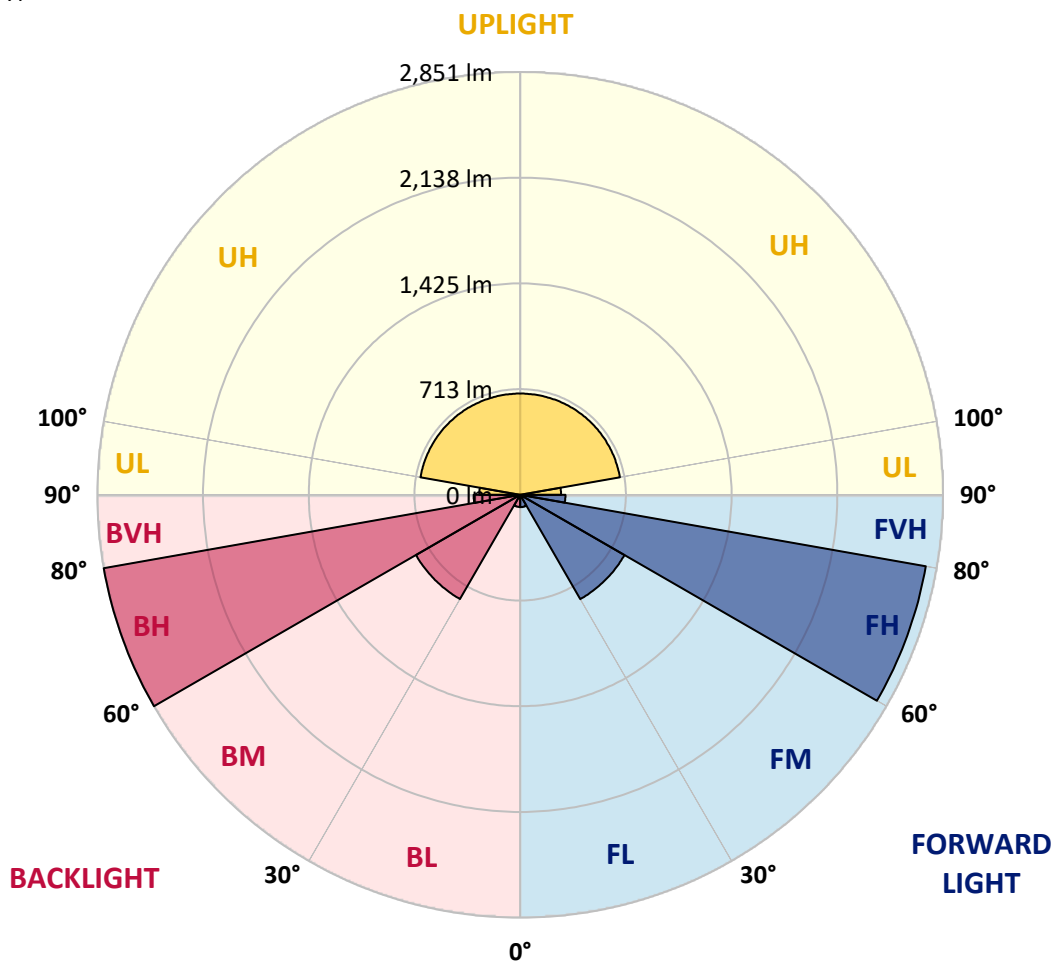
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	83.7	0.6			
FM (30°-60°)	812.0	5.8			
FH (60°-80°)	2777.2	19.8			G2/5000
FVH (80°-90°)	305.2	2.2			G3/500
BL (0°-30°)	82.0	0.6	B0/110		
BM (30°-60°)	811.6	5.8	B1/1000		
BH (60°-80°)	2851.0	20.4	B4/5000		G2/5000
BVH (80°-90°)	314.0	2.2			G3/500
UL (90°-100°)	275.8	2.0		U3/500	
UH (100°-180°)	682.7	4.9		U4/1000	
Trapped Light	4587.3	32.8			

BUG Rating: B4-U5-G3

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	78	78	78	78	78	78	78	78	78	78	78
2.5°	76	76	78	79	80	79	79	79	78	77	76
5°	73	74	75	76	79	80	80	78	77	76	75
7.5°	86	86	87	88	91	92	91	91	88	88	87
10°	101	100	102	101	103	103	103	103	103	102	102
12.5°	131	129	128	126	126	125	125	124	127	129	128
15°	163	165	162	160	157	154	151	152	155	153	151
17.5°	176	176	177	180	181	181	182	183	182	178	178
20°	177	177	185	192	194	193	194	193	190	186	184
22.5°	211	210	211	215	217	220	222	225	227	224	222
25°	251	248	242	243	250	255	256	255	258	259	257
27.5°	266	263	263	260	267	272	271	270	276	276	276
30°	281	278	277	278	280	287	290	295	303	302	303
32.5°	327	325	328	323	319	323	330	338	344	349	346
35°	340	337	330	323	320	320	327	334	337	335	341
37.5°	356	351	338	329	330	325	331	342	346	343	340
40°	466	467	444	428	392	388	398	430	451	445	444
42.5°	559	563	543	517	513	515	509	531	536	542	543
45°	585	603	583	610	617	625	618	614	599	590	590
47.5°	552	570	617	649	668	677	665	656	617	576	566
50°	596	604	671	708	724	743	730	721	680	625	612
52.5°	832	825	868	915	944	951	946	942	876	849	838
55°	1047	1033	1058	1103	1172	1199	1201	1163	1090	1076	1037
57.5°	1118	1132	1159	1194	1254	1278	1266	1250	1174	1165	1145
60°	1244	1259	1277	1369	1395	1417	1391	1383	1303	1256	1268
62.5°	1413	1388	1406	1562	1593	1626	1617	1621	1489	1440	1482
65°	1965	1854	1860	2087	2023	2075	2111	2191	2048	1990	2078
67.5°	2922	2711	2689	2993	2863	2966	2994	3117	2955	2916	3016
70°	3923	3651	3631	4098	4040	4157	4130	4295	3968	3939	4077
72.5°	4302	4026	3990	4501	4433	4566	4557	4720	4274	4193	4339
75°	3422	3260	3154	3531	3384	3438	3483	3598	3357	3305	3417
77.5°	2174	2095	1963	2110	1909	1928	1952	2146	2127	2143	2201
80°	1310	1247	1148	1165	1004	1021	1058	1225	1305	1331	1361
82.5°	755	726	686	703	612	609	642	736	769	778	799
85°	460	450	436	458	436	442	454	489	481	488	499
87.5°	338	334	330	350	345	352	360	375	359	363	368
90°	281	279	276	293	292	298	305	312	300	301	302
95°	230	227	230	240	238	240	244	252	243	243	243
105°	170	169	173	179	172	174	176	198	201	202	209
115°	136	137	143	149	146	147	150	157	152	146	144
125°	198	199	200	198	207	213	206	218	214	198	196
135°	129	133	138	139	142	141	136	139	139	137	135
145°	164	166	171	178	190	194	172	173	170	167	166
155°	650	647	614	613	639	671	655	704	729	688	662
165°	180	179	172	169	166	159	164	167	167	167	166



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	180	179	172	169	166	159	164	167	167	167	166
180°	163	163	163	163	163	163	163	163	163	163	163



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	78	78	78	78	78	78	78	78	78	78
2.5°	76	78	78	78	76	77	76	74	72	72
5°	74	75	78	79	79	77	76	73	72	72
7.5°	87	88	90	90	91	89	88	85	85	84
10°	102	103	103	104	104	105	104	103	102	102
12.5°	127	127	127	129	131	133	134	135	138	139
15°	148	147	150	153	152	151	150	151	148	149
17.5°	175	173	173	171	169	166	165	160	157	156
20°	187	188	191	191	187	184	178	173	170	169
22.5°	219	216	217	216	214	208	201	199	197	196
25°	255	250	249	252	248	241	234	234	233	234
27.5°	271	267	268	273	273	266	260	257	257	257
30°	303	300	304	301	300	299	291	290	287	287
32.5°	346	350	351	351	353	356	355	352	348	348
35°	337	333	338	337	339	336	335	336	337	335
37.5°	335	336	343	336	332	338	341	342	342	339
40°	436	427	424	405	397	401	421	422	427	425
42.5°	538	520	518	517	517	517	512	518	527	525
45°	580	581	614	635	629	623	602	564	556	559
47.5°	568	613	654	677	684	665	626	587	543	530
50°	629	678	736	756	765	749	712	660	599	583
52.5°	829	859	940	964	994	967	926	833	798	784
55°	1030	1050	1119	1193	1215	1197	1114	1024	1011	987
57.5°	1157	1175	1228	1287	1290	1256	1218	1157	1123	1115
60°	1268	1297	1374	1414	1453	1411	1399	1317	1272	1272
62.5°	1458	1492	1640	1659	1700	1690	1686	1551	1495	1515
65°	1999	2035	2230	2169	2330	2239	2250	2141	2051	2089
67.5°	2918	2950	3184	3050	3308	3147	3179	3031	2940	2981
70°	3935	3953	4328	4130	4354	4270	4258	3920	3864	3989
72.5°	4182	4255	4655	4469	4636	4593	4596	4092	4113	4281
75°	3361	3408	3620	3394	3478	3439	3546	3216	3229	3316
77.5°	2190	2161	2137	1972	1962	1979	2116	2094	2071	2066
80°	1339	1305	1221	1065	1028	1063	1186	1251	1254	1249
82.5°	777	775	731	650	623	644	721	746	732	732
85°	495	500	494	468	460	464	491	490	472	473
87.5°	365	373	377	366	363	362	370	363	348	350
90°	301	309	315	306	306	304	308	302	289	289
95°	243	253	259	247	245	245	255	254	243	240
105°	207	242	251	183	174	174	238	238	245	208
115°	145	153	162	150	147	146	155	149	140	136
125°	198	201	200	190	189	191	184	190	194	190
135°	135	133	133	132	129	128	128	126	124	124
145°	165	163	155	150	150	150	142	137	135	134
155°	655	636	582	563	594	577	585	574	592	595
165°	165	161	158	156	152	143	153	160	166	166



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	165	161	158	156	152	143	153	160	166	166
180°	163	163	163	163	163	163	163	163	163	163

(END OF REPORT)