

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: 768738_150MP

Luminaire Tested: **ARC15PXX5514XR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768738_150MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC15PXX5514XR
Description: 175 WATT MH TYPE V REFRACTIVE GLOBE
W/TALL SPUN TOP & CAGE
Light Source: 150 WATT PULSE-START CLEAR ED-28 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 8641.3 lumens
Efficiency: 61.7%
Efficacy: 46.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Medium - Cutoff
BUG Rating: B4 - U3 - G3

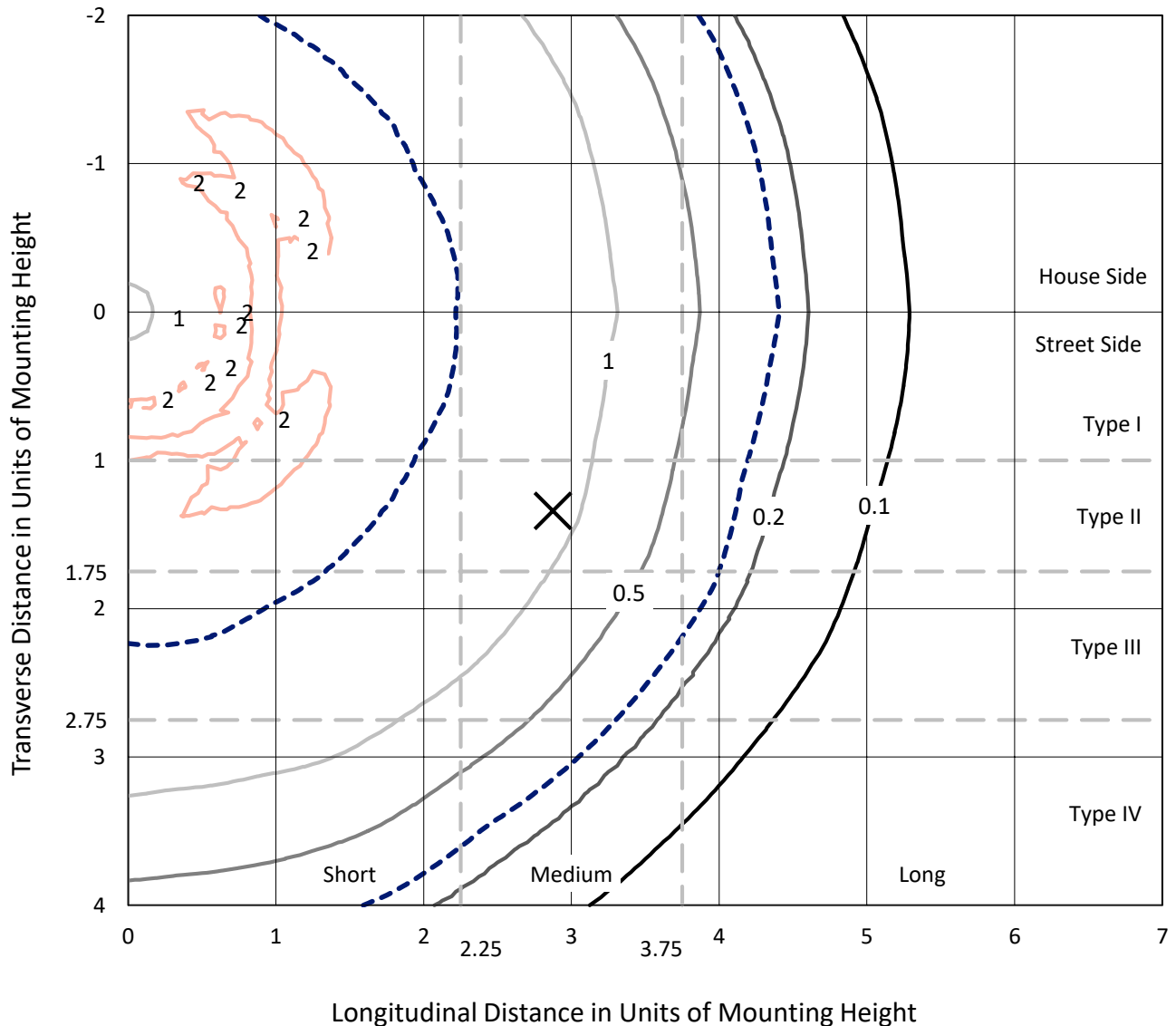
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

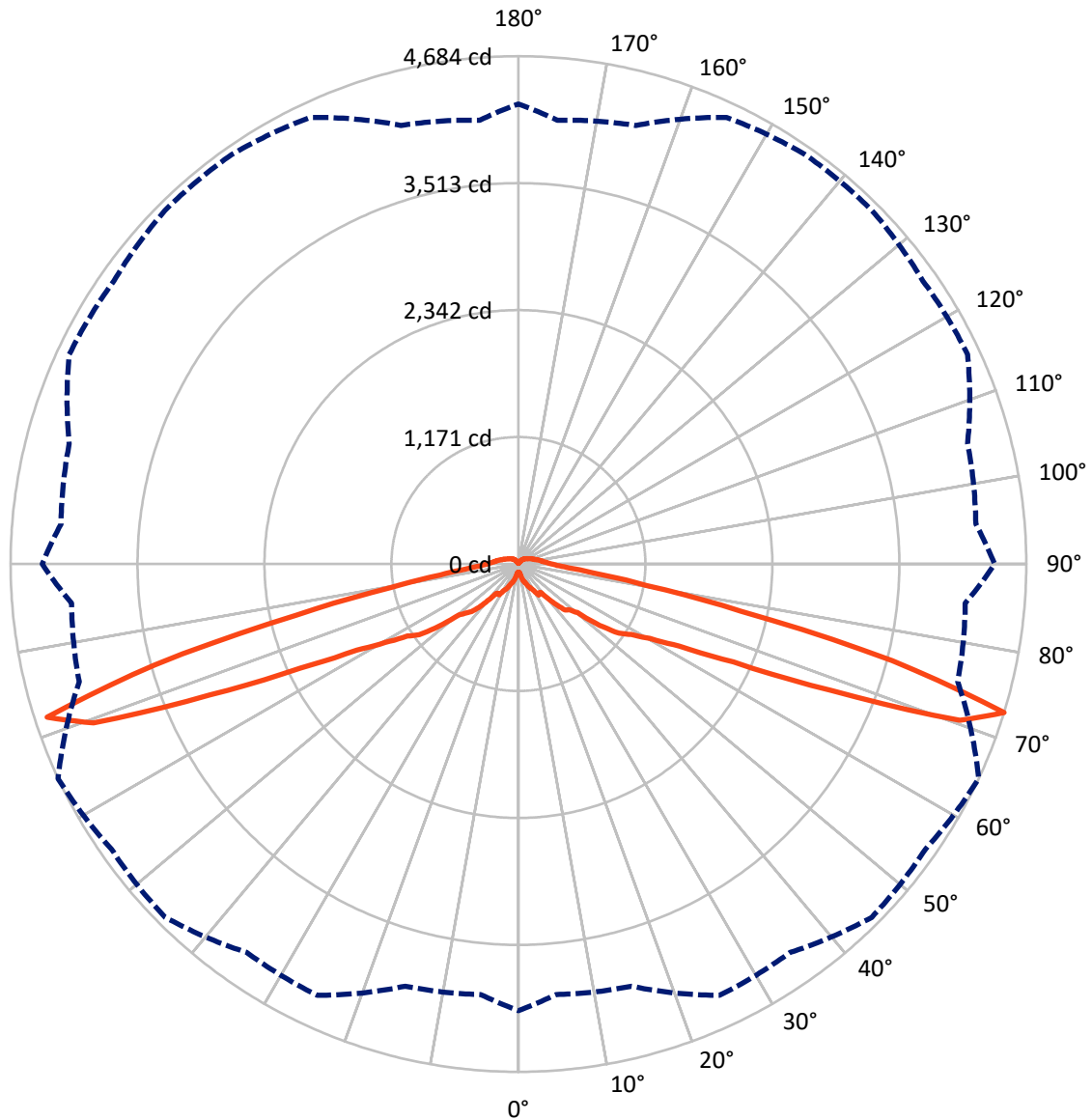
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Medium - 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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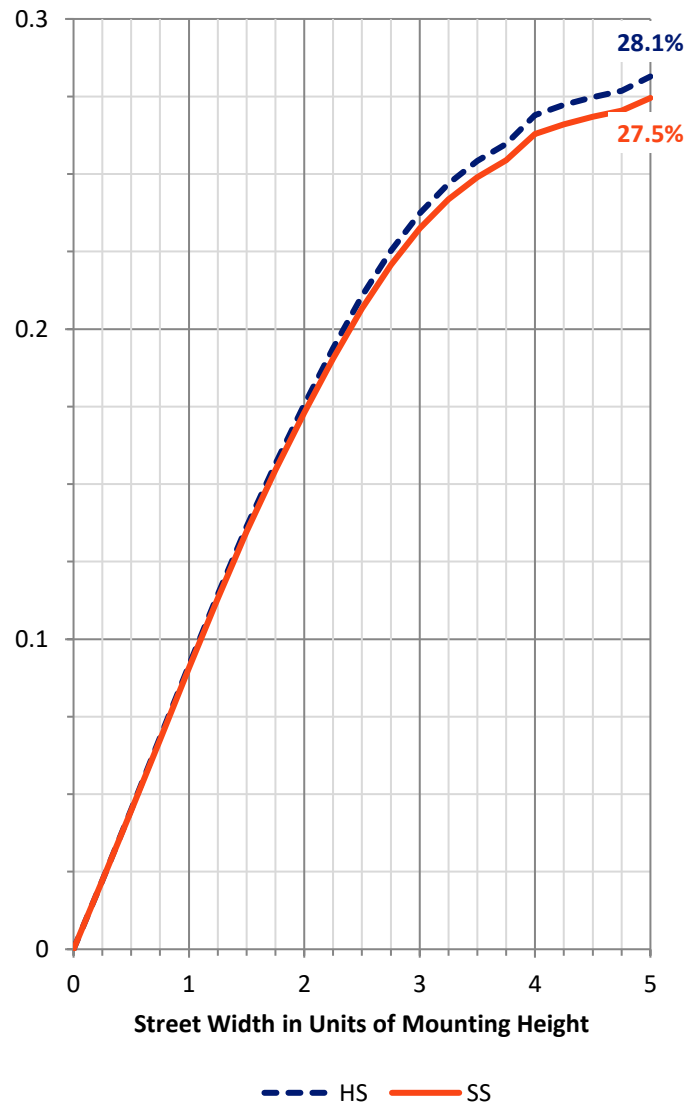
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4012.4	335.2	4347.6
	% Lamp	28.7	2.4	31.1
Street Side	Lumens	3958.4	335.3	4293.7
	% Lamp	28.3	2.4	30.7
Total	Lumens	7970.8	670.5	8641.3
	% Lamp	56.9	4.8	61.7

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	8.1	0.1	0.1
10°-20°	42.8	0.5	0.3
20°-30°	111.9	1.3	0.8
30°-40°	212.7	2.5	1.5
40°-50°	445.2	5.2	3.2
50°-60°	951.5	11.0	6.8
60°-70°	2336.2	27.0	16.7
70°-80°	3261.4	37.7	23.3
80°-90°	601.0	7.0	4.3
90°-100°	249.8	2.9	1.8
100°-110°	166.8	1.9	1.2
110°-120°	110.3	1.3	0.8
120°-130°	72.7	0.8	0.5
130°-140°	44.3	0.5	0.3
140°-150°	22.2	0.3	0.2
150°-160°	8.4	0.1	0.1
160°-170°	2.7	0.0	0.0
170°-180°	0.7	0.0	0.0
0°-90°	7970.8	92.2	56.9
0°-180°	8641.3	100.0	61.7

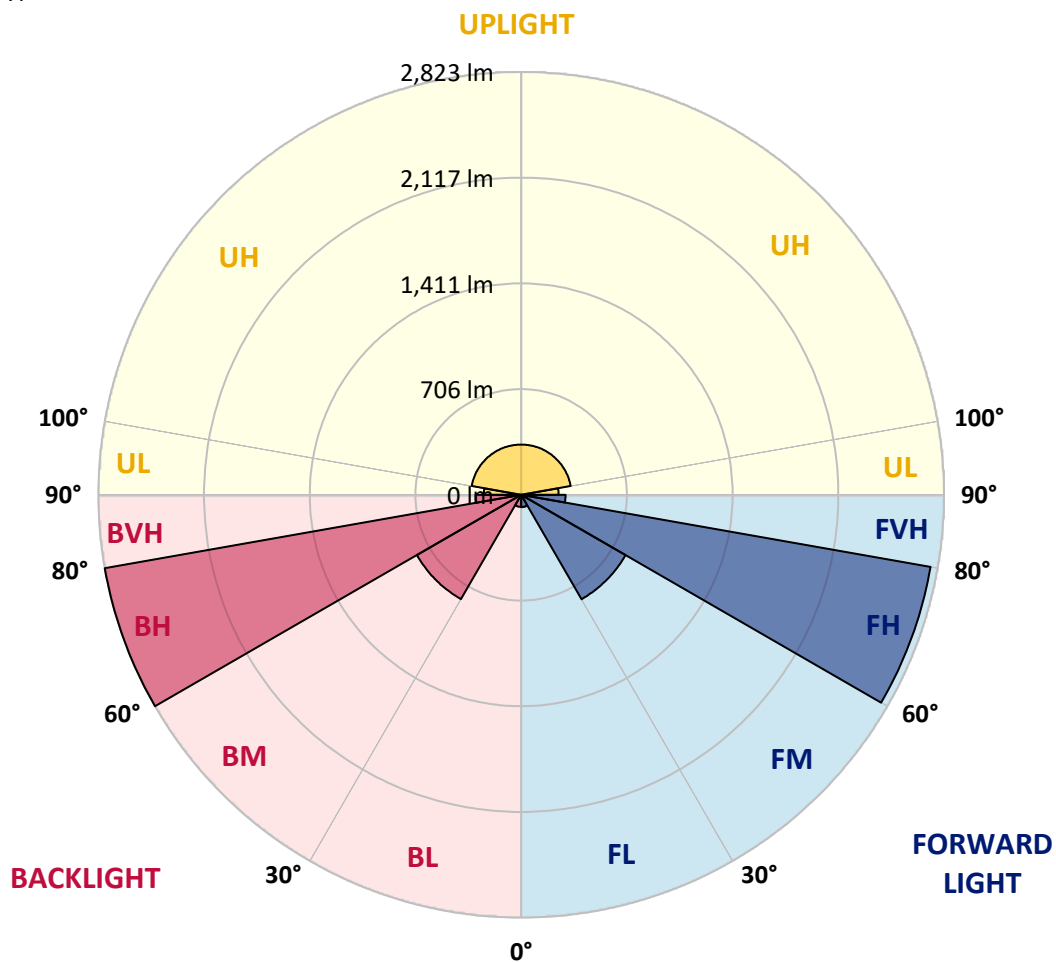


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	81.9	0.6			
FM (30°-60°)	805.2	5.8			
FH (60°-80°)	2775.0	19.8			G2/5000
FVH (80°-90°)	296.2	2.1			G3/500
BL (0°-30°)	80.8	0.6	B0/110		
BM (30°-60°)	804.3	5.7	B1/1000		
BH (60°-80°)	2822.6	20.2	B4/5000		G2/5000
BVH (80°-90°)	304.7	2.2			G3/500
UL (90°-100°)	249.8	1.8		U3/500	
UH (100°-180°)	335.2	2.4		U3/500	
Trapped Light	5358.7	38.3			

BUG Rating: B4-U3-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°	72	72	74	75	76	77	77	77	76	75	76
5°	70	71	71	74	76	78	78	76	74	74	74
7.5°	82	82	84	86	88	89	89	89	87	86	87
10°	98	97	99	100	102	102	103	103	104	104	103
12.5°	123	123	122	122	124	127	129	129	130	133	134
15°	141	141	141	144	148	151	153	154	157	157	156
17.5°	161	160	164	168	170	172	173	175	175	175	174
20°	171	174	179	185	185	184	185	184	181	179	179
22.5°	217	216	213	215	217	216	218	215	211	210	209
25°	250	250	244	244	250	252	247	241	244	246	246
27.5°	264	267	263	262	267	271	264	256	259	265	266
30°	297	298	297	297	295	295	295	290	292	290	287
32.5°	345	346	343	344	342	341	345	342	346	341	339
35°	329	331	328	333	326	321	326	328	330	334	341
37.5°	336	340	333	334	328	322	328	332	338	347	349
40°	446	441	434	423	393	388	394	420	438	446	452
42.5°	545	537	522	519	511	507	509	511	538	546	565
45°	566	570	571	606	621	626	620	604	593	590	602
47.5°	525	534	590	642	662	662	662	630	604	561	573
50°	584	597	657	710	719	728	728	704	667	597	613
52.5°	808	825	855	929	933	953	959	939	866	826	837
55°	1008	1025	1062	1098	1163	1192	1171	1127	1034	1044	1031
57.5°	1075	1119	1158	1201	1272	1255	1266	1226	1169	1165	1146
60°	1189	1235	1271	1353	1386	1404	1411	1395	1304	1328	1292
62.5°	1437	1430	1490	1604	1624	1654	1632	1665	1507	1504	1495
65°	2009	1929	1965	2141	2126	2157	2172	2179	2018	2001	2038
67.5°	2882	2789	2747	2990	2939	3034	3062	3107	2903	2921	3006
70°	3766	3640	3653	4015	4007	4165	4167	4320	3907	3887	4081
72.5°	4120	3986	4031	4389	4372	4608	4583	4684	4194	4137	4392
75°	3284	3188	3287	3437	3307	3481	3531	3561	3277	3274	3456
77.5°	2064	2025	2051	1978	1853	1903	1982	2098	2031	2123	2174
80°	1261	1209	1174	1086	977	972	1052	1198	1210	1308	1315
82.5°	735	708	692	665	597	581	640	719	719	767	782
85°	454	448	448	451	428	426	453	469	452	464	483
87.5°	331	329	334	346	336	336	353	355	337	338	349
90°	274	272	277	288	283	283	295	293	278	277	283
95°	213	212	219	224	221	220	228	230	220	216	219
105°	145	149	157	161	147	146	148	157	155	151	145
115°	100	100	104	109	110	110	111	113	105	101	99
125°	74	74	79	83	83	83	83	85	81	79	78
135°	52	52	53	55	54	54	56	59	59	58	58
145°	36	36	35	35	33	33	34	36	37	38	39
155°	15	16	15	14	13	13	13	15	16	16	17
165°	9	8	8	8	8	8	8	8	8	8	8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	9	8	8	8	8	8	6	6	8	8	8
180°	7	7	7	7	7	7	7	7	7	7	7



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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°	74	77	77	77	75	75	74	73	70	70
5°	74	75	77	78	78	77	75	72	70	69
7.5°	87	87	89	90	90	88	85	82	82	81
10°	103	104	102	103	102	101	99	97	95	94
12.5°	133	130	127	124	121	120	117	116	115	116
15°	155	153	150	148	146	145	143	142	140	140
17.5°	172	172	172	173	174	173	172	170	167	167
20°	179	183	187	191	191	188	186	179	174	172
22.5°	210	209	207	208	210	212	211	207	200	199
25°	246	244	241	241	240	239	236	236	236	235
27.5°	268	271	266	268	269	264	260	257	259	261
30°	286	287	288	286	284	280	278	276	274	275
32.5°	341	343	335	330	326	320	321	323	317	316
35°	341	334	328	324	325	325	322	317	316	318
37.5°	344	338	339	334	327	327	331	330	328	327
40°	450	431	422	395	388	391	407	412	411	414
42.5°	554	530	524	510	505	491	492	500	503	506
45°	601	582	616	615	622	597	579	566	556	555
47.5°	577	622	662	670	685	654	624	599	554	547
50°	610	678	726	750	760	734	693	662	604	595
52.5°	818	859	932	957	986	940	896	845	810	785
55°	1022	1051	1123	1194	1195	1198	1112	1055	1033	986
57.5°	1146	1160	1219	1256	1262	1269	1200	1142	1146	1116
60°	1296	1338	1426	1408	1445	1426	1360	1269	1247	1267
62.5°	1498	1574	1689	1662	1669	1627	1585	1467	1419	1489
65°	1967	2066	2226	2150	2194	2173	2166	2058	2003	2155
67.5°	2845	2882	3094	3039	3131	3111	3105	2948	2863	3021
70°	3901	3968	4184	4200	4252	4293	4160	3943	3878	3967
72.5°	4235	4289	4571	4554	4611	4610	4544	4187	4108	4243
75°	3378	3387	3482	3424	3419	3370	3514	3237	3201	3279
77.5°	2134	2145	2102	1952	1918	1941	2090	2032	2071	2079
80°	1281	1286	1202	1046	1020	1048	1187	1201	1267	1262
82.5°	754	772	729	636	612	628	715	707	729	722
85°	470	488	481	450	445	450	476	456	455	453
87.5°	343	356	358	348	348	348	355	337	329	330
90°	280	291	295	290	291	289	292	278	272	271
95°	219	229	231	224	223	223	227	218	210	211
105°	151	161	158	146	143	143	159	148	144	147
115°	100	105	111	108	108	110	109	103	98	97
125°	78	82	85	83	81	81	82	77	75	75
135°	59	59	62	55	54	54	57	59	58	55
145°	39	37	36	34	33	33	33	34	35	36
155°	16	16	15	14	13	13	14	16	16	16
165°	8	8	8	8	8	8	8	8	9	9



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	8	8	8	8	6	8	6	6	9	9
180°	7	7	7	7	7	7	7	7	7	7

(END OF REPORT)