

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: 768700_150MP

Luminaire Tested: **ARC15PXX3314XR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768700_150MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC15PXX3314XR
Description: 175 WATT MH TYPE III REFRACTIVE GLOBE
WITH 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: 8640.4 lumens
Efficiency: 61.7%
Efficacy: 46.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B3 - U3 - G3

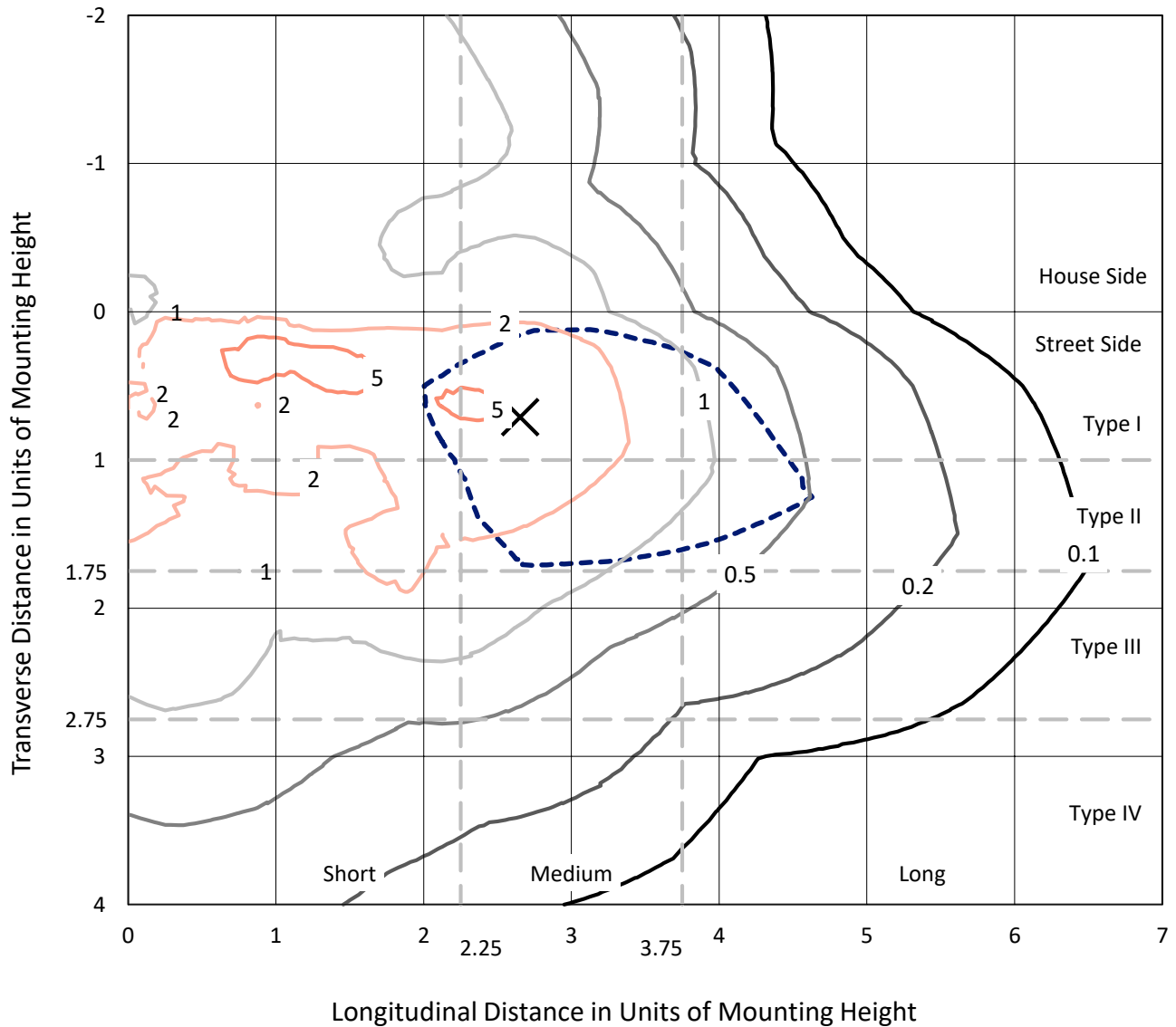
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

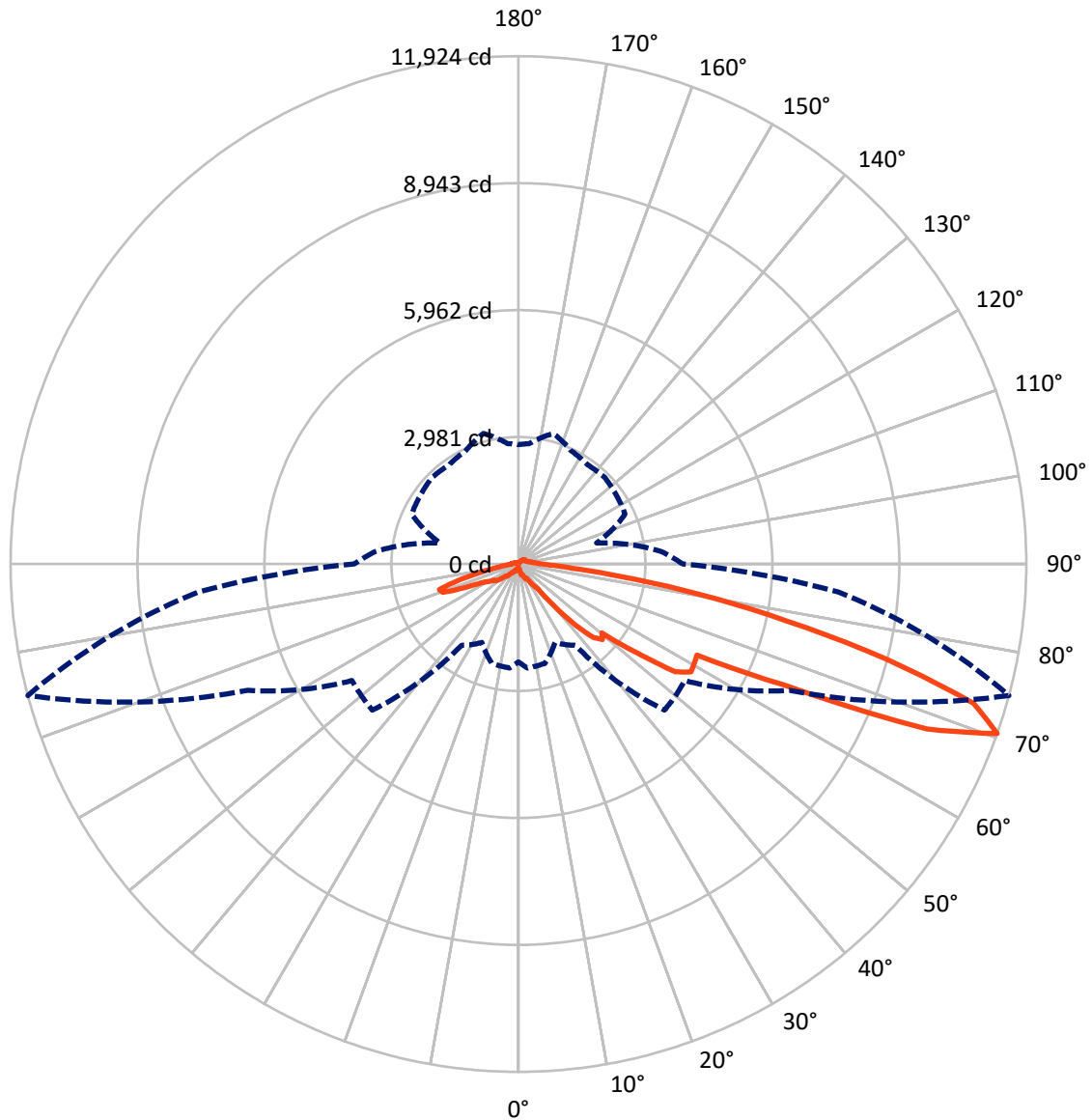
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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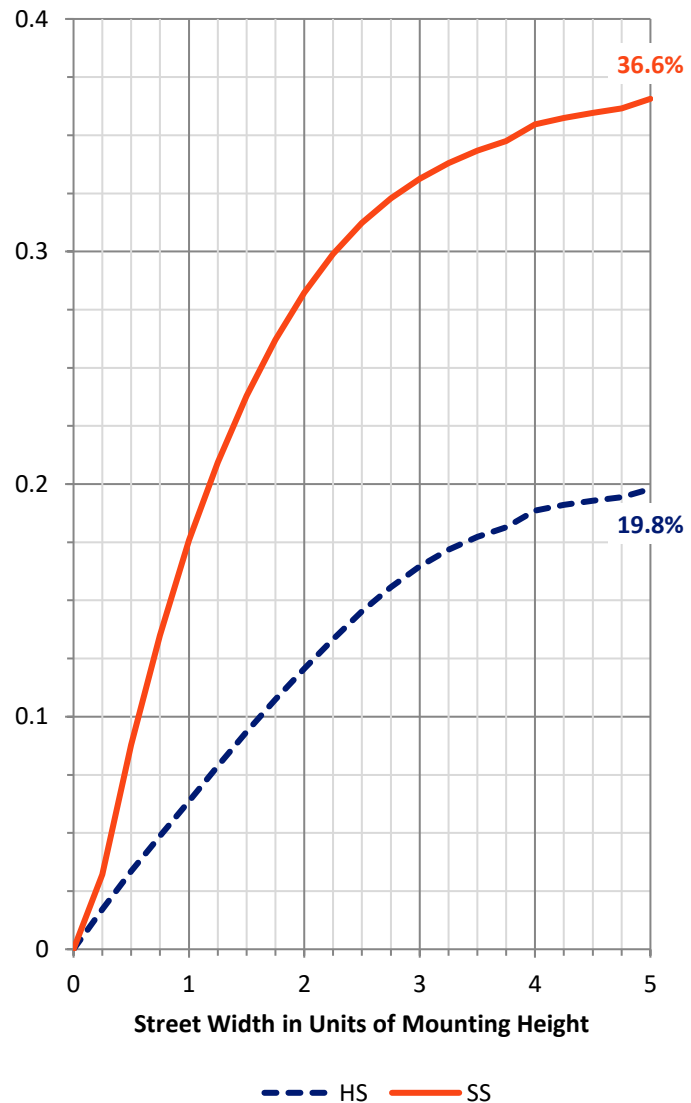
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2823.7	243.1	3066.8
	% Lamp	20.2	1.7	21.9
Street Side	Lumens	5244.1	329.5	5573.6
	% Lamp	37.5	2.4	39.8
Total	Lumens	8067.7	572.7	8640.4
	% Lamp	57.6	4.1	61.7

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	9.1	0.1	0.1
10°-20°	53.7	0.6	0.4
20°-30°	131.9	1.5	0.9
30°-40°	247.6	2.9	1.8
40°-50°	527.7	6.1	3.8
50°-60°	988.5	11.4	7.1
60°-70°	2320.0	26.9	16.6
70°-80°	3142.9	36.4	22.4
80°-90°	646.4	7.5	4.6
90°-100°	222.2	2.6	1.6
100°-110°	144.3	1.7	1.0
110°-120°	94.3	1.1	0.7
120°-130°	60.3	0.7	0.4
130°-140°	37.0	0.4	0.3
140°-150°	17.1	0.2	0.1
150°-160°	4.0	0.0	0.0
160°-170°	0.3	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	8067.7	93.4	57.6
0°-180°	8640.4	100.0	61.7

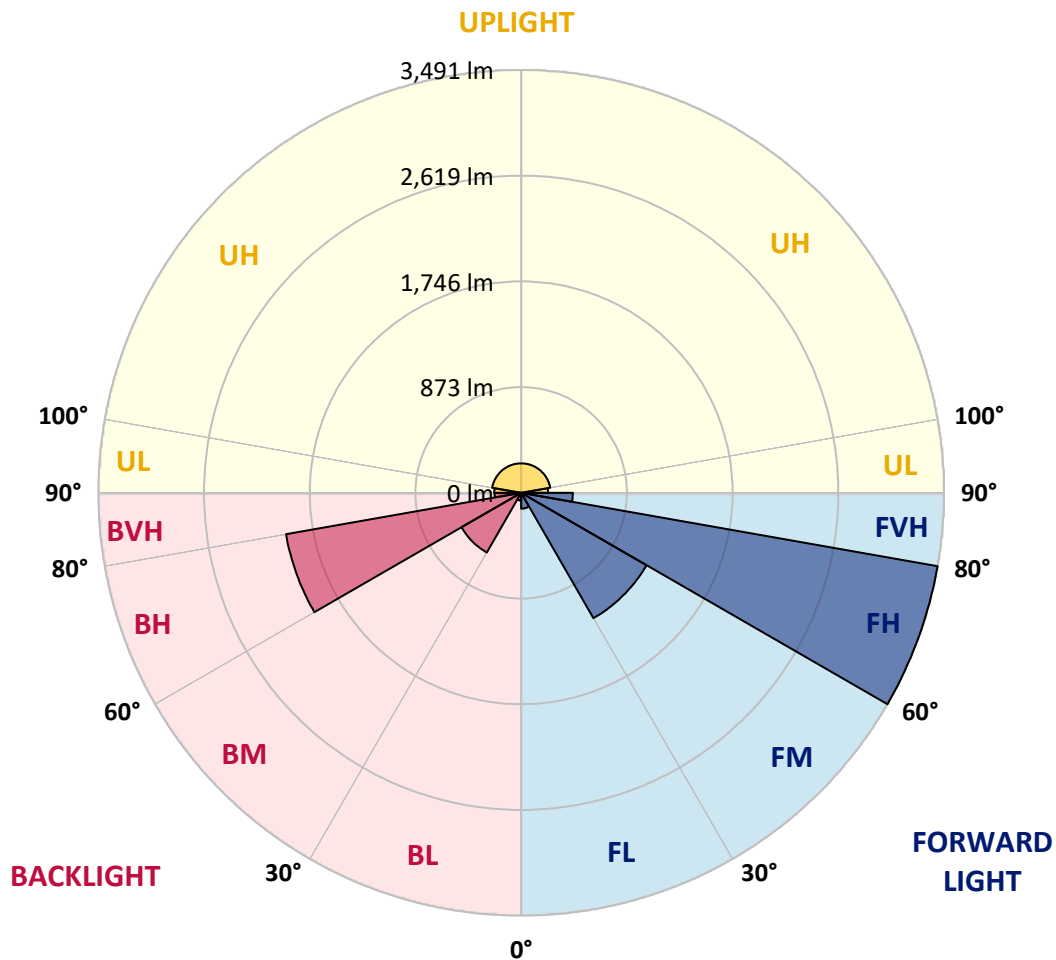


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	131.3	0.9			
FM (30°-60°)	1194.9	8.5			
FH (60°-80°)	3491.4	24.9			G2/5000
FVH (80°-90°)	426.6	3.0			G3/500
BL (0°-30°)	63.4	0.5	B0/110		
BM (30°-60°)	568.9	4.1	B1/1000		
BH (60°-80°)	1971.6	14.1	B3/2500		G3/2500
BVH (80°-90°)	219.8	1.6			G2/225
UL (90°-100°)	222.2	1.6		U3/500	
UH (100°-180°)	243.1	1.7		U3/500	
Trapped Light	5359.6	38.3			

BUG Rating: B3-U3-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	102	102	102	102	102	102	102	102	102	102	102
2.5°	102	97	97	102	102	102	97	91	97	97	97
5°	91	97	102	107	107	102	107	102	97	91	91
7.5°	112	102	112	112	117	117	107	107	102	91	91
10°	112	112	117	122	127	137	137	127	122	112	107
12.5°	142	137	142	157	178	203	239	234	213	173	152
15°	193	198	203	229	264	310	330	310	269	208	183
17.5°	244	244	249	295	376	432	437	361	274	208	183
20°	193	193	224	305	386	457	437	335	254	188	173
22.5°	213	203	234	325	417	513	503	437	315	224	198
25°	254	249	249	335	417	554	635	599	386	259	224
27.5°	315	305	295	351	437	539	640	605	376	249	224
30°	295	279	279	335	396	498	599	645	396	254	213
32.5°	325	320	305	371	457	528	762	869	523	295	249
35°	427	432	376	412	462	437	620	1047	630	330	274
37.5°	427	422	381	396	447	366	508	1057	726	315	249
40°	732	686	625	599	625	391	691	1743	1306	406	310
42.5°	925	854	762	691	742	625	808	2169	1961	488	356
45°	884	828	721	655	737	914	737	1824	2449	503	361
47.5°	732	701	610	533	625	747	589	1224	2652	488	340
50°	691	676	610	549	645	925	762	1123	2540	528	396
52.5°	1047	986	914	787	965	1306	1031	1478	3424	752	564
55°	1260	1189	1041	889	1113	1524	1204	1717	4466	1016	686
57.5°	1270	1158	960	854	1113	1585	1296	1895	4781	1341	843
60°	1158	1174	1026	884	1168	1585	1341	2032	4745	1783	1108
62.5°	1108	1133	1168	965	1235	1753	1580	2434	4704	2312	1387
65°	1504	1550	1605	1382	1768	2754	2474	3714	6838	3058	1768
67.5°	1961	2037	2078	1758	2205	4024	3704	5390	10344	4958	2611
70°	2296	2449	2413	2032	2332	4852	4771	7016	11924	7544	3856
72.5°	2347	2561	2500	2124	2281	4318	5329	7433	11172	8022	4090
75°	2022	2266	2190	1854	1920	2972	3988	6188	8921	6498	3257
77.5°	1544	1768	1666	1392	1453	1981	2190	4532	6442	4415	2185
80°	1108	1260	1189	970	996	1240	1153	2987	4293	2698	1362
82.5°	660	737	706	554	574	681	706	1692	2388	1529	869
85°	386	422	412	340	366	442	498	925	1260	925	569
87.5°	285	300	300	269	274	325	351	574	747	625	412
90°	224	249	249	234	244	264	279	401	508	462	315
95°	163	188	188	183	168	183	193	279	351	305	208
105°	132	152	147	147	102	107	97	168	213	163	102
115°	91	91	97	91	86	91	76	142	178	117	76
125°	51	51	51	46	46	46	46	112	173	71	46
135°	41	51	51	46	46	51	51	112	117	41	41
145°	30	25	25	25	15	20	30	97	41	20	20
155°	10	10	10	10	5	0	10	20	15	0	0
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°	102	102	102	102	102	102	102	102	102	102
2.5°	97	91	91	86	91	86	86	81	81	81
5°	91	91	86	81	81	76	71	71	71	61
7.5°	86	86	81	76	76	71	71	71	71	71
10°	102	97	91	86	91	81	81	76	81	81
12.5°	137	117	107	102	102	97	102	91	91	91
15°	163	132	122	117	117	112	112	112	112	122
17.5°	163	152	132	132	142	127	127	127	127	122
20°	163	142	137	142	142	142	142	142	132	132
22.5°	173	157	152	157	163	168	163	163	157	173
25°	198	178	183	173	188	188	188	188	188	183
27.5°	198	178	183	188	198	198	198	198	193	203
30°	203	193	208	218	208	213	224	213	213	213
32.5°	229	234	239	244	249	249	254	249	249	254
35°	254	244	254	249	259	264	264	259	259	254
37.5°	229	239	254	249	249	244	254	249	259	254
40°	290	300	320	295	279	279	305	320	315	315
42.5°	335	366	376	371	361	345	366	381	381	376
45°	345	406	437	432	442	442	457	437	447	447
47.5°	330	422	462	462	462	472	488	462	432	417
50°	386	513	539	523	523	523	544	472	422	417
52.5°	513	625	701	686	686	676	716	584	559	559
55°	605	666	752	767	803	782	864	711	716	732
57.5°	671	701	813	843	879	833	925	828	823	823
60°	833	813	950	1001	1041	991	1077	991	935	925
62.5°	1031	889	1118	1153	1184	1138	1250	1179	1067	1057
65°	1377	1113	1458	1494	1509	1478	1616	1636	1468	1473
67.5°	2164	1489	2017	2068	2108	2088	2225	2362	2185	2185
70°	3373	1900	2764	2809	2870	2840	2931	3175	2835	2804
72.5°	3704	1951	2931	3013	3170	3155	3262	3541	3089	3079
75°	2688	1509	2179	2225	2367	2398	2561	2820	2550	2591
77.5°	1478	975	1285	1260	1311	1341	1504	1697	1651	1677
80°	859	630	757	676	691	721	823	945	981	1006
82.5°	574	422	493	427	427	452	508	559	569	579
85°	396	295	335	310	320	325	351	371	361	366
87.5°	290	213	254	244	249	254	259	279	264	274
90°	229	178	208	198	203	213	224	234	229	224
95°	152	137	157	152	163	168	178	183	178	173
105°	102	97	107	91	112	112	137	137	132	132
115°	66	71	91	86	91	91	97	91	81	91
125°	46	41	46	56	51	56	51	51	46	51
135°	36	46	41	46	41	51	41	41	41	30
145°	15	20	20	15	20	20	25	20	10	20
155°	0	0	0	0	0	0	0	0	0	0
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)