

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: 768705\_150MP

Luminaire Tested: **ARC15PXX33X4X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768705\_150MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC15PXX33X4X  
Description: 175 WATT MH TYPE III REFRACTIVE GLOBE  
WITH SPUN TOP  
Light Source: 150 WATT PULSE-START CLEAR ED-28 VBD BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 14000 (1 lamp)  
Luminaire Lumens: 8071.6 lumens  
Efficiency: 57.7%  
Efficacy: 43.6 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U3 - G4

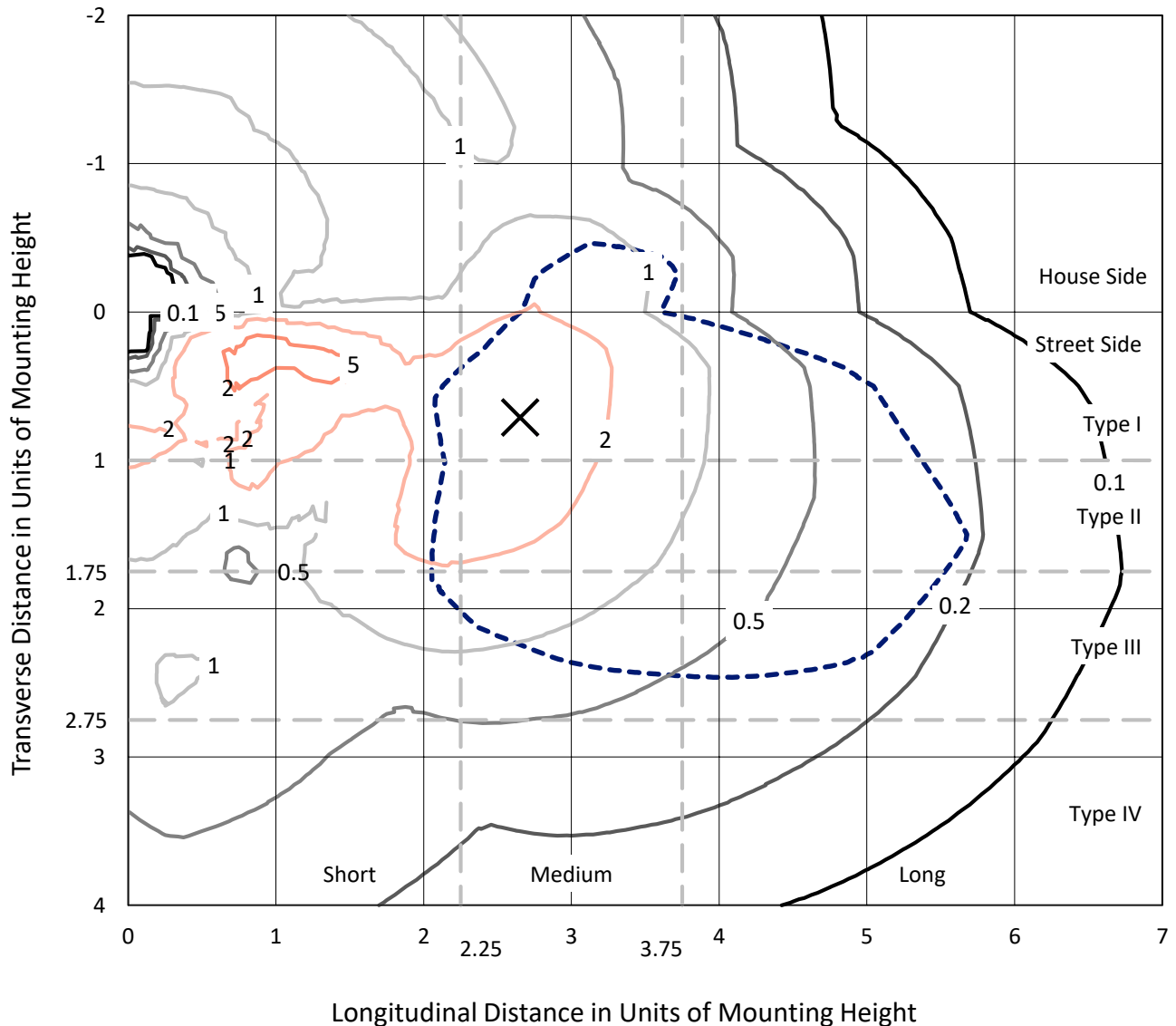
Input Watts (W): 185  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

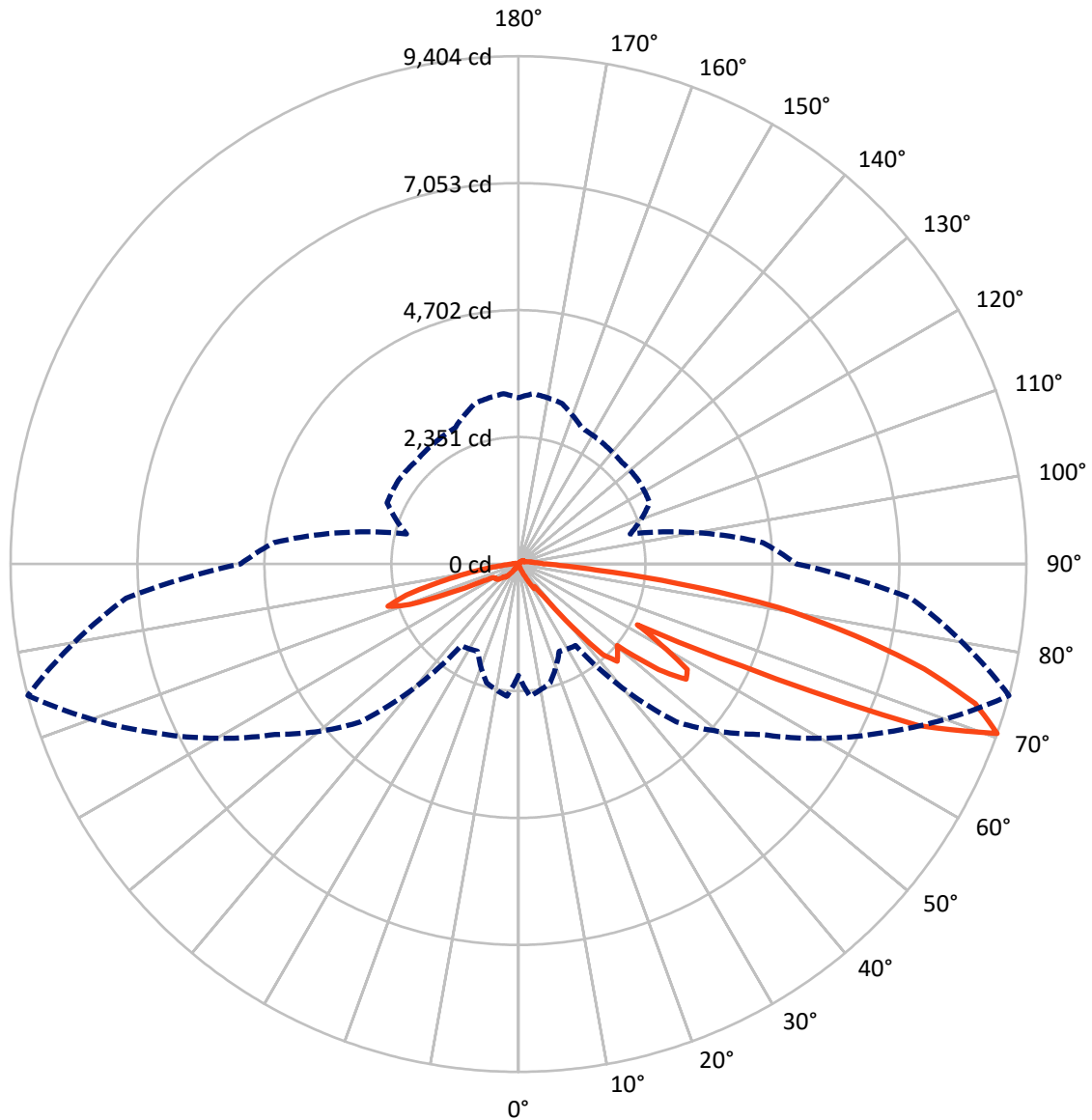
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - 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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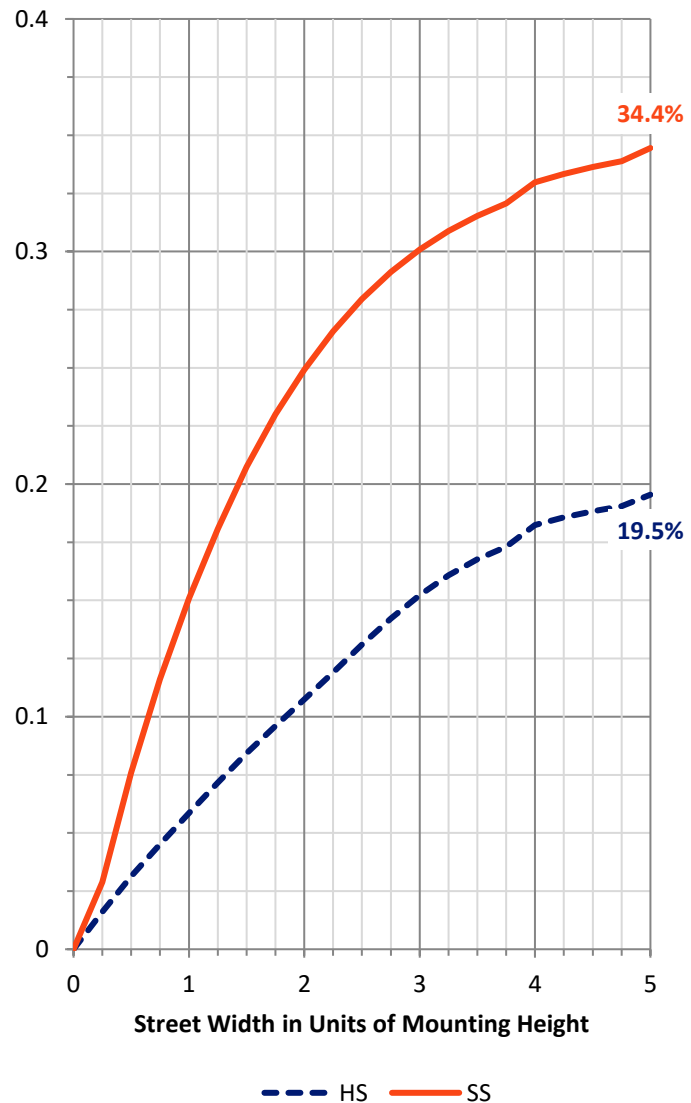
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2787.0	123.6	2910.6
	% Lamp	19.9	0.9	20.8
<b>Street Side</b>	Lumens	4966.4	194.5	5160.9
	% Lamp	35.5	1.4	36.9
<b>Total</b>	Lumens	7753.4	318.2	8071.6
	% Lamp	55.4	2.3	57.7

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	4.0	0.0	0.0
20°-30°	56.0	0.7	0.4
30°-40°	199.9	2.5	1.4
40°-50°	475.1	5.9	3.4
50°-60°	782.6	9.7	5.6
60°-70°	1814.4	22.5	13.0
70°-80°	3569.0	44.2	25.5
80°-90°	852.5	10.6	6.1
90°-100°	171.0	2.1	1.2
100°-110°	93.0	1.2	0.7
110°-120°	38.6	0.5	0.3
120°-130°	13.0	0.2	0.1
130°-140°	5.8	0.1	0.0
140°-150°	2.0	0.0	0.0
150°-160°	0.3	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	7753.4	96.1	55.4
0°-180°	8071.6	100.0	57.7

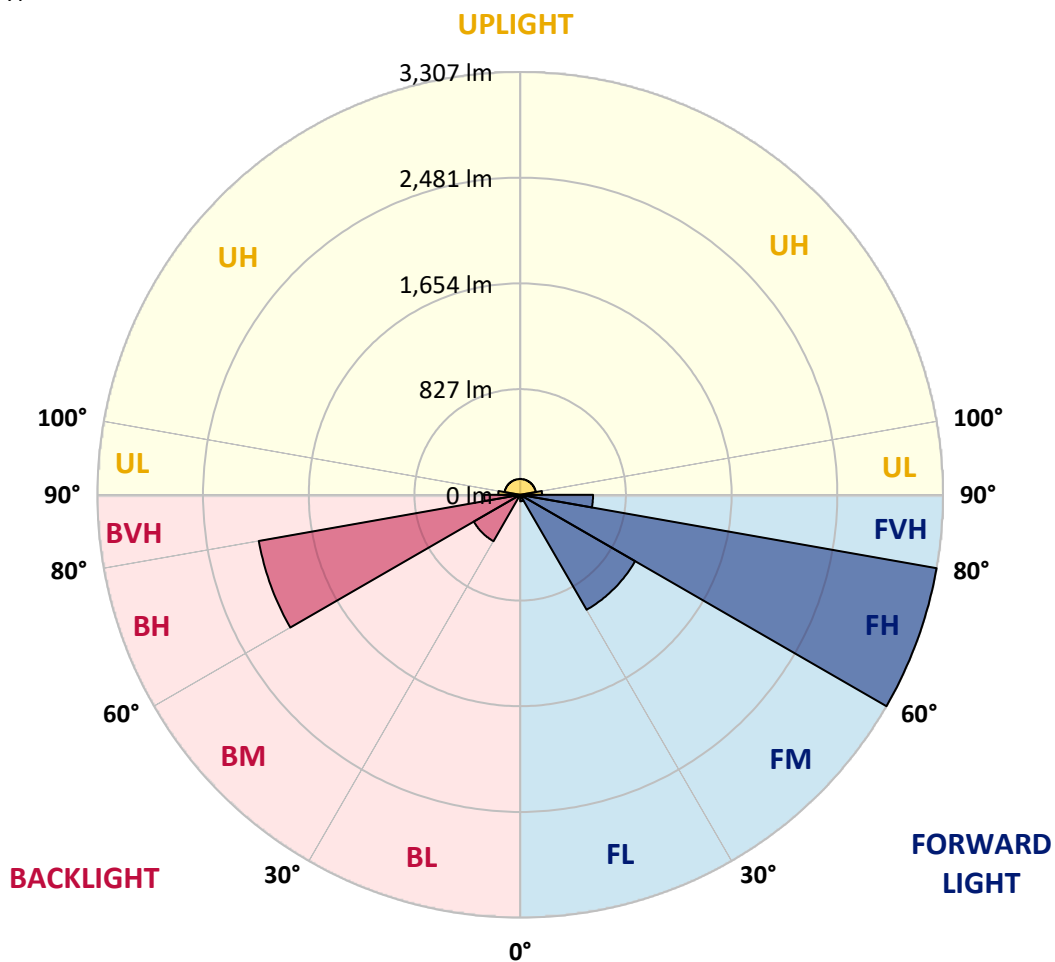


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	50.4	0.4			
FM (30°-60°)	1038.5	7.4			
FH (60°-80°)	3307.4	23.6			G2/5000
FVH (80°-90°)	570.1	4.1			G4/750
BL (0°-30°)	9.6	0.1	B0/110		
BM (30°-60°)	419.0	3.0	B1/1000		
BH (60°-80°)	2076.0	14.8	B3/2500		G3/2500
BVH (80°-90°)	282.5	2.0			G3/500
UL (90°-100°)	171.0	1.2		U3/500	
UH (100°-180°)	123.6	0.9		U3/500	
Trapped Light	5928.4	42.3			

**BUG Rating: B3-U3-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	5	0	0	0
12.5°	0	0	0	0	5	20	20	30	15	5	0
15°	10	5	15	0	20	30	61	51	30	10	0
17.5°	20	15	15	20	41	61	81	51	25	10	10
20°	30	30	25	30	61	86	102	76	30	15	10
22.5°	81	71	66	66	132	173	168	147	81	41	20
25°	112	107	71	86	178	259	285	310	157	76	46
27.5°	213	203	152	157	295	401	503	462	254	97	56
30°	315	295	193	203	371	427	610	706	422	173	107
32.5°	315	295	224	218	457	518	726	950	544	193	107
35°	305	295	208	193	361	356	452	950	508	178	112
37.5°	376	351	290	229	462	493	589	1138	767	213	132
40°	711	645	554	427	935	970	1113	1671	1504	345	198
42.5°	782	721	640	472	996	1026	1224	1798	2291	447	269
45°	671	640	554	417	848	793	965	1341	2566	478	300
47.5°	417	391	325	244	483	467	488	681	2469	564	330
50°	610	569	498	366	803	742	894	975	2373	798	401
52.5°	864	793	696	513	1113	1006	1184	1250	3251	950	508
55°	1016	899	742	539	1153	1087	1290	1341	3770	1072	635
57.5°	894	854	599	488	1108	1062	1346	1438	3688	1179	782
60°	610	676	539	361	848	848	975	1067	3038	1250	1047
62.5°	518	594	610	381	843	955	1072	1168	2474	1382	1336
65°	986	1148	1133	793	1423	1915	2332	2657	4532	1936	1550
67.5°	1555	1854	1783	1316	1768	3287	4024	4994	7986	4181	2896
70°	2063	2454	2276	1783	1844	4135	5502	7407	9404	7295	5146
72.5°	2225	2657	2423	2002	1920	3937	6163	8185	8845	8317	5502
75°	2073	2520	2240	1961	1788	3333	5395	7326	7763	7316	4384
77.5°	1738	2159	1880	1677	1514	2784	4252	6005	6371	5472	3033
80°	1301	1631	1423	1301	1163	2088	3175	4430	4882	3729	1946
82.5°	752	955	843	767	711	1194	1971	2652	2982	2058	1108
85°	376	478	422	391	361	610	1057	1301	1453	1118	630
87.5°	224	269	239	224	198	335	594	706	762	671	396
90°	152	178	163	157	142	224	376	442	462	442	274
95°	91	117	97	97	86	132	229	269	285	279	157
105°	81	76	76	61	56	66	97	137	152	122	76
115°	0	5	10	10	0	10	36	122	102	46	25
125°	0	0	0	0	0	0	5	97	112	15	0
135°	0	0	0	0	0	0	0	76	56	0	0
145°	0	0	0	0	0	0	0	51	0	0	0
155°	0	0	0	0	0	0	0	0	0	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°	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0
12.5°	5	0	0	0	0	0	0	0	0	0
15°	5	0	0	0	0	0	0	0	0	0
17.5°	5	0	0	5	5	0	0	0	0	10
20°	10	5	0	5	5	0	5	0	0	10
22.5°	10	10	10	15	20	15	15	10	10	10
25°	25	20	25	36	30	30	30	25	20	20
27.5°	36	46	51	61	71	71	71	71	61	61
30°	76	81	91	107	112	112	102	91	91	81
32.5°	86	97	112	117	117	102	102	97	97	91
35°	97	107	122	137	137	132	132	122	112	122
37.5°	117	122	142	152	152	142	147	152	147	152
40°	183	203	239	229	224	213	208	213	208	213
42.5°	259	295	330	335	320	310	305	315	300	285
45°	285	340	366	361	366	381	391	386	381	386
47.5°	290	345	366	351	356	391	396	391	406	396
50°	310	381	417	386	376	386	417	371	366	366
52.5°	412	457	539	544	528	523	584	503	457	457
55°	467	488	584	589	610	599	691	605	569	599
57.5°	503	493	574	584	615	574	660	640	625	630
60°	630	513	594	625	655	620	691	706	655	640
62.5°	752	528	635	630	640	599	701	701	635	610
65°	1092	752	945	950	935	909	996	1026	945	914
67.5°	2225	1311	1646	1661	1651	1671	1748	1915	1885	1839
70°	4542	2144	2682	2708	2688	2728	2779	3084	3165	3079
72.5°	5721	2540	3191	3236	3297	3312	3399	3765	3998	3820
75°	4679	2159	2672	2718	2779	2820	2931	3251	3561	3404
77.5°	3048	1504	1824	1854	1854	1854	1951	2154	2403	2378
80°	1768	975	1163	1174	1179	1158	1189	1306	1428	1443
82.5°	981	579	691	686	696	676	671	711	772	772
85°	574	325	371	371	366	366	366	381	427	427
87.5°	366	198	224	218	218	224	218	234	264	264
90°	259	127	152	157	152	157	163	168	193	193
95°	137	76	102	97	102	107	112	117	142	142
105°	81	51	61	66	91	122	107	122	132	122
115°	10	0	10	15	15	20	15	20	15	10
125°	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0
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)