

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: 768055

Luminaire Tested: **ACN15SXX33X1X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768055  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN15SXX33X1X  
Description: REFRACTIVE GLOBE TYPE III ACRYLIC  
WITH CLEAR TOP  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 16000 (1 lamp)  
Luminaire Lumens: 15374 lumens  
Efficiency: 96.1%  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U5 - G5

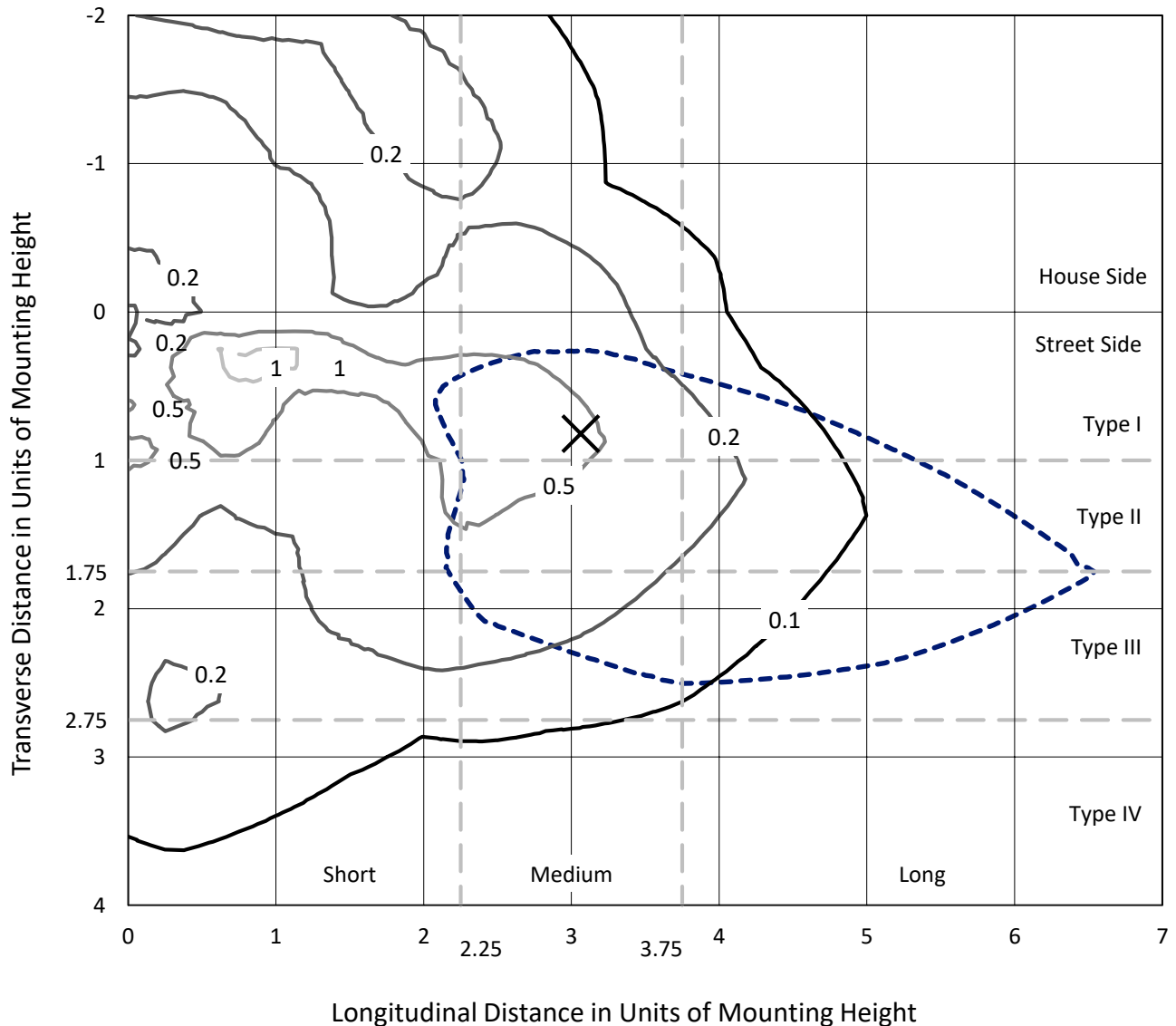
Input Watts (W): 150  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

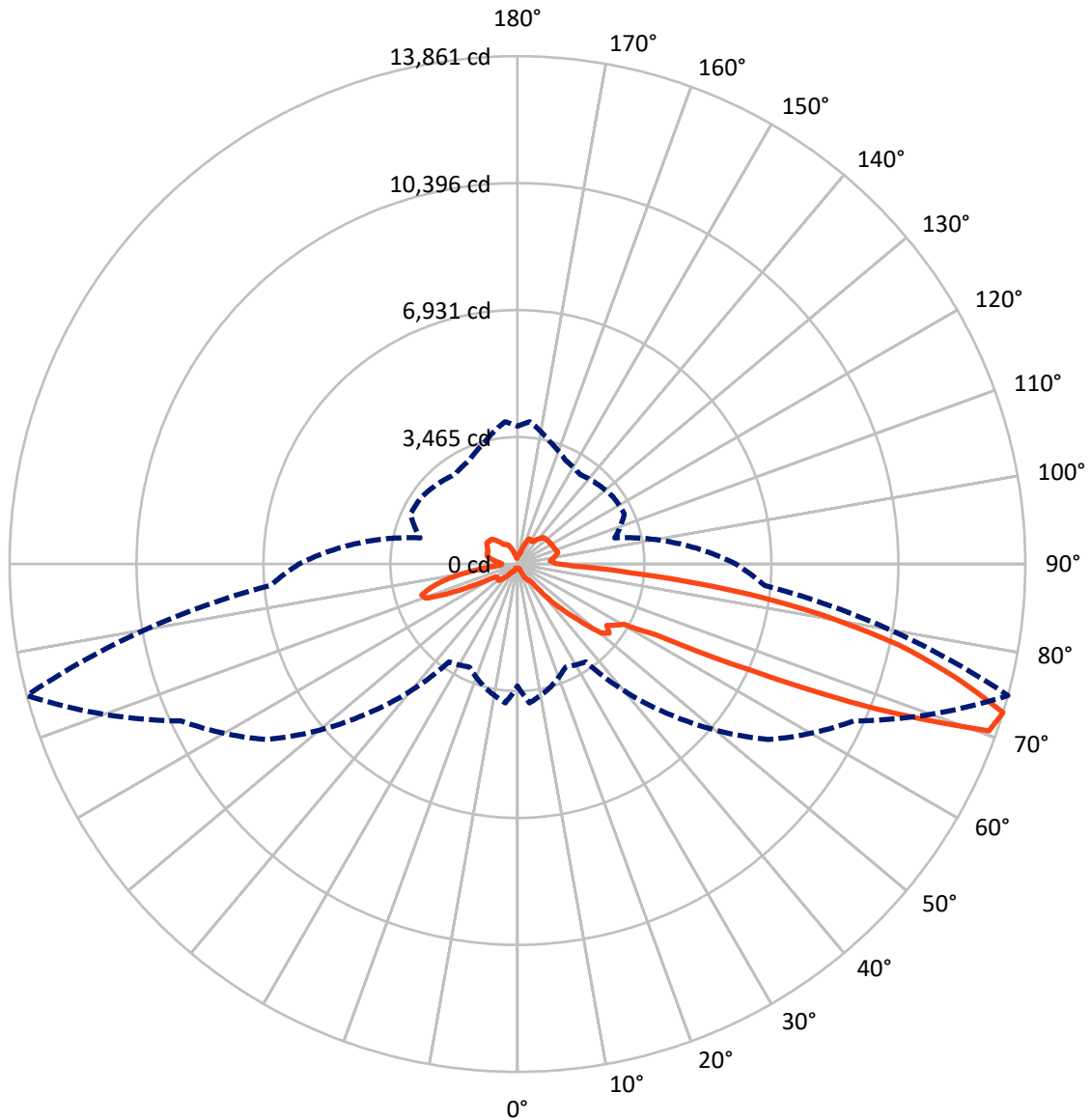
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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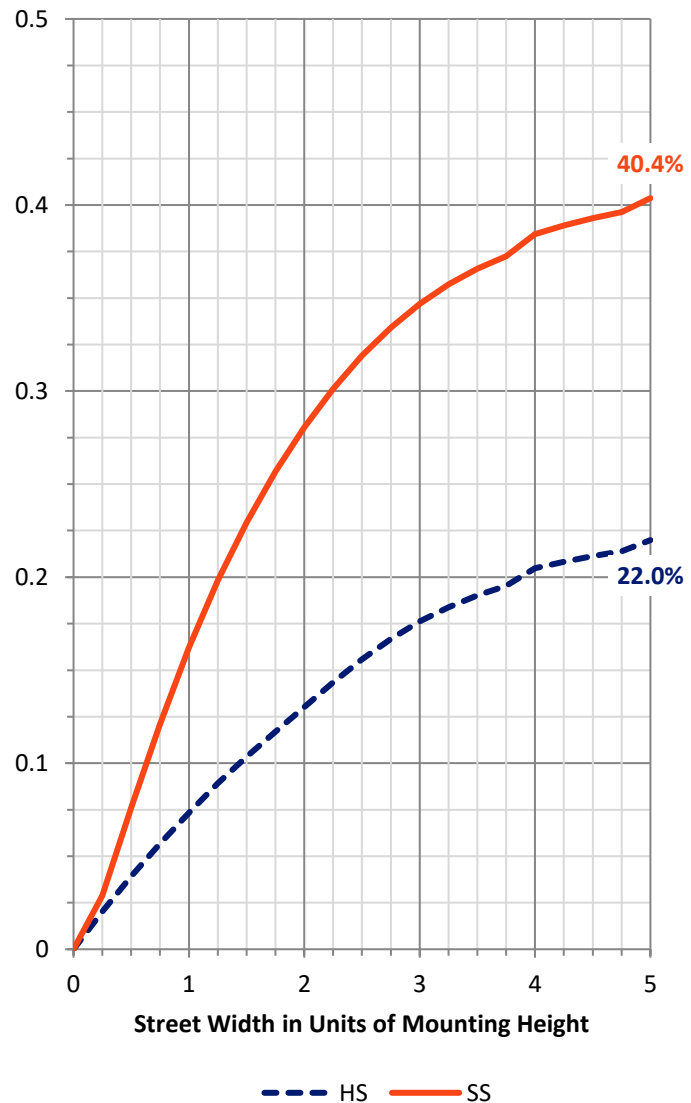
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3681.3	2260.8	5942.1
	% Lamp	23.0	14.1	37.1
<b>Street Side</b>	Lumens	6721.6	2710.2	9431.9
	% Lamp	42.0	16.9	58.9
<b>Total</b>	Lumens	10402.9	4971.1	15374.0
	% Lamp	65.0	31.1	96.1

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	11.8	0.1	0.1
10°-20°	37.3	0.2	0.2
20°-30°	127.0	0.8	0.8
30°-40°	303.9	2.0	1.9
40°-50°	658.9	4.3	4.1
50°-60°	879.4	5.7	5.5
60°-70°	2482.3	16.1	15.5
70°-80°	4468.2	29.1	27.9
80°-90°	1434.2	9.3	9.0
90°-100°	661.8	4.3	4.1
100°-110°	889.9	5.8	5.6
110°-120°	925.1	6.0	5.8
120°-130°	852.8	5.5	5.3
130°-140°	696.6	4.5	4.4
140°-150°	478.6	3.1	3.0
150°-160°	272.5	1.8	1.7
160°-170°	106.7	0.7	0.7
170°-180°	23.6	0.2	0.1
0°-90°	10402.9	67.7	65.0
0°-180°	15374.0	100.0	96.1



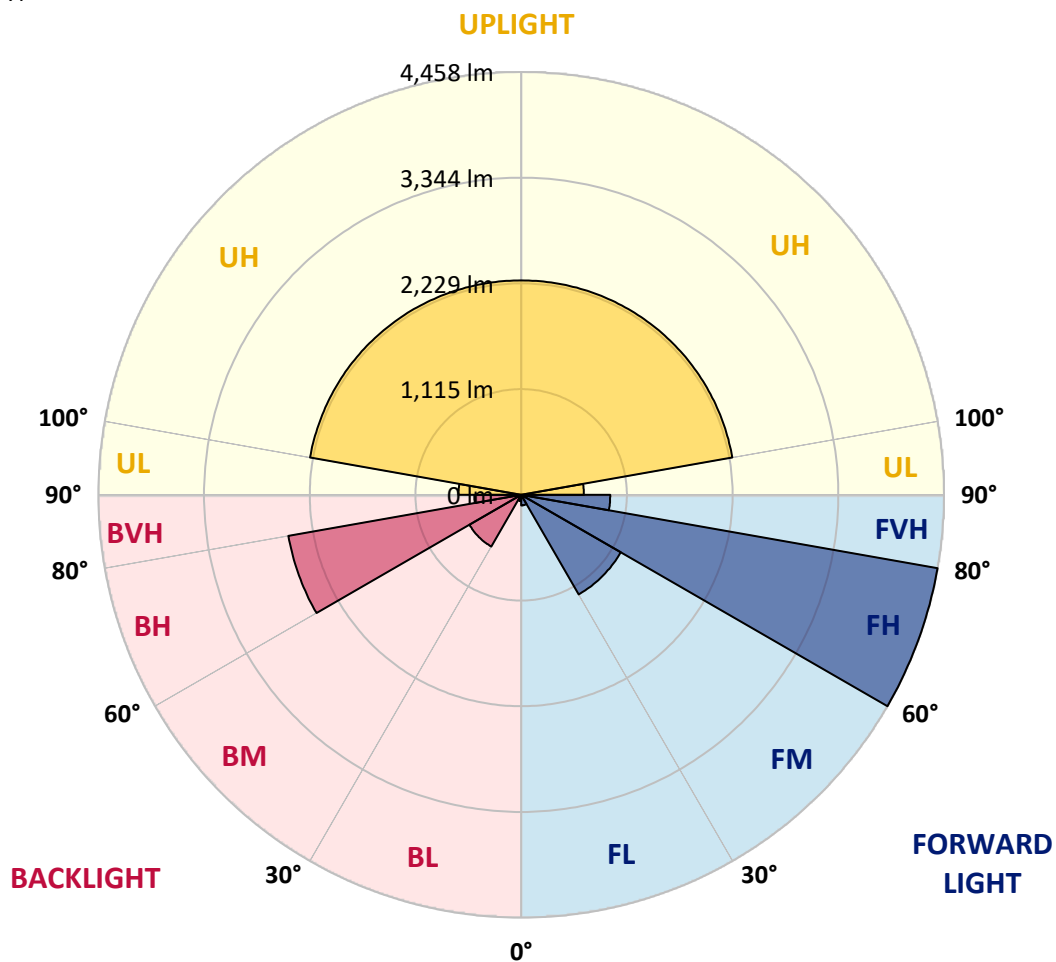
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	111.8	0.7			
FM (30°-60°)	1212.5	7.6			
FH (60°-80°)	4458.3	27.9			G2/5000
FVH (80°-90°)	939.0	5.9			G5
BL (0°-30°)	64.2	0.4	B0/110		
BM (30°-60°)	629.7	3.9	B1/1000		
BH (60°-80°)	2492.2	15.6	B3/2500		G3/2500
BVH (80°-90°)	495.1	3.1			G3/500
UL (90°-100°)	661.8	4.1		U4/1000	
UH (100°-180°)	2260.8	14.1		U5	
Trapped Light	626.0	3.9			

**BUG Rating: B3-U5-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	136	136	136	136	136	136	136	136	136	136	136
2.5°	136	136	136	136	136	136	136	131	131	126	126
5°	136	136	136	136	136	136	131	126	126	126	120
7.5°	136	136	136	136	136	136	136	126	126	115	115
10°	126	126	136	136	141	147	136	126	120	115	115
12.5°	126	131	131	136	141	157	157	136	126	115	115
15°	126	126	131	141	157	178	173	147	131	115	115
17.5°	136	136	136	152	173	210	199	157	136	120	115
20°	168	168	157	178	215	236	236	173	152	126	120
22.5°	199	199	178	199	257	293	320	225	183	141	136
25°	262	251	220	241	346	398	466	367	272	173	157
27.5°	409	393	325	346	561	686	723	650	409	215	189
30°	587	561	461	435	712	801	833	969	471	246	220
32.5°	534	503	430	388	623	702	911	1226	519	257	236
35°	576	550	461	409	691	707	849	1488	555	262	246
37.5°	524	503	430	382	608	623	712	1608	618	293	278
40°	639	644	566	492	864	948	959	2106	1016	367	340
42.5°	911	927	791	665	1158	1221	1163	2352	1482	445	414
45°	922	938	807	660	1111	1205	1137	2012	1870	534	466
47.5°	974	943	817	691	1158	1278	1210	1629	2373	702	534
50°	1121	1032	917	760	1252	1341	1283	1320	2949	911	629
52.5°	1037	953	849	702	1147	1221	1173	1032	3138	1189	707
55°	922	843	733	618	1027	1100	1063	917	2954	1273	801
57.5°	1048	938	770	660	1137	1252	1252	1032	3153	1252	870
60°	1058	990	796	655	1116	1241	1252	1074	3337	1283	1058
62.5°	932	990	885	723	1205	1425	1608	1702	4259	1708	1650
65°	1310	1524	1472	1221	1723	2551	3290	3541	6977	2713	2729
67.5°	1959	2252	2169	1860	2404	3976	5212	5736	10524	4474	4542
70°	2860	3284	3059	2703	3064	5553	7491	8727	13646	6401	6050
72.5°	3332	3803	3478	3101	3258	5752	8350	10131	13861	6778	5961
75°	2986	3358	3002	2776	2797	4746	7533	9644	12331	6003	4987
77.5°	2661	2965	2588	2446	2399	3704	6548	8497	10655	5160	3986
80°	2053	2294	2022	1933	1881	2771	4961	6721	8434	3960	2860
82.5°	1372	1524	1372	1304	1262	1818	3227	4589	5904	2478	1729
85°	712	770	707	691	691	911	1592	2247	3112	1310	927
87.5°	492	519	487	482	482	571	875	1142	1530	807	629
90°	461	487	456	461	466	503	697	822	1042	671	550
95°	566	608	561	592	571	555	718	754	896	676	576
105°	901	969	906	964	943	1042	1032	1247	1147	974	906
115°	943	964	927	959	938	927	948	1027	1084	938	943
125°	985	985	969	1016	990	995	1042	1053	1053	974	964
135°	1058	1069	1048	1074	1021	1048	1074	1137	1011	969	964
145°	838	822	801	807	791	765	760	812	744	702	702
155°	870	849	817	817	822	781	707	718	754	723	691
165°	335	335	335	340	335	340	325	320	325	325	320



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	335	335	335	340	335	340	325	236	230	325	288
180°	230	230	230	230	230	230	230	230	230	230	230





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	136	136	136	136	136	136	136	136	136	136
2.5°	126	126	120	126	126	126	126	126	126	126
5°	115	115	115	115	115	115	115	110	115	115
7.5°	115	115	115	115	115	110	110	105	105	105
10°	115	115	115	115	110	105	105	105	105	105
12.5°	115	110	110	115	105	105	105	105	105	105
15°	115	110	105	105	105	105	105	105	105	105
17.5°	115	115	110	110	115	110	110	115	115	115
20°	120	120	120	126	126	120	126	126	126	126
22.5°	131	131	131	141	141	141	141	141	141	136
25°	152	162	168	183	194	204	199	199	189	189
27.5°	189	215	215	225	241	236	246	236	225	220
30°	210	236	230	246	251	246	241	230	230	220
32.5°	225	251	251	262	272	267	262	251	251	241
35°	241	262	267	278	288	283	288	278	272	272
37.5°	278	304	325	330	335	330	330	330	320	325
40°	351	403	419	430	430	424	430	419	414	409
42.5°	419	482	487	503	498	508	498	482	477	471
45°	471	550	571	561	545	576	571	545	550	555
47.5°	524	639	676	650	613	650	676	634	629	629
50°	576	691	754	712	665	681	728	681	660	671
52.5°	613	681	765	739	660	697	770	702	665	681
55°	629	660	739	728	634	712	801	760	681	681
57.5°	655	665	723	749	671	702	786	781	702	681
60°	728	697	775	786	754	718	822	796	765	733
62.5°	1069	932	1084	1131	1074	1037	1147	1189	1158	1111
65°	1760	1414	1676	1765	1687	1598	1744	1865	1870	1833
67.5°	3096	2085	2499	2556	2431	2294	2472	2740	2829	2766
70°	4515	2677	3222	3216	3106	2939	3127	3478	3824	3667
72.5°	4914	2750	3222	3190	3085	2981	3117	3447	3897	3761
75°	4615	2478	2871	2813	2745	2693	2792	3064	3457	3447
77.5°	4034	2111	2446	2362	2342	2247	2352	2577	2918	2975
80°	2949	1613	1860	1802	1771	1697	1734	1902	2158	2190
82.5°	1697	1069	1221	1215	1179	1147	1126	1210	1372	1383
85°	901	650	718	723	707	691	665	691	739	754
87.5°	634	456	487	471	466	445	440	450	471	482
90°	566	419	435	424	419	398	398	409	424	430
95°	581	503	492	513	498	477	461	450	445	450
105°	901	854	833	922	917	875	843	781	786	733
115°	901	880	838	911	901	870	875	812	765	754
125°	953	1011	938	917	901	917	901	859	796	807
135°	959	969	980	917	896	901	849	807	697	712
145°	702	660	665	660	650	644	592	555	508	492
155°	644	571	540	597	613	618	587	545	440	409
165°	314	299	299	293	283	272	257	241	220	210



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	230	162	147	136	152	147	110	100	79	21
180°	230	230	230	230	230	230	230	230	230	230

(END OF REPORT)