

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: 768058

Luminaire Tested: **ACN15SXX33X1XP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768058  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN15SXX33X1XP  
Description: REFRACTIVE GLOBE TYPE III POLYCARBONATE  
WITH CLEAR TOP  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 16000 (1 lamp)  
Luminaire Lumens: 14258.3 lumens  
Efficiency: 89.1%  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U5 - G3

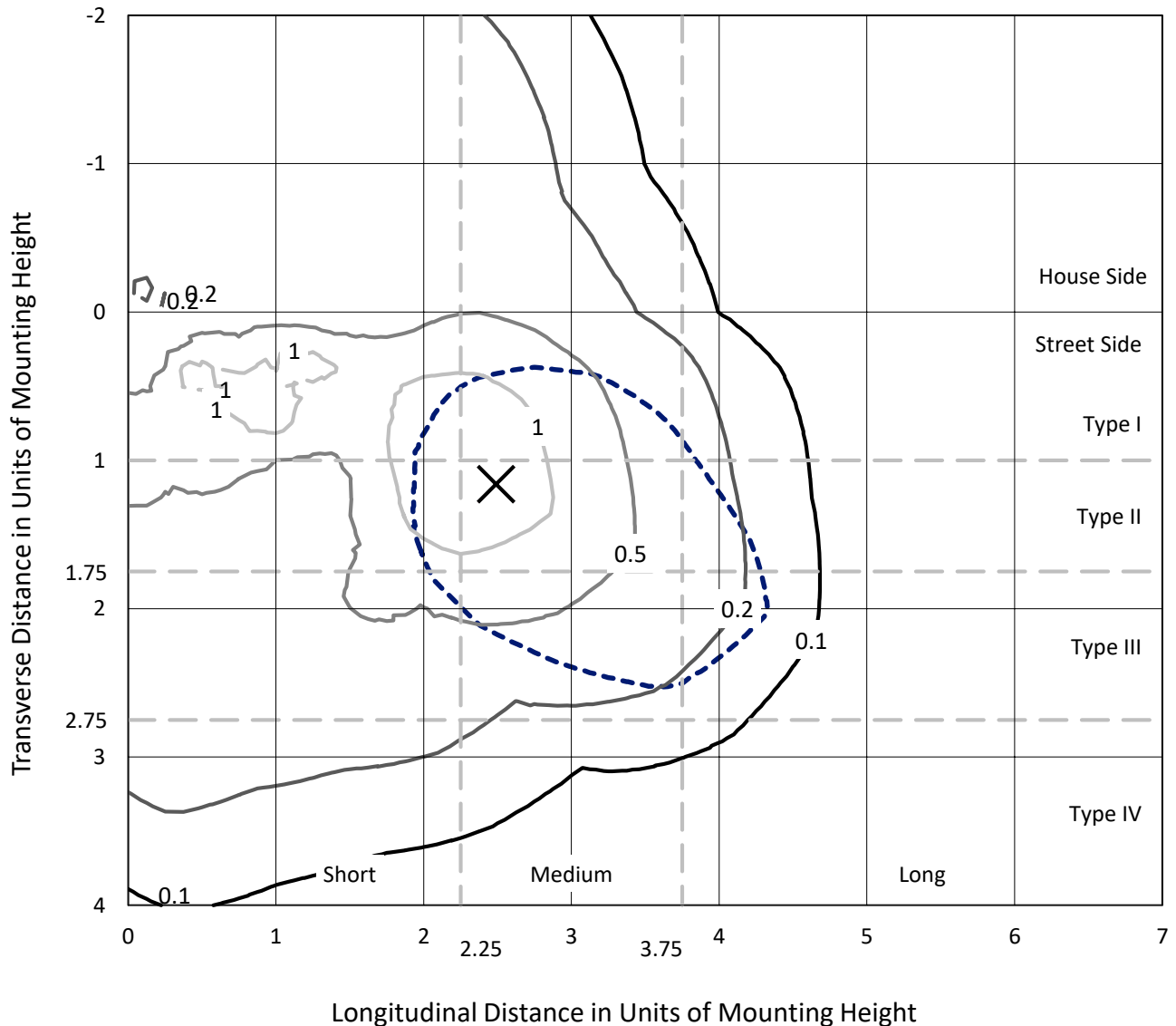
Input Watts (W): 150  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: 768058  
 CATALOG NUMBER: ACN15SXX33X1XP

### Iso-Footcandle Lines of Horizontal Illumination

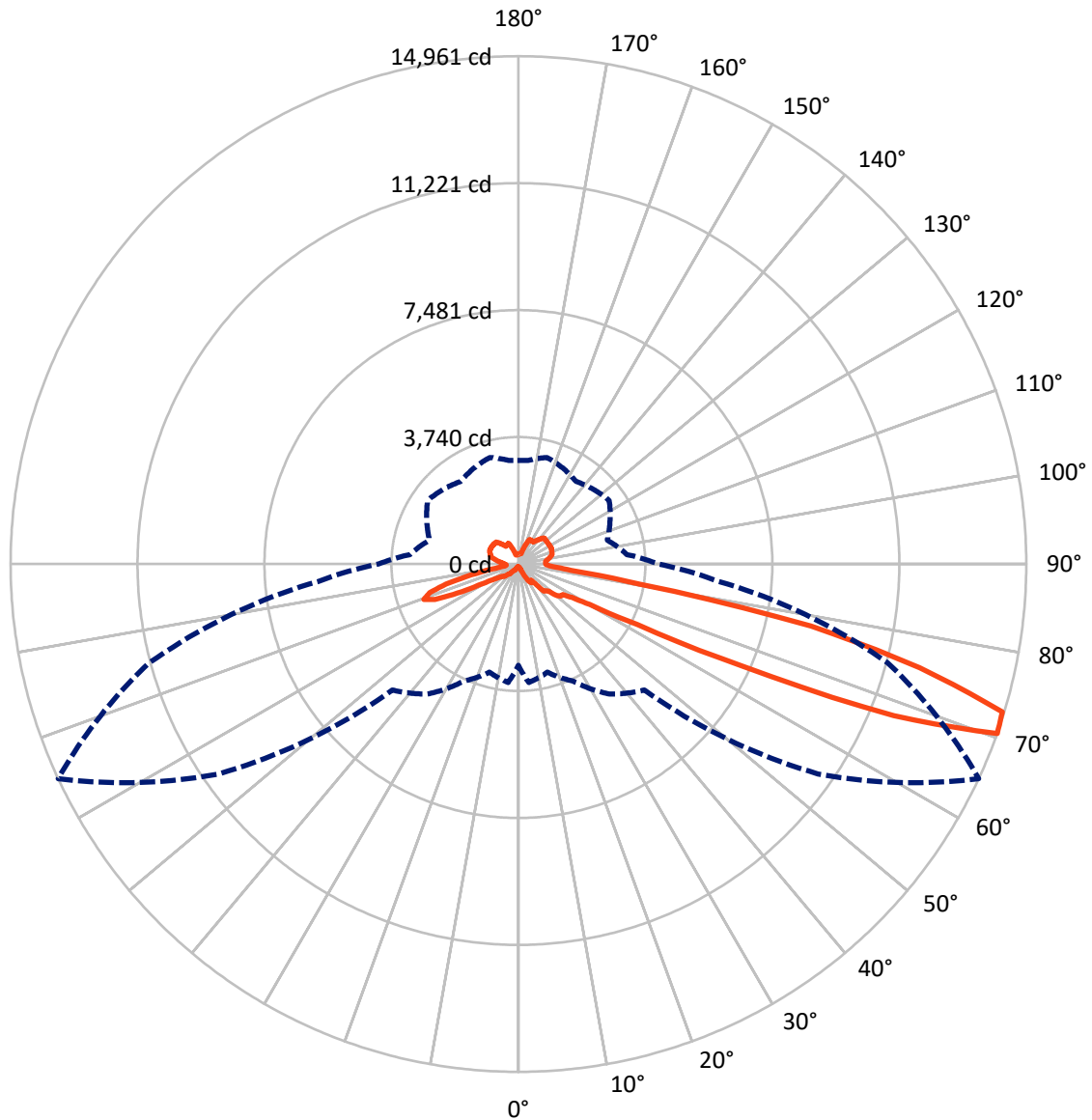
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.6 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: 768058  
CATALOG NUMBER: ACN15SXX33X1XP

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: 768058

CATALOG NUMBER: ACN15SXX33X1XP

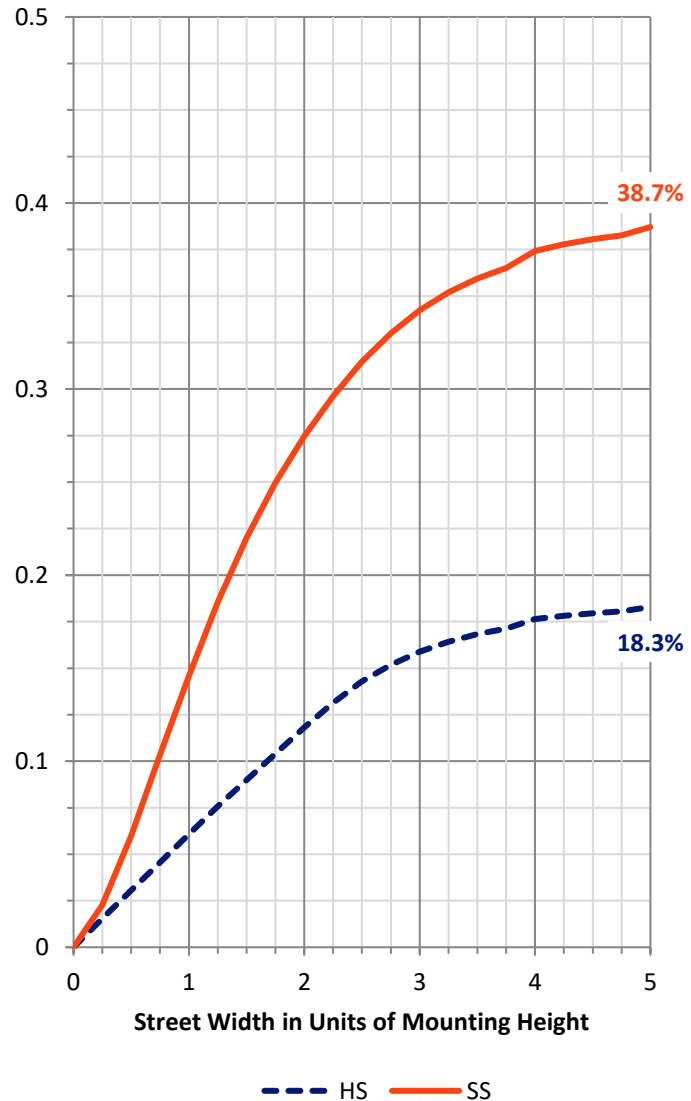
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3002.0	2281.4	5283.4
	% Lamp	18.8	14.3	33.0
<b>Street Side</b>	Lumens	6335.8	2639.1	8974.9
	% Lamp	39.6	16.5	56.1
<b>Total</b>	Lumens	9337.8	4920.5	14258.3
	% Lamp	58.4	30.8	89.1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	8.7	0.1	0.1
10°-20°	31.3	0.2	0.2
20°-30°	103.9	0.7	0.6
30°-40°	242.5	1.7	1.5
40°-50°	553.5	3.9	3.5
50°-60°	868.1	6.1	5.4
60°-70°	2946.8	20.7	18.4
70°-80°	3935.4	27.6	24.6
80°-90°	647.5	4.5	4.0
90°-100°	618.1	4.3	3.9
100°-110°	870.7	6.1	5.4
110°-120°	926.2	6.5	5.8
120°-130°	858.8	6.0	5.4
130°-140°	696.1	4.9	4.4
140°-150°	477.9	3.4	3.0
150°-160°	273.5	1.9	1.7
160°-170°	109.3	0.8	0.7
170°-180°	26.4	0.2	0.2
0°-90°	9337.8	65.5	58.4
0°-180°	14258.3	100.0	89.1

**Coefficient of Utilization**



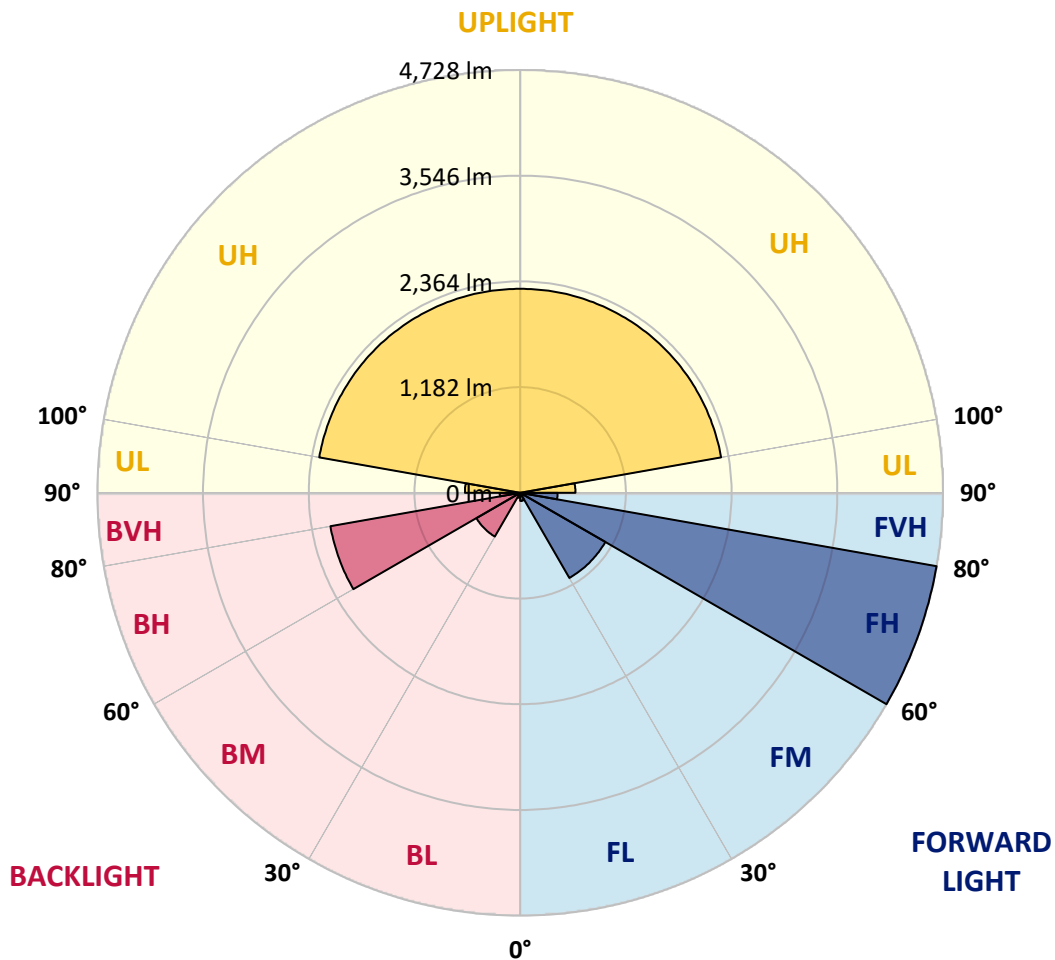
REPORT NUMBER: 768058

CATALOG NUMBER: ACN15SXX33X1XP

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

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	89.7	0.6			
FM (30°-60°)	1099.3	6.9			
FH (60°-80°)	4728.1	29.6			G2/5000
FVH (80°-90°)	418.7	2.6			G3/500
BL (0°-30°)	54.1	0.3	B0/110		
BM (30°-60°)	564.8	3.5	B1/1000		
BH (60°-80°)	2154.2	13.5	B3/2500		G3/2500
BVH (80°-90°)	228.8	1.4			G3/500
UL (90°-100°)	618.1	3.9		U4/1000	
UH (100°-180°)	2281.4	14.3		U5	
Trapped Light	1741.7	10.9			

**BUG Rating: B3-U5-G3**  
 Type III Medium





REPORT NUMBER: 768058

CATALOG NUMBER: ACN15SXX33X1XP

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	94	94	94	94	94	94	94	94	94	94	94
2.5°	105	100	100	100	94	100	94	94	89	89	89
5°	105	105	105	100	100	100	100	89	89	89	89
7.5°	105	105	105	105	110	105	105	94	94	89	89
10°	105	105	105	110	105	115	105	105	94	89	89
12.5°	105	105	110	110	120	126	120	115	100	94	89
15°	105	110	115	120	141	147	141	120	105	94	89
17.5°	126	126	131	147	173	168	152	126	105	100	100
20°	136	136	157	168	194	199	178	152	120	105	105
22.5°	157	157	173	199	225	251	225	210	157	136	126
25°	199	194	215	241	293	382	314	288	194	162	147
27.5°	241	241	262	330	430	576	487	419	267	199	178
30°	377	361	351	440	592	775	629	571	330	241	210
32.5°	461	445	409	503	639	838	671	623	351	246	204
35°	398	403	367	477	566	791	781	676	409	272	220
37.5°	471	466	403	513	524	733	786	597	424	272	225
40°	430	430	377	498	540	807	917	749	550	351	272
42.5°	639	629	545	770	801	1158	1456	1090	864	466	340
45°	807	822	697	959	917	1215	1875	1126	1111	503	372
47.5°	807	817	691	974	885	1121	2095	1194	1388	587	440
50°	859	875	739	1037	985	1241	2352	1461	1802	739	529
52.5°	932	943	781	1016	1001	1205	2090	1566	2237	838	581
55°	828	838	686	870	864	1016	1503	1587	2247	922	639
57.5°	775	796	655	838	828	1001	1346	1854	2247	1168	796
60°	838	891	754	990	969	1173	1472	2415	2698	1461	1032
62.5°	911	980	870	1079	1116	1425	2169	3929	4028	2090	1592
65°	1341	1467	1399	1755	1912	2420	4442	7234	6448	3185	2509
67.5°	2158	2509	2362	2844	3426	4102	8161	11922	9581	4657	3536
70°	2986	3504	3300	3803	4678	5249	10781	14961	11262	5925	4117
72.5°	3174	3787	3499	3892	4982	5469	11158	14908	10733	6244	4102
75°	2724	3284	3012	3180	4149	4500	9439	12211	8428	5401	3263
77.5°	2158	2556	2368	2410	2975	3321	7171	8806	5684	3614	1991
80°	1142	1299	1194	1152	1273	1310	3033	3641	2111	1409	880
82.5°	513	561	524	540	592	629	1268	1566	980	796	540
85°	377	414	398	398	445	461	838	1027	681	602	424
87.5°	356	382	372	377	409	435	697	838	597	550	414
90°	388	409	398	409	435	445	665	796	602	571	450
95°	492	498	492	503	540	540	697	801	660	613	529
105°	1027	995	953	959	922	859	959	1027	995	922	891
115°	1016	980	959	969	943	927	990	1074	1063	943	948
125°	985	974	1058	1032	1037	995	1032	1063	1079	927	948
135°	1048	1074	1027	1042	1042	1011	1048	1074	1079	969	985
145°	712	728	754	801	791	760	760	791	765	702	712
155°	639	650	770	828	822	796	801	791	749	754	739
165°	325	325	346	335	335	335	325	314	304	293	293



REPORT NUMBER: 768058

CATALOG NUMBER: ACN15SXX33X1XP

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	157	199	346	283	335	283	325	314	304	241	293
180°	272	272	272	272	272	272	272	272	272	272	272





REPORT NUMBER: 768058

CATALOG NUMBER: ACN15SXX33X1XP

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	94	94	94	94	94	94	94	94	94	94
2.5°	84	89	84	84	84	84	84	84	84	84
5°	84	84	79	79	79	79	79	79	73	84
7.5°	89	84	79	79	79	79	79	73	79	84
10°	89	84	89	79	79	84	84	84	84	84
12.5°	89	89	84	79	79	84	84	84	84	84
15°	89	89	89	84	89	89	89	89	94	94
17.5°	100	94	94	94	100	100	94	105	105	105
20°	105	100	110	110	110	110	115	115	115	115
22.5°	120	120	120	120	120	126	126	131	136	136
25°	141	136	141	152	162	173	178	178	189	189
27.5°	168	168	178	189	189	199	199	194	199	199
30°	194	183	199	204	204	204	199	194	199	199
32.5°	199	199	215	220	215	220	220	215	215	210
35°	215	215	225	230	236	241	241	236	241	241
37.5°	220	225	246	262	272	278	283	288	288	283
40°	262	288	325	340	351	361	372	372	367	367
42.5°	325	356	393	403	414	419	430	430	419	419
45°	351	388	424	445	450	456	466	477	466	471
47.5°	430	456	508	529	524	540	550	571	545	555
50°	498	524	561	576	561	592	581	592	566	566
52.5°	555	581	597	613	581	608	602	587	571	566
55°	592	644	650	702	629	655	655	608	608	597
57.5°	691	770	775	880	781	796	786	697	697	681
60°	849	911	943	1074	1001	1048	1058	974	917	911
62.5°	1273	1278	1341	1545	1498	1493	1582	1561	1420	1414
65°	1938	1854	1985	2336	2273	2242	2399	2467	2284	2294
67.5°	2693	2415	2672	3049	2939	2792	3007	3122	2960	2954
70°	3206	2708	2975	3263	3117	2965	3112	3248	3059	3049
72.5°	3290	2541	2745	2871	2750	2609	2651	2745	2609	2598
75°	2829	2048	2216	2273	2174	2048	2069	2122	2059	2032
77.5°	1807	1331	1425	1404	1304	1257	1231	1226	1200	1163
80°	859	655	665	650	608	581	592	587	576	555
82.5°	534	424	424	419	414	398	403	414	403	398
85°	430	356	361	356	356	346	351	367	361	356
87.5°	419	351	367	372	356	346	356	372	361	367
90°	450	388	409	409	388	382	393	403	393	398
95°	519	471	492	513	477	471	477	498	466	471
105°	896	917	828	885	896	828	849	911	843	859
115°	943	927	932	917	854	786	812	854	765	786
125°	948	932	938	943	911	854	870	880	948	943
135°	959	927	922	922	885	817	843	875	896	870
145°	671	655	644	639	613	581	602	608	592	608
155°	728	691	676	660	639	597	576	503	403	377
165°	283	278	272	262	251	251	246	246	230	230



REPORT NUMBER: 768058

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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	283	278	272	230	251	251	246	215	189	230
180°	272	272	272	272	272	272	272	272	272	272

(END OF REPORT)