

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: 768223

Luminaire Tested: **ACN15SXX33X1XPR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768223
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN15SXX33X1XPR
Description: REFRACTIVE GLOBE TYPE III
POLYCARBONATE WITH CLEAR TOP
AND DOWNLIGHT REFLECTOR
Light Source: 150W HPS CL ED-23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 16000 (1 lamp)
Luminaire Lumens: 12851.4 lumens
Efficiency: 80.3%
Efficacy: 85.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B3 - U5 - G3

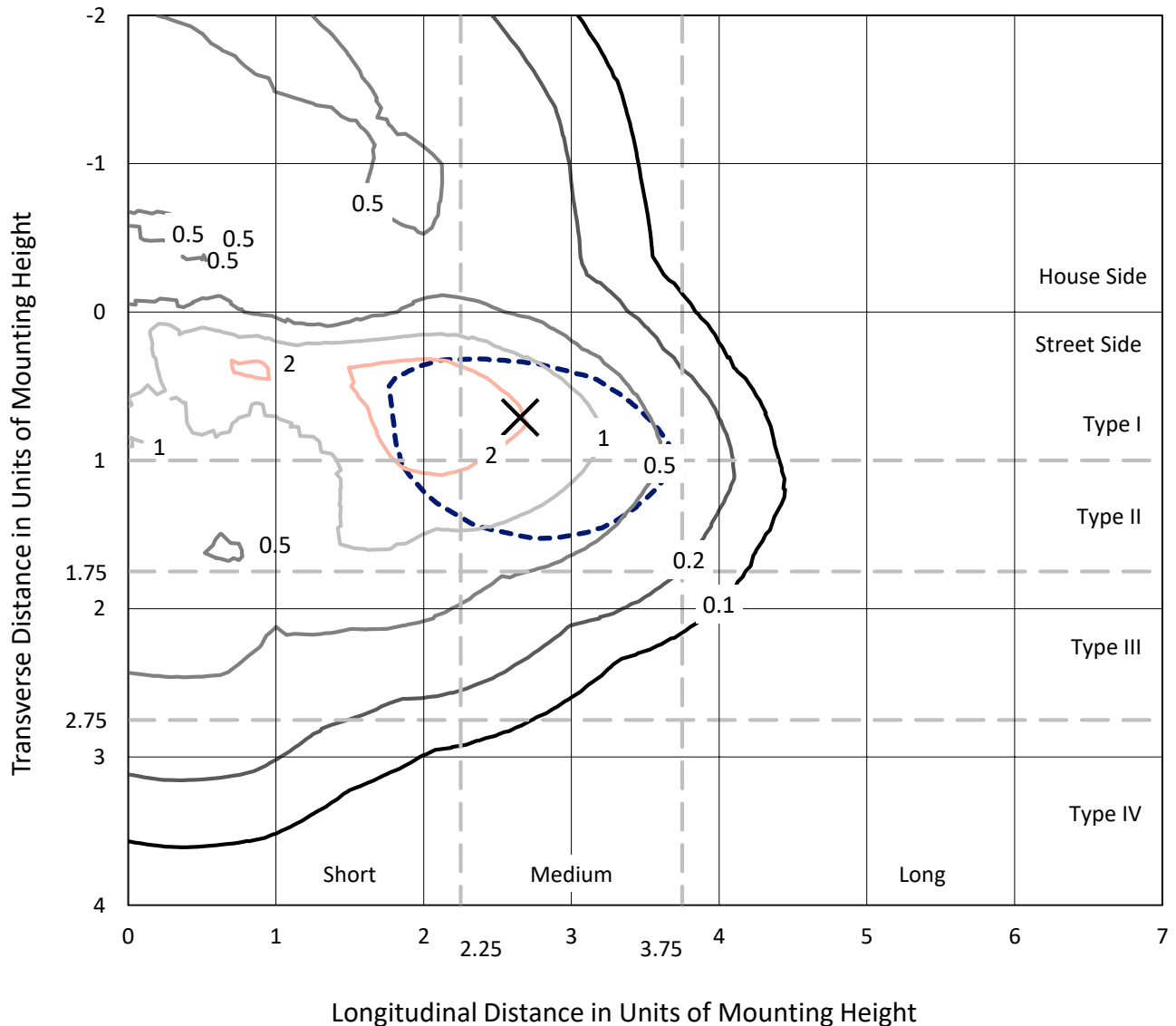
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

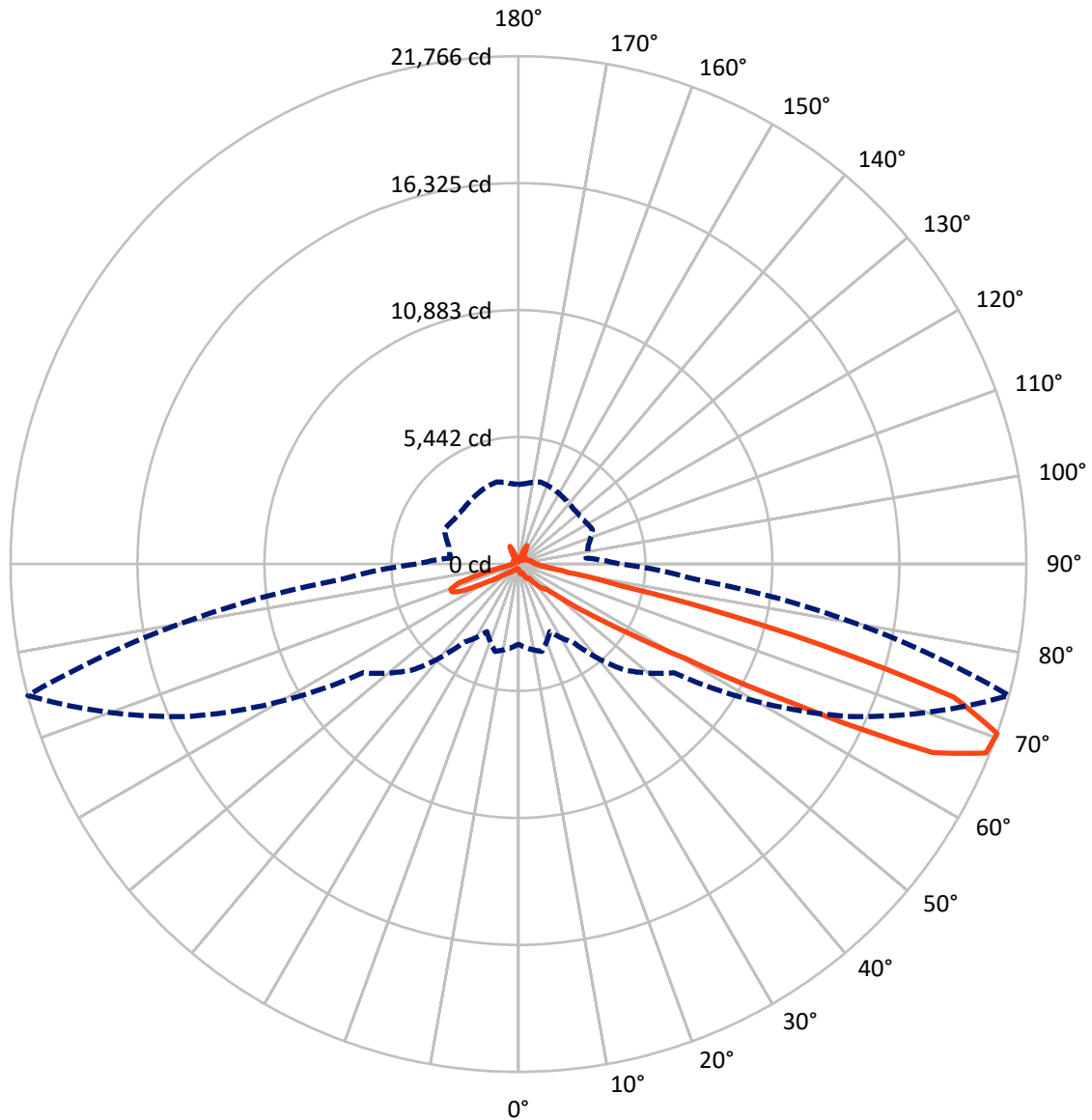
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 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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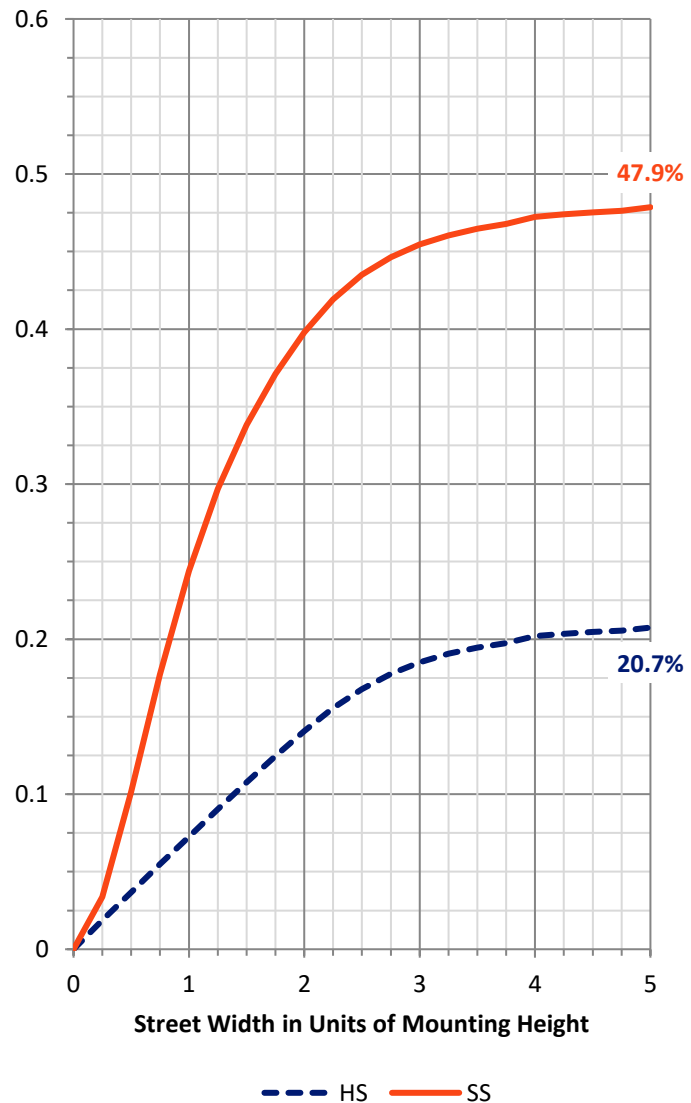
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3375.8	771.1	4146.9
	% Lamp	21.1	4.8	25.9
Street Side	Lumens	7785.4	919.1	8704.5
	% Lamp	48.7	5.7	54.4
Total	Lumens	11161.1	1690.2	12851.4
	% Lamp	69.8	10.6	80.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	23.6	0.2	0.1
10°-20°	87.3	0.7	0.5
20°-30°	202.9	1.6	1.3
30°-40°	384.4	3.0	2.4
40°-50°	671.1	5.2	4.2
50°-60°	1370.7	10.7	8.6
60°-70°	4551.6	35.4	28.4
70°-80°	3370.2	26.2	21.1
80°-90°	499.2	3.9	3.1
90°-100°	315.2	2.5	2.0
100°-110°	258.2	2.0	1.6
110°-120°	227.1	1.8	1.4
120°-130°	204.5	1.6	1.3
130°-140°	156.5	1.2	1.0
140°-150°	218.1	1.7	1.4
150°-160°	222.0	1.7	1.4
160°-170°	78.0	0.6	0.5
170°-180°	9.5	0.1	0.1
0°-90°	11161.1	86.8	69.8
0°-180°	12851.4	100.0	80.3



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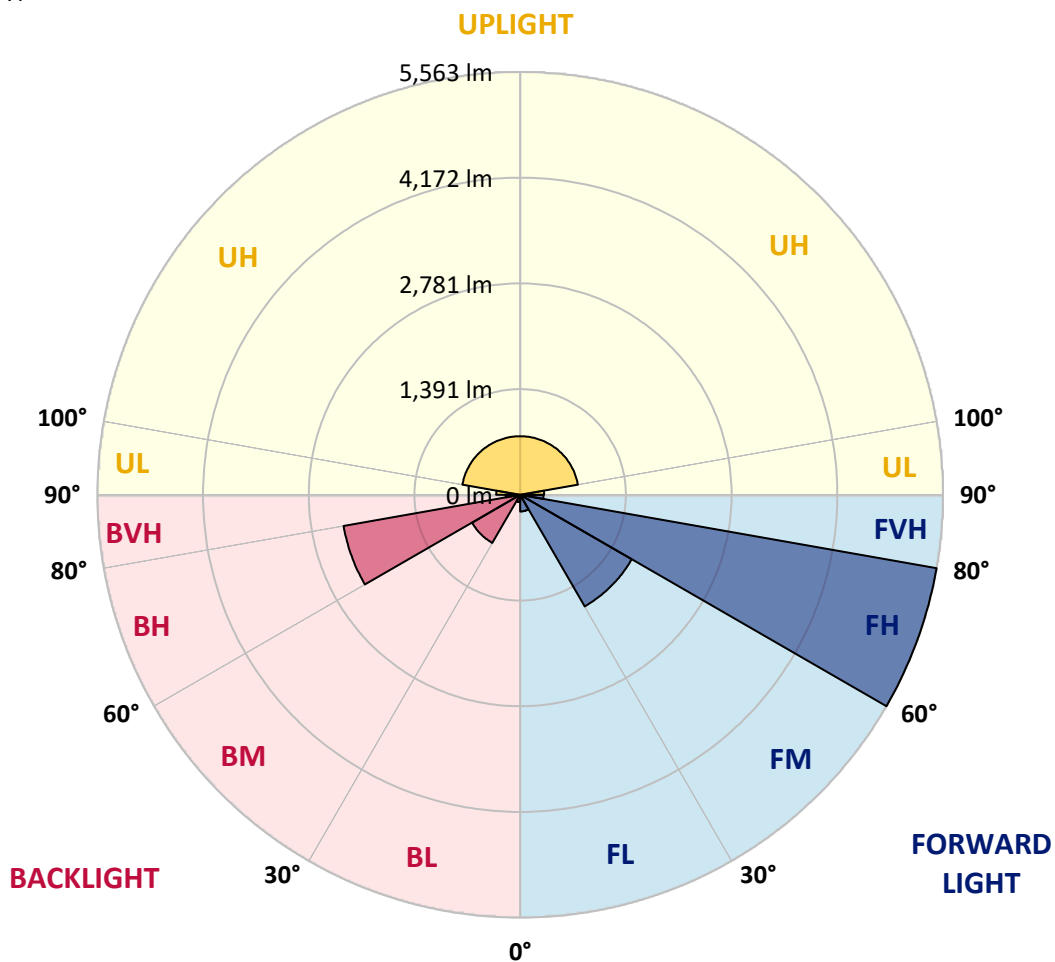
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	219.4	1.4			
FM	(30°-60°)	1695.2	10.6			
FH	(60°-80°)	5562.8	34.8			G3/7500
FVH	(80°-90°)	308.0	1.9			G3/500
BL	(0°-30°)	94.5	0.6	B0/110		
BM	(30°-60°)	731.1	4.6	B1/1000		
BH	(60°-80°)	2359.0	14.7	B3/2500		G3/2500
BVH	(80°-90°)	191.2	1.2			G2/225
UL	(90°-100°)	315.2	2.0		U3/500	
UH	(100°-180°)	771.1	4.8		U4/1000	
Trapped Light		3148.6	19.7			

BUG Rating: B3-U5-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	229	229	229	229	229	229	229	229	229	229	229
2.5°	251	251	251	256	251	245	245	240	235	224	224
5°	251	251	256	273	294	327	344	333	305	273	262
7.5°	262	267	278	311	344	376	393	382	333	289	267
10°	262	267	289	322	354	398	420	376	322	284	262
12.5°	262	267	300	360	436	534	622	573	431	305	262
15°	284	289	322	387	469	578	616	545	425	344	289
17.5°	284	300	333	409	545	567	551	458	371	294	256
20°	305	305	338	431	545	589	578	496	376	289	251
22.5°	338	349	365	485	584	687	709	616	431	327	278
25°	414	414	414	513	644	802	873	736	485	344	294
27.5°	622	605	578	633	873	1080	1129	1031	649	414	349
30°	633	600	567	589	791	982	1058	1167	654	420	360
32.5°	676	638	611	616	894	1123	1303	1494	758	458	387
35°	600	573	534	545	802	954	1189	1385	736	458	404
37.5°	665	649	584	562	911	998	1200	1451	802	469	398
40°	960	949	807	753	1282	1276	1494	2023	1113	567	431
42.5°	1025	1003	845	796	1303	1276	1445	2509	1358	578	442
45°	971	965	834	769	1178	1156	1216	2787	1500	594	469
47.5°	971	965	829	791	1156	1178	1183	2705	1598	605	502
50°	1058	1042	916	873	1314	1325	1314	2656	2067	693	562
52.5°	1309	1303	1118	1069	1691	1685	1658	2743	2967	862	682
55°	1538	1511	1249	1194	1920	1947	1980	3081	4036	1102	829
57.5°	1767	1685	1396	1298	2072	2236	2416	3796	5634	1582	1113
60°	1843	1789	1614	1467	2247	2645	3043	5208	8202	2301	1483
62.5°	2389	2400	2394	2083	3114	3730	4516	8944	13012	3654	2138
65°	3283	3370	3545	3010	4472	5606	6670	13918	19481	5497	3109
67.5°	3687	3818	4090	3376	4756	6615	8033	15925	21613	6921	3899
70°	3436	3599	3878	3196	4096	6419	8126	15445	21766	7635	4325
72.5°	2727	2945	3158	2640	2989	5116	6621	13176	19508	6839	4079
75°	1778	1958	2078	1751	1843	2945	4123	8889	12058	4227	2716
77.5°	916	1025	1080	900	867	1249	1620	3801	4499	1789	1320
80°	513	556	578	507	507	709	883	1805	2116	916	731
82.5°	382	398	420	376	376	507	611	1129	1358	649	540
85°	305	322	333	311	316	404	474	824	982	507	431
87.5°	294	300	322	305	305	376	431	714	845	469	409
90°	251	267	284	273	267	333	387	633	753	409	349
95°	218	229	235	229	229	278	316	513	633	311	262
105°	207	213	218	196	196	229	256	425	534	278	218
115°	142	147	153	147	153	164	175	322	376	185	153
125°	251	278	267	284	273	316	344	458	414	278	235
135°	142	142	136	125	125	125	153	289	213	142	136
145°	185	196	196	202	196	218	240	256	262	207	196
155°	731	714	709	736	824	774	900	982	873	916	654
165°	98	98	98	98	104	98	115	109	109	98	98



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	98	98	98	98	104	98	115	109	109	55	60
180°	98	98	98	98	98	98	98	98	98	98	98



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	229	229	229	229	229	229	229	229	229	229
2.5°	218	218	207	202	196	191	191	180	185	185
5°	245	224	202	191	185	175	175	169	169	175
7.5°	245	207	191	180	164	158	158	153	153	164
10°	240	207	185	169	164	158	158	158	153	153
12.5°	235	196	180	180	175	175	169	185	175	175
15°	256	235	202	191	191	191	191	191	196	196
17.5°	235	207	191	180	180	185	185	185	196	196
20°	229	207	191	180	185	185	191	196	196	196
22.5°	251	218	202	202	202	202	207	207	207	207
25°	273	235	224	229	229	235	235	235	235	229
27.5°	305	267	267	278	289	300	305	300	284	284
30°	305	284	294	294	311	311	311	311	294	294
32.5°	338	316	333	338	349	349	349	344	349	349
35°	365	338	344	354	371	376	382	376	382	382
37.5°	360	322	327	338	344	360	371	371	371	371
40°	398	376	387	393	393	393	393	393	393	404
42.5°	420	458	464	469	469	464	469	469	464	458
45°	464	496	507	507	513	529	529	540	534	524
47.5°	502	529	534	518	529	551	556	578	567	556
50°	556	578	578	556	567	589	594	611	600	600
52.5°	660	720	709	665	704	725	742	725	720	709
55°	796	894	905	824	883	900	889	883	889	883
57.5°	1031	1173	1227	1102	1189	1205	1156	1140	1145	1167
60°	1298	1434	1543	1413	1500	1560	1494	1456	1423	1451
62.5°	1756	1952	2138	1942	2001	2083	2089	2001	1903	1920
65°	2361	2661	2934	2667	2765	2890	2978	2820	2738	2672
67.5°	2770	3081	3441	3223	3294	3425	3545	3474	3376	3294
70°	2912	3098	3501	3349	3338	3425	3545	3643	3458	3403
72.5°	2650	2743	3087	2989	2929	3005	3103	3218	3021	2912
75°	1805	1849	2051	2001	1974	2012	2105	2100	1909	1789
77.5°	949	943	1009	971	954	987	1058	1053	862	807
80°	551	529	540	507	502	502	545	567	474	458
82.5°	414	387	393	382	354	365	387	414	376	371
85°	333	316	316	316	289	294	316	327	311	305
87.5°	322	300	300	300	278	284	300	305	294	294
90°	278	262	267	267	245	256	267	278	267	262
95°	218	218	229	224	213	224	229	235	240	229
105°	191	207	224	251	240	240	245	251	251	240
115°	147	164	169	164	169	169	175	175	164	164
125°	240	262	305	284	311	262	235	213	224	175
135°	136	136	142	131	136	131	136	136	136	120
145°	191	196	207	218	240	240	273	251	235	164
155°	796	845	998	824	856	758	704	676	567	458
165°	104	120	125	109	109	104	98	98	87	87



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	104	82	60	109	109	104	98	98	87	87
180°	98	98	98	98	98	98	98	98	98	98

(END OF REPORT)