

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: 768878

Luminaire Tested: **ACN25SXX5514X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768878
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN25SXX5514X
Description: GENERATIONS POST TOP
W/TALL SPUN TOP & CAGE
Light Source: 250 WATT HPS CLEAR E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 27500 (1 lamp)
Luminaire Lumens: 12279.8 lumens
Efficiency: 44.7%
Efficacy: 49.1 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U3 - G4

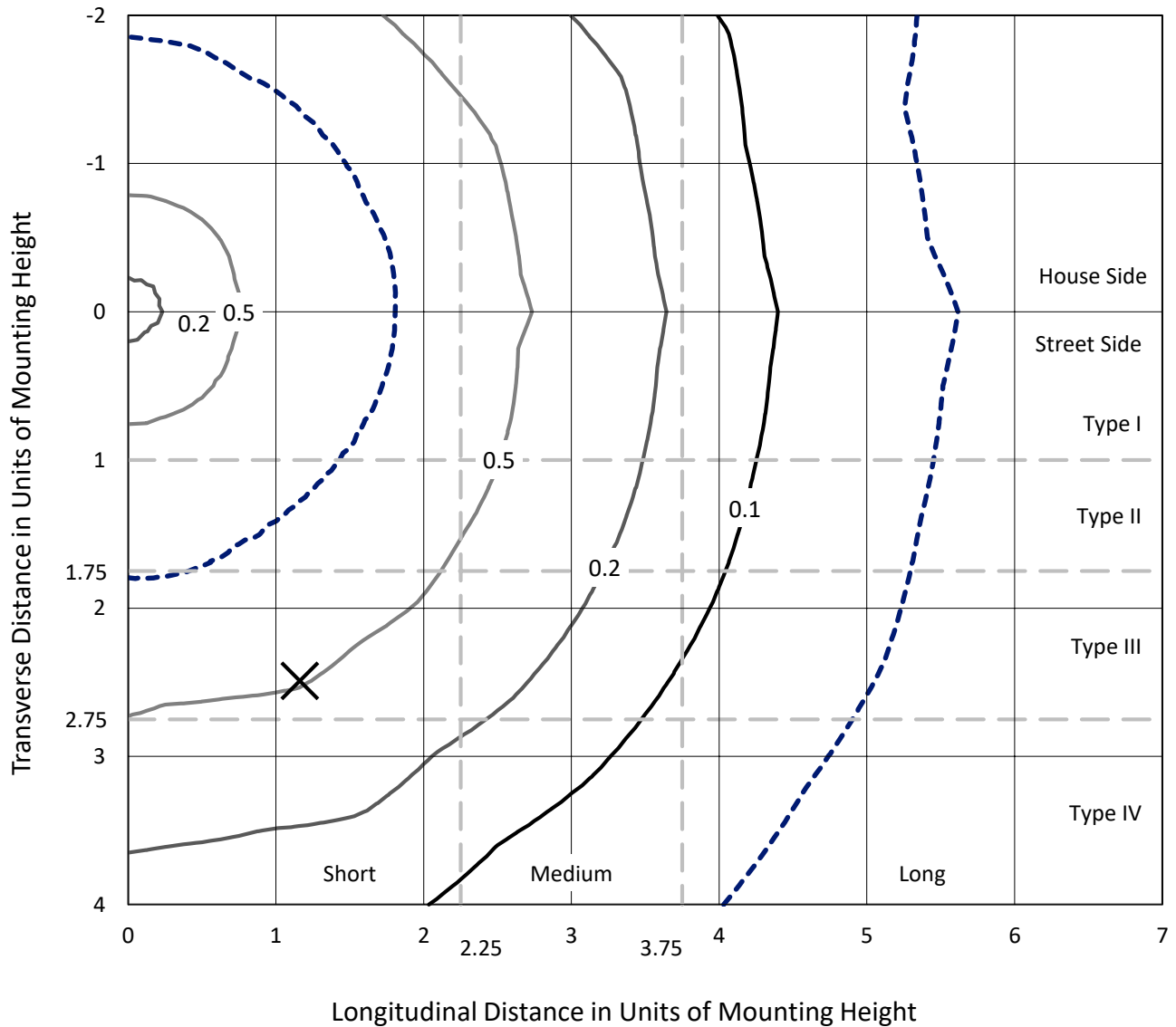
Input Watts (W): 250
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

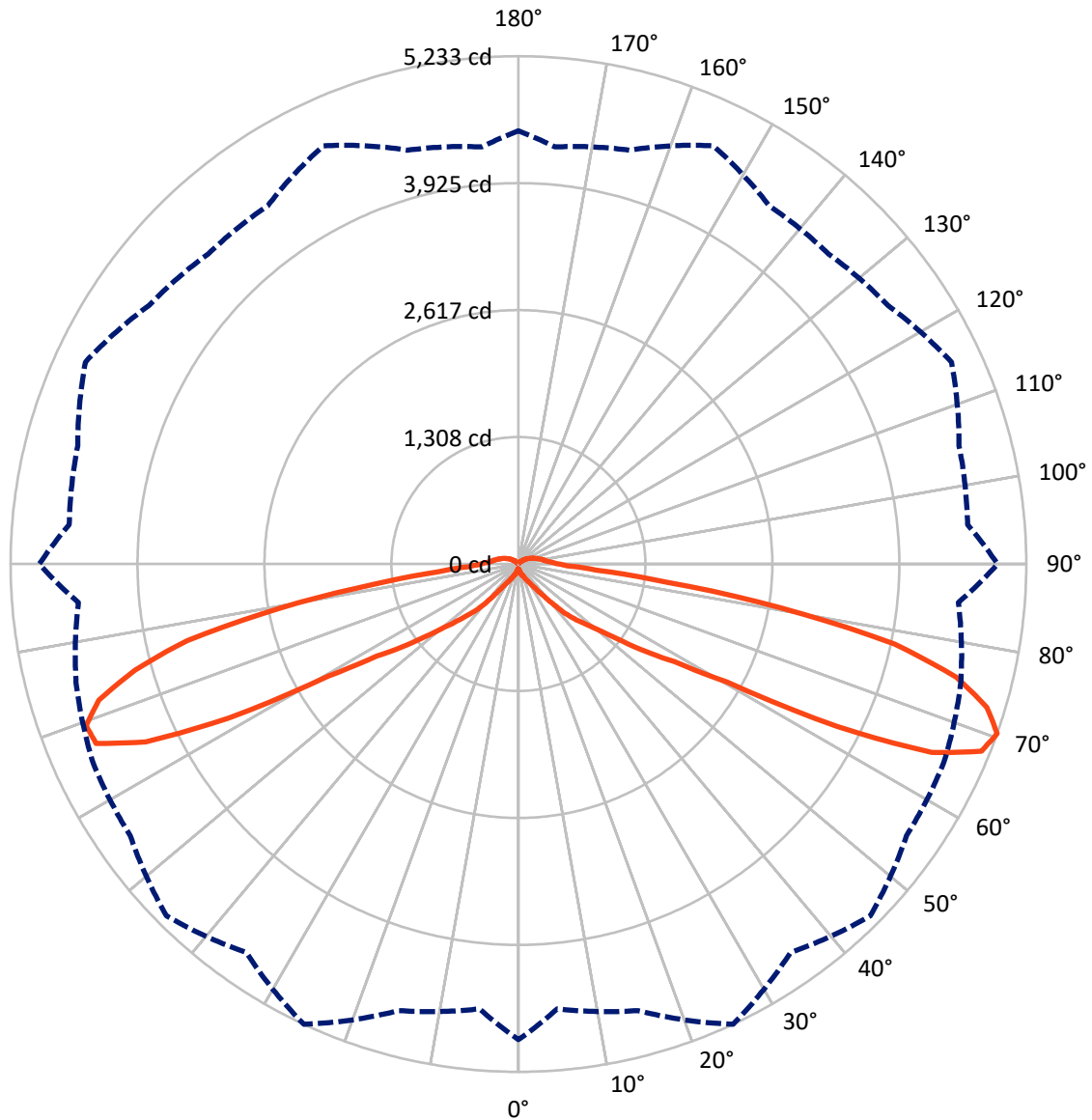
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 25-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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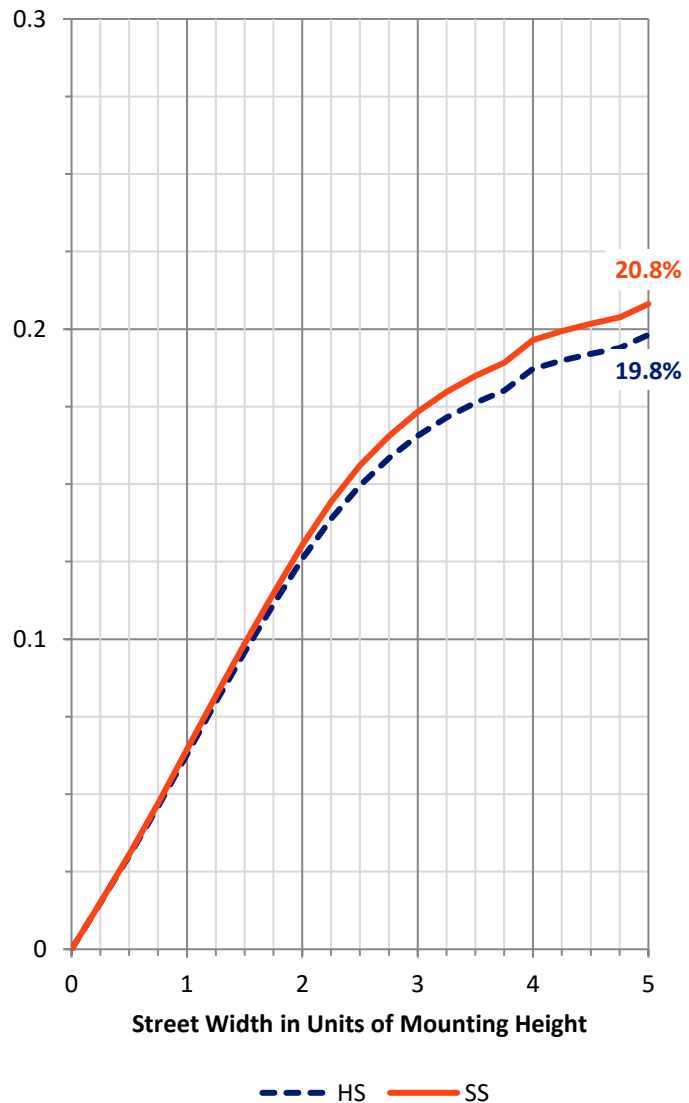
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5601.1	369.2	5970.4
	% Lamp	20.4	1.3	21.7
Street Side	Lumens	5930.7	378.7	6309.4
	% Lamp	21.6	1.4	22.9
Total	Lumens	11531.8	748.0	12279.8
	% Lamp	41.9	2.7	44.7

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	5.8	0.0	0.0
10°-20°	29.5	0.2	0.1
20°-30°	77.7	0.6	0.3
30°-40°	210.1	1.7	0.8
40°-50°	600.3	4.9	2.2
50°-60°	1371.3	11.2	5.0
60°-70°	3920.8	31.9	14.3
70°-80°	4179.5	34.0	15.2
80°-90°	1137.0	9.3	4.1
90°-100°	319.0	2.6	1.2
100°-110°	205.0	1.7	0.7
110°-120°	126.9	1.0	0.5
120°-130°	68.8	0.6	0.3
130°-140°	28.5	0.2	0.1
140°-150°	8.3	0.1	0.0
150°-160°	1.3	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	11531.8	93.9	41.9
0°-180°	12279.8	100.0	44.7



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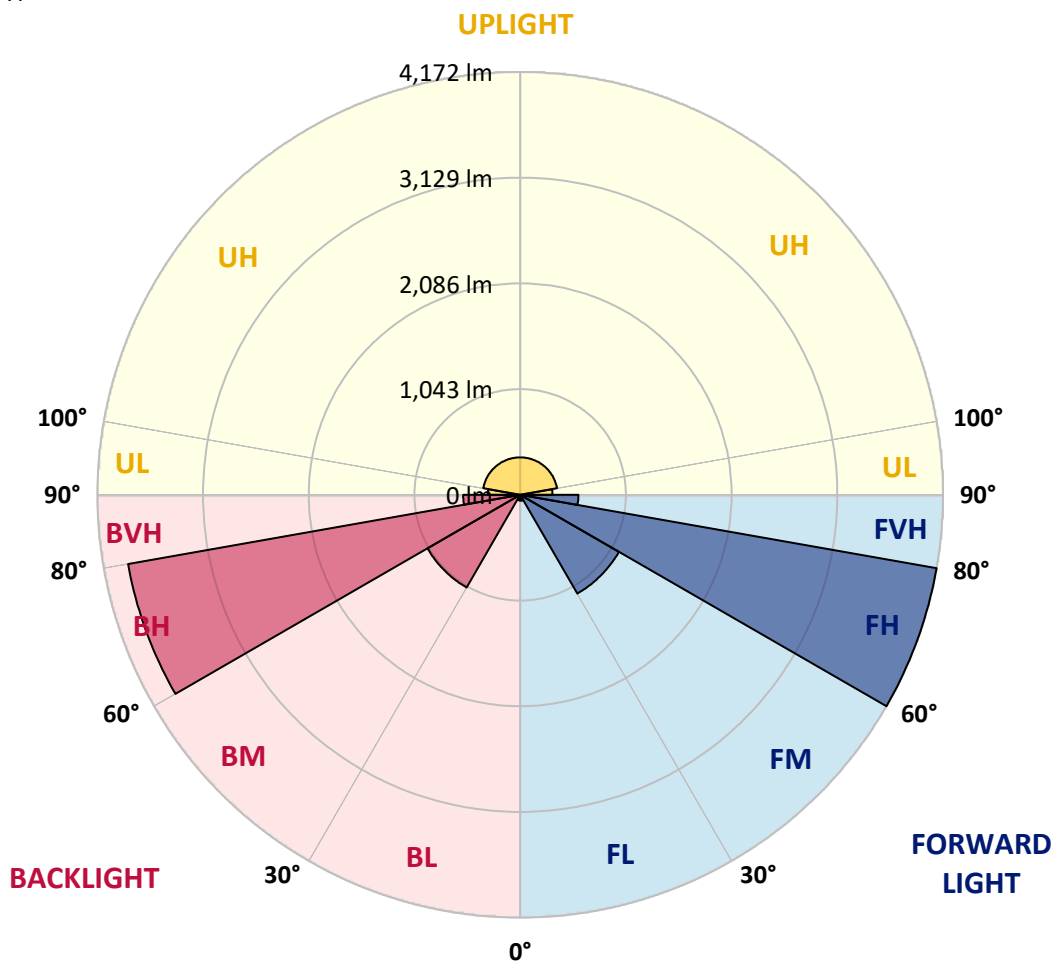
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	58.4	0.2			
FM (30°-60°)	1125.6	4.1			
FH (60°-80°)	4172.1	15.2			G2/5000
FVH (80°-90°)	574.6	2.1			G4/750
BL (0°-30°)	54.5	0.2	B0/110		
BM (30°-60°)	1056.1	3.8	B2/2500		
BH (60°-80°)	3928.1	14.3	B4/5000		G2/5000
BVH (80°-90°)	562.4	2.0			G4/750
UL (90°-100°)	319.0	1.2		U3/500	
UH (100°-180°)	369.2	1.3		U3/500	
Trapped Light	15220.2	55.3			

BUG Rating: B4-U3-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	55	55	55	55	55	55	55	55	55	55	55
2.5°	55	45	55	55	55	55	55	59	50	50	45
5°	45	55	55	55	55	59	55	55	50	45	45
7.5°	64	64	59	64	73	68	64	64	64	55	55
10°	82	82	82	82	82	82	82	77	73	73	73
12.5°	91	91	91	91	91	91	91	91	91	82	82
15°	109	105	109	109	105	109	109	105	109	105	100
17.5°	118	118	118	123	118	118	123	123	118	118	118
20°	127	123	127	127	127	132	123	123	127	127	123
22.5°	145	141	136	141	145	150	150	141	141	141	136
25°	164	173	168	173	173	173	177	168	168	173	168
27.5°	200	195	191	195	191	195	195	195	195	186	191
30°	218	227	223	223	223	223	227	223	223	223	214
32.5°	255	259	264	264	255	264	264	268	264	259	255
35°	309	309	309	318	314	309	314	318	323	318	314
37.5°	409	405	405	409	396	396	396	409	414	418	414
40°	536	532	527	523	514	518	527	541	546	555	550
42.5°	673	664	664	673	673	691	686	700	696	696	691
45°	755	736	768	805	827	846	841	814	796	773	750
47.5°	818	805	864	918	959	991	955	936	873	818	796
50°	918	918	982	1064	1118	1141	1105	1077	991	914	896
52.5°	1109	1109	1177	1282	1364	1387	1350	1273	1155	1105	1096
55°	1346	1387	1441	1591	1696	1682	1678	1564	1418	1396	1387
57.5°	1573	1641	1718	1896	1968	1946	1959	1818	1655	1632	1591
60°	2146	2137	2187	2469	2537	2523	2459	2369	2159	2137	2123
62.5°	3455	3287	3296	3687	3691	3737	3541	3482	3373	3264	3296
65°	4492	4178	4128	4682	4496	4505	4373	4319	4319	4128	4269
67.5°	4964	4551	4564	5146	4892	5014	4792	4742	4682	4505	4769
70°	4901	4601	4764	5233	4887	5128	4882	4837	4719	4551	4937
72.5°	4673	4501	4651	5046	4660	4882	4764	4723	4587	4419	4705
75°	4282	4137	4119	4664	4187	4410	4364	4287	4164	4091	4246
77.5°	3619	3500	3446	3960	3523	3705	3673	3628	3500	3482	3582
80°	2500	2446	2437	2741	2450	2605	2541	2573	2509	2505	2559
82.5°	1518	1491	1459	1537	1359	1437	1414	1523	1555	1587	1600
85°	827	800	805	800	677	700	714	818	877	900	914
87.5°	482	468	477	500	455	473	468	505	518	518	523
90°	364	364	373	391	377	396	391	400	391	386	382
95°	273	273	273	295	277	286	282	286	282	273	273
105°	164	177	186	205	173	177	173	200	195	182	177
115°	109	109	114	136	127	127	132	136	127	118	114
125°	64	64	73	82	82	82	82	91	77	77	73
135°	27	27	27	36	36	32	32	36	41	32	32
145°	18	18	14	18	9	14	9	14	23	14	14
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°	55	55	55	55	55	55	55	55	55	55
2.5°	55	55	50	55	55	50	55	50	45	45
5°	50	45	50	50	50	45	50	45	45	45
7.5°	64	55	55	64	55	64	55	55	55	55
10°	73	73	73	73	73	73	73	68	68	73
12.5°	86	82	86	82	86	82	82	82	82	82
15°	100	100	100	100	100	100	100	100	95	100
17.5°	118	114	114	114	114	114	109	109	109	109
20°	127	123	123	118	118	114	114	118	118	109
22.5°	141	136	141	132	132	132	132	136	136	127
25°	164	168	164	159	164	159	164	159	159	155
27.5°	186	191	182	177	177	177	168	177	168	173
30°	218	214	209	209	200	200	205	205	200	200
32.5°	259	255	255	241	236	227	236	232	227	227
35°	309	309	300	286	277	282	286	282	282	282
37.5°	409	405	391	377	359	364	368	377	377	382
40°	555	541	514	496	491	491	491	505	505	509
42.5°	686	668	659	659	646	636	627	636	636	636
45°	750	764	768	773	777	755	732	718	700	700
47.5°	800	841	877	882	891	873	855	809	755	755
50°	909	941	1000	1023	1059	1032	1005	941	864	855
52.5°	1109	1127	1182	1250	1287	1277	1209	1114	1050	1046
55°	1382	1396	1464	1559	1555	1568	1468	1387	1318	1327
57.5°	1600	1605	1700	1787	1768	1723	1741	1555	1546	1455
60°	2105	2087	2314	2282	2255	2232	2273	2005	2018	1918
62.5°	3205	3223	3510	3341	3350	3260	3382	3014	2996	2937
65°	4110	4028	4387	4114	4087	4028	4255	3773	3805	3828
67.5°	4551	4514	4855	4532	4464	4473	4728	4219	4264	4382
70°	4646	4701	4923	4646	4519	4505	4755	4414	4314	4464
72.5°	4473	4546	4814	4478	4401	4337	4546	4310	4132	4219
75°	4001	4037	4478	4028	3923	3996	4101	3814	3723	3746
77.5°	3350	3350	3855	3469	3250	3373	3500	3105	3146	3155
80°	2441	2441	2764	2505	2282	2382	2496	2196	2255	2246
82.5°	1568	1523	1618	1455	1314	1350	1491	1364	1418	1382
85°	900	868	877	741	668	691	823	777	818	791
87.5°	518	518	536	473	432	446	509	464	468	455
90°	382	382	405	377	359	364	396	359	359	346
95°	273	268	291	282	268	273	291	268	268	264
105°	186	191	200	173	168	177	205	191	200	191
115°	114	127	136	127	127	127	136	114	109	109
125°	73	77	86	77	77	68	77	64	64	55
135°	32	32	32	32	27	23	23	18	18	18
145°	18	14	9	5	9	5	5	9	5	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)