

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: 769252

Luminaire Tested: **ACN40MXX5C1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 769252
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN40MXX5C1
Description: ARCHITECTURAL POST TOP LUMINAIRE - TYPE V CUTOFF WITH CAGE
W/SPECULAR CHIMNEY AND CAGE
Light Source: 400 WATT MH CLEAR ED-28
Ballast/Driver: -

Summary

Lumens per Lamp: 36000 (1 lamp)
Luminaire Lumens: 22079.8 lumens
Efficiency: 61.3%
Efficacy: 55.2 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B4 - U3 - G2

Input Watts (W): 400
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



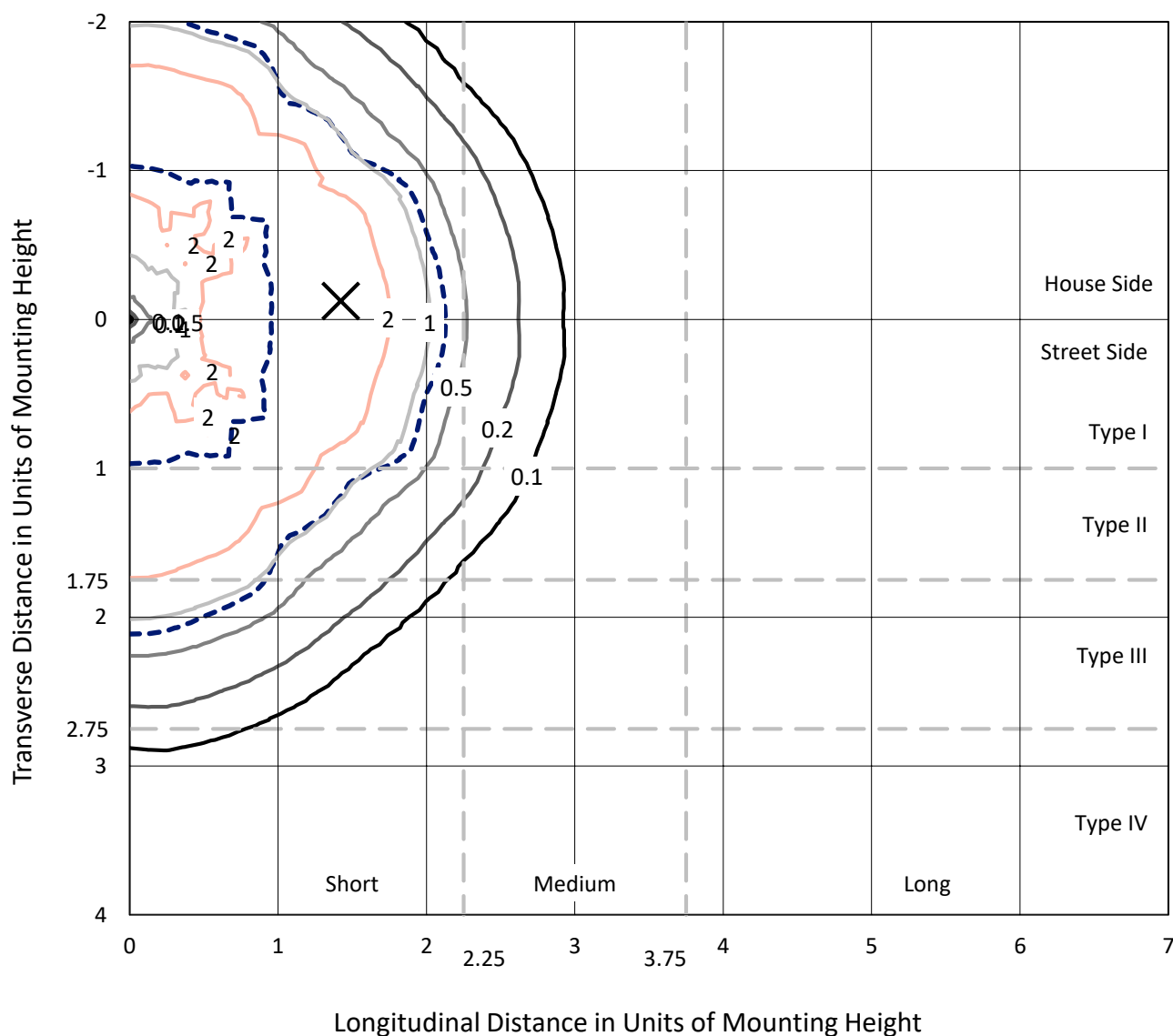
REPORT NUMBER: 769252

CATALOG NUMBER: ACN40MXX5C1

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

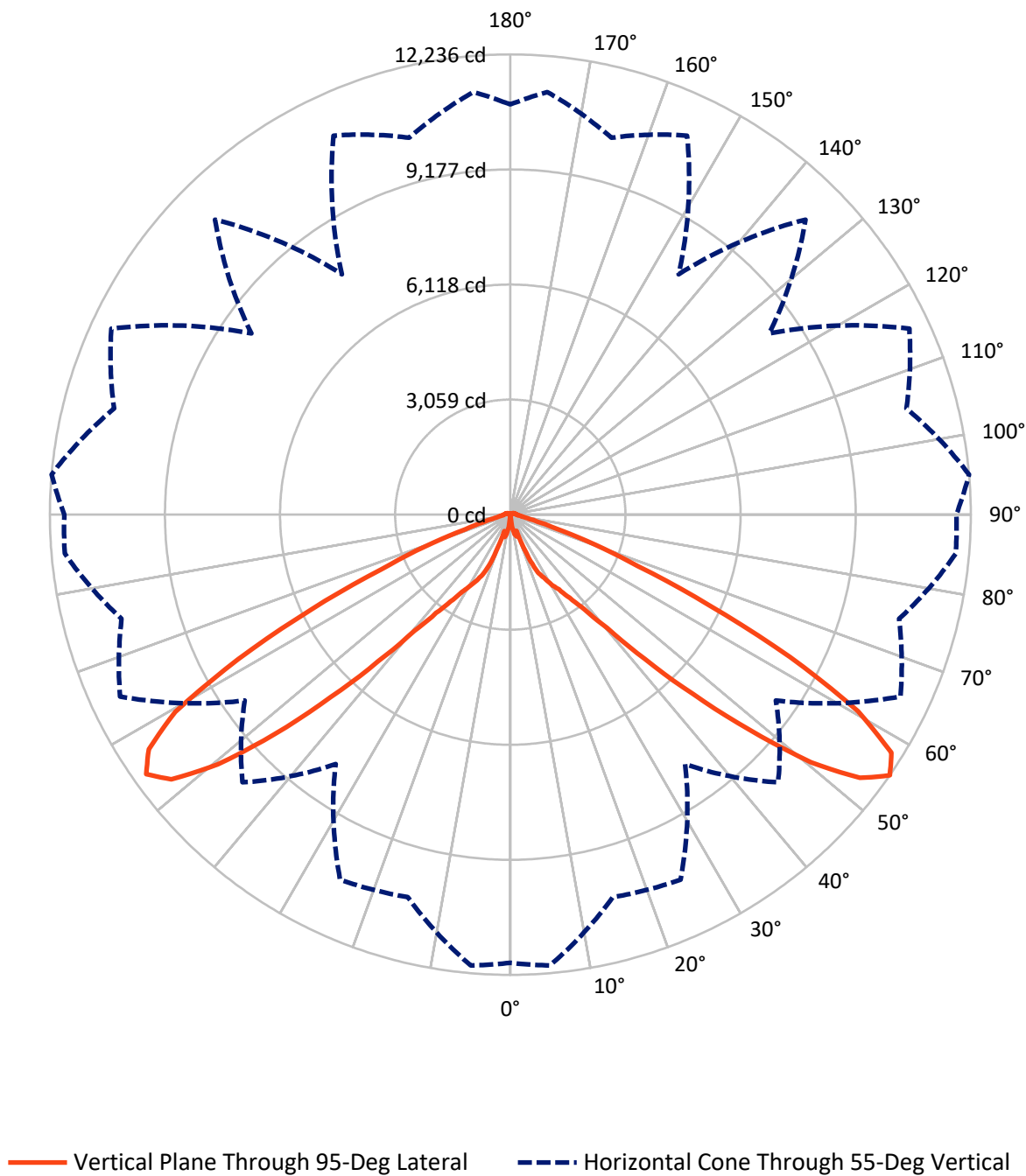


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Cutoff

REPORT NUMBER: 769252

CATALOG NUMBER: ACN40MXX5C1

Luminous Intensity Polar Plot



REPORT NUMBER: 769252

CATALOG NUMBER: ACN40MXX5C1

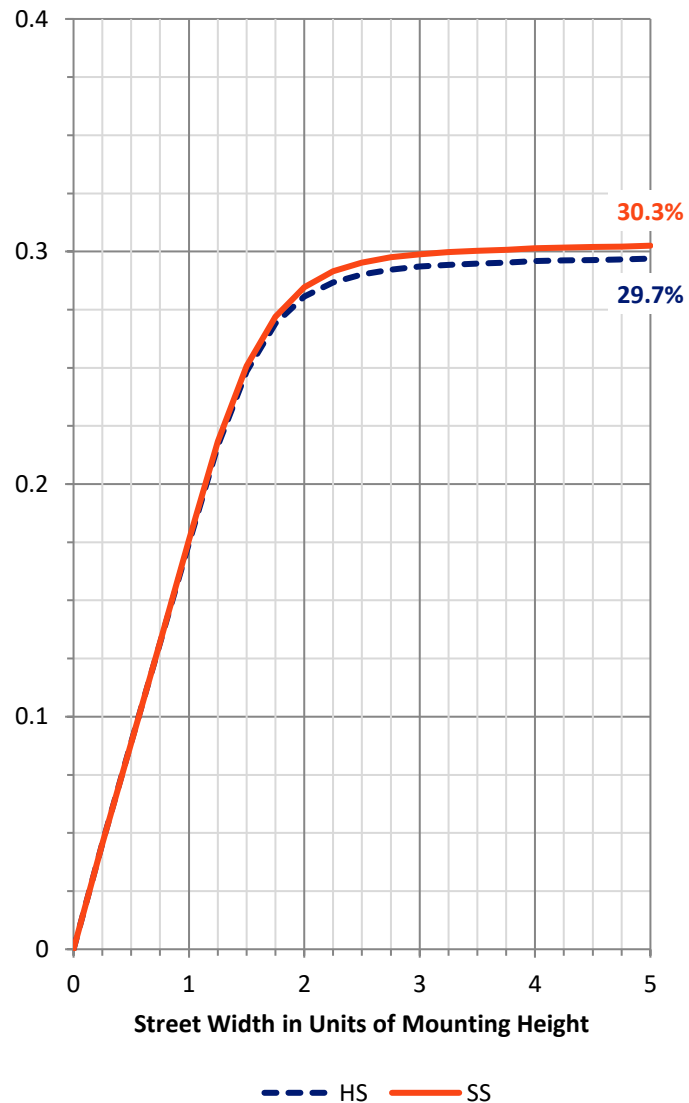
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10762.8	184.9	10947.7
	% Lamp	29.9	0.5	30.4
Street Side	Lumens	10941.6	190.5	11132.1
	% Lamp	30.4	0.5	30.9
Total	Lumens	21704.4	375.4	22079.8
	% Lamp	60.3	1.0	61.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	21.4	0.1	0.1
10°-20°	150.7	0.7	0.4
20°-30°	607.0	2.7	1.7
30°-40°	1487.3	6.7	4.1
40°-50°	4633.8	21.0	12.9
50°-60°	8865.9	40.2	24.6
60°-70°	4928.8	22.3	13.7
70°-80°	801.8	3.6	2.2
80°-90°	207.7	0.9	0.6
90°-100°	136.4	0.6	0.4
100°-110°	104.9	0.5	0.3
110°-120°	71.9	0.3	0.2
120°-130°	40.7	0.2	0.1
130°-140°	17.7	0.1	0.0
140°-150°	5.0	0.0	0.0
150°-160°	0.7	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	21704.4	98.3	60.3
0°-180°	22079.8	100.0	61.3

Coefficient of Utilization



REPORT NUMBER: 769252

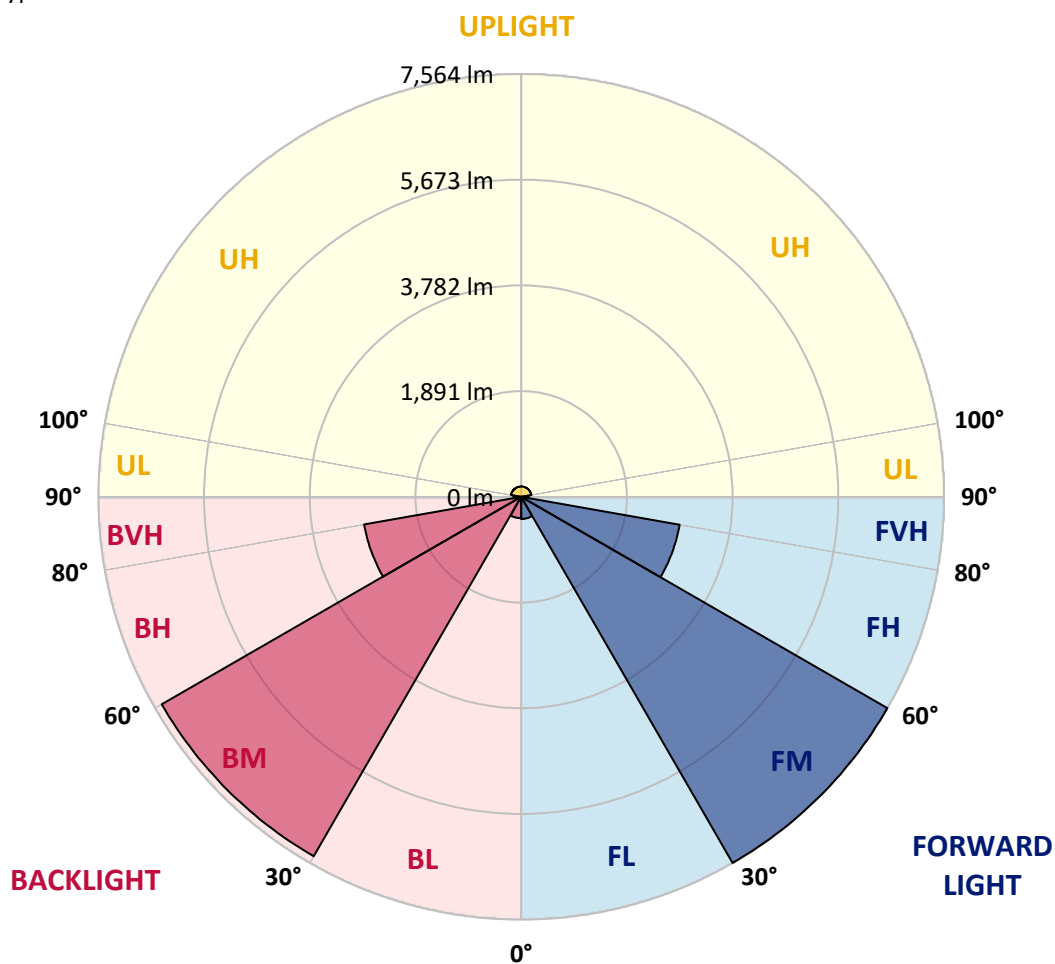
CATALOG NUMBER: ACN40MXX5C1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	396.3	1.1			
FM	(30°-60°)	7563.6	21.0			
FH	(60°-80°)	2877.8	8.0			G2/5000
FVH	(80°-90°)	103.9	0.3			G2/225
BL	(0°-30°)	382.7	1.1	B1/500		
BM	(30°-60°)	7423.5	20.6	B4/8500		
BH	(60°-80°)	2852.9	7.9	B4/5000		G2/5000
BVH	(80°-90°)	103.7	0.3			G2/225
UL	(90°-100°)	136.4	0.4		U3/500	
UH	(100°-180°)	184.9	0.5		U3/500	
Trapped Light		13920.2	38.7			

BUG Rating: B4-U3-G2

Type V Short





REPORT NUMBER: 769252

CATALOG NUMBER: ACN40MXX5C1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	20	20	20	20	20	20	20	20	20	20	20
2.5°	10	10	15	10	15	10	10	10	10	10	15
5°	71	61	66	56	36	31	31	36	46	46	51
7.5°	316	316	326	311	286	291	286	301	316	326	332
10°	418	408	444	474	474	469	490	495	490	444	423
12.5°	439	469	576	632	617	612	632	638	597	556	530
15°	530	515	536	546	576	607	581	551	587	612	597
17.5°	449	459	439	464	479	485	520	464	474	495	510
20°	428	428	398	413	434	444	474	418	418	464	464
22.5°	571	1137	1270	1408	816	444	831	1392	1372	1346	714
25°	1459	1469	1520	1612	984	454	1010	1647	1632	1724	1790
27.5°	1693	1709	1806	1933	1051	1897	954	1887	1897	1959	2086
30°	1908	1953	2045	2147	954	2321	872	2106	2076	2178	2280
32.5°	2091	2132	2244	2443	933	2678	877	2469	2356	2423	2550
35°	2356	2407	2484	2688	1020	2994	979	2826	2708	2800	2820
37.5°	2775	2856	2887	3127	1270	3382	1244	3203	3147	3274	3218
40°	3591	3657	3586	3856	1800	4085	1800	3963	3871	3999	3897
42.5°	4958	5024	4784	5060	2652	5258	2678	5218	5070	5248	5228
45°	6610	6625	6100	6406	3881	6391	3953	6641	6416	6794	6840
47.5°	8630	8614	7758	8110	5325	7768	5437	8334	7860	8558	8569
50°	10394	10420	9227	9594	6676	9002	6921	9946	9247	10221	10262
52.5°	11527	11598	10185	10481	7605	9844	8008	11114	10241	11430	11430
55°	11914	12032	10527	10706	8094	10063	8614	11440	10695	11884	11853
57.5°	11333	11537	10206	10063	7798	9482	8298	10961	10369	11455	11425
60°	10119	10175	9140	8839	6590	7518	6998	9874	9288	10338	10241
62.5°	8099	8155	7365	7008	5049	5294	5335	7839	7339	8196	8252
65°	5712	5743	5131	4810	3591	3586	3846	5462	5177	5855	5865
67.5°	3489	3560	3167	2871	2514	2540	2713	3325	3254	3713	3647
70°	2081	2239	2015	1811	1535	1556	1658	2035	2152	2418	2244
72.5°	1153	1183	1091	1010	867	857	867	1081	1153	1260	1295
75°	663	689	663	617	505	500	485	648	704	760	791
77.5°	408	428	423	393	316	311	286	393	449	474	490
80°	286	296	296	281	219	214	204	275	321	337	326
82.5°	224	230	235	219	173	173	173	230	255	265	275
85°	194	194	199	184	143	143	148	189	209	219	250
87.5°	173	168	173	158	128	128	128	163	184	184	189
90°	143	153	153	143	117	117	117	148	163	168	173
95°	133	133	133	128	107	102	107	133	143	153	143
105°	112	107	112	102	87	82	87	107	112	117	117
115°	82	87	82	71	56	56	66	77	87	87	92
125°	51	51	51	46	31	31	36	41	56	51	56
135°	31	26	31	20	15	10	15	20	26	31	31
145°	10	10	10	0	0	0	0	10	5	5	15
155°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: 769252
CATALOG NUMBER: ACN40MXX5C1

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



REPORT NUMBER: 769252

CATALOG NUMBER: ACN40MXX5C1

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	20	20	20	20	20	20	20	20	20	20
2.5°	10	10	10	10	10	10	10	10	10	10
5°	51	41	31	20	15	10	10	15	15	10
7.5°	321	311	286	275	270	265	270	270	291	306
10°	434	485	485	459	485	495	490	454	464	469
12.5°	546	587	678	668	643	668	643	643	581	561
15°	597	576	581	602	607	607	587	632	632	673
17.5°	505	479	485	520	515	546	505	536	607	541
20°	459	439	418	485	428	474	418	444	490	459
22.5°	1255	1331	1321	831	408	750	1168	1056	867	683
25°	1704	1673	1632	1035	485	1025	1535	1311	1193	1122
27.5°	1897	1821	1974	923	1760	1086	1785	1484	1260	1265
30°	2157	2127	2229	852	2224	1199	2117	1714	1423	1387
32.5°	2372	2341	2458	872	2433	1183	2265	1974	1602	1530
35°	2718	2637	2759	923	2805	1142	2550	2183	1780	1683
37.5°	3193	3045	3127	1148	3162	1275	2795	2484	2050	1948
40°	3963	3672	3825	1561	3856	1612	3453	3096	2708	2622
42.5°	5248	4866	4988	2346	5121	2453	4718	4259	3988	3784
45°	6809	6161	6360	3540	6411	3596	6008	5585	5529	5396
47.5°	8538	7875	7997	5187	7982	5202	7829	7329	7467	7222
50°	10359	9405	9721	6794	9619	6600	9507	8915	9364	8966
52.5°	11629	10558	11027	7946	10655	7513	10624	10032	10731	10343
55°	12236	10899	11700	8395	11093	7798	11119	10374	11277	10905
57.5°	11940	10690	11379	8043	10338	7411	10777	10134	10966	10660
60°	10614	9747	10180	7018	8048	6437	9558	9109	9660	9385
62.5°	8344	7747	7870	5621	5610	5080	7202	6962	7584	7273
65°	5804	5447	5350	4111	3830	3703	4697	4549	5187	4876
67.5°	3652	3392	3198	2785	2591	2489	2912	2917	3376	3132
70°	2397	2224	1999	1551	1510	1392	1964	1953	2117	1918
72.5°	1250	1091	969	750	816	740	954	954	1025	949
75°	755	648	566	423	485	454	561	561	602	581
77.5°	469	423	372	265	321	301	372	393	403	398
80°	342	332	286	194	219	219	286	296	291	296
82.5°	275	265	240	153	168	168	235	240	230	245
85°	214	214	189	143	143	143	184	189	199	214
87.5°	184	179	158	122	122	122	158	168	168	184
90°	168	158	153	112	112	112	138	148	153	143
95°	143	148	128	97	97	92	122	133	133	122
105°	117	117	107	82	77	77	102	102	102	102
115°	87	87	82	56	61	56	71	71	82	71
125°	56	51	46	31	31	31	41	46	51	51
135°	26	31	20	15	10	15	20	26	26	31
145°	5	10	5	0	5	5	0	10	5	10
155°	0	5	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: 769252

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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)