

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: 769251

Luminaire Tested: **ACN40MXX3C1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 769251
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN40MXX3C1
Description: ARCHITECTURAL POST TOP LUMINAIRE - TYPE III 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: 21210.5 lumens
Efficiency: 58.9%
Efficacy: 53.0 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B4 - U3 - G4

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

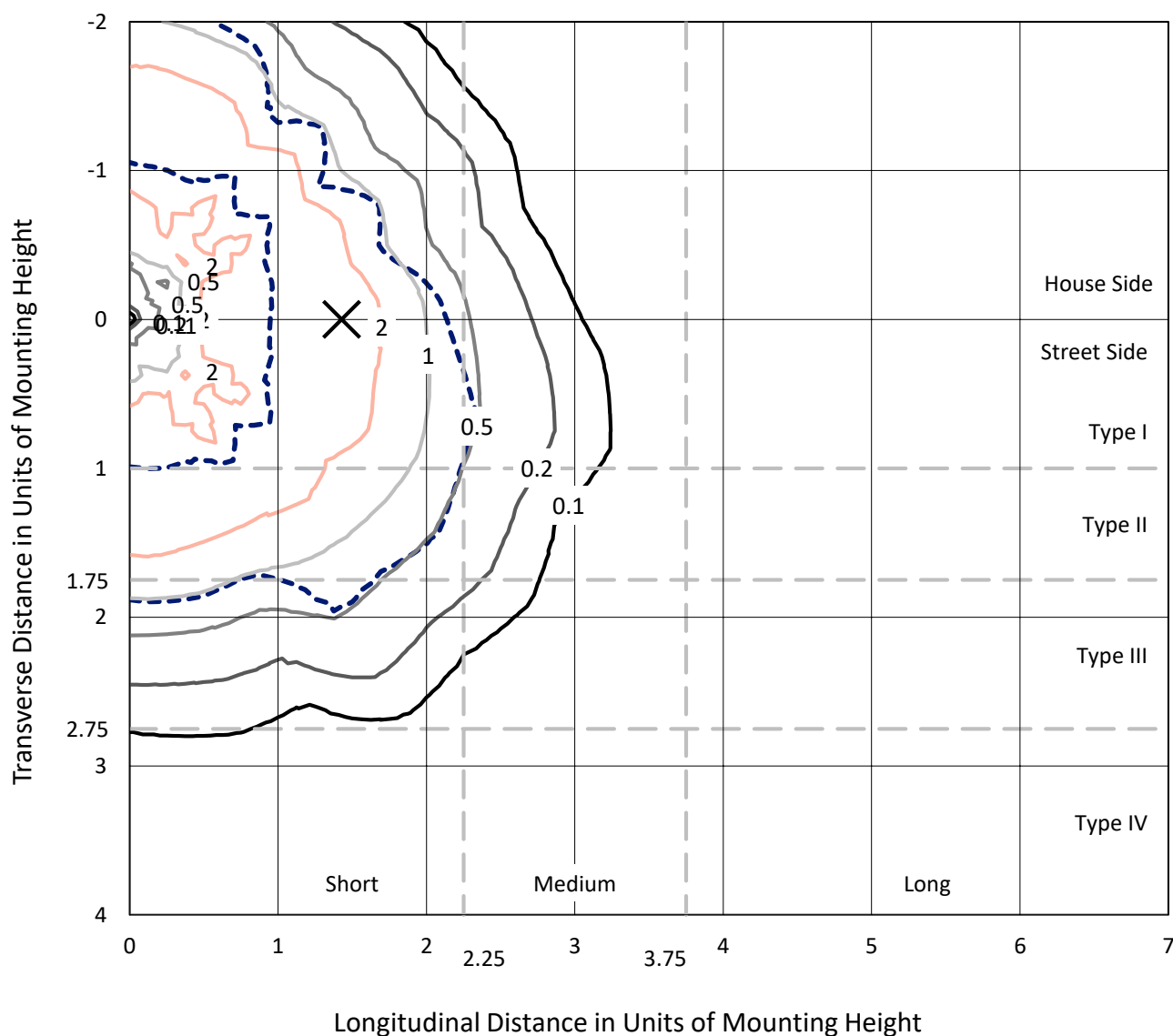


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

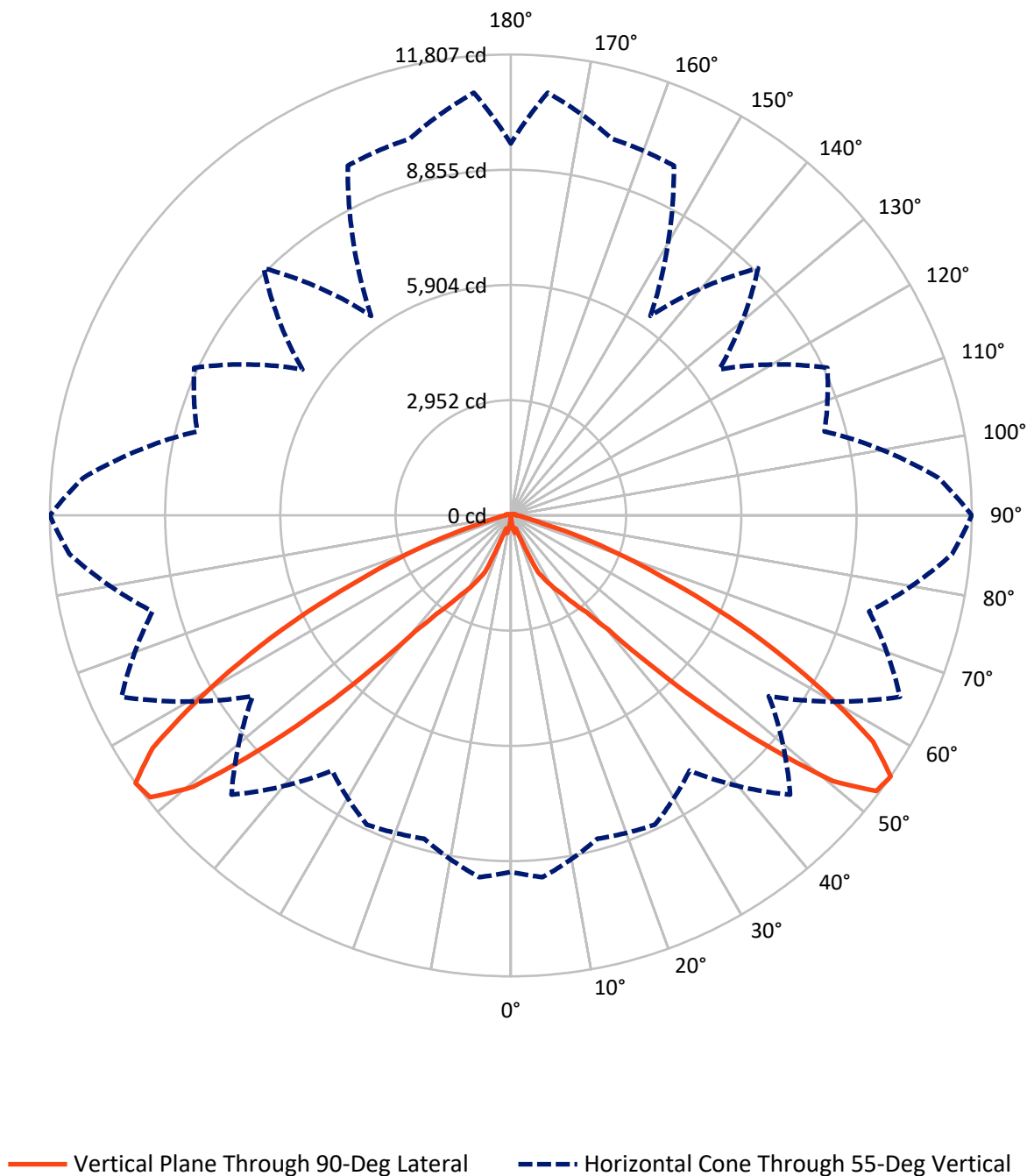


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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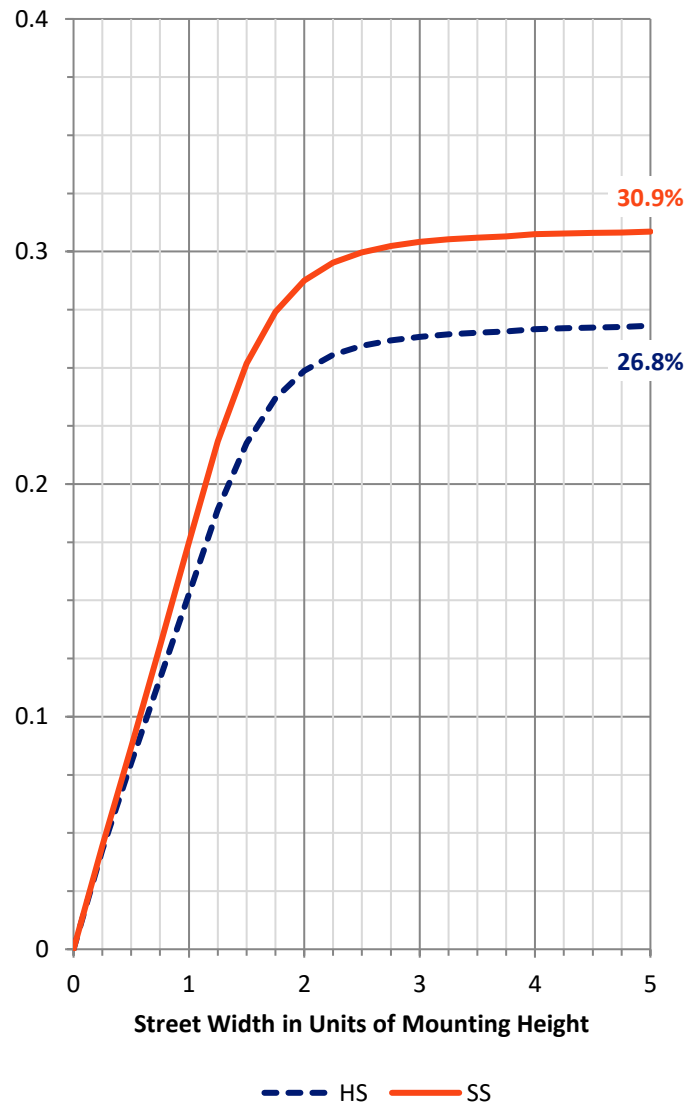
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9721.6	161.3	9882.9
	% Lamp	27.0	0.4	27.5
Street Side	Lumens	11160.0	167.6	11327.5
	% Lamp	31.0	0.5	31.5
Total	Lumens	20881.6	328.9	21210.5
	% Lamp	58.0	0.9	58.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	16.4	0.1	0.0
10°-20°	119.5	0.6	0.3
20°-30°	588.6	2.8	1.6
30°-40°	1466.2	6.9	4.1
40°-50°	4256.0	20.1	11.8
50°-60°	7827.6	36.9	21.7
60°-70°	5191.7	24.5	14.4
70°-80°	1186.1	5.6	3.3
80°-90°	229.6	1.1	0.6
90°-100°	127.2	0.6	0.4
100°-110°	92.3	0.4	0.3
110°-120°	61.9	0.3	0.2
120°-130°	34.3	0.2	0.1
130°-140°	13.0	0.1	0.0
140°-150°	2.7	0.0	0.0
150°-160°	0.3	0.0	0.0
160°-170°	0.1	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	20881.6	98.4	58.0
0°-180°	21210.5	100.0	58.9

Coefficient of Utilization



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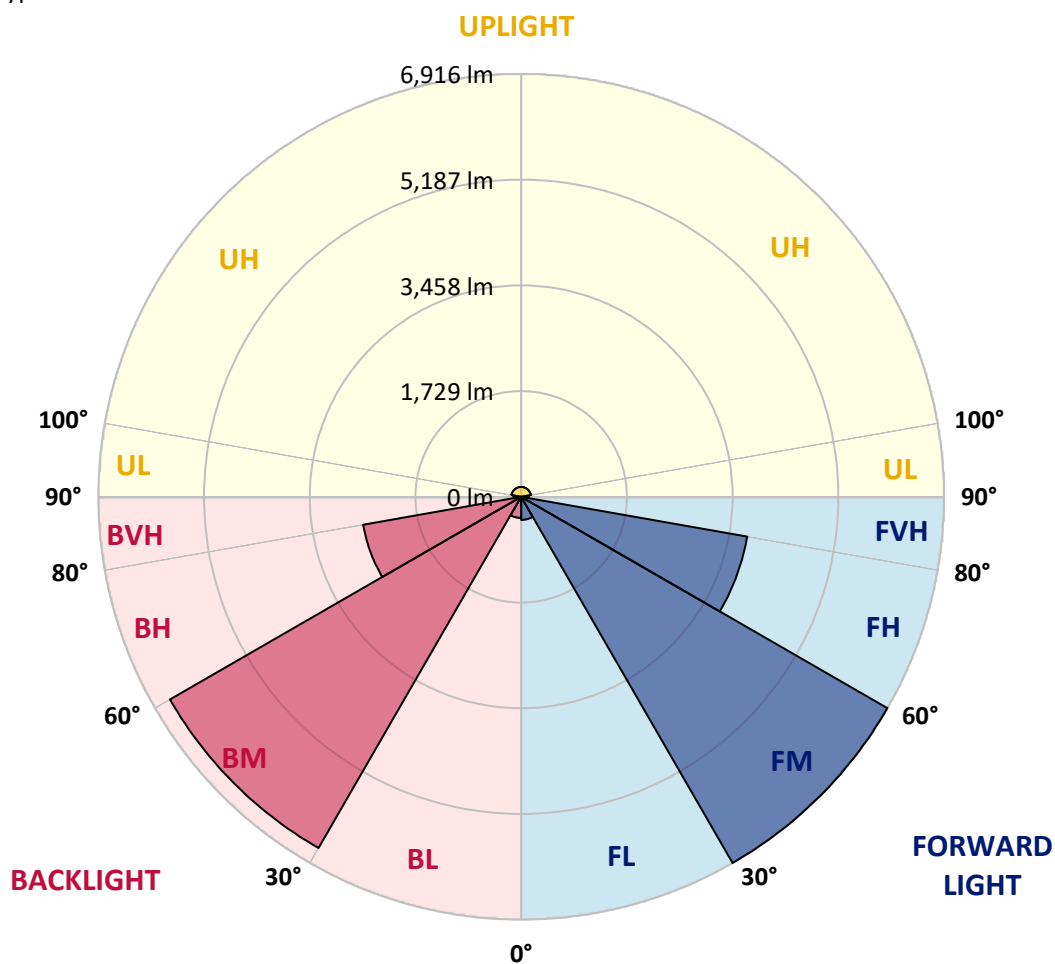
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.7	1.0			
FM	(30°-60°)	6916.2	19.2			
FH	(60°-80°)	3753.5	10.4			G2/5000
FVH	(80°-90°)	112.6	0.3			G2/225
BL	(0°-30°)	346.7	1.0	B1/500		
BM	(30°-60°)	6633.7	18.4	B4/8500		
BH	(60°-80°)	2624.3	7.3	B4/5000		G4/5000
BVH	(80°-90°)	117.0	0.3			G2/225
UL	(90°-100°)	127.2	0.4		U3/500	
UH	(100°-180°)	161.3	0.4		U3/500	
Trapped Light		14789.5	41.1			

BUG Rating: B4-U3-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	0	0	0	0	0	0	0	0	0	0	0
2.5°	10	10	0	5	0	5	0	0	5	5	5
5°	31	36	36	26	15	10	20	20	20	20	26
7.5°	286	296	270	240	235	235	240	219	240	255	255
10°	398	383	372	413	413	454	439	418	398	372	362
12.5°	479	485	551	592	546	566	576	566	505	485	464
15°	530	536	525	510	530	469	495	490	485	464	444
17.5°	439	449	423	418	434	403	403	357	352	367	367
20°	398	398	398	393	393	367	337	311	316	337	357
22.5°	571	1127	1301	1316	734	398	775	1311	1311	1214	663
25°	1479	1474	1591	1612	862	434	1025	1602	1622	1653	1591
27.5°	1744	1704	1862	1897	847	1913	1000	1948	1892	1938	1841
30°	1857	1877	2025	2112	821	2458	903	2157	2106	2137	2132
32.5°	2173	2122	2290	2372	852	2642	842	2361	2392	2377	2377
35°	2336	2346	2520	2581	923	2877	908	2673	2718	2739	2754
37.5°	2662	2647	2764	2907	1081	3218	1102	3070	3091	3188	3147
40°	3295	3274	3315	3504	1403	3744	1443	3657	3754	3983	3835
42.5°	4458	4376	4361	4514	2117	4779	2081	4697	4820	5299	5202
45°	6029	5794	5468	5626	3290	5763	3081	5998	5952	6952	6916
47.5°	7487	7370	6651	6855	4626	6936	4498	7610	7242	8706	8803
50°	8711	8711	7798	7931	5876	8099	6049	9237	8594	10231	10706
52.5°	9272	9374	8431	8599	7013	9012	7355	10196	9257	11134	11726
55°	9130	9303	8574	8737	7982	10119	8069	11001	9502	11348	11807
57.5°	8232	8625	8181	8104	8492	10338	8625	11134	9680	10711	10940
60°	7120	7472	7355	7166	8018	9410	8752	10792	9538	9257	9288
62.5°	5610	5763	5937	5651	7191	8104	8380	9670	8747	7753	7564
65°	3897	3902	4080	3994	6483	7161	7870	8278	7436	6258	5825
67.5°	2356	2397	2627	2611	5983	5840	6549	6064	5865	4677	4136
70°	1622	1744	1974	1826	4504	4065	4774	4284	4560	3473	2856
72.5°	1204	1056	1336	1193	2739	2351	2953	2275	3213	2469	1765
75°	928	709	923	709	974	1122	1459	949	1729	1076	857
77.5°	469	398	444	413	525	546	791	505	898	643	576
80°	286	286	306	281	255	301	332	347	500	403	383
82.5°	224	224	235	219	189	199	204	265	326	316	301
85°	204	209	209	204	148	163	158	209	230	224	265
87.5°	173	173	179	158	117	122	122	158	184	168	179
90°	153	153	153	143	112	112	112	143	148	153	148
95°	133	133	133	122	92	97	97	122	133	133	128
105°	102	102	97	92	77	66	71	87	92	97	97
115°	82	77	71	71	56	56	46	56	77	71	77
125°	51	51	41	41	31	26	31	36	46	41	46
135°	20	20	20	15	10	10	10	10	15	15	15
145°	0	0	0	5	0	5	0	0	0	5	0
155°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	5	0	0	0	0	0	0	5	0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	0	0	5	0	0	0	0	0	0	5	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°	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	5	5	5	5	0	0
5°	15	26	26	20	15	20	20	20	15	10
7.5°	245	230	209	199	204	189	179	189	204	204
10°	362	362	316	286	306	352	357	347	316	306
12.5°	454	434	418	418	418	454	479	464	459	449
15°	444	423	428	464	444	454	383	459	510	510
17.5°	357	367	367	403	352	398	332	332	388	408
20°	342	342	321	367	337	357	291	306	291	286
22.5°	1153	1306	1250	765	332	709	1071	964	729	510
25°	1617	1698	1622	893	393	918	1423	1306	1076	1112
27.5°	1857	1984	1943	847	1811	1025	1653	1576	1255	1234
30°	2132	2270	2265	877	2331	1122	2010	1841	1443	1397
32.5°	2402	2514	2571	898	2545	1132	2229	2086	1591	1520
35°	2718	2851	2861	959	2897	1178	2596	2285	1851	1744
37.5°	3096	3218	3116	1153	3162	1270	2871	2581	2137	2040
40°	3861	3800	3754	1505	3693	1545	3397	3065	2698	2489
42.5°	5172	4845	4820	2208	4682	2193	4590	4080	3769	3540
45°	6651	5952	6095	3356	5799	3172	5794	5223	5146	4896
47.5°	8212	7253	7446	4917	7120	4555	7344	6957	6998	6651
50°	9961	8329	8767	6182	8375	5758	8706	8467	8910	8059
52.5°	10879	8778	9374	6666	9140	6263	9635	9578	10216	9038
55°	11001	8319	8946	6518	8956	6238	9884	9992	10869	9527
57.5°	10012	7181	8002	5784	8038	5845	9145	9543	10558	9793
60°	8676	5886	6773	4896	6809	5151	8110	8507	9538	9466
62.5°	7074	4636	5417	3866	4927	4315	6712	7146	8115	8385
65°	5386	3438	4198	2999	3596	3259	4947	5422	6059	6457
67.5°	3718	2418	2984	2290	2591	2239	2922	3601	4131	4468
70°	2346	1556	1851	1499	1515	1331	1734	2300	2734	2948
72.5°	1316	923	984	821	785	760	1040	1290	1576	1755
75°	785	632	622	479	474	525	663	862	1025	1112
77.5°	525	449	418	311	326	377	479	622	694	734
80°	388	362	337	235	245	281	367	434	459	469
82.5°	301	286	270	184	184	199	291	321	337	347
85°	235	230	209	153	143	173	219	245	255	265
87.5°	168	168	153	112	107	122	153	179	168	173
90°	148	153	138	102	97	107	138	158	153	143
95°	133	133	117	87	87	87	117	133	133	122
105°	97	102	87	61	71	61	82	92	92	92
115°	77	71	71	51	51	51	61	66	61	61
125°	46	51	41	26	26	31	36	36	41	41
135°	20	20	15	5	5	10	15	20	20	20
145°	10	0	0	0	0	0	0	0	5	0
155°	0	0	0	0	0	0	0	0	5	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)