

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: 769249

Luminaire Tested: **ACN40MXX3C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 769249
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN40MXX3C
Description: ARCHITECTURAL POST TOP LUMINAIRE - TYPE III CUTOFF
W/SPECULAR CHIMNEY
Light Source: 400 WATT MH CLEAR ED-28
Ballast/Driver: -

Summary

Lumens per Lamp: 36000 (1 lamp)
Luminaire Lumens: 25683.1 lumens
Efficiency: 71.3%
Efficacy: 64.2 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B4 - U3 - G4

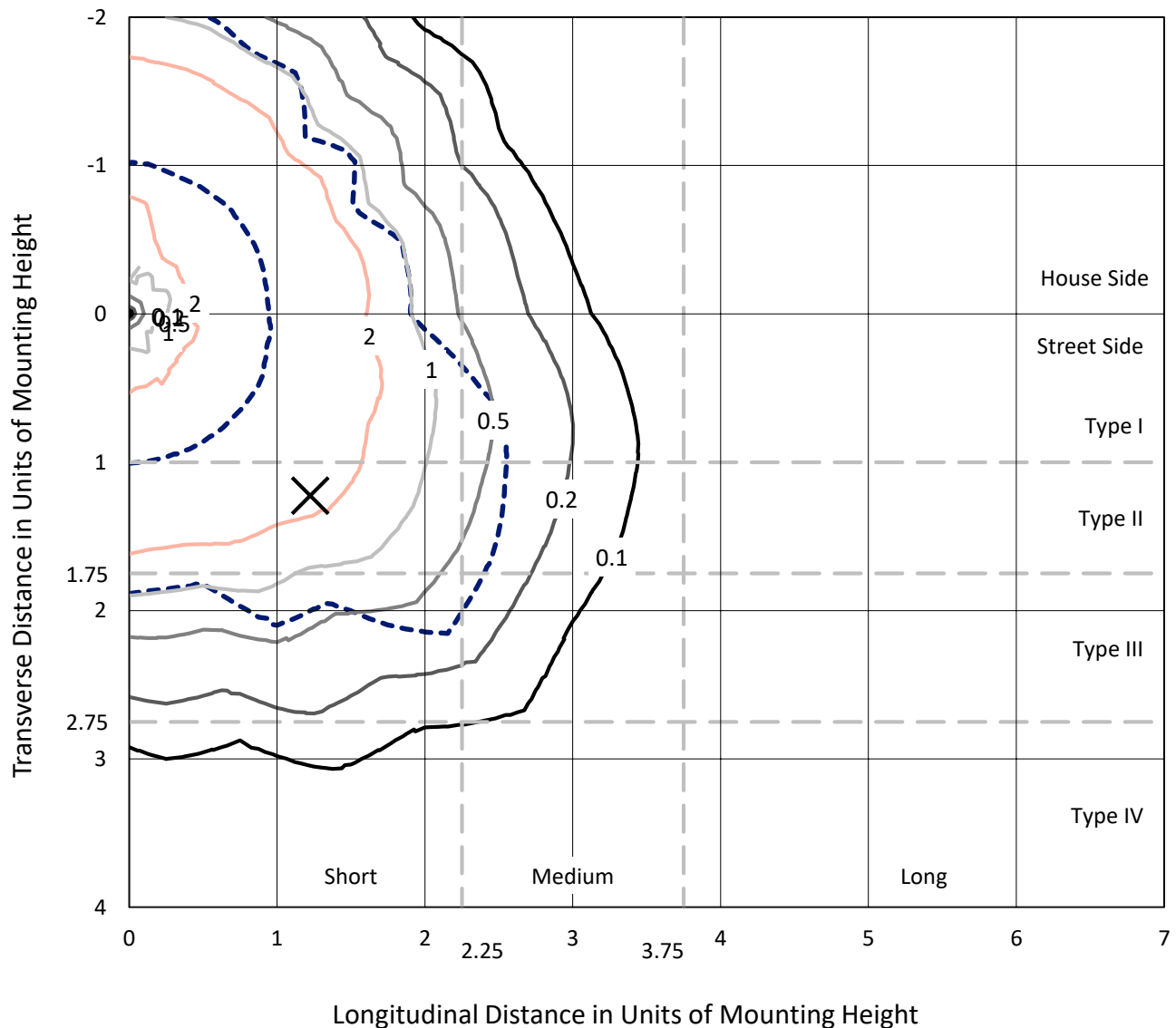
Input Watts (W): 400
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

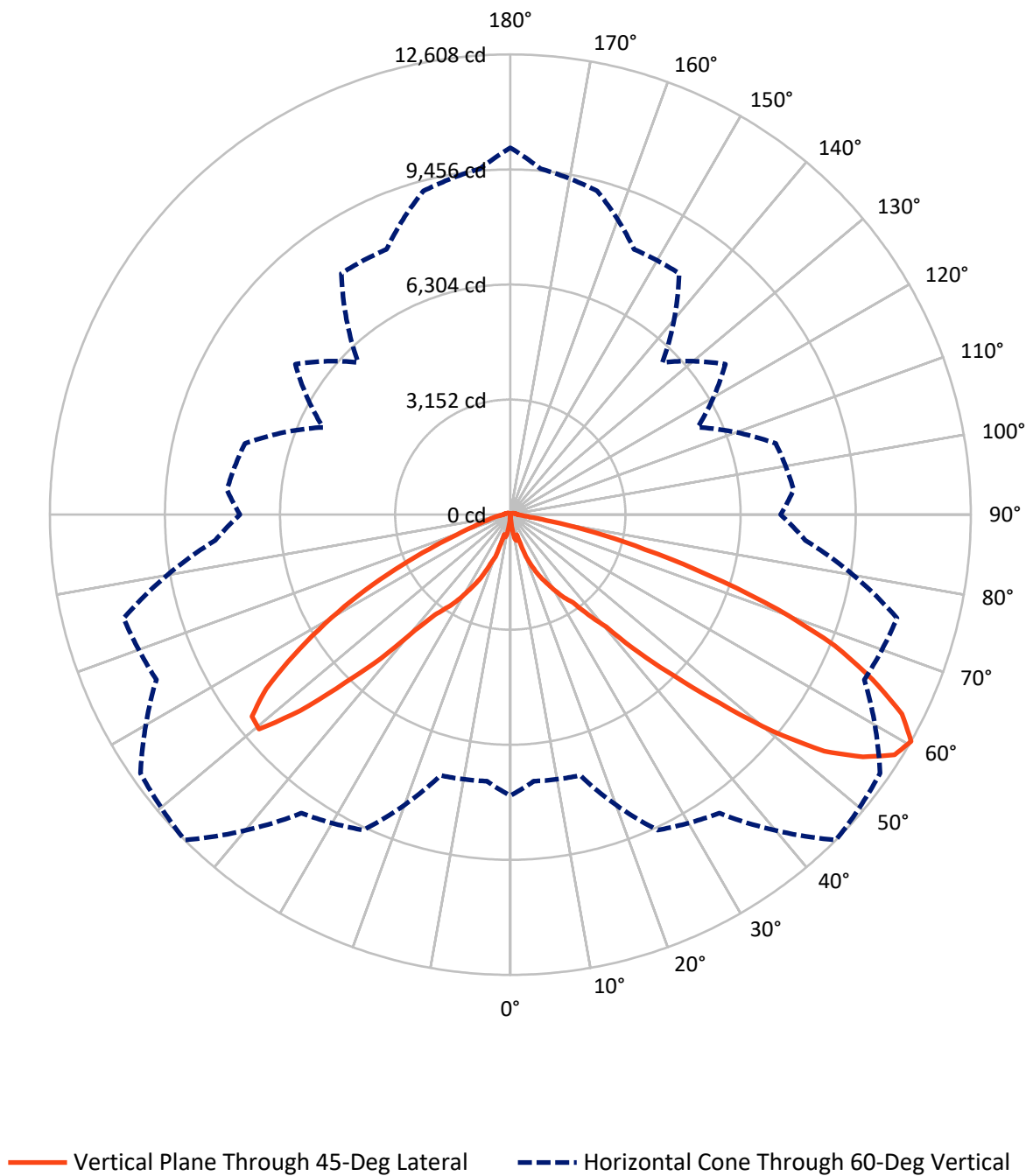
× Max cd
 --- 1/2 Max cd



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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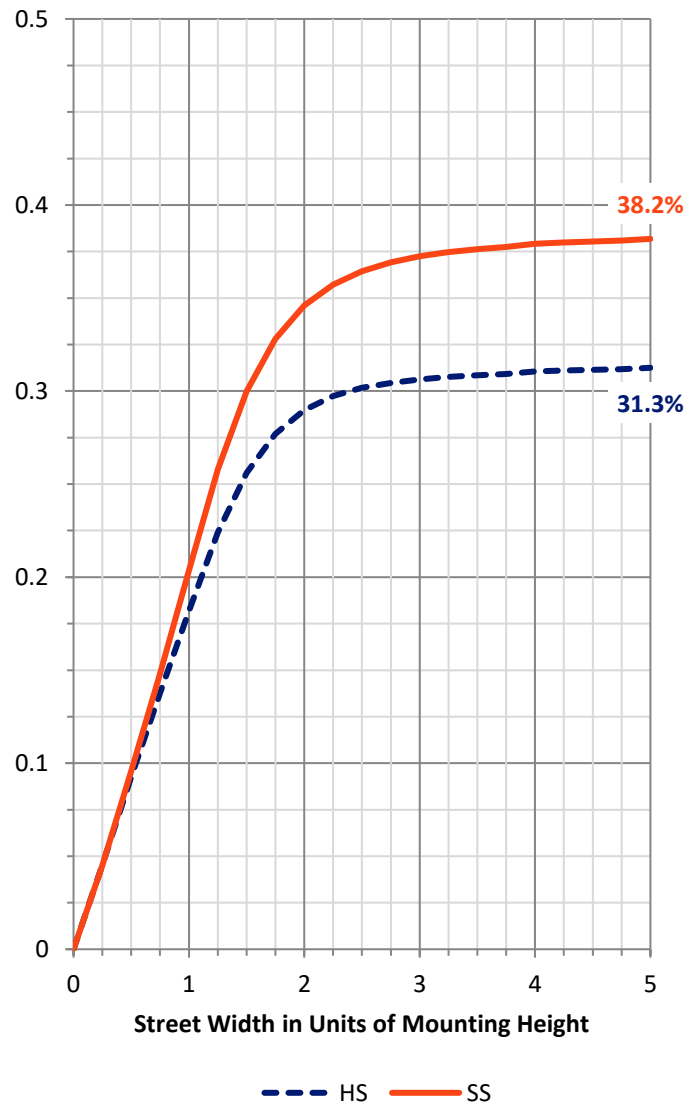
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11350.0	251.0	11600.9
	% Lamp	31.5	0.7	32.2
Street Side	Lumens	13827.1	255.1	14082.1
	% Lamp	38.4	0.7	39.1
Total	Lumens	25177.1	506.0	25683.1
	% Lamp	69.9	1.4	71.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	31.4	0.1	0.1
10°-20°	198.9	0.8	0.6
20°-30°	793.2	3.1	2.2
30°-40°	1841.4	7.2	5.1
40°-50°	5175.7	20.2	14.4
50°-60°	8747.2	34.1	24.3
60°-70°	6106.0	23.8	17.0
70°-80°	1905.6	7.4	5.3
80°-90°	377.7	1.5	1.0
90°-100°	182.8	0.7	0.5
100°-110°	131.8	0.5	0.4
110°-120°	90.2	0.4	0.3
120°-130°	58.7	0.2	0.2
130°-140°	31.6	0.1	0.1
140°-150°	11.9	0.0	0.0
150°-160°	3.2	0.0	0.0
160°-170°	0.6	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	25177.1	98.0	69.9
0°-180°	25683.1	100.0	71.3

Coefficient of Utilization



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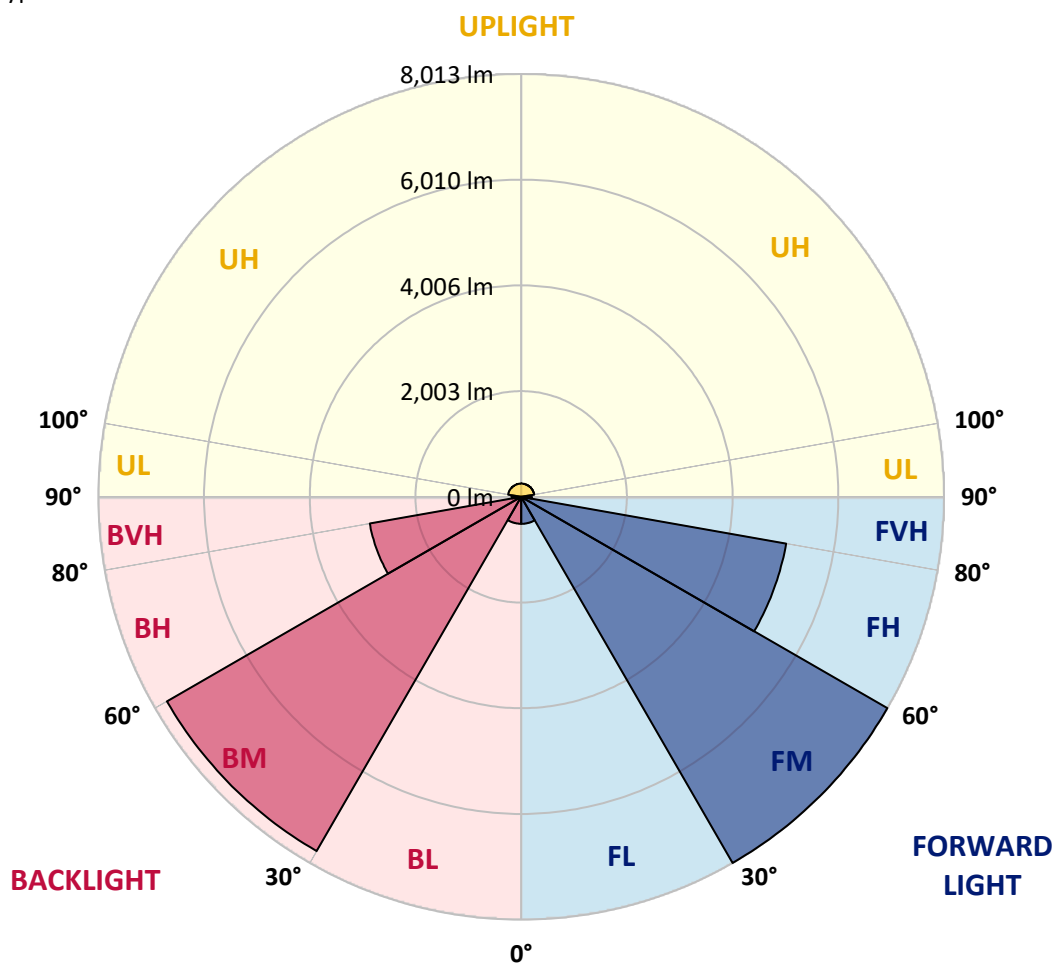
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	512.8	1.4			
FM	(30°-60°)	8012.7	22.3			
FH	(60°-80°)	5098.8	14.2			G3/7500
FVH	(80°-90°)	202.8	0.6			G2/225
BL	(0°-30°)	510.7	1.4	B2/1000		
BM	(30°-60°)	7751.6	21.5	B4/8500		
BH	(60°-80°)	2912.7	8.1	B4/5000		G4/5000
BVH	(80°-90°)	175.0	0.5			G2/225
UL	(90°-100°)	182.8	0.5		U3/500	
UH	(100°-180°)	251.0	0.7		U3/500	
Trapped Light		10316.9	28.7			

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	10	10	10	10	10	10	5	10	10
5°	122	128	117	122	122	133	112	117	122	128	133
7.5°	449	454	449	434	439	459	449	459	449	454	444
10°	592	617	627	658	658	668	678	668	678	663	653
12.5°	734	745	755	765	765	734	750	755	755	719	699
15°	724	734	750	709	689	683	694	668	653	617	602
17.5°	632	617	612	607	607	576	571	525	541	510	520
20°	898	933	959	1097	928	1224	1173	1132	1137	1020	1127
22.5°	1306	1260	1357	1489	1443	1566	1443	1423	1428	1306	1469
25°	1581	1571	1596	1658	1647	1857	1816	1770	1734	1622	1831
27.5°	1785	1770	1882	1795	1841	2127	2045	1999	1959	1882	2101
30°	1989	1943	2106	2061	2101	2407	2351	2326	2259	2101	2290
32.5°	2214	2244	2392	2285	2428	2713	2606	2560	2545	2331	2606
35°	2438	2453	2627	2744	2815	2953	2943	2917	2912	2851	2887
37.5°	2775	2795	2963	3086	3167	3478	3295	3264	3376	3239	3361
40°	3417	3433	3621	3754	3810	4045	4004	3948	4152	4039	4274
42.5°	4672	4626	4881	4968	4983	5172	5111	5060	5478	5360	5717
45°	6141	6156	6330	6294	6299	6309	6299	6192	7079	6783	7242
47.5°	7834	7691	7788	7676	7722	7717	7691	7543	8711	8288	8650
50°	9262	8875	8951	9048	9033	9339	9135	8931	10221	9706	9655
52.5°	9864	9369	9533	9951	10048	10762	10430	9731	11154	10124	10134
55°	9548	9216	9400	10323	10792	11715	11624	9961	11756	9675	9701
57.5°	9038	8461	8635	10216	10680	12409	12123	10512	11715	8966	8691
60°	7702	7329	7395	9533	9981	12608	12358	10695	10961	8110	7401
62.5°	5916	5865	5906	8421	8716	12032	12123	10400	9767	7095	6120
65°	4427	4590	4539	7100	7365	10899	11267	9594	8390	5978	4871
67.5°	3142	3448	3315	5855	5978	9578	9507	8196	7003	4759	3708
70°	2183	2545	2331	4672	4677	7758	7543	6472	5774	3688	2836
72.5°	1377	1729	1602	3244	3310	5677	5156	4748	4187	2800	2142
75°	836	1122	1091	2050	2071	3810	3081	3213	2820	1872	1515
77.5°	592	729	740	1306	1244	2392	1709	1795	1556	1142	852
80°	439	464	525	836	796	1122	938	826	791	683	597
82.5°	326	332	362	439	454	525	536	536	500	474	449
85°	245	250	265	306	332	352	352	342	326	316	311
87.5°	214	209	209	224	240	250	255	240	235	224	224
90°	184	184	184	189	194	199	199	199	184	173	173
95°	163	163	163	173	168	173	173	179	168	163	163
105°	112	122	122	122	128	122	128	122	122	117	112
115°	92	92	92	87	92	87	92	97	87	87	87
125°	61	66	66	66	61	61	66	61	61	61	66
135°	41	51	46	41	46	41	41	41	46	41	46
145°	10	15	15	15	15	15	10	10	10	15	10
155°	10	10	15	10	10	5	5	10	5	10	5
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°	0	0	0	0	0	0	0	0	0	0
2.5°	5	10	10	5	10	5	5	10	10	10
5°	143	153	163	168	163	148	112	102	112	112
7.5°	454	439	418	377	362	377	383	388	372	367
10°	638	597	541	520	525	576	607	643	658	663
12.5°	678	638	612	617	627	643	699	714	780	765
15°	592	587	592	612	617	597	627	648	648	765
17.5°	536	525	556	541	566	546	536	561	525	541
20°	1000	1168	1199	1183	1229	1010	1193	1061	877	857
22.5°	1280	1510	1556	1596	1454	1525	1454	1301	1035	928
25°	1647	1857	1897	1918	1846	1821	1739	1433	1193	1102
27.5°	1831	2106	2244	2270	2152	2101	1959	1683	1377	1346
30°	2137	2438	2514	2509	2463	2372	2183	1933	1576	1520
32.5°	2530	2744	2795	2877	2815	2673	2504	2152	1749	1642
35°	2963	3127	3121	3223	3111	2973	2815	2448	1984	1887
37.5°	3412	3535	3560	3463	3433	3325	3183	2790	2377	2285
40°	4310	4294	4269	4218	4101	3988	3876	3540	2994	3019
42.5°	5850	5687	5457	5452	5299	5294	5269	4876	4305	4243
45°	7426	7120	6717	6783	6442	6544	6483	6360	5753	5814
47.5°	9058	8722	8135	8171	7880	8013	8263	8115	7589	7936
50°	10394	10165	9415	9410	9048	9329	9737	9691	9364	10109
52.5°	10884	10583	9548	9782	8977	10104	10150	10762	10425	11761
55°	10547	9941	8589	9211	8212	9910	9935	10838	10655	12322
57.5°	9410	8839	7135	8329	7064	9068	9170	10236	10354	11608
60°	7788	7523	5656	7186	5891	8064	8018	9181	9512	10048
62.5°	6146	6115	4356	5870	4728	6687	6467	7666	8099	8038
65°	4692	4631	3274	4442	3494	5019	4703	5702	6131	5967
67.5°	3458	3234	2367	3172	2402	3382	3172	3835	4228	3958
70°	2555	2163	1642	2066	1551	2152	2035	2418	2698	2407
72.5°	1841	1341	1107	1209	1056	1301	1321	1499	1668	1520
75°	1183	847	785	785	780	857	928	995	1091	1051
77.5°	724	643	597	617	607	643	689	719	770	745
80°	561	530	485	500	495	525	525	536	556	541
82.5°	423	398	377	383	398	403	393	398	388	377
85°	306	296	296	306	311	311	301	301	296	286
87.5°	230	230	235	240	240	235	230	224	219	214
90°	179	179	184	189	194	194	184	184	184	184
95°	163	163	173	173	173	173	173	163	168	163
105°	117	117	122	122	122	117	117	112	112	112
115°	92	87	92	92	92	92	92	82	82	71
125°	61	71	71	66	77	61	66	61	56	61
135°	41	51	46	46	46	41	41	36	36	31
145°	10	10	15	15	10	10	15	10	10	10
155°	5	0	10	5	10	10	10	5	5	0
165°	5	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°	5	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)