

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: 768914

Luminaire Tested: **ARC17MXX3CX6X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768914
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC17MXX3CX6X
Description: CUTOFF GENERATIONS POST TOP
Light Source: 175 WATT MH CLEAR ED-28
Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 10371.7 lumens
Efficiency: 74.1%
Efficacy: 59.3 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type IV - Short - Cutoff
BUG Rating: B3 - U2 - G3

Input Watts (W): 175
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

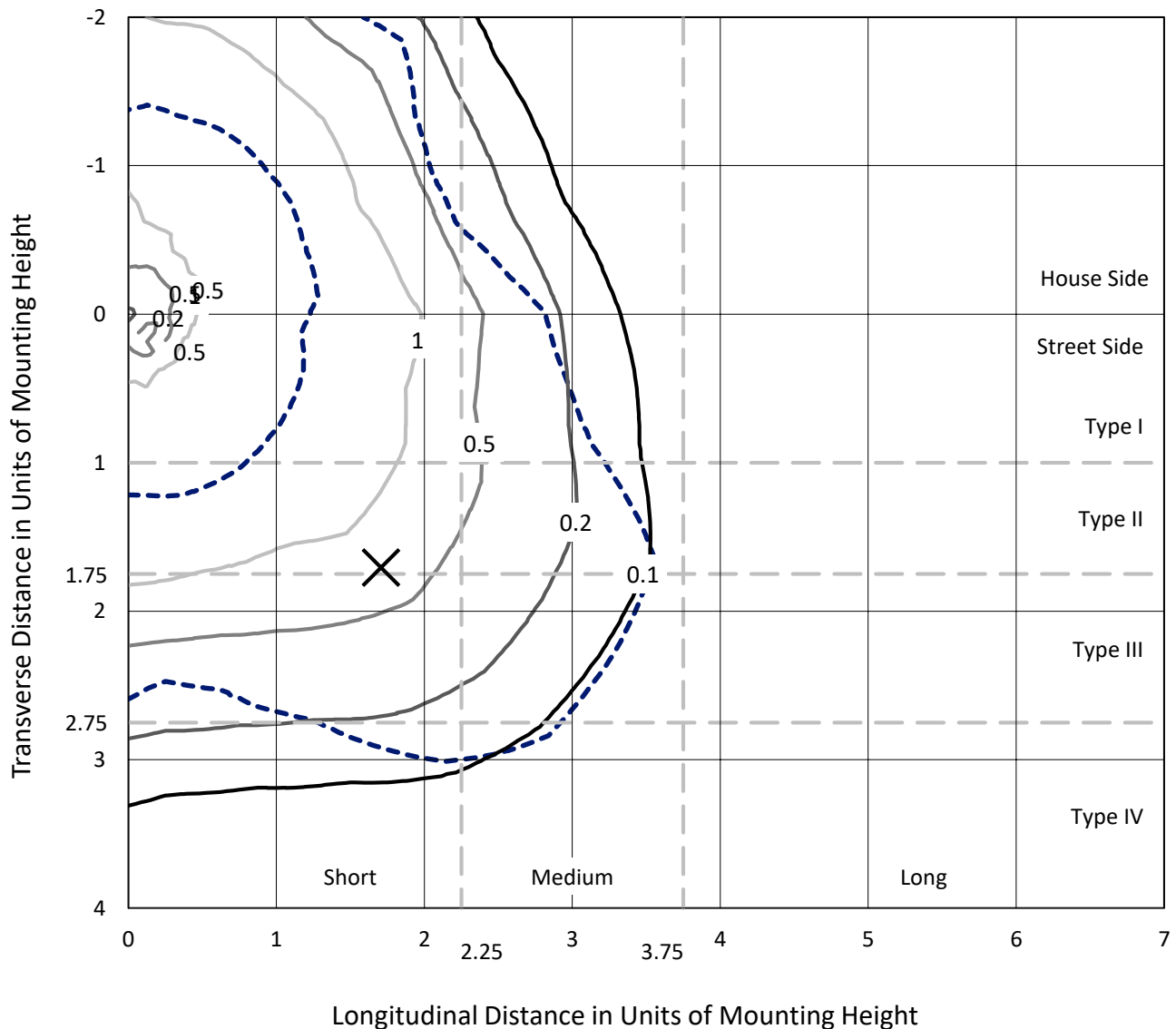


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

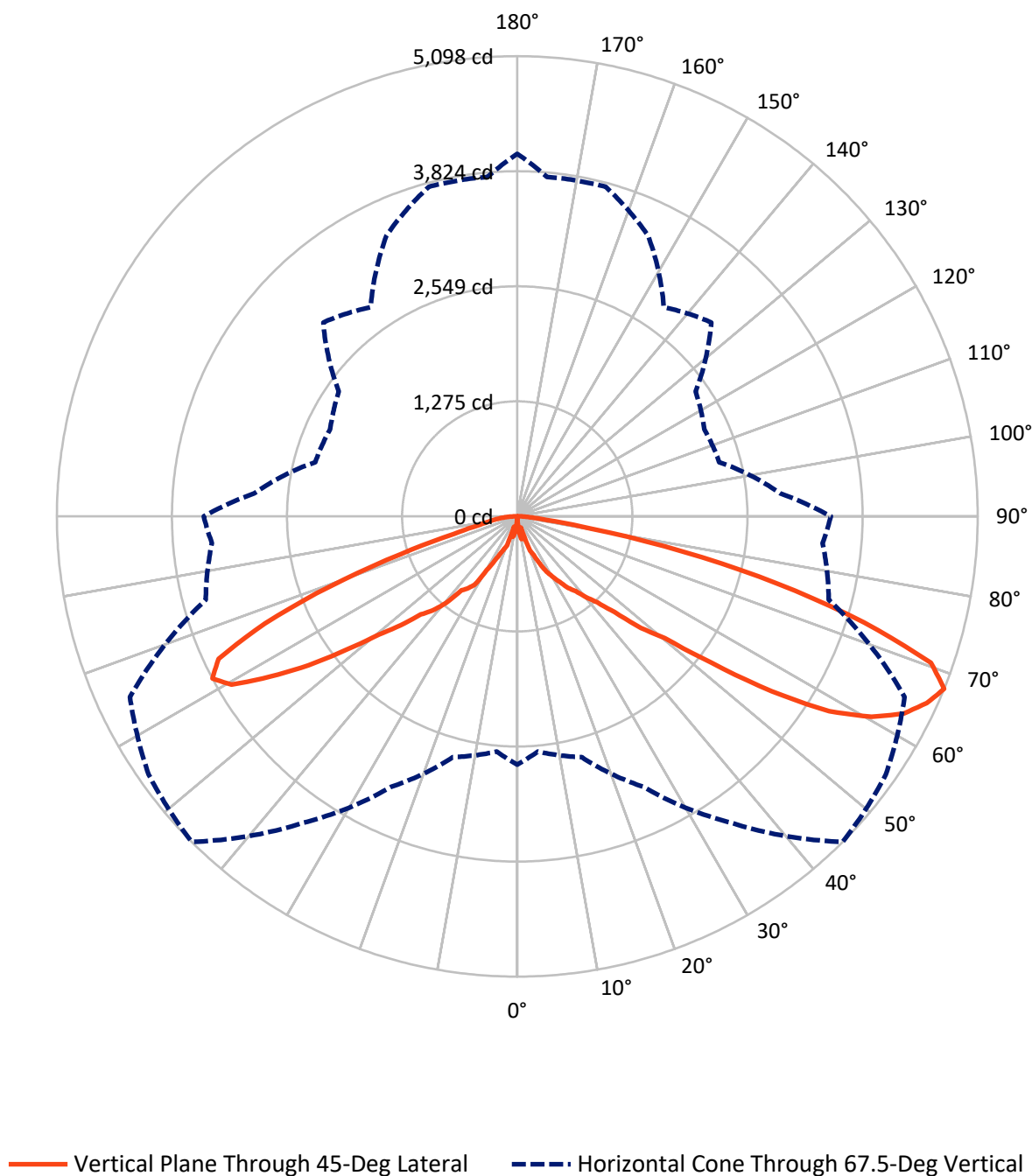


Based on 20 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Short - Cutoff

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Luminous Intensity Polar Plot



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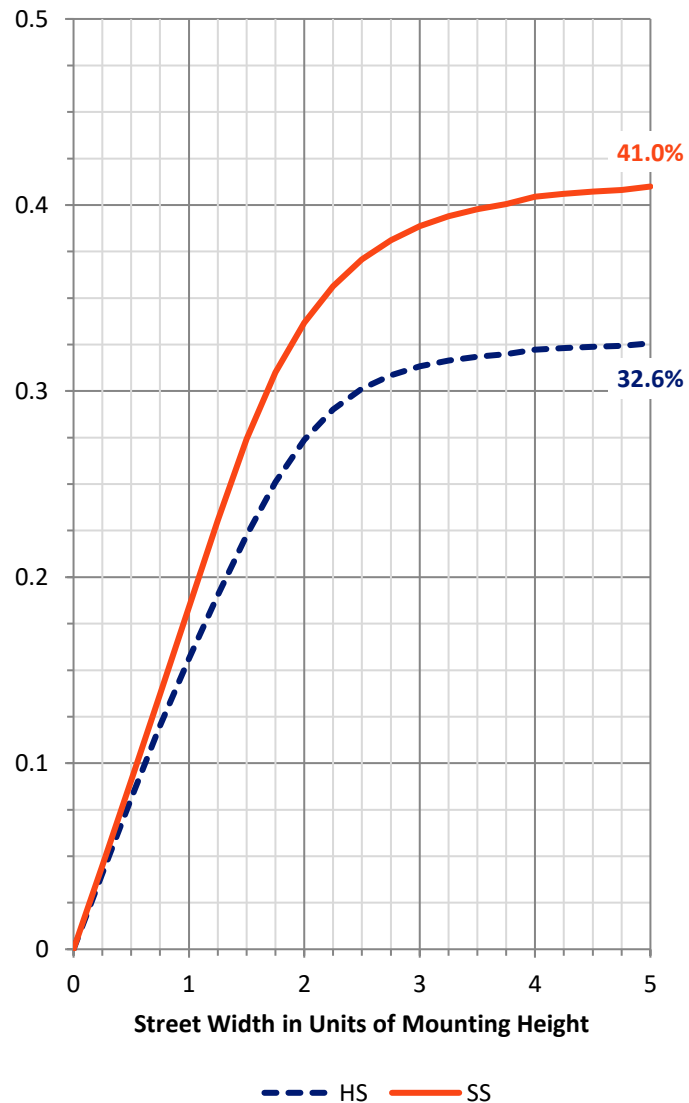
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4589.9	5.5	4595.3
	% Lamp	32.8	0.0	32.8
Street Side	Lumens	5767.3	9.0	5776.3
	% Lamp	41.2	0.1	41.3
Total	Lumens	10357.1	14.5	10371.7
	% Lamp	74.0	0.1	74.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	14.3	0.1	0.1
10°-20°	57.4	0.6	0.4
20°-30°	246.5	2.4	1.8
30°-40°	606.6	5.8	4.3
40°-50°	1252.6	12.1	8.9
50°-60°	2786.7	26.9	19.9
60°-70°	3610.5	34.8	25.8
70°-80°	1578.3	15.2	11.3
80°-90°	204.1	2.0	1.5
90°-100°	13.6	0.1	0.1
100°-110°	1.6	0.0	0.0
110°-120°	0.1	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	10357.1	99.9	74.0
0°-180°	10371.7	100.0	74.1

Coefficient of Utilization



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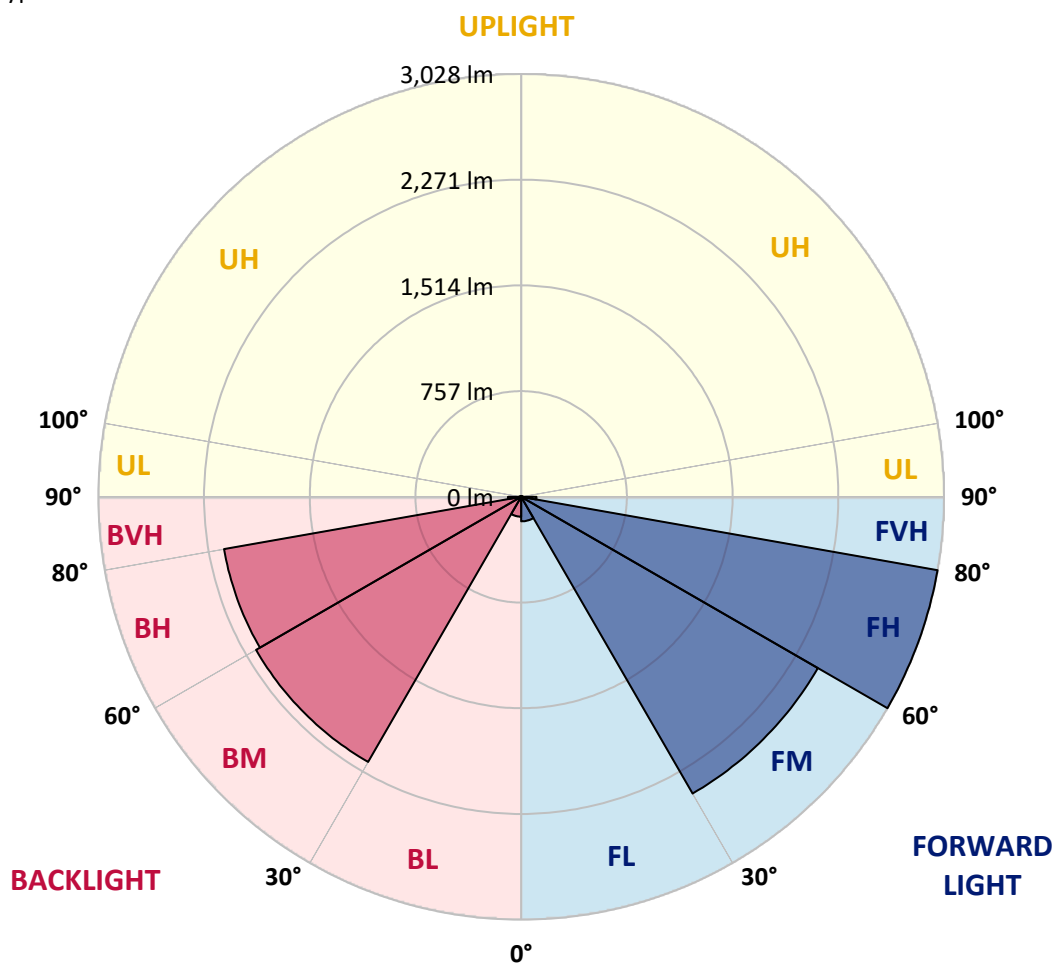
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	175.9	1.3			
FM	(30°-60°)	2453.7	17.5			
FH	(60°-80°)	3028.1	21.6			G2/5000
FVH	(80°-90°)	109.5	0.8			G2/225
BL	(0°-30°)	142.3	1.0	B1/500		
BM	(30°-60°)	2192.2	15.7	B2/2500		
BH	(60°-80°)	2160.7	15.4	B3/2500		G3/2500
BVH	(80°-90°)	94.6	0.7			G1/100
UL	(90°-100°)	13.6	0.1		U2/50	
UH	(100°-180°)	5.5	0.0		U1/10	
Trapped Light		3628.3	25.9			

BUG Rating: B3-U2-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	42	42	42	42	42	42	42	42	42	42	42
2.5°	73	68	73	68	63	58	63	58	63	52	47
5°	105	99	115	115	110	115	120	125	125	125	131
7.5°	157	162	199	204	209	209	209	214	204	173	162
10°	230	235	225	267	261	256	246	251	241	220	220
12.5°	272	261	251	251	261	256	246	241	241	230	204
15°	220	193	178	178	183	173	162	162	162	152	157
17.5°	146	157	141	141	131	131	125	131	125	131	136
20°	418	408	408	471	486	408	465	413	397	397	361
22.5°	492	444	439	518	512	465	549	492	502	481	465
25°	544	539	512	539	575	580	654	627	580	680	607
27.5°	617	601	580	627	633	695	727	722	669	685	612
30°	554	591	617	727	816	779	753	763	805	831	779
32.5°	1014	831	810	868	858	868	952	936	941	983	946
35°	931	931	926	973	978	973	1061	1056	1056	1082	1072
37.5°	1109	1061	1041	1035	1014	1051	1103	1135	1203	1124	1145
40°	1119	1156	1156	1192	1135	1176	1271	1234	1312	1297	1292
42.5°	1276	1302	1292	1318	1307	1302	1391	1422	1563	1490	1454
45°	1495	1506	1469	1522	1537	1511	1527	1569	1715	1804	1694
47.5°	1935	1903	1788	1809	1835	1846	1898	1961	2050	2186	1982
50°	2322	2348	2133	2144	2118	2118	2217	2243	2327	2583	2301
52.5°	3012	2939	2688	2667	2614	2693	2688	2745	2824	3153	2892
55°	3597	3524	3216	3247	3200	3420	3326	3451	3488	3718	3514
57.5°	3869	3896	3577	3801	3624	4073	4005	4209	3974	4173	4157
60°	3744	3697	3587	3775	3843	4507	4356	4575	4162	4445	4486
62.5°	3399	3326	3320	3597	3880	4805	4727	4764	4173	4371	4502
65°	3022	2928	3038	3503	4052	4983	4994	4863	3974	3932	4047
67.5°	2750	2614	2761	3305	4146	5098	4983	4732	3571	3394	3472
70°	2363	2222	2416	2944	3911	4858	4648	4371	3195	2797	2677
72.5°	1851	1668	1809	2332	3352	4016	3958	3660	2583	2112	1888
75°	1098	957	1114	1569	2458	2980	2954	2818	1856	1454	1161
77.5°	554	570	695	1030	1668	1872	1861	1809	1098	753	559
80°	251	246	376	654	858	826	779	722	460	350	335
82.5°	146	141	209	277	309	324	303	309	272	241	230
85°	94	89	120	136	141	162	167	178	178	162	162
87.5°	63	63	68	78	78	84	84	89	94	94	89
90°	42	37	37	37	37	31	42	37	37	37	37
95°	21	16	10	5	5	16	10	10	5	5	5
105°	0	5	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
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°	42	42	42	42	42	42	42	42	42	42
2.5°	52	58	47	42	31	26	26	21	16	10
5°	120	115	94	94	78	78	78	73	73	73
7.5°	152	173	162	152	146	162	162	188	183	178
10°	214	178	173	188	204	199	209	220	204	209
12.5°	204	204	199	214	230	220	199	214	199	188
15°	157	146	146	152	152	152	125	136	105	115
17.5°	125	120	125	120	120	105	115	99	89	73
20°	371	340	319	329	340	340	314	303	282	314
22.5°	465	460	397	397	387	371	329	340	314	335
25°	512	544	512	481	455	460	397	397	376	376
27.5°	622	664	601	570	554	554	460	460	444	429
30°	779	716	669	638	685	648	539	486	460	439
32.5°	915	957	905	941	894	884	753	680	669	648
35°	1046	1051	967	973	967	946	863	763	706	701
37.5°	1103	1140	1109	1098	1025	1041	1025	878	810	763
40°	1297	1244	1229	1218	1244	1213	1145	1051	931	868
42.5°	1506	1480	1480	1438	1401	1386	1271	1213	1109	1077
45°	1694	1658	1631	1631	1522	1537	1427	1349	1250	1224
47.5°	2003	2008	2008	1945	1767	1699	1637	1584	1464	1443
50°	2207	2186	2259	2118	2013	1861	1799	1731	1658	1673
52.5°	2567	2604	2620	2384	2390	2238	2165	2144	2039	2144
55°	3043	3163	2907	2865	2839	2719	2672	2787	2562	2792
57.5°	3472	3493	3064	3310	3258	3273	3268	3514	3247	3629
60°	3859	3561	3143	3493	3671	3713	3843	4094	3943	4528
62.5°	3796	3289	2944	3352	3822	3833	4141	4460	4314	4936
65°	3373	2850	2714	2980	3665	3529	4021	4450	4377	4769
67.5°	2923	2316	2285	2411	3038	2829	3430	3780	3775	4016
70°	2269	1678	1658	1715	2217	1997	2557	2750	2876	2918
72.5°	1605	1129	1124	1093	1354	1171	1501	1652	1731	1726
75°	941	685	664	638	727	648	763	842	878	889
77.5°	481	455	444	429	439	418	476	507	512	523
80°	309	303	303	314	319	303	335	371	361	376
82.5°	220	230	225	230	251	235	261	282	272	282
85°	146	162	162	173	167	173	178	193	162	167
87.5°	94	99	115	105	110	99	99	99	84	84
90°	37	37	42	42	42	37	31	26	21	21
95°	5	5	5	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	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)