

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: 768740

Luminaire Tested: **ACN17MXX5511**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768740  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN17MXX5511  
Description: 175WATT MH TYPE V REFRACTIVE GLOBE  
W/CLEAR TOP & CAGE  
Light Source: 175 WATT MH CLEAR ED-28  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 14000 (1 lamp)  
Luminaire Lumens: 10379.9 lumens  
Efficiency: 74.1%  
Efficacy: 59.3 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type V - Medium - Non-Cutoff  
BUG Rating: B3 - U5 - G3

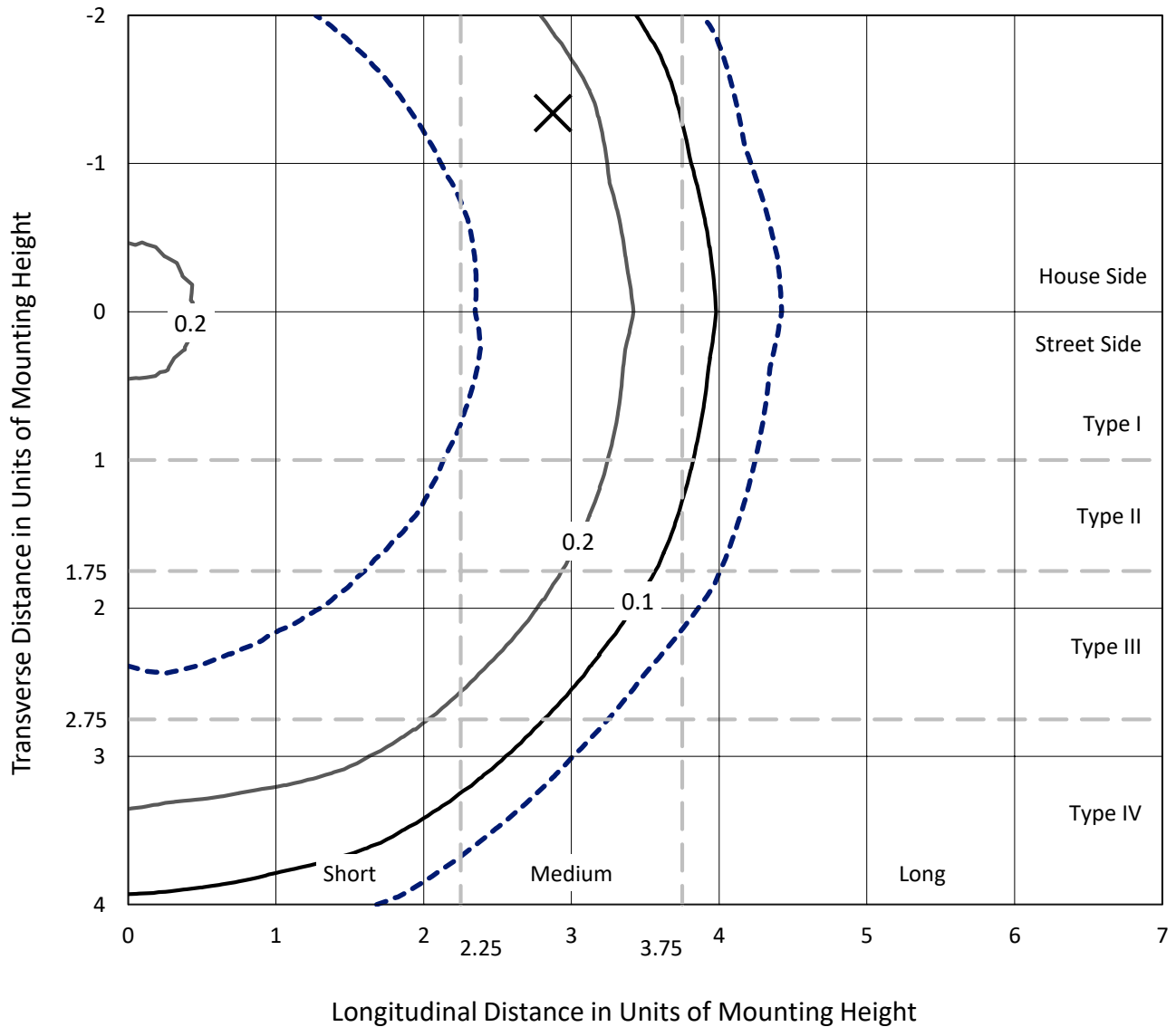
Input Watts (W): 175  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

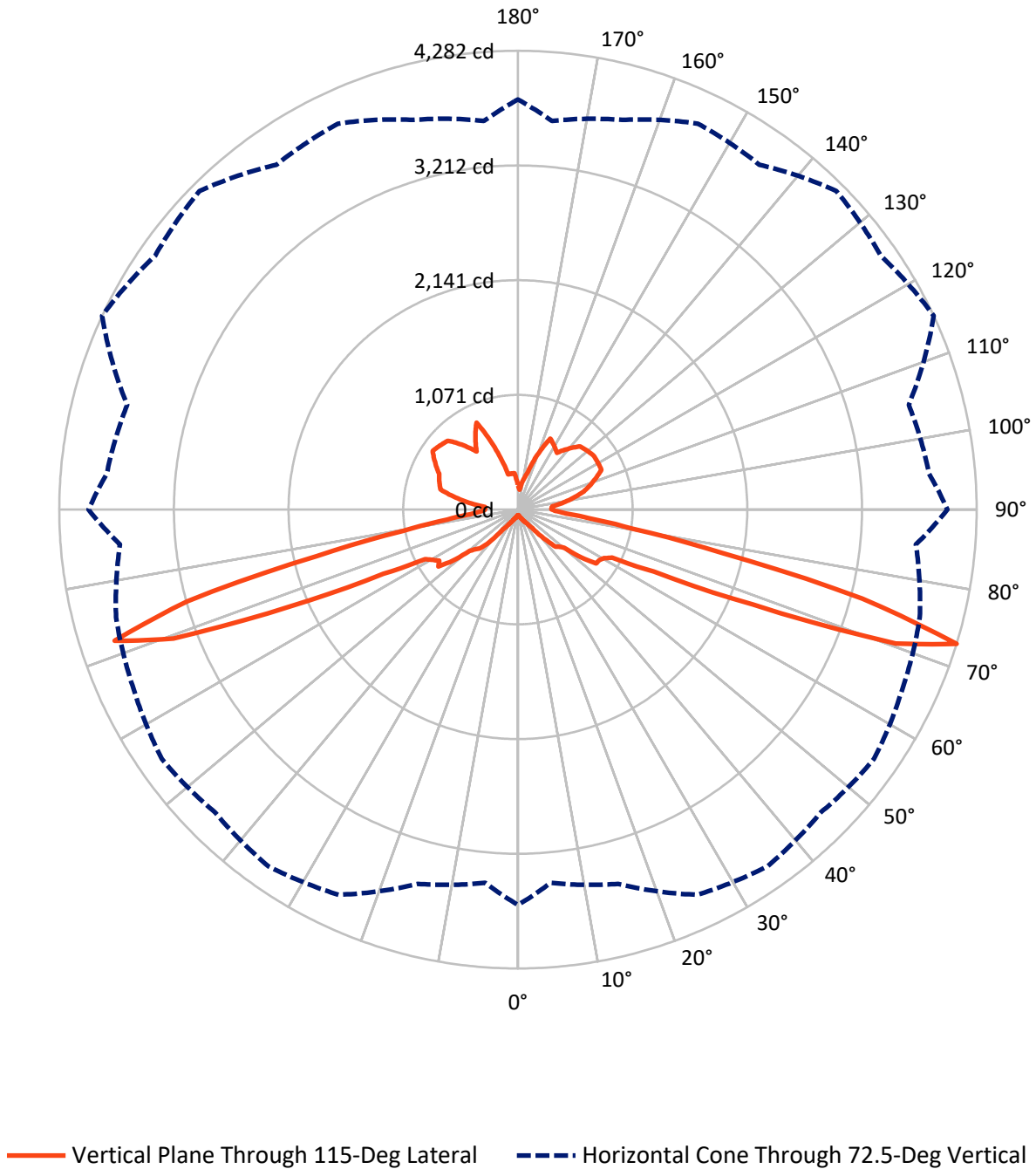
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.5 fc  
 Type V - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



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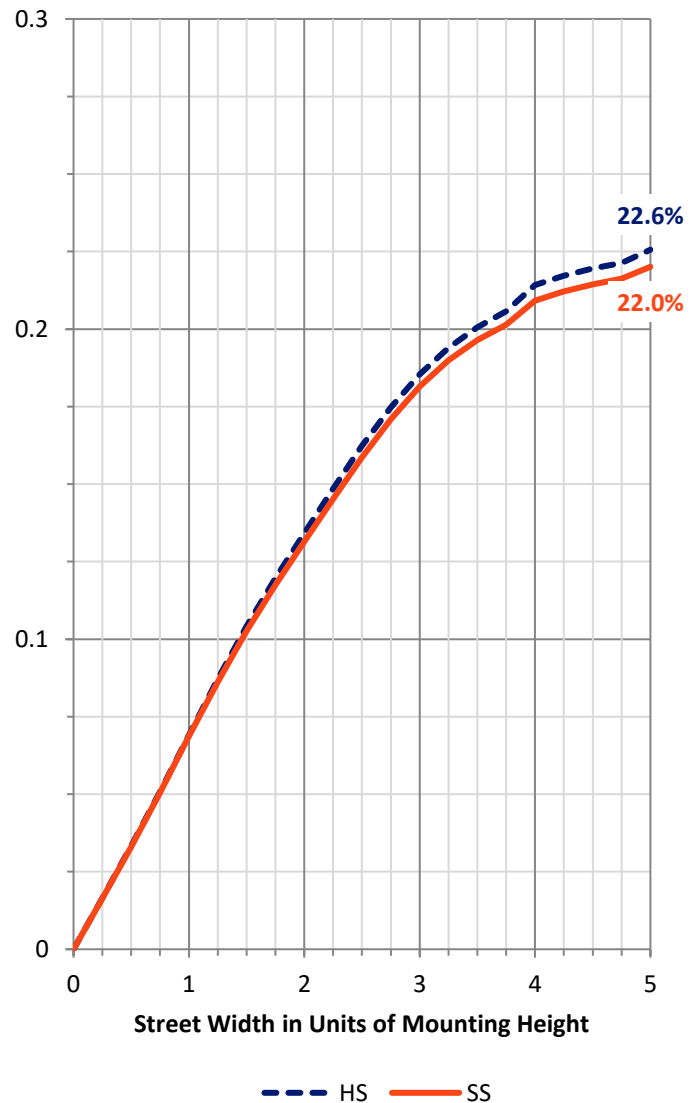
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3228.6	1935.5	5164.1
	% Lamp	23.1	13.8	36.9
<b>Street Side</b>	Lumens	3191.9	2023.9	5215.7
	% Lamp	22.8	14.5	37.3
<b>Total</b>	Lumens	6420.5	3959.4	10379.9
	% Lamp	45.9	28.3	74.1

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	5.4	0.1	0.0
10°-20°	21.6	0.2	0.2
20°-30°	51.6	0.5	0.4
30°-40°	126.5	1.2	0.9
40°-50°	357.5	3.4	2.6
50°-60°	713.9	6.9	5.1
60°-70°	1653.5	15.9	11.8
70°-80°	2929.6	28.2	20.9
80°-90°	561.0	5.4	4.0
90°-100°	347.8	3.4	2.5
100°-110°	572.4	5.5	4.1
110°-120°	743.0	7.2	5.3
120°-130°	754.4	7.3	5.4
130°-140°	610.7	5.9	4.4
140°-150°	448.8	4.3	3.2
150°-160°	292.1	2.8	2.1
160°-170°	120.0	1.2	0.9
170°-180°	24.7	0.2	0.2
0°-90°	6420.5	61.9	45.9
0°-180°	10379.9	100.0	74.1



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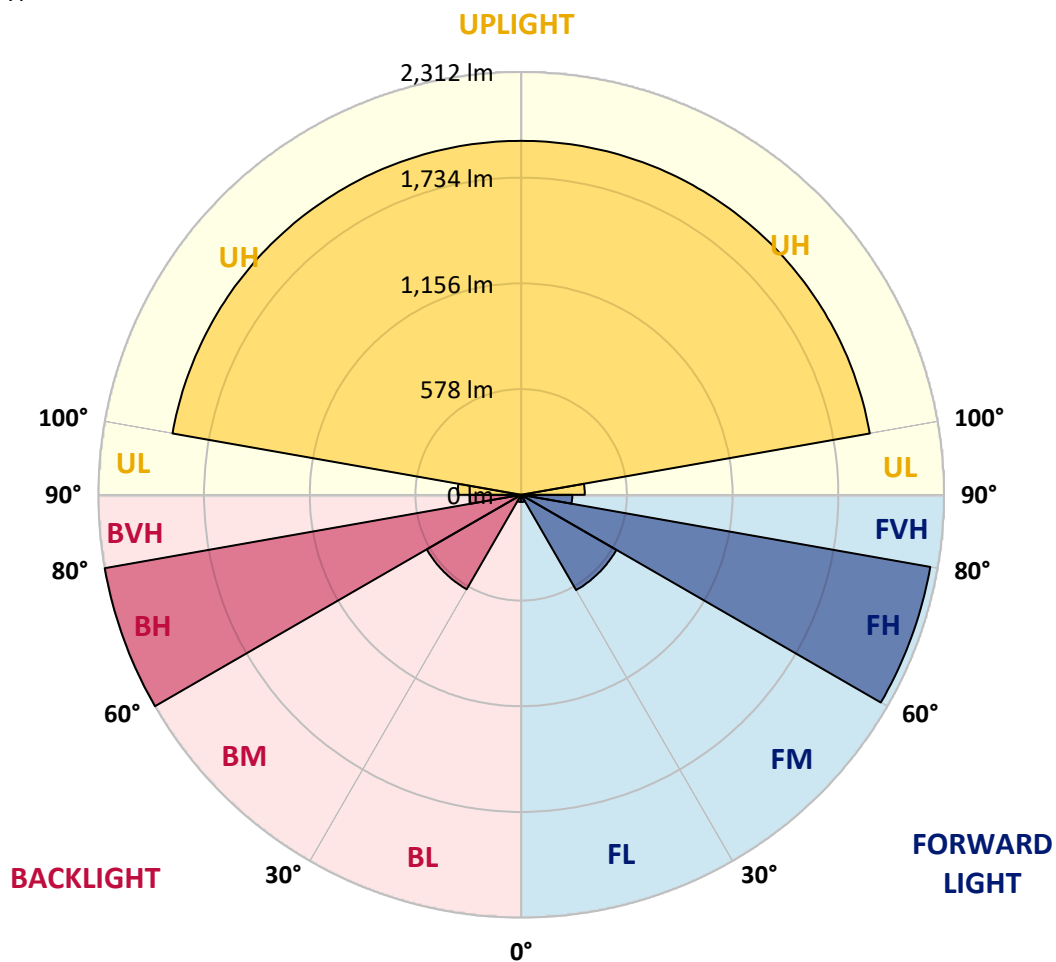
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	39.5	0.3			
FM (30°-60°)	601.6	4.3			
FH (60°-80°)	2271.2	16.2			G2/5000
FVH (80°-90°)	279.5	2.0			G3/500
BL (0°-30°)	39.1	0.3	B0/110		
BM (30°-60°)	596.3	4.3	B1/1000		
BH (60°-80°)	2311.8	16.5	B3/2500		G2/5000
BVH (80°-90°)	281.5	2.0			G3/500
UL (90°-100°)	347.8	2.5		U3/500	
UH (100°-180°)	1935.5	13.8		U5	
Trapped Light	3620.1	25.9			

**BUG Rating: B3-U5-G3**

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	56	56	56	56	56	56	56	56	56	56	56
2.5°	53	54	55	55	56	56	57	56	56	55	55
5°	51	51	51	53	55	55	54	53	51	52	51
7.5°	58	58	58	58	59	60	59	59	57	56	55
10°	63	62	63	64	64	65	64	63	63	61	61
12.5°	71	70	70	70	71	71	70	70	69	69	69
15°	77	77	77	77	77	77	77	77	76	76	76
17.5°	82	81	82	83	82	82	82	82	81	81	81
20°	86	86	86	87	86	87	87	86	86	86	86
22.5°	94	94	94	94	93	93	94	96	96	98	97
25°	108	107	108	107	107	107	109	109	111	114	115
27.5°	125	124	123	123	123	126	125	126	130	131	130
30°	133	132	134	136	135	135	137	139	138	137	136
32.5°	160	159	161	162	155	153	155	161	161	160	160
35°	196	194	192	194	189	191	191	195	203	211	209
37.5°	229	225	226	225	220	218	225	229	232	236	239
40°	323	319	321	312	292	291	295	324	333	346	346
42.5°	420	411	409	393	398	413	415	429	430	446	454
45°	455	460	459	482	504	529	510	507	477	488	491
47.5°	431	443	482	517	546	579	555	540	502	465	453
50°	483	490	531	563	595	626	616	594	550	484	472
52.5°	628	644	668	717	749	796	782	779	696	657	658
55°	765	814	806	861	928	943	942	912	817	808	799
57.5°	781	825	803	868	902	903	907	875	833	826	817
60°	781	805	814	883	922	941	908	923	850	834	823
62.5°	840	775	832	927	961	980	986	984	899	848	857
65°	1298	1113	1244	1317	1315	1369	1334	1393	1304	1198	1318
67.5°	2184	1971	2096	2206	2199	2270	2200	2302	2218	2167	2361
70°	3277	3051	3182	3441	3493	3500	3513	3432	3428	3334	3546
72.5°	3689	3496	3615	3965	4062	3997	4057	3959	3884	3729	4009
75°	2963	2900	2921	3177	3132	3062	3093	3205	3067	3026	3181
77.5°	1924	1941	1861	1894	1781	1725	1743	1929	1933	1938	2008
80°	1159	1177	1088	1052	938	895	918	1096	1164	1168	1217
82.5°	661	682	642	635	564	532	550	665	688	685	710
85°	415	432	415	425	405	392	393	449	446	440	450
87.5°	318	333	325	337	323	315	315	352	346	339	337
90°	279	294	291	299	278	273	273	308	303	298	292
95°	276	286	290	289	247	239	244	306	303	301	298
105°	687	680	691	690	323	289	325	747	729	702	654
115°	809	784	763	765	739	746	750	809	799	809	809
125°	943	929	907	901	820	886	914	966	961	938	914
135°	839	824	800	799	767	843	854	917	899	860	851
145°	609	602	595	605	596	641	636	665	674	648	644
155°	787	781	771	787	829	854	892	899	872	828	806
165°	327	326	324	324	323	318	332	341	348	349	352



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	327	326	324	324	323	318	332	341	202	192	192
180°	231	231	231	231	231	231	231	231	231	231	231





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	56	56	56	56	56	56	56	56	56	56
2.5°	55	56	56	55	54	53	53	52	51	50
5°	51	51	51	52	52	50	49	47	47	47
7.5°	55	55	56	56	57	56	55	53	52	53
10°	61	61	61	62	61	60	60	60	59	58
12.5°	69	68	68	69	69	68	67	66	67	67
15°	76	76	75	75	75	75	74	74	73	73
17.5°	83	81	81	81	81	80	81	80	79	79
20°	86	87	86	87	86	86	87	86	86	84
22.5°	97	96	96	96	94	96	97	97	97	97
25°	117	115	112	111	110	110	110	108	109	109
27.5°	128	125	122	123	122	120	121	119	121	121
30°	135	136	134	132	131	130	132	131	129	129
32.5°	159	160	155	151	147	149	152	152	152	152
35°	203	193	184	179	176	182	186	186	189	190
37.5°	232	223	218	215	209	215	220	219	223	222
40°	334	326	306	288	280	287	310	321	327	330
42.5°	439	418	395	396	393	396	403	412	420	430
45°	479	477	492	502	503	499	482	458	456	455
47.5°	446	493	515	540	529	529	505	470	424	421
50°	466	528	560	587	579	575	565	521	470	454
52.5°	647	685	744	775	781	761	745	680	646	640
55°	806	818	886	926	964	940	871	818	789	755
57.5°	851	858	892	940	925	934	876	841	797	792
60°	865	852	920	943	937	927	888	845	810	779
62.5°	875	858	986	969	987	960	939	862	825	800
65°	1274	1260	1393	1386	1360	1340	1359	1218	1183	1222
67.5°	2293	2214	2364	2372	2338	2261	2263	2114	2104	2146
70°	3455	3357	3742	3607	3652	3460	3476	3248	3166	3277
72.5°	3852	3777	4282	4133	4204	3929	3974	3765	3641	3827
75°	3086	3022	3320	3161	3180	3008	3170	3083	2996	3096
77.5°	1999	1873	1943	1805	1757	1708	1877	1942	1920	1979
80°	1203	1111	1089	946	892	897	1031	1133	1160	1203
82.5°	707	672	667	575	529	539	629	672	681	705
85°	451	438	447	416	394	395	438	441	443	452
87.5°	341	339	348	332	317	317	342	336	333	336
90°	299	304	311	289	276	278	300	296	292	293
95°	307	320	323	256	244	246	307	305	303	300
105°	689	678	640	341	302	312	596	594	562	503
115°	814	867	863	796	728	742	788	782	787	771
125°	918	899	868	794	823	792	810	827	830	794
135°	857	849	827	806	810	772	789	802	796	782
145°	642	648	643	645	624	598	591	606	610	595
155°	780	757	728	738	708	673	677	721	735	738
165°	351	351	352	348	340	338	339	344	350	350



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	190	187	186	181	176	176	178	179	124	77
180°	231	231	231	231	231	231	231	231	231	231

(END OF REPORT)