

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: 768059

Luminaire Tested: **ACN17MXX33X1XP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768059  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN17MXX33X1XP  
Description: REFRACTIVE GLOBE TYPE III  
POLYCARB. WITH CLEAR TOP  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 14000 (1 lamp)  
Luminaire Lumens: 12537.7 lumens  
Efficiency: 89.6%  
Efficacy: 71.6 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B3 - U5 - G3

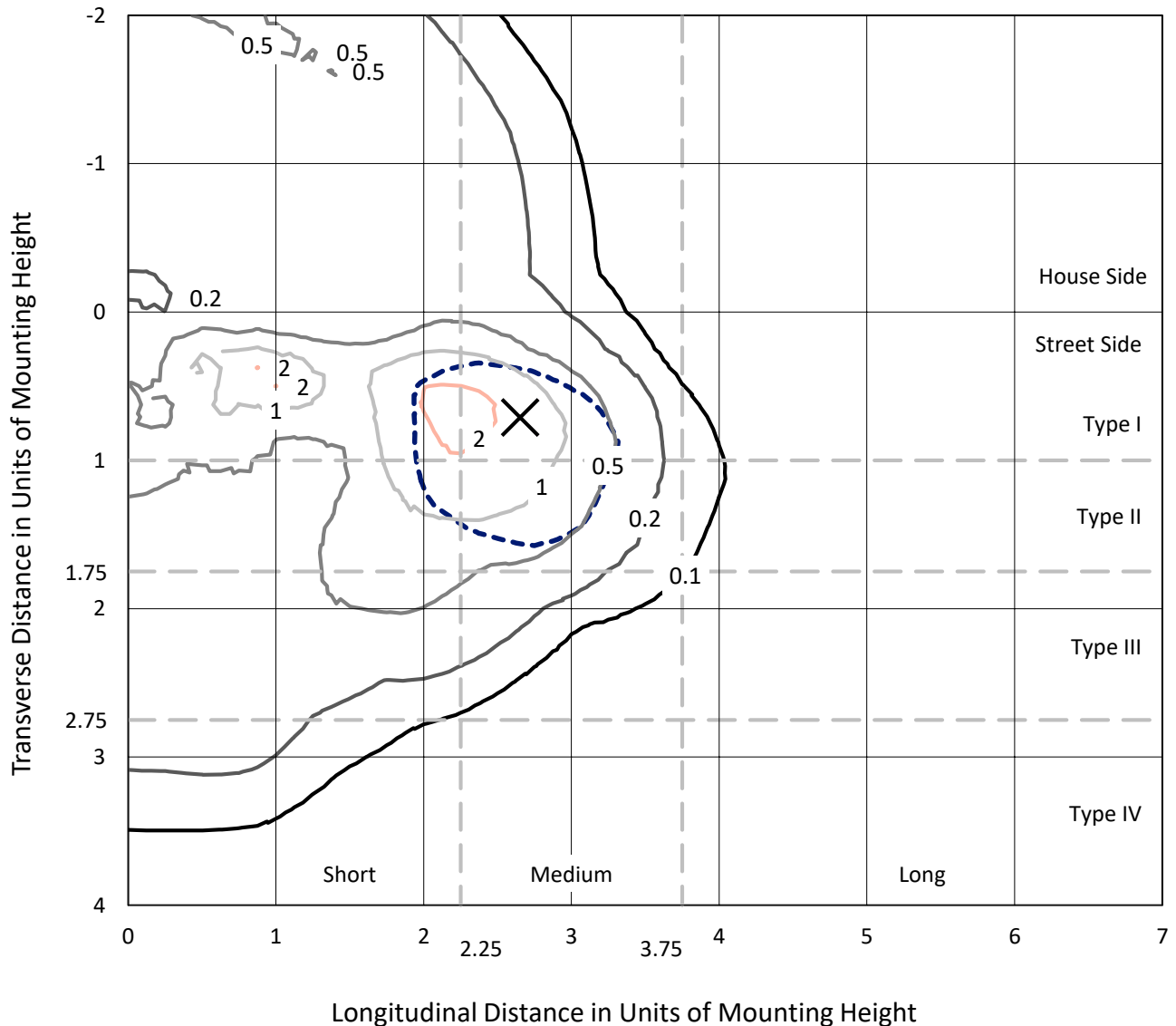
Input Watts (W): 175  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

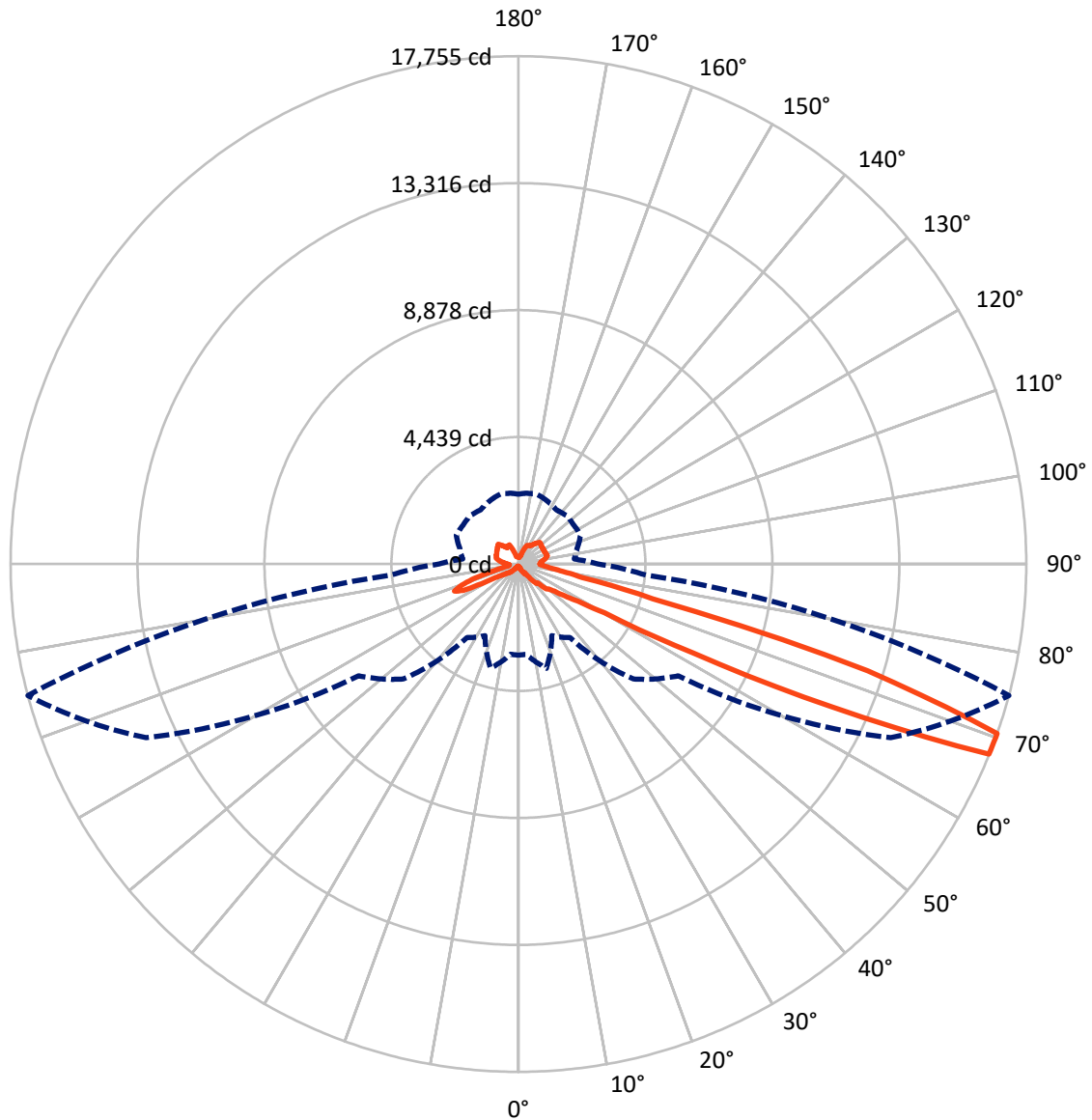
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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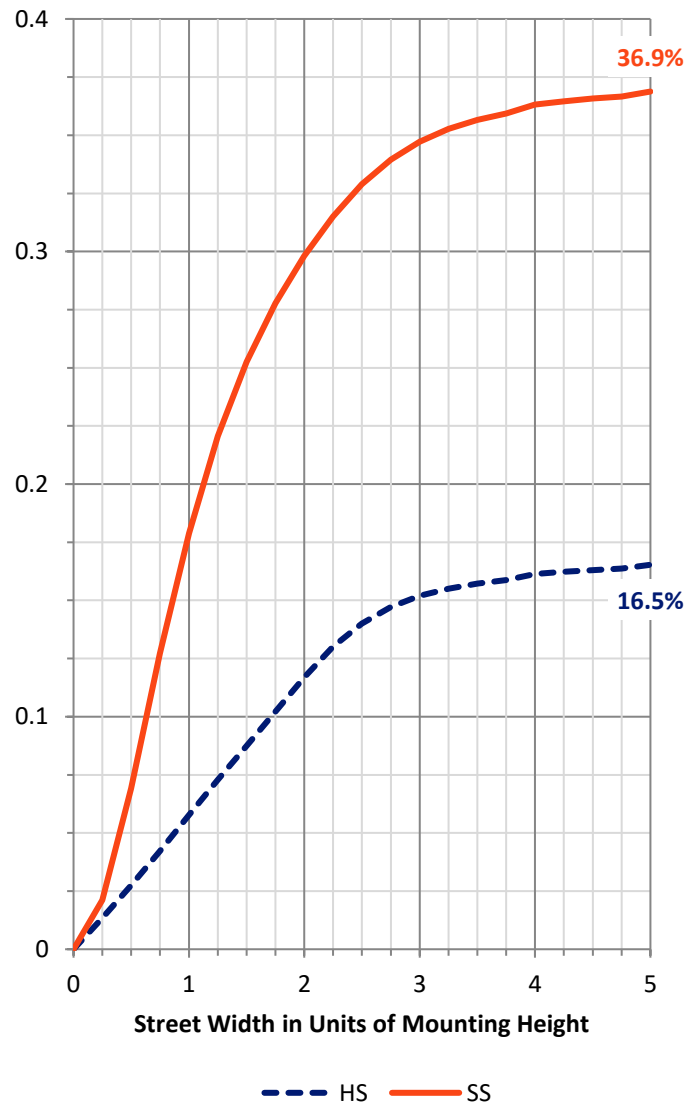
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2416.3	2299.5	4715.9
	% Lamp	17.3	16.4	33.7
<b>Street Side</b>	Lumens	5301.1	2520.8	7821.8
	% Lamp	37.9	18.0	55.9
<b>Total</b>	Lumens	7717.4	4820.3	12537.7
	% Lamp	55.1	34.4	89.6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	8.5	0.1	0.1
10°-20°	31.9	0.3	0.2
20°-30°	104.8	0.8	0.7
30°-40°	233.4	1.9	1.7
40°-50°	566.2	4.5	4.0
50°-60°	799.9	6.4	5.7
60°-70°	3293.7	26.3	23.5
70°-80°	2192.1	17.5	15.7
80°-90°	487.0	3.9	3.5
90°-100°	607.1	4.8	4.3
100°-110°	829.7	6.6	5.9
110°-120°	869.1	6.9	6.2
120°-130°	836.4	6.7	6.0
130°-140°	718.8	5.7	5.1
140°-150°	498.9	4.0	3.6
150°-160°	273.2	2.2	2.0
160°-170°	105.5	0.8	0.8
170°-180°	25.3	0.2	0.2
0°-90°	7717.4	61.6	55.1
0°-180°	12537.7	100.0	89.6

**Coefficient of Utilization**



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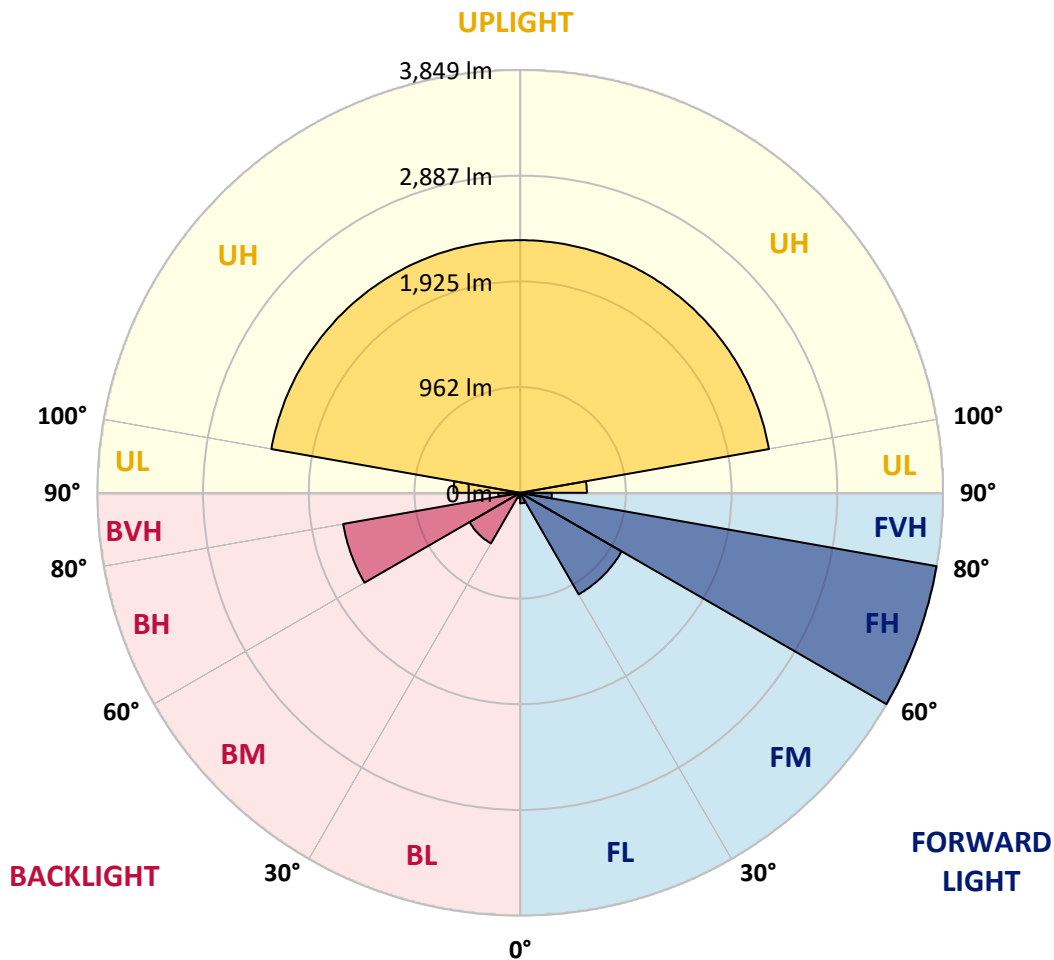
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	95.7	0.7			
FM	(30°-60°)	1067.4	7.6			
FH	(60°-80°)	3849.3	27.5			G2/5000
FVH	(80°-90°)	288.6	2.1			G3/500
BL	(0°-30°)	49.4	0.4	B0/110		
BM	(30°-60°)	532.0	3.8	B1/1000		
BH	(60°-80°)	1636.5	11.7	B3/2500		G3/2500
BVH	(80°-90°)	198.4	1.4			G2/225
UL	(90°-100°)	607.1	4.3		U4/1000	
UH	(100°-180°)	2299.5	16.4		U5	
Trapped Light		1462.3	10.4			

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

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	93	93	93	93	93	93	93	93	93	93	93
2.5°	93	98	98	98	98	93	93	93	93	88	84
5°	102	102	102	98	98	98	98	93	88	88	84
7.5°	93	93	102	102	112	112	107	102	93	88	84
10°	93	93	102	107	112	126	121	107	98	88	84
12.5°	102	102	107	121	130	135	135	116	98	93	88
15°	121	121	121	135	154	163	154	130	107	93	88
17.5°	130	126	126	144	163	182	182	144	116	98	98
20°	158	154	144	168	224	237	233	191	144	116	107
22.5°	177	177	168	196	256	307	326	247	177	130	116
25°	242	233	214	228	321	419	447	349	251	168	144
27.5°	335	331	270	284	433	526	582	480	321	191	163
30°	419	400	321	326	517	610	722	601	345	200	172
32.5°	373	345	289	293	466	568	759	703	419	214	186
35°	447	433	345	326	508	512	629	773	349	205	186
37.5°	410	382	331	317	512	563	778	931	512	242	205
40°	652	615	522	484	894	964	1178	1630	768	307	256
42.5°	810	792	643	582	1066	1108	1276	2300	922	345	293
45°	754	745	605	535	931	959	1132	2487	941	368	326
47.5°	903	889	731	652	1118	1187	1327	2994	1294	428	377
50°	941	903	740	675	1085	1080	1132	2980	1378	452	414
52.5°	698	694	591	522	833	838	917	2403	1583	498	452
55°	773	787	638	549	945	955	1006	2044	1960	577	512
57.5°	875	815	638	554	1052	1108	1211	1988	2440	750	619
60°	969	871	722	582	1104	1150	1276	2221	3464	1085	829
62.5°	1024	1006	1150	931	1374	1853	2235	4479	6826	2142	1383
65°	1779	1816	2133	1630	2319	3641	4475	8721	12060	3618	2235
67.5°	3036	3027	3627	2631	3404	5848	6682	13890	17741	4521	2808
70°	3185	3166	3772	2761	3138	5685	6817	14365	17755	4484	2771
72.5°	2626	2710	3162	2300	2328	4005	5481	11832	12773	3492	2114
75°	1453	1499	1676	1211	1085	1523	2137	4880	4857	1737	1155
77.5°	615	643	703	549	540	740	959	2026	2277	941	703
80°	447	466	498	410	419	568	703	1336	1565	684	535
82.5°	363	377	400	345	354	466	568	950	1122	549	447
85°	326	340	354	321	331	410	498	782	908	484	400
87.5°	335	345	359	335	345	391	461	694	778	480	419
90°	345	354	368	354	359	396	456	666	745	475	419
95°	447	461	466	475	489	517	568	764	815	573	531
105°	847	843	903	833	829	838	847	983	1048	889	866
115°	847	857	885	866	875	857	885	973	1010	885	871
125°	959	964	978	964	969	959	950	1043	1010	945	903
135°	1043	996	1038	1015	1024	1052	1062	1169	1062	1094	1024
145°	792	768	806	833	815	806	778	829	782	796	740
155°	559	591	708	740	731	703	722	717	708	740	726
165°	289	293	303	312	307	307	303	298	298	289	284



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	233	265	284	228	224	224	219	279	233	289	284
180°	261	261	261	261	261	261	261	261	261	261	261





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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	93	93	93	93	93	93	93	93	93	93
2.5°	84	84	84	84	84	84	79	79	79	75
5°	84	79	79	79	75	75	75	75	75	75
7.5°	84	79	75	79	75	75	75	75	75	75
10°	84	79	79	79	75	75	75	75	75	75
12.5°	84	84	79	79	84	79	84	84	84	84
15°	88	84	84	84	84	84	84	84	84	84
17.5°	93	93	93	93	93	93	93	93	93	93
20°	102	102	98	98	102	102	102	107	112	112
22.5°	116	112	112	112	116	121	121	121	121	121
25°	130	126	130	140	144	144	144	144	140	140
27.5°	149	154	158	168	172	177	177	177	172	177
30°	163	168	172	177	182	182	182	182	177	177
32.5°	177	186	191	205	205	200	205	200	196	196
35°	177	186	196	210	214	219	219	219	219	214
37.5°	200	219	233	251	256	256	261	261	270	270
40°	251	293	303	326	335	331	340	354	354	354
42.5°	298	345	363	368	382	396	400	414	405	410
45°	321	373	396	414	428	438	442	461	456	447
47.5°	391	452	480	484	498	508	508	545	526	522
50°	442	480	494	470	484	503	508	535	531	522
52.5°	484	540	549	522	531	568	573	559	563	540
55°	545	643	629	605	605	643	610	582	582	577
57.5°	638	740	764	759	768	829	750	694	680	689
60°	806	931	1010	996	1038	1141	1127	1015	964	978
62.5°	1253	1457	1625	1611	1714	1807	1914	1807	1700	1686
65°	1811	2147	2445	2463	2636	2710	2836	2812	2705	2673
67.5°	2119	2431	2757	2738	2803	2743	2868	2943	2943	2906
70°	1956	2123	2393	2365	2384	2310	2417	2524	2482	2440
72.5°	1495	1602	1718	1592	1620	1541	1569	1588	1346	1294
75°	857	871	894	829	843	806	843	861	671	652
77.5°	531	522	531	522	517	503	531	540	480	466
80°	414	391	410	400	391	391	405	419	391	382
82.5°	345	331	345	354	340	345	359	373	359	345
85°	326	321	331	340	340	340	354	363	349	326
87.5°	354	345	354	368	363	368	373	382	368	345
90°	368	373	377	386	382	386	396	405	391	363
95°	498	508	512	526	545	549	545	545	522	456
105°	829	810	847	866	861	857	852	866	861	754
115°	847	838	806	820	810	820	815	796	717	605
125°	889	899	871	880	903	908	903	899	843	698
135°	992	983	945	922	964	983	1015	1001	1038	922
145°	708	694	680	694	712	726	740	717	568	503
155°	736	740	684	652	657	647	615	540	377	345
165°	279	265	261	261	261	265	270	265	256	251



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	279	265	261	261	261	265	270	265	256	251
180°	261	261	261	261	261	261	261	261	261	261

(END OF REPORT)