

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: 768946

Luminaire Tested: **ARC17MXX5C16X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768946
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC17MXX5C16X
Description: CUTOFF GENERATIONS POST TOP TYPE 5 W/CAGE
Light Source: 175 WATT MH CLEAR ED-28
Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 7710.3 lumens
Efficiency: 55.1%
Efficacy: 44.1 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B3 - U3 - G2

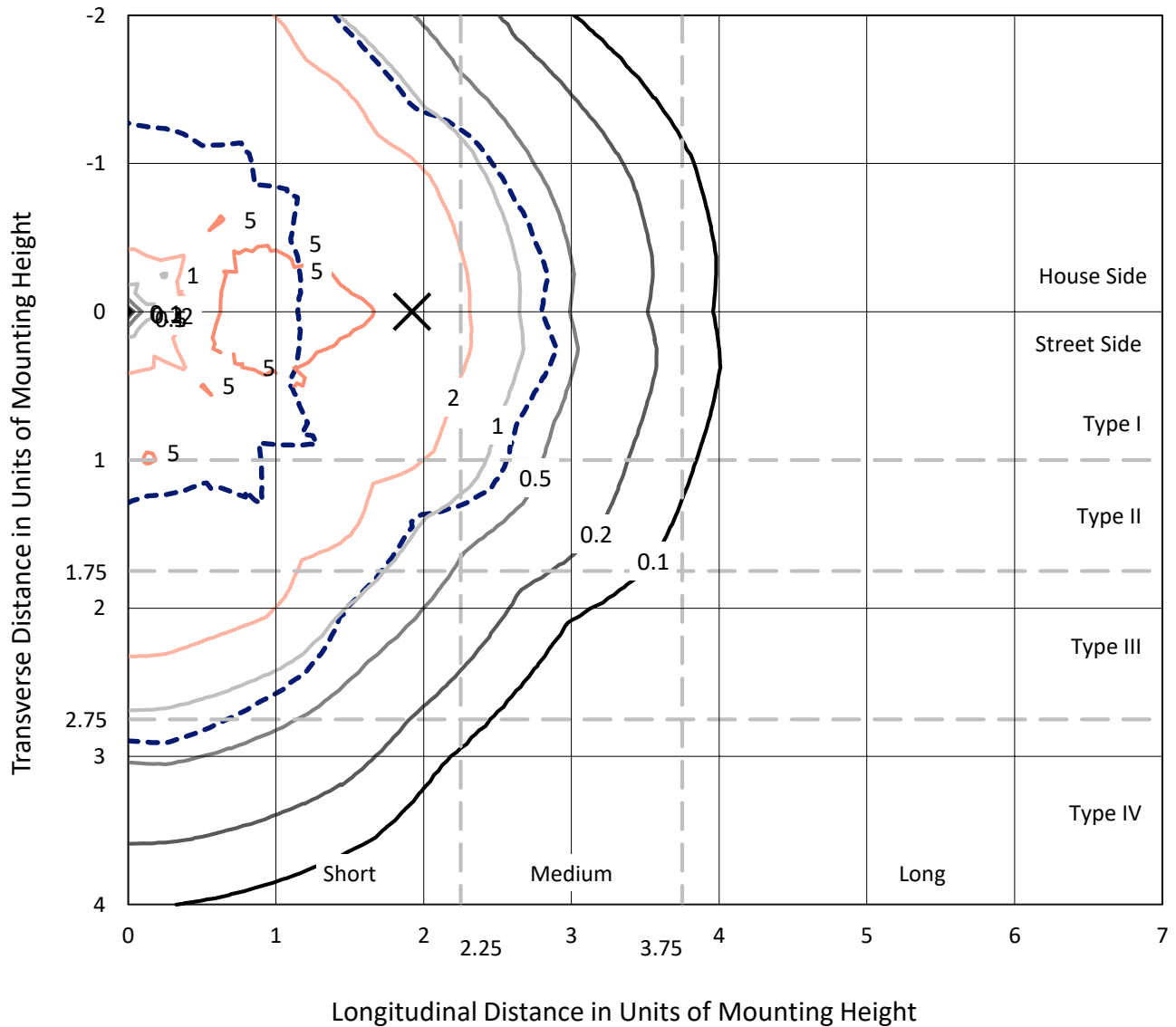
Input Watts (W): 175
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

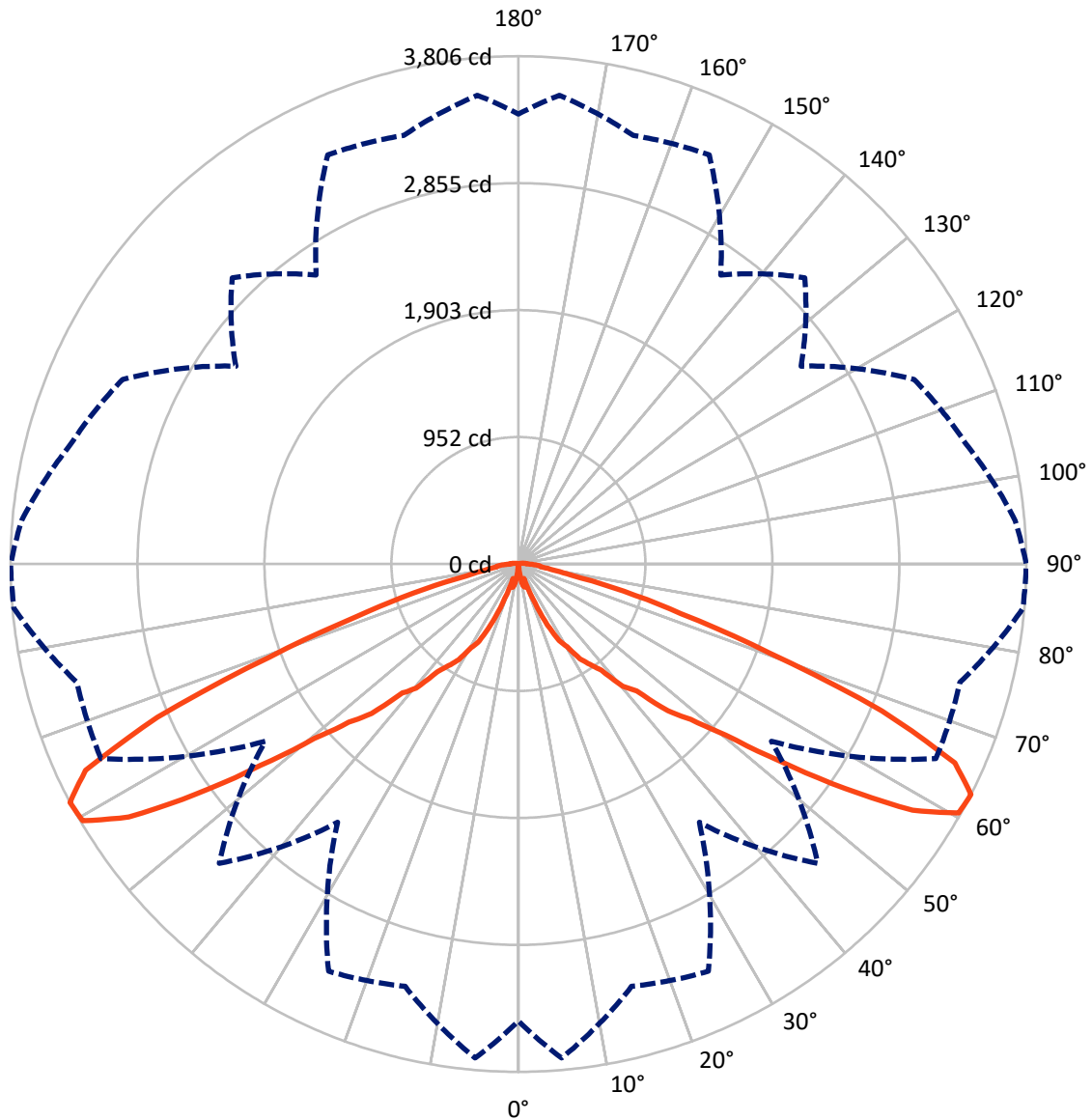
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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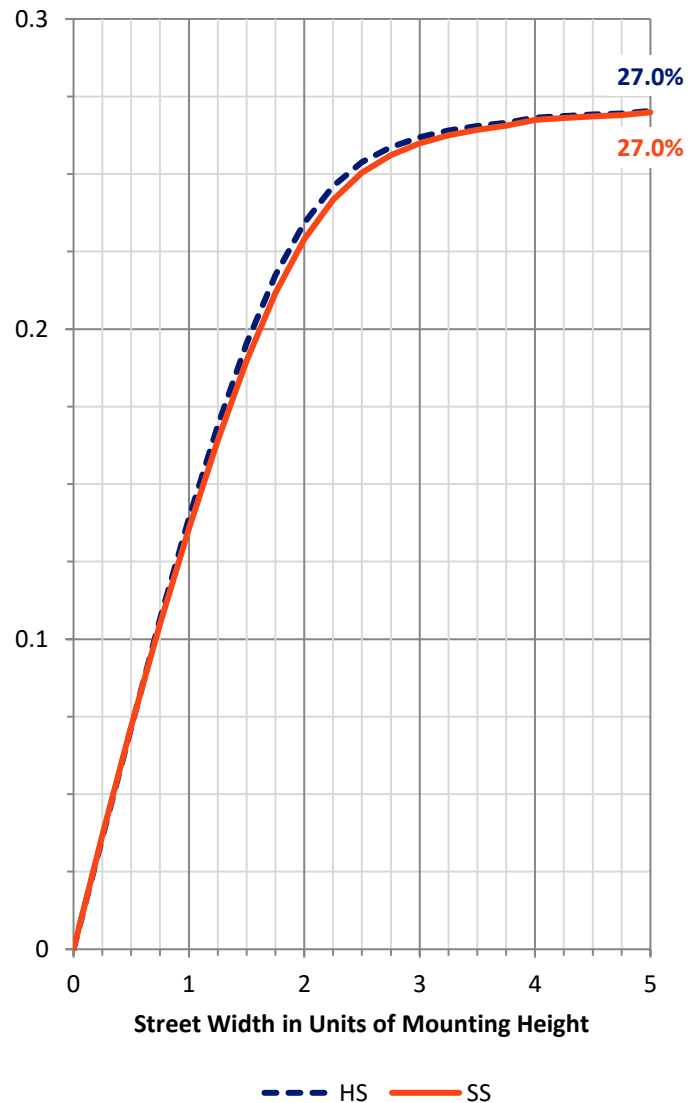
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3808.4	41.2	3849.6
	% Lamp	27.2	0.3	27.5
Street Side	Lumens	3811.9	48.8	3860.7
	% Lamp	27.2	0.3	27.6
Total	Lumens	7620.3	90.0	7710.3
	% Lamp	54.4	0.6	55.1

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	6.3	0.1	0.0
10°-20°	43.6	0.6	0.3
20°-30°	181.7	2.4	1.3
30°-40°	517.2	6.7	3.7
40°-50°	1020.5	13.2	7.3
50°-60°	2138.8	27.7	15.3
60°-70°	2752.3	35.7	19.7
70°-80°	819.8	10.6	5.9
80°-90°	140.0	1.8	1.0
90°-100°	52.7	0.7	0.4
100°-110°	27.9	0.4	0.2
110°-120°	8.5	0.1	0.1
120°-130°	2.1	0.0	0.0
130°-140°	0.9	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°	7620.3	98.8	54.4
0°-180°	7710.3	100.0	55.1



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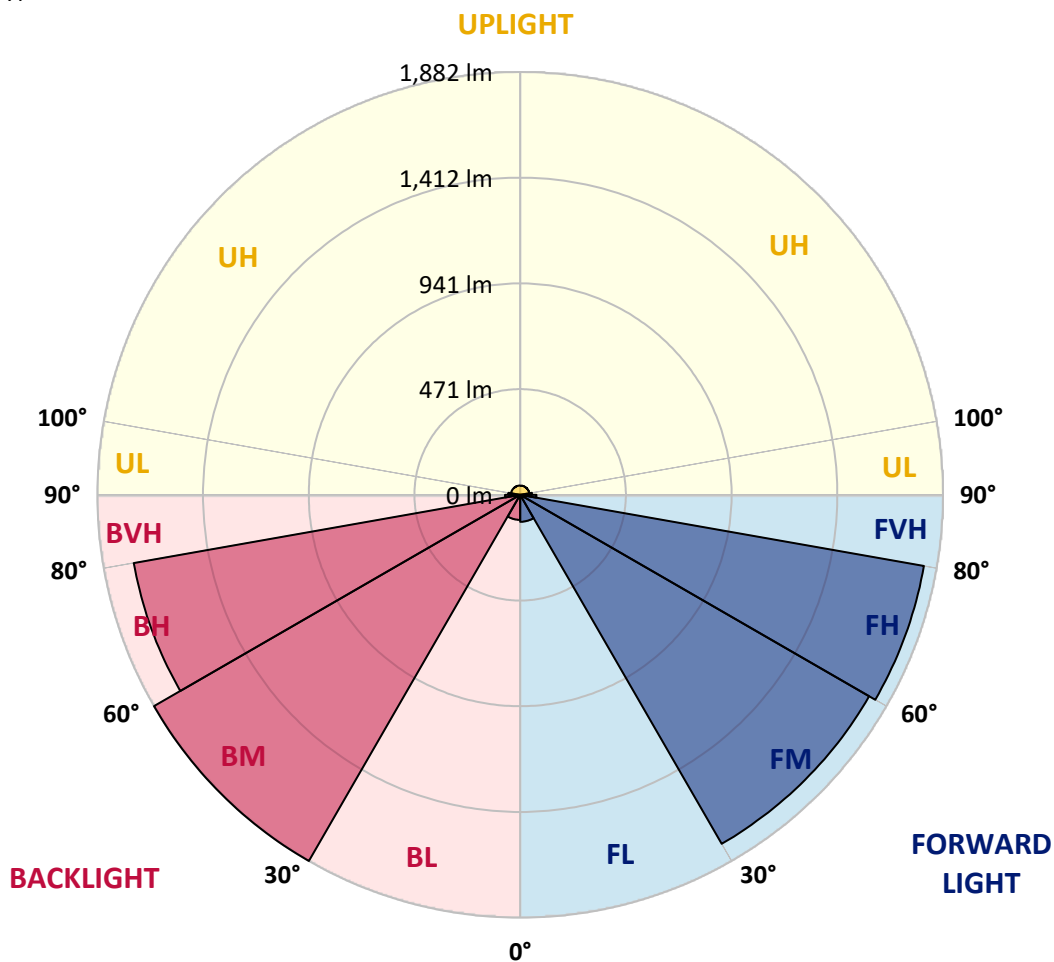
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	120.1	0.9			
FM (30°-60°)	1794.1	12.8			
FH (60°-80°)	1825.1	13.0			G2/5000
FVH (80°-90°)	72.6	0.5			G1/100
BL (0°-30°)	111.5	0.8	B1/500		
BM (30°-60°)	1882.5	13.4	B2/2500		
BH (60°-80°)	1746.9	12.5	B3/2500		G1/1800
BVH (80°-90°)	67.4	0.5			G1/100
UL (90°-100°)	52.7	0.4		U3/500	
UH (100°-180°)	41.2	0.3		U2/50	
Trapped Light	6289.7	44.9			

BUG Rating: B3-U3-G2

Type V 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°	0	0	0	0	0	0	0	0	0	0	0
5°	11	16	16	16	21	16	21	21	26	21	21
7.5°	74	69	69	74	79	69	79	85	85	69	79
10°	95	100	116	132	143	143	153	137	132	137	143
12.5°	148	159	169	201	196	196	190	185	174	169	169
15°	190	185	196	206	206	206	185	196	174	185	180
17.5°	169	164	159	169	169	164	153	148	148	137	143
20°	137	137	137	143	137	132	137	132	132	122	116
22.5°	243	233	264	285	248	148	211	328	344	270	317
25°	391	423	428	486	312	153	349	550	544	455	507
27.5°	507	518	539	555	359	180	439	677	650	650	650
30°	592	603	608	640	391	677	476	777	772	714	719
32.5°	698	703	698	788	455	803	523	862	883	862	846
35°	846	830	819	872	439	925	592	946	957	962	925
37.5°	941	978	920	951	402	962	666	1052	1073	1057	1010
40°	1036	1089	1062	1110	439	1126	719	1168	1216	1226	1205
42.5°	1078	1216	1200	1210	481	1210	650	1263	1321	1337	1300
45°	1300	1459	1432	1417	571	1480	661	1549	1612	1607	1570
47.5°	1374	1512	1480	1459	703	1491	756	1602	1697	1718	1739
50°	1628	1728	1691	1697	883	1723	920	1876	1887	1919	2014
52.5°	1924	2051	1998	2009	1152	2040	1184	2209	2194	2273	2453
55°	2305	2516	2357	2416	1512	2431	1538	2653	2558	2696	2971
57.5°	2696	3029	2733	2881	1892	2817	1940	3008	2939	3177	3483
60°	3129	3446	3066	3193	2194	3082	2194	3335	3245	3584	3790
62.5°	3425	3716	3277	3367	2363	3171	2315	3452	3425	3795	3806
65°	3467	3621	3235	3251	2289	2569	2188	3319	3319	3721	3594
67.5°	3108	3082	2786	2696	2024	1950	1861	2749	2722	3113	2939
70°	2199	2209	2014	1845	1554	1464	1358	1892	1871	2199	1993
72.5°	1406	1506	1385	1263	983	914	840	1290	1290	1485	1274
75°	920	893	830	777	555	507	481	803	840	920	814
77.5°	465	428	412	370	296	280	275	354	391	433	402
80°	264	254	254	243	196	169	180	233	254	259	259
82.5°	169	164	174	180	132	122	122	169	180	180	169
85°	137	143	164	164	111	100	95	153	159	159	159
87.5°	95	95	95	100	79	74	74	100	100	95	111
90°	63	63	69	74	58	58	58	69	69	63	69
95°	53	53	53	53	48	42	42	53	53	48	48
105°	21	37	37	37	26	26	32	32	37	32	21
115°	0	5	0	0	0	0	0	0	0	0	0
125°	0	5	11	5	0	5	11	5	5	11	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°	0	0	0	0	0	0	0	0	0	0
2.5°	0	0	0	0	0	0	0	5	0	0
5°	21	21	16	21	21	16	26	16	16	11
7.5°	74	90	95	85	95	90	95	79	79	85
10°	143	143	148	148	153	164	148	137	127	116
12.5°	174	180	180	169	174	174	174	153	148	148
15°	174	164	174	159	159	159	148	143	143	148
17.5°	137	132	137	127	127	122	116	106	116	106
20°	127	116	116	111	106	111	111	106	95	106
22.5°	270	359	333	238	148	243	338	322	233	317
25°	497	518	476	301	143	291	423	396	365	391
27.5°	624	624	550	359	211	344	513	481	449	476
30°	708	708	655	523	613	444	592	534	492	529
32.5°	846	825	782	677	798	550	724	671	603	624
35°	973	930	920	766	893	629	819	735	687	708
37.5°	1052	988	999	835	1031	714	909	809	766	793
40°	1242	1173	1184	957	1142	856	1094	1004	978	983
42.5°	1337	1279	1290	962	1258	941	1195	1094	1084	1110
45°	1612	1538	1549	1105	1491	1121	1395	1306	1274	1343
47.5°	1718	1633	1612	1179	1565	1200	1528	1401	1401	1459
50°	1919	1861	1845	1337	1834	1411	1797	1665	1676	1670
52.5°	2268	2199	2194	1596	2141	1639	2146	2014	2067	1977
55°	2690	2590	2574	1977	2484	1998	2553	2437	2511	2336
57.5°	3145	3002	2986	2384	2838	2373	3008	2902	3018	2749
60°	3520	3330	3230	2590	3039	2595	3293	3198	3346	3150
62.5°	3737	3473	3272	2585	3034	2643	3383	3325	3526	3372
65°	3610	3356	3108	2283	2384	2357	3235	3219	3383	3351
67.5°	2965	2738	2516	1829	1829	1924	2616	2659	2759	2844
70°	2077	1871	1607	1295	1332	1406	1612	1771	1871	1987
72.5°	1422	1290	983	777	803	830	1052	1136	1158	1142
75°	872	814	618	444	455	460	603	661	655	677
77.5°	418	396	349	254	248	248	328	354	344	359
80°	248	254	222	169	164	169	217	233	222	233
82.5°	174	185	153	116	116	116	169	164	148	169
85°	143	153	132	95	95	95	143	143	122	127
87.5°	90	95	90	74	74	74	95	85	85	85
90°	63	63	63	53	48	53	63	63	58	53
95°	48	53	53	42	42	32	42	42	42	42
105°	32	26	32	21	21	26	26	32	26	21
115°	0	0	0	0	0	0	0	0	0	0
125°	11	5	5	5	5	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)