

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: 768947

Luminaire Tested: **ARC17MXX3C16X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768947
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC17MXX3C16X
Description: CUTOFF GENERATIONS POST TOP TYPE III W/CAGE
Light Source: 175 WATT MH CLEAR ED-28
Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 7791.7 lumens
Efficiency: 55.7%
Efficacy: 44.5 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B3 - U3 - 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

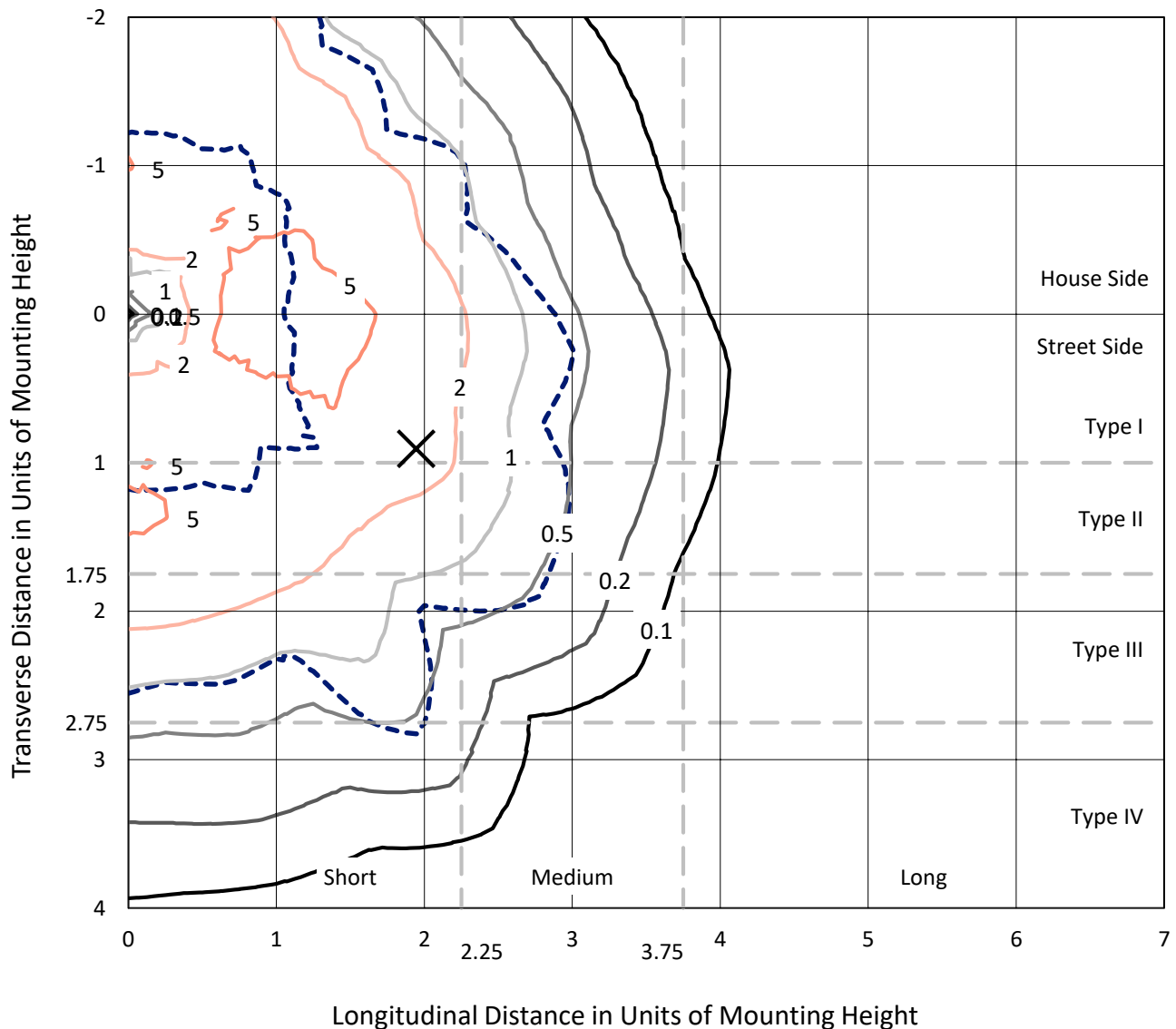


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

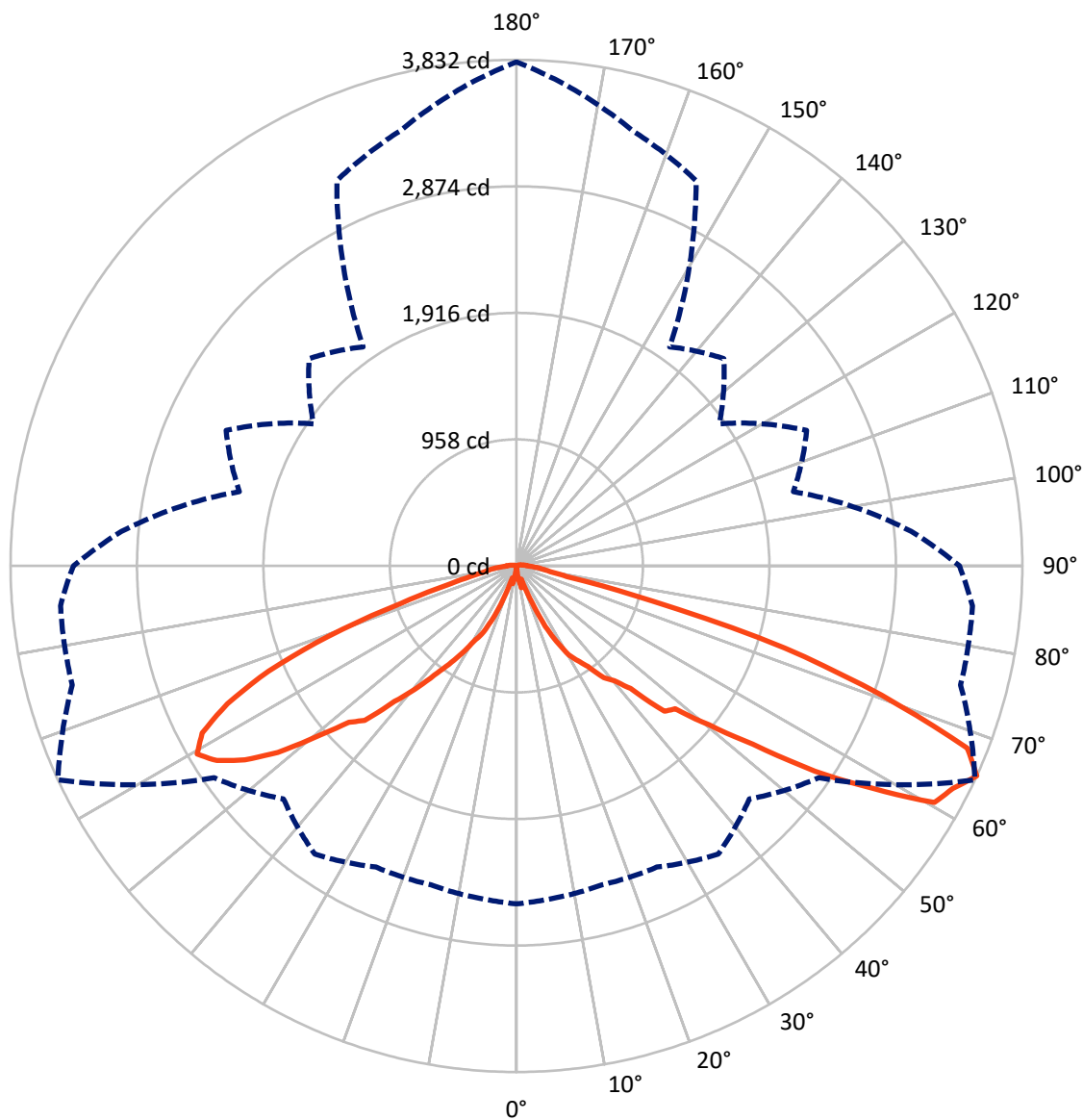


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
Type III - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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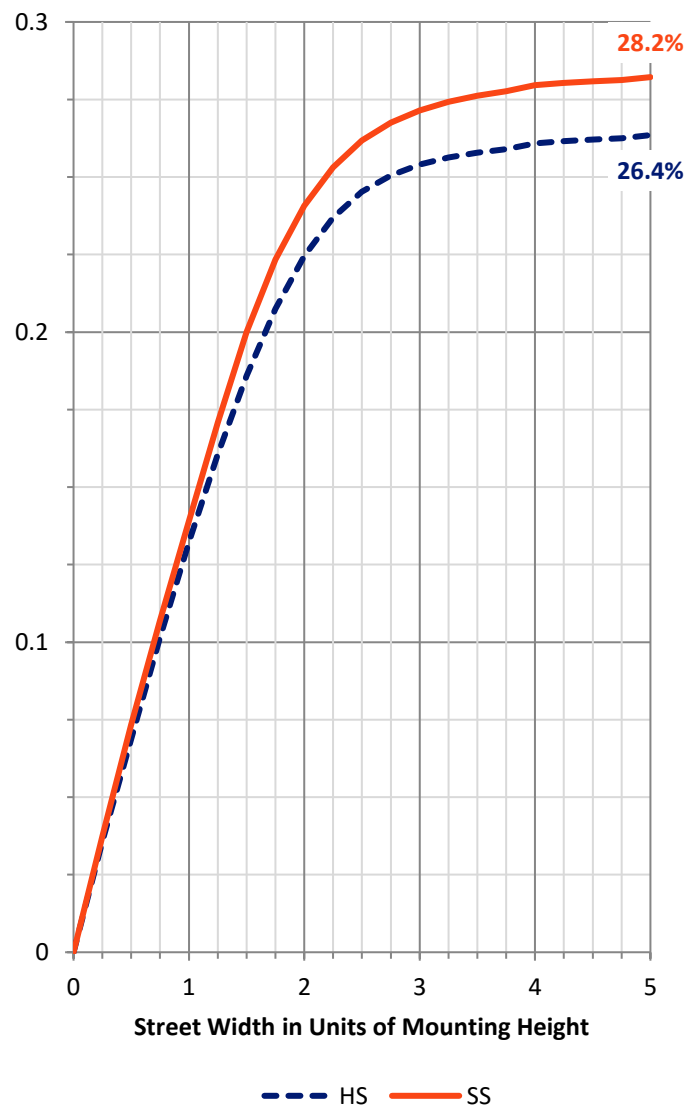
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3717.0	37.8	3754.7
	% Lamp	26.5	0.3	26.8
Street Side	Lumens	3984.3	52.6	4036.9
	% Lamp	28.5	0.4	28.8
Total	Lumens	7701.3	90.4	7791.7
	% Lamp	55.0	0.6	55.7

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	4.5	0.1	0.0
10°-20°	35.7	0.5	0.3
20°-30°	175.7	2.3	1.3
30°-40°	516.7	6.6	3.7
40°-50°	1047.0	13.4	7.5
50°-60°	2173.0	27.9	15.5
60°-70°	2650.0	34.0	18.9
70°-80°	943.1	12.1	6.7
80°-90°	155.6	2.0	1.1
90°-100°	57.3	0.7	0.4
100°-110°	25.4	0.3	0.2
110°-120°	8.8	0.1	0.1
120°-130°	2.5	0.0	0.0
130°-140°	0.4	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°	7701.3	98.8	55.0
0°-180°	7791.7	100.0	55.7

Coefficient of Utilization



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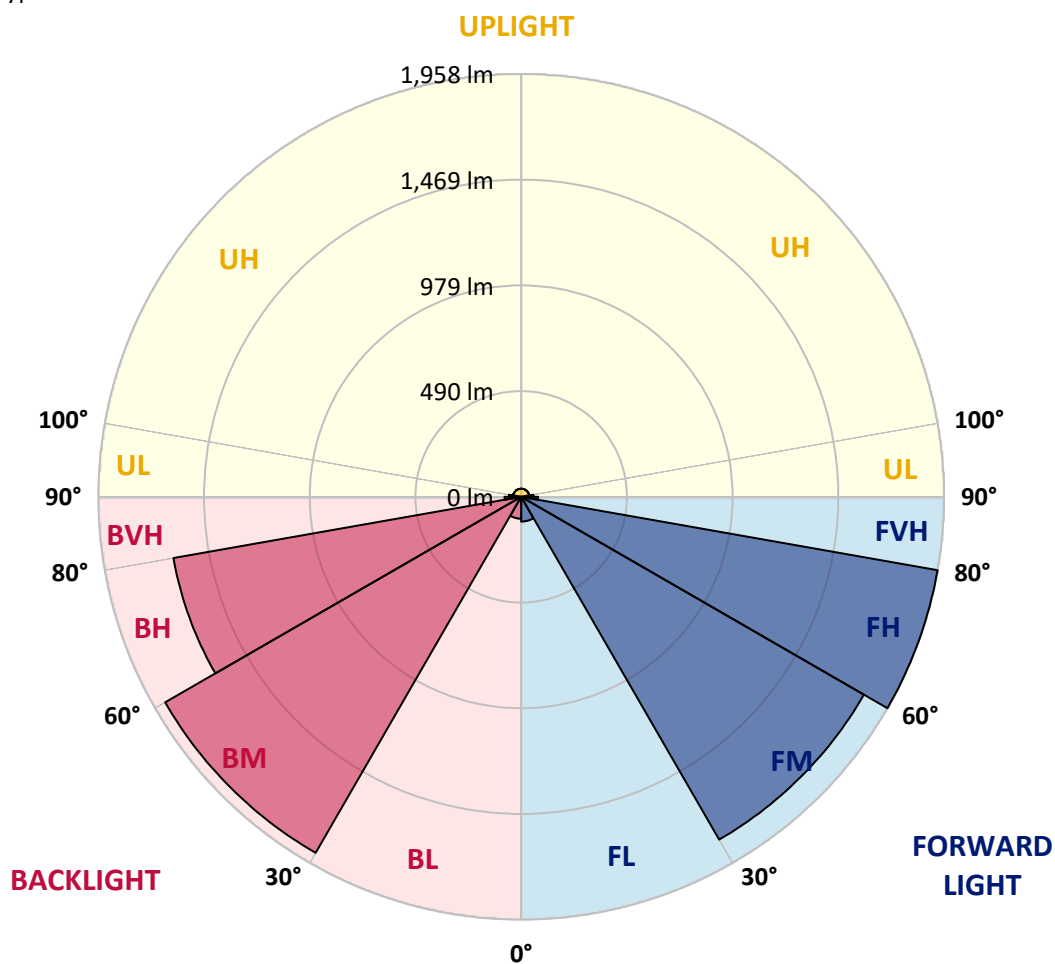
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	114.6	0.8			
FM	(30°-60°)	1832.9	13.1			
FH	(60°-80°)	1958.1	14.0			G2/5000
FVH	(80°-90°)	78.7	0.6			G1/100
BL	(0°-30°)	101.3	0.7	B0/110		
BM	(30°-60°)	1903.8	13.6	B2/2500		
BH	(60°-80°)	1635.0	11.7	B3/2500		G3/2500
BVH	(80°-90°)	76.9	0.5			G1/100
UL	(90°-100°)	57.3	0.4		U3/500	
UH	(100°-180°)	37.8	0.3		U2/50	
Trapped Light		6208.3	44.3			

BUG Rating: B3-U3-G3

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°	0	0	0	0	0	0	0	0	0	0	0
5°	21	26	26	26	21	21	21	21	16	11	11
7.5°	63	58	63	69	63	63	58	69	58	53	48
10°	106	100	111	127	127	132	132	122	111	111	106
12.5°	159	169	180	190	185	185	174	169	153	137	137
15°	190	185	196	190	185	185	159	164	143	137	127
17.5°	180	180	180	164	169	148	132	132	122	106	106
20°	169	159	148	137	127	116	111	106	106	106	100
22.5°	243	233	243	254	254	143	169	301	285	259	280
25°	391	402	439	481	296	143	317	507	518	428	486
27.5°	507	492	529	560	354	190	412	645	640	629	640
30°	592	603	603	629	381	666	476	782	777	719	735
32.5°	677	703	677	761	386	798	513	856	883	867	840
35°	793	809	803	856	328	899	571	936	957	962	930
37.5°	877	957	930	941	344	946	645	1073	1078	1073	1031
40°	930	1062	999	1073	381	1062	629	1142	1184	1195	1210
42.5°	1004	1179	1168	1179	444	1136	544	1269	1300	1348	1380
45°	1290	1438	1417	1369	560	1364	566	1570	1591	1623	1728
47.5°	1491	1559	1512	1443	740	1390	661	1617	1718	1797	2009
50°	1956	1887	1787	1697	1010	1649	835	1892	1998	2077	2373
52.5°	2463	2289	2183	2088	1380	2014	1099	2241	2389	2527	2838
55°	2833	2738	2548	2495	1834	2453	1469	2743	2764	3002	3251
57.5°	2949	3018	2796	2791	2268	2770	1929	3177	3129	3430	3600
60°	2897	3045	2833	2838	2468	3013	2347	3637	3584	3668	3753
62.5°	2706	2886	2717	2770	2659	3013	2643	3711	3732	3663	3684
65°	2558	2537	2500	2516	2664	2495	2796	3832	3483	3467	3356
67.5°	2199	2051	2157	2088	2786	2146	2981	3684	2823	2997	2828
70°	1512	1417	1660	1506	2918	1919	2844	2934	2046	2310	2130
72.5°	1015	1057	1258	1210	2463	1406	2246	2125	1612	1713	1464
75°	782	777	840	814	1417	661	1337	1062	1099	1031	777
77.5°	391	333	375	396	597	338	523	391	449	428	375
80°	211	217	254	307	259	196	296	259	322	270	243
82.5°	159	148	169	217	148	137	148	201	201	206	201
85°	127	127	143	153	106	100	111	153	164	164	164
87.5°	106	100	106	100	85	74	85	106	106	95	116
90°	85	85	85	85	74	69	74	85	79	74	79
95°	53	58	63	63	53	53	48	58	58	53	53
105°	21	26	32	26	21	21	21	26	21	21	16
115°	11	11	11	11	11	5	11	11	11	11	11
125°	11	0	5	11	0	0	0	0	5	5	5
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	0	0	0
5°	11	11	5	11	0	11	0	0	0	0
7.5°	42	58	53	42	48	48	48	42	42	53
10°	95	90	90	90	90	106	95	95	85	85
12.5°	132	137	137	127	116	116	106	106	106	106
15°	122	127	132	127	111	106	79	90	85	95
17.5°	100	106	106	95	85	79	74	69	74	63
20°	85	100	95	90	79	85	69	69	58	63
22.5°	222	333	317	227	111	201	317	285	201	285
25°	470	492	460	301	116	270	407	391	359	381
27.5°	618	613	581	370	222	317	513	476	449	476
30°	729	729	655	555	608	449	603	550	502	539
32.5°	840	830	782	714	793	544	714	666	603	645
35°	983	951	904	814	877	645	825	745	703	751
37.5°	1068	1015	1036	893	1052	782	936	846	782	825
40°	1237	1195	1210	1020	1136	925	1110	1036	1004	1036
42.5°	1401	1321	1380	1052	1274	1047	1247	1152	1136	1184
45°	1723	1596	1639	1205	1496	1247	1427	1369	1343	1438
47.5°	1913	1718	1734	1327	1549	1343	1549	1469	1459	1586
50°	2188	1935	1987	1591	1813	1543	1818	1739	1760	1829
52.5°	2606	2220	2294	1829	2077	1723	2146	2040	2141	2083
55°	2965	2447	2527	2072	2278	1966	2495	2373	2569	2400
57.5°	3208	2585	2706	2231	2521	2209	2897	2854	3066	2897
60°	3341	2664	2807	2294	2738	2405	3219	3251	3499	3393
62.5°	3346	2516	2696	2188	2791	2421	3404	3467	3758	3763
65°	3002	2172	2426	1876	2220	2024	3219	3409	3684	3816
67.5°	2490	1829	2040	1580	1755	1612	2669	2971	3150	3383
70°	1813	1369	1522	1263	1364	1195	1713	2030	2199	2474
72.5°	1094	851	920	856	877	772	957	1184	1321	1480
75°	618	555	550	518	492	444	571	708	798	856
77.5°	381	370	354	296	254	254	370	444	476	507
80°	254	259	243	190	159	180	264	307	317	317
82.5°	190	196	201	148	116	143	211	222	227	243
85°	153	159	159	106	90	106	164	164	159	159
87.5°	90	95	95	74	63	74	90	90	85	95
90°	74	74	79	63	58	58	69	74	63	74
95°	48	53	53	42	42	42	42	42	42	42
105°	16	21	21	11	11	11	11	16	11	11
115°	11	5	5	11	0	0	5	0	0	11
125°	5	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)