

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: 768706_150MP

Luminaire Tested: **ARC15PXX33X4XR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768706_150MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC15PXX33X4XR
Description: 175 WATT MH TYPE III REFRACTIVE GLOBE
WITH SPUN TOP
Light Source: 150 WATT PULSE-START CLEAR ED-28 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 9558.9 lumens
Efficiency: 68.3%
Efficacy: 51.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U3 - G4

Input Watts (W): 185
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



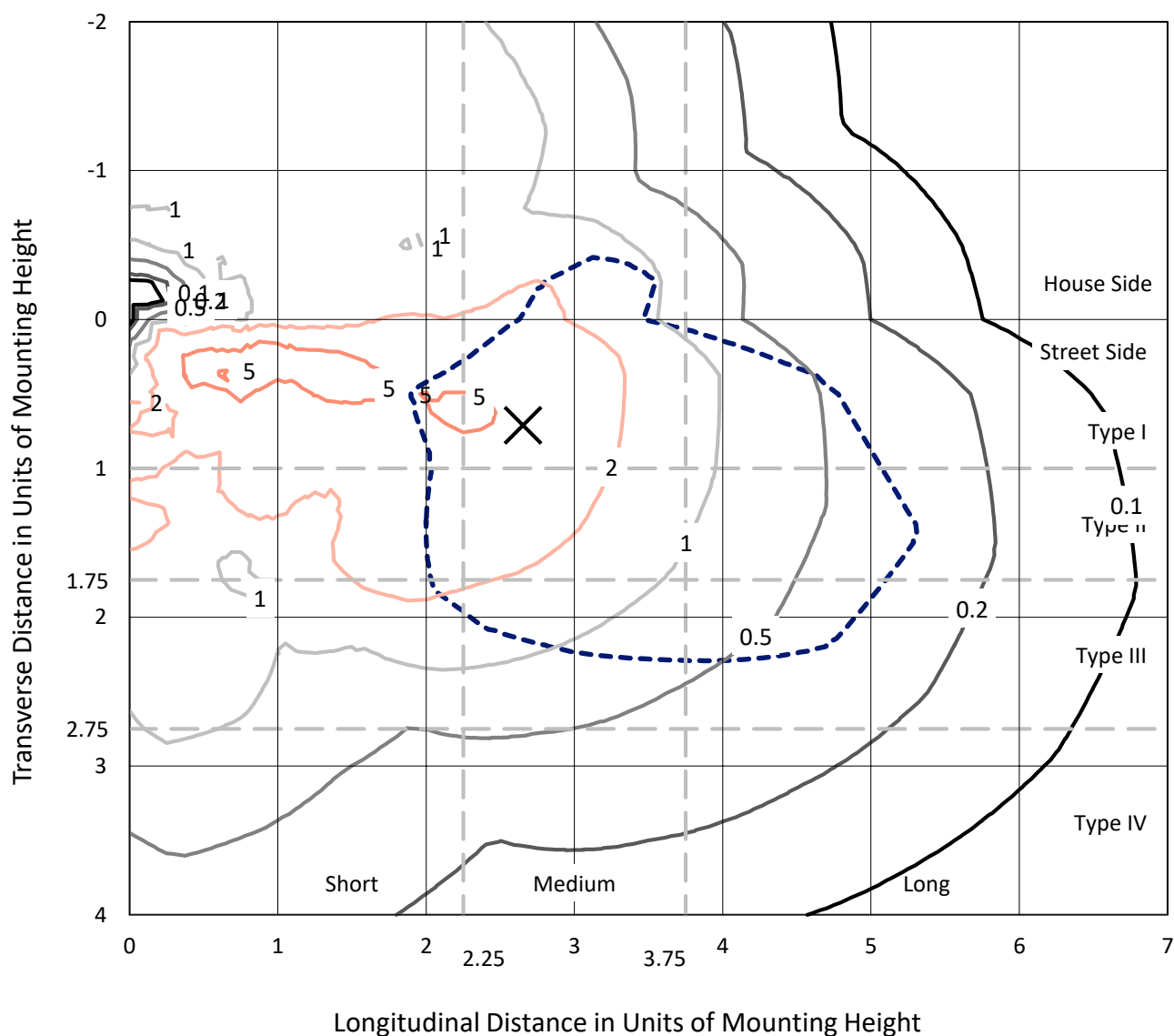
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

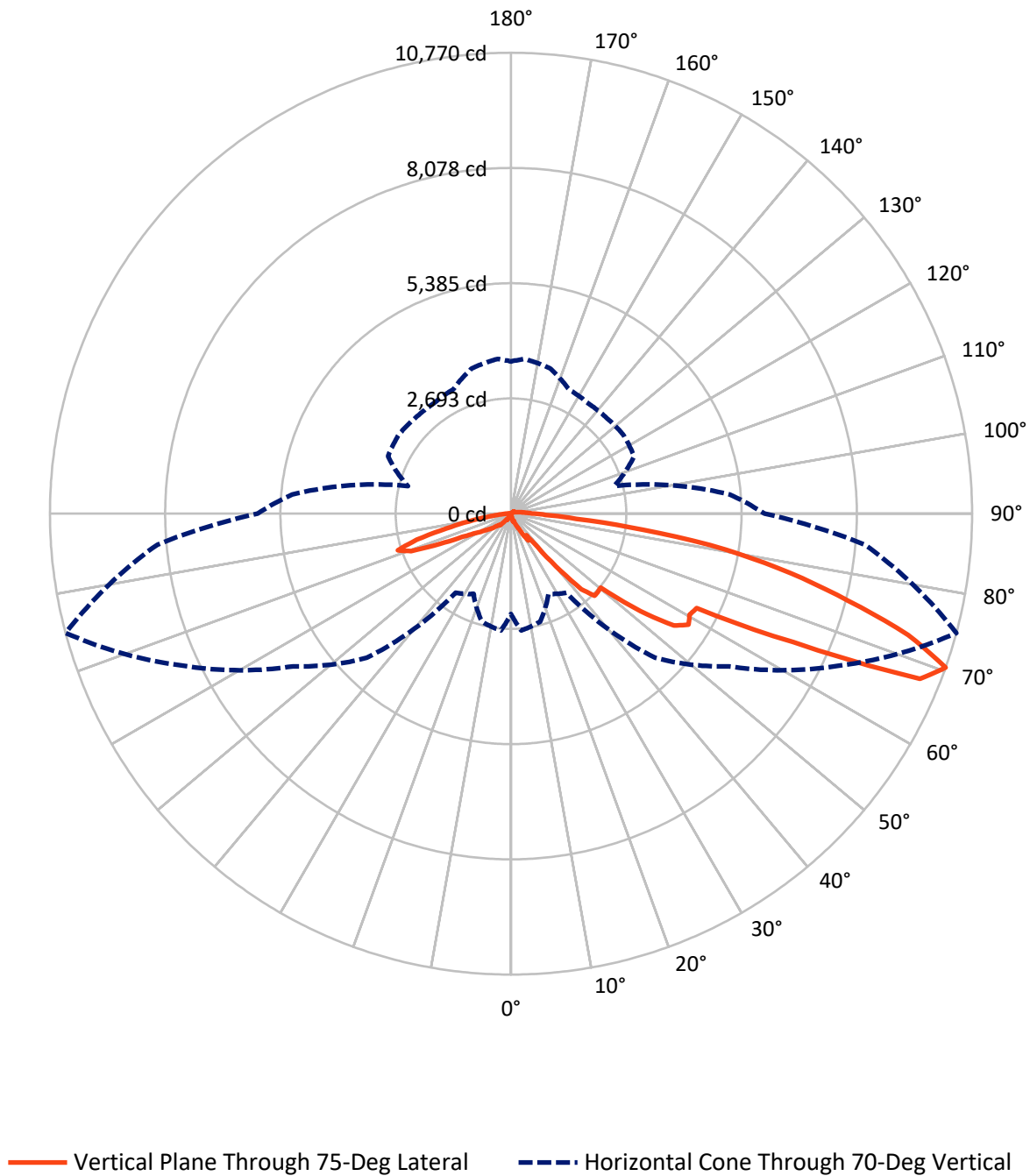
--- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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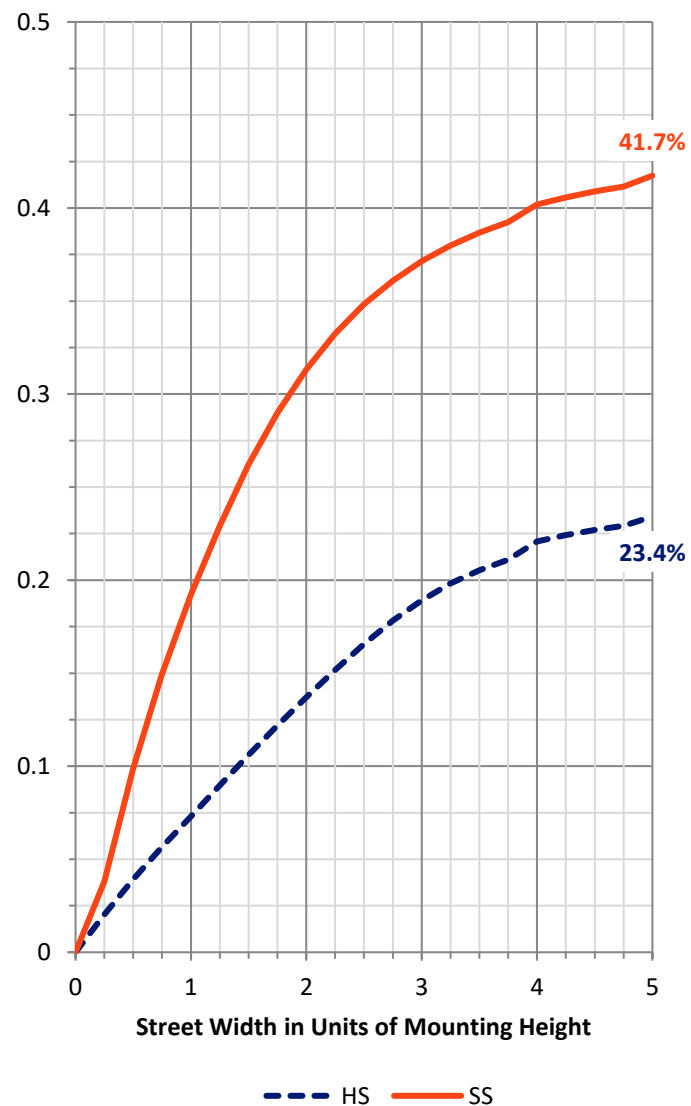
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3323.3	88.0	3411.3
	% Lamp	23.7	0.6	24.4
Street Side	Lumens	5990.4	157.1	6147.6
	% Lamp	42.8	1.1	43.9
Total	Lumens	9313.7	245.2	9558.9
	% Lamp	66.5	1.8	68.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	2.7	0.0	0.0
10°-20°	33.2	0.3	0.2
20°-30°	120.1	1.3	0.9
30°-40°	262.8	2.7	1.9
40°-50°	536.9	5.6	3.8
50°-60°	1047.3	11.0	7.5
60°-70°	2596.4	27.2	18.5
70°-80°	3835.5	40.1	27.4
80°-90°	879.0	9.2	6.3
90°-100°	155.1	1.6	1.1
100°-110°	66.7	0.7	0.5
110°-120°	21.5	0.2	0.2
120°-130°	6.6	0.1	0.0
130°-140°	2.9	0.0	0.0
140°-150°	0.7	0.0	0.0
150°-160°	0.1	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	9313.7	97.4	66.5
0°-180°	9558.9	100.0	68.3

Coefficient of Utilization



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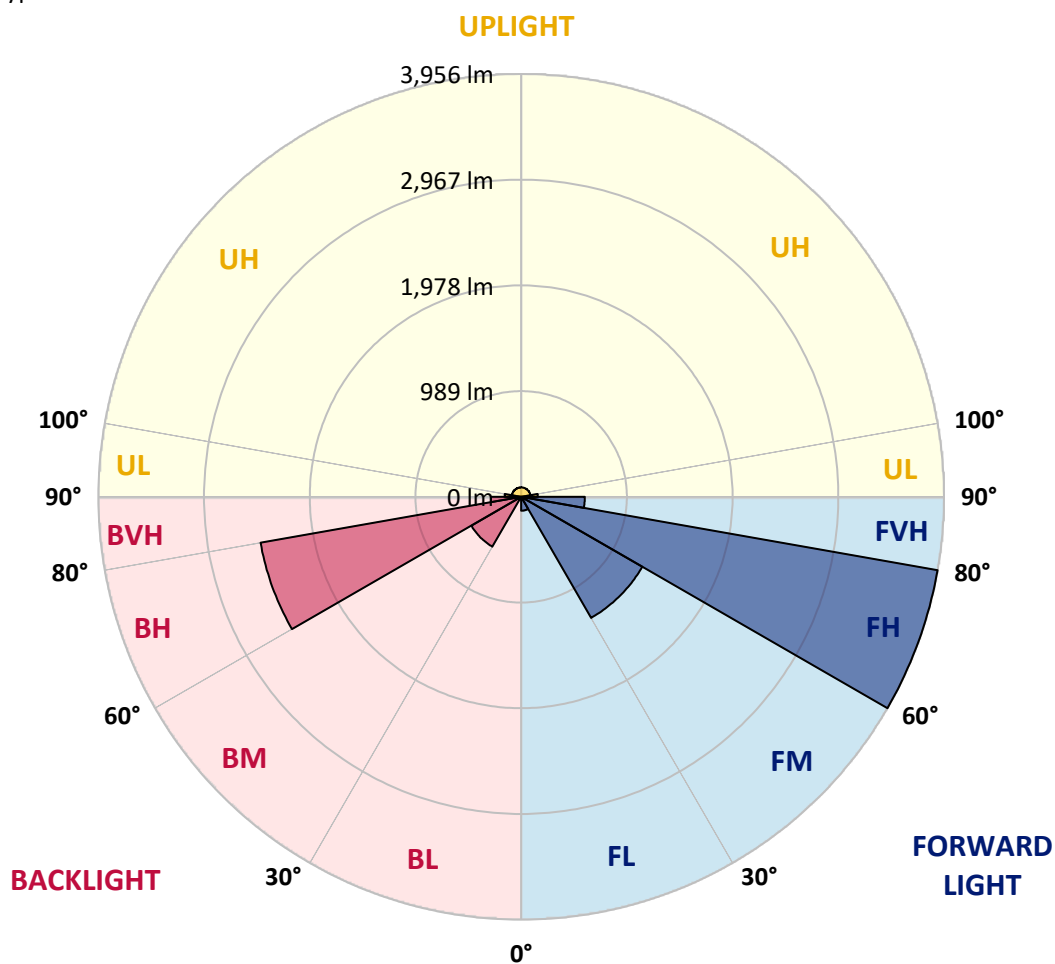
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	130.4	0.9			
FM	(30°-60°)	1308.5	9.3			
FH	(60°-80°)	3956.1	28.3			G2/5000
FVH	(80°-90°)	595.4	4.3			G4/750
BL	(0°-30°)	25.5	0.2	B0/110		
BM	(30°-60°)	538.5	3.8	B1/1000		
BH	(60°-80°)	2475.7	17.7	B3/2500		G3/2500
BVH	(80°-90°)	283.6	2.0			G3/500
UL	(90°-100°)	155.1	1.1		U3/500	
UH	(100°-180°)	88.0	0.6		U3/500	
Trapped Light		4441.1	31.7			

BUG Rating: B3-U3-G4

Type III Medium





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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	5	10	5	10	5	5	5	5	5
5°	20	20	30	41	36	25	30	25	25	20	15
7.5°	41	46	66	81	76	76	76	81	86	66	56
10°	30	30	41	51	81	86	97	86	66	71	61
12.5°	30	46	71	112	183	218	218	198	157	91	66
15°	102	102	142	218	335	422	457	315	198	117	91
17.5°	132	132	157	244	361	442	452	330	188	91	66
20°	112	107	127	213	345	422	412	310	168	91	56
22.5°	163	157	173	264	442	564	574	462	274	137	91
25°	193	188	188	279	493	691	757	650	345	168	117
27.5°	295	290	264	320	539	742	874	747	417	188	137
30°	386	366	285	356	579	747	986	1026	605	259	178
32.5°	356	340	295	335	671	838	1168	1331	747	290	203
35°	345	330	254	269	503	549	660	1143	620	259	188
37.5°	396	371	335	300	589	625	691	1280	854	264	178
40°	752	696	610	503	1082	1072	1219	1834	1616	391	239
42.5°	833	787	711	549	1123	1128	1356	1946	2413	488	310
45°	742	716	625	488	991	925	1087	1494	2738	523	340
47.5°	508	478	406	330	610	584	620	869	2733	640	381
50°	721	676	605	467	965	894	1077	1199	2718	925	483
52.5°	1047	970	864	681	1356	1250	1433	1565	3785	1133	625
55°	1311	1158	965	762	1489	1433	1677	1814	4618	1392	818
57.5°	1250	1184	874	757	1529	1514	1875	2129	4892	1722	1138
60°	996	1052	889	706	1351	1438	1732	2113	4791	2144	1671
62.5°	1016	1077	1108	879	1539	1854	2235	2688	4867	2616	2220
65°	1524	1692	1697	1346	2220	3053	3678	4354	7240	3378	2652
67.5°	1981	2301	2266	1768	2408	4268	5152	6493	10303	5553	3968
70°	2347	2738	2616	2068	2256	4760	6218	8418	10770	8291	5919
72.5°	2428	2860	2667	2200	2159	4303	6635	8886	9704	9002	5990
75°	2205	2632	2388	2073	1900	3490	5639	7707	8149	7707	4689
77.5°	1839	2240	1986	1758	1580	2886	4420	6310	6671	5695	3191
80°	1392	1702	1504	1362	1224	2164	3328	4689	5096	3881	2042
82.5°	803	991	884	798	732	1235	2063	2825	3114	2169	1168
85°	396	472	442	396	361	625	1102	1382	1529	1174	655
87.5°	213	264	234	213	198	340	620	752	808	696	401
90°	142	168	163	152	147	224	386	467	488	467	274
95°	71	91	86	86	71	117	224	264	279	269	127
105°	41	41	41	30	25	36	61	107	122	91	46
115°	0	0	0	0	0	0	15	91	71	15	0
125°	0	0	0	0	0	0	0	61	81	0	0
135°	0	0	0	0	0	0	0	41	20	0	0
145°	0	0	0	0	0	0	0	10	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°	5	0	0	0	0	0	0	0	0	0
5°	10	0	0	0	0	0	0	0	0	0
7.5°	46	30	10	0	0	0	0	0	0	0
10°	51	30	15	0	0	0	0	0	0	0
12.5°	46	25	10	5	5	0	0	0	0	0
15°	66	30	15	5	5	5	5	5	0	10
17.5°	56	30	15	15	20	10	20	20	20	20
20°	51	36	20	30	25	36	30	36	36	41
22.5°	71	46	41	51	56	61	61	66	66	61
25°	86	71	71	81	86	86	86	81	81	91
27.5°	107	97	107	127	137	137	147	147	142	142
30°	147	142	147	168	188	198	198	188	178	173
32.5°	168	168	188	208	213	213	213	213	218	224
35°	157	147	173	193	208	203	208	198	198	193
37.5°	157	147	173	183	188	178	183	188	198	193
40°	224	239	264	269	264	244	244	249	244	244
42.5°	295	335	361	366	356	345	345	351	330	335
45°	325	381	401	391	406	422	422	422	417	427
47.5°	330	391	417	401	396	432	432	422	457	447
50°	381	452	483	457	442	452	478	437	442	447
52.5°	503	549	635	640	620	615	671	599	549	559
55°	615	625	726	747	762	752	854	767	726	742
57.5°	742	711	818	854	874	818	914	909	889	894
60°	1031	848	981	1031	1052	986	1097	1108	1047	1026
62.5°	1336	986	1194	1224	1245	1168	1306	1331	1265	1229
65°	1804	1265	1580	1621	1610	1555	1682	1763	1702	1656
67.5°	2997	1804	2271	2332	2307	2286	2393	2571	2571	2540
70°	5131	2494	3170	3206	3160	3145	3201	3516	3627	3556
72.5°	6173	2779	3516	3566	3607	3602	3683	4059	4323	4156
75°	4964	2286	2845	2881	2931	2967	3074	3414	3749	3607
77.5°	3165	1550	1900	1910	1915	1920	2017	2240	2489	2459
80°	1849	996	1199	1209	1209	1189	1224	1341	1499	1504
82.5°	1016	584	691	691	691	676	676	716	798	793
85°	584	315	351	356	366	361	356	386	432	437
87.5°	371	178	213	198	208	208	203	218	264	254
90°	249	122	137	132	142	142	147	163	188	193
95°	117	51	76	76	86	91	97	102	122	122
105°	51	15	25	30	56	81	66	81	97	91
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)