

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: 768737_150MP

Luminaire Tested: **ARC15PXX5514X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768737_150MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC15PXX5514X
Description: 175 WATT MH TYPE V REFRACTIVE GLOBE
W/TALL SPUN TOP & CAGE
Light Source: 150 WATT PULSE-START CLEAR ED-28 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 6126.3 lumens
Efficiency: 43.8%
Efficacy: 33.1 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Medium - Cutoff
BUG Rating: B3 - U3 - G2

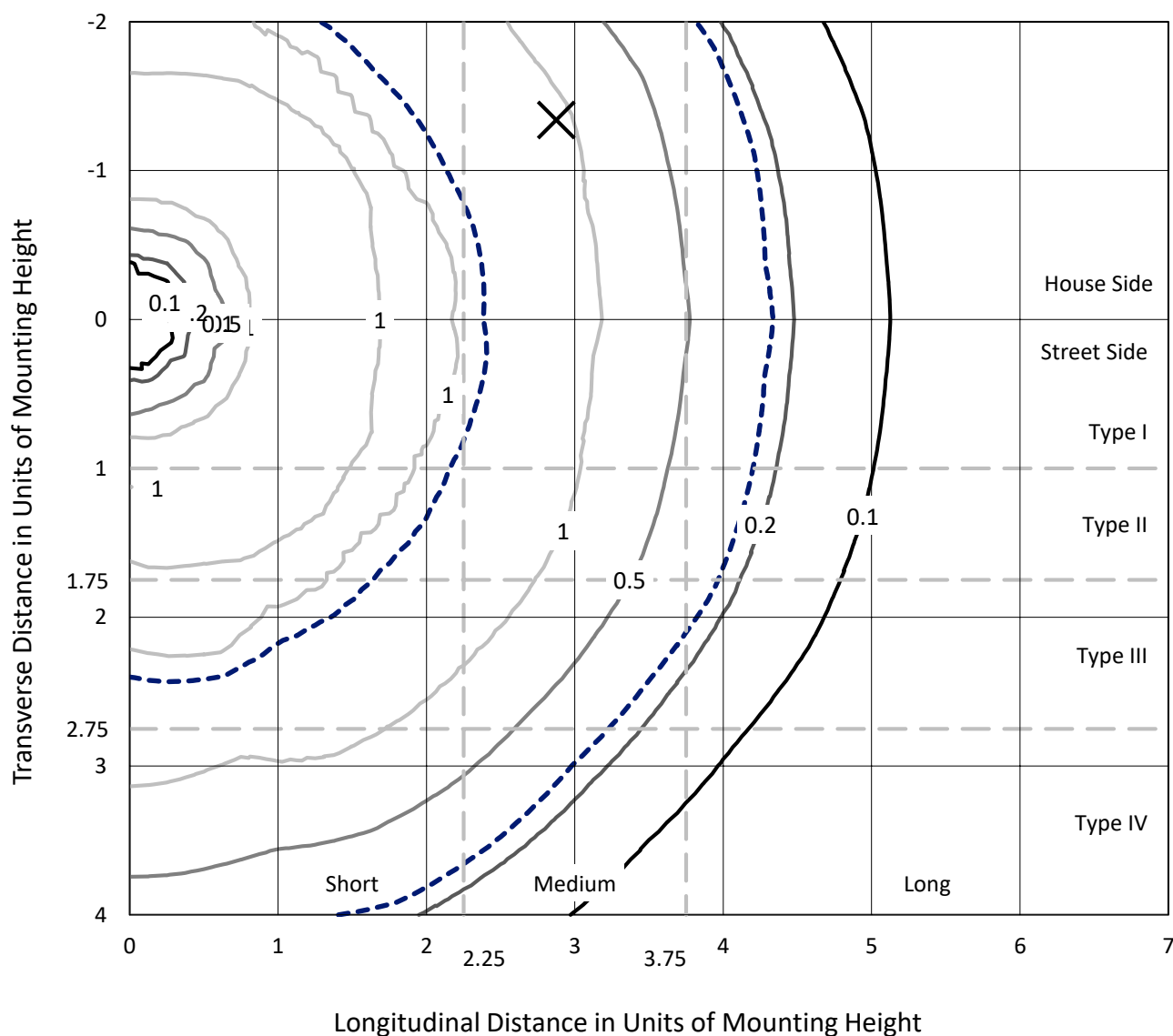
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

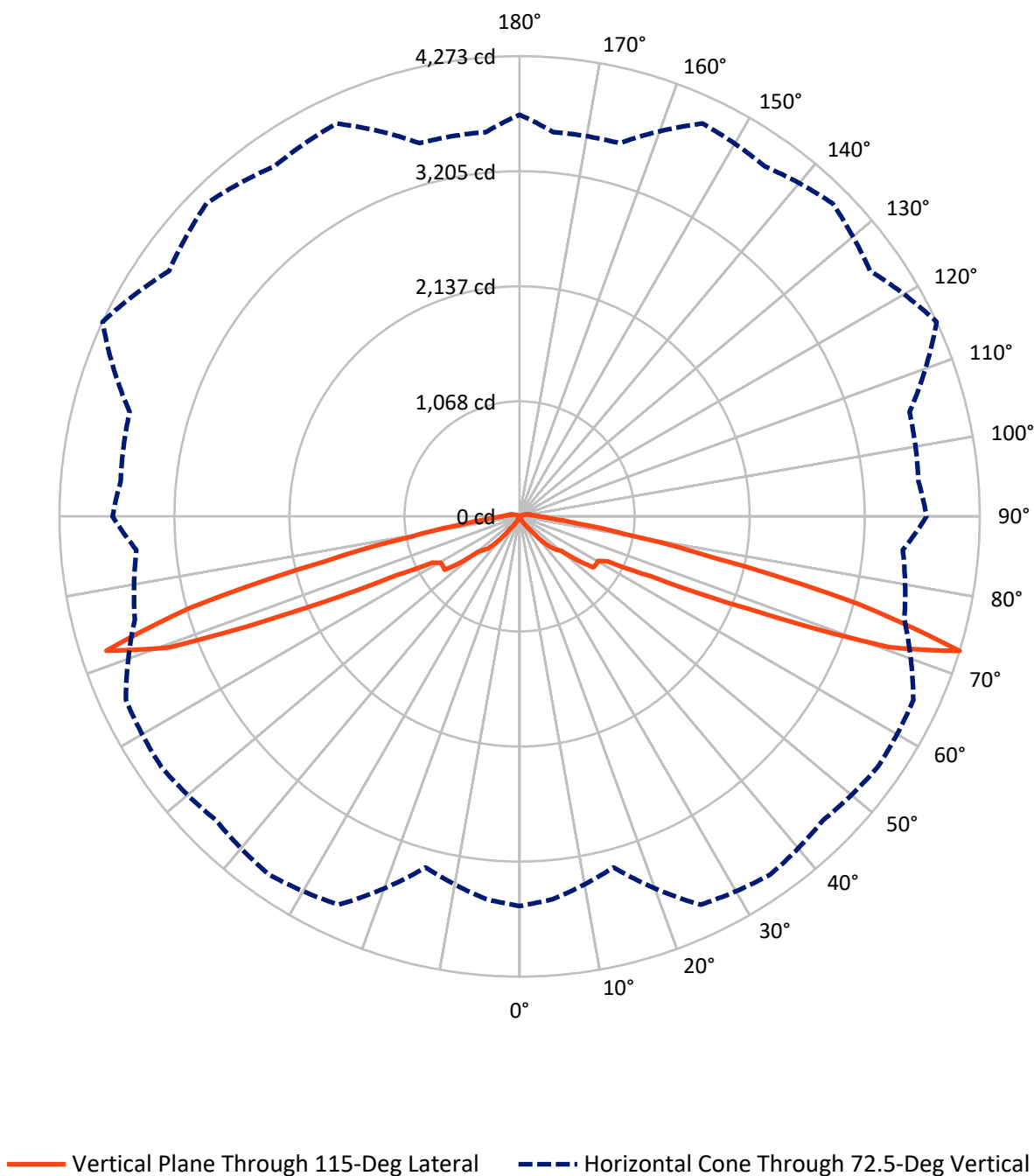
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Medium - Cutoff

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Luminous Intensity Polar Plot



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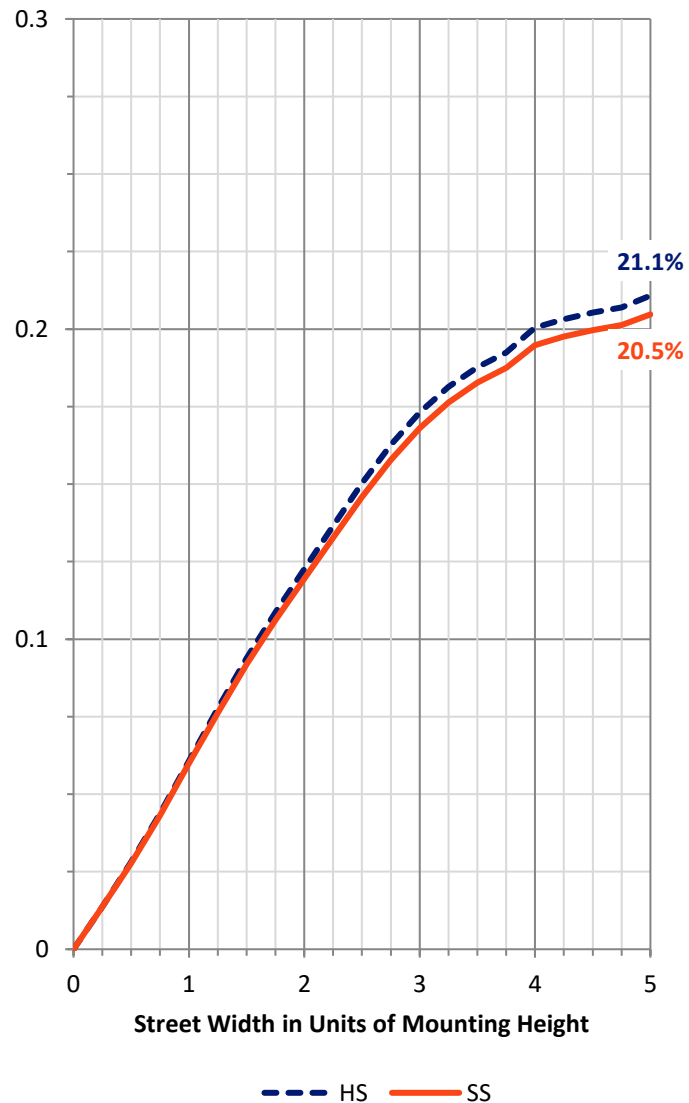
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2984.8	103.9	3088.7
	% Lamp	21.3	0.7	22.1
Street Side	Lumens	2936.7	100.9	3037.6
	% Lamp	21.0	0.7	21.7
Total	Lumens	5921.5	204.8	6126.3
	% Lamp	42.3	1.5	43.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	2.4	0.0	0.0
20°-30°	17.2	0.3	0.1
30°-40°	80.7	1.3	0.6
40°-50°	298.0	4.9	2.1
50°-60°	649.3	10.6	4.6
60°-70°	1585.5	25.9	11.3
70°-80°	2850.7	46.5	20.4
80°-90°	437.6	7.1	3.1
90°-100°	124.6	2.0	0.9
100°-110°	62.2	1.0	0.4
110°-120°	21.0	0.3	0.1
120°-130°	3.2	0.1	0.0
130°-140°	0.1	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°	5921.5	96.7	42.3
0°-180°	6126.3	100.0	43.8



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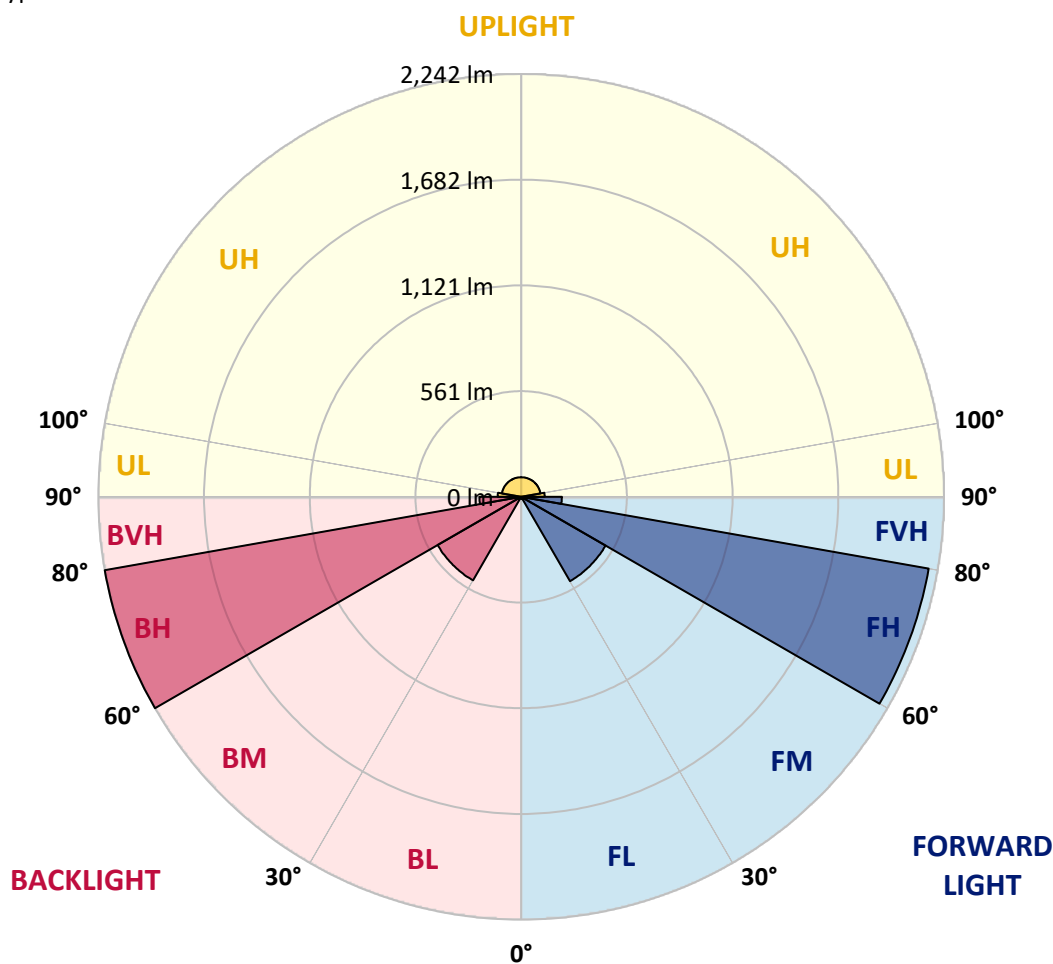
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10.0	0.1			
FM	(30°-60°)	516.6	3.7			
FH	(60°-80°)	2194.1	15.7			G2/5000
FVH	(80°-90°)	216.0	1.5			G2/225
BL	(0°-30°)	9.6	0.1	B0/110		
BM	(30°-60°)	511.4	3.7	B1/1000		
BH	(60°-80°)	2242.1	16.0	B3/2500		G2/5000
BVH	(80°-90°)	221.6	1.6			G2/225
UL	(90°-100°)	124.6	0.9		U3/500	
UH	(100°-180°)	103.9	0.7		U3/500	
Trapped Light		7873.7	56.2			

BUG Rating: B3-U3-G2

Type V 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	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	0	0	0	0	0	0	0	0	0
15°	0	10	10	5	5	10	5	5	5	10	15
17.5°	10	20	10	15	10	10	10	15	10	15	15
20°	20	20	20	10	20	20	20	20	15	20	10
22.5°	20	30	20	20	25	20	20	25	25	20	25
25°	41	41	36	36	36	30	30	30	36	36	36
27.5°	41	46	46	46	51	56	41	46	56	56	56
30°	61	51	61	61	71	61	66	66	66	61	56
32.5°	81	91	86	86	86	76	76	81	81	76	76
35°	122	127	122	127	122	107	112	117	127	127	127
37.5°	173	163	152	152	147	147	147	142	157	152	163
40°	274	269	259	249	229	213	218	234	244	259	249
42.5°	376	371	351	345	340	340	330	335	340	361	361
45°	396	401	391	422	432	442	432	417	396	396	401
47.5°	335	351	401	442	472	488	467	457	417	376	366
50°	345	366	437	483	503	528	528	503	467	396	396
52.5°	559	564	599	640	660	721	696	696	605	589	589
55°	691	721	742	787	823	894	879	854	747	777	737
57.5°	701	742	782	828	828	884	833	848	787	793	762
60°	681	742	767	838	843	879	828	848	747	737	742
62.5°	721	732	742	894	899	925	899	914	803	767	777
65°	1158	1082	1041	1265	1214	1280	1250	1265	1224	1158	1255
67.5°	2154	2002	1885	2164	2083	2164	2119	2225	2134	2078	2205
70°	3180	3079	2936	3404	3384	3445	3409	3470	3282	3175	3338
72.5°	3617	3566	3373	3978	4059	3988	4059	4034	3699	3572	3780
75°	2936	2926	2743	3160	3196	3058	3114	3175	2992	2952	3053
77.5°	1819	1839	1702	1814	1743	1656	1702	1854	1875	1844	1885
80°	1057	1057	950	925	828	793	838	1006	1072	1082	1097
82.5°	559	549	523	508	457	427	452	554	589	574	584
85°	305	295	285	300	300	285	290	325	325	325	325
87.5°	213	198	198	213	224	213	208	229	229	213	213
90°	142	142	142	157	168	157	157	168	168	157	168
95°	91	102	97	107	112	102	107	117	107	102	112
105°	30	41	41	51	46	46	56	71	76	76	81
115°	10	10	10	15	15	15	20	15	15	5	10
125°	0	0	0	5	0	0	0	0	0	0	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	0	0	0
5°	0	0	0	0	0	0	0	0	0	0
7.5°	0	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0	0
12.5°	0	0	5	0	0	0	0	0	0	0
15°	10	15	10	10	0	5	5	10	5	10
17.5°	15	20	20	15	15	10	10	10	10	10
20°	15	15	25	20	10	20	10	20	15	10
22.5°	25	25	25	20	25	15	20	20	15	10
25°	36	36	30	30	30	30	30	30	30	41
27.5°	51	51	46	46	41	46	51	51	51	51
30°	61	61	66	61	66	56	56	61	61	61
32.5°	81	86	86	76	81	76	91	91	91	91
35°	127	122	117	112	112	112	122	117	122	122
37.5°	152	147	147	142	137	147	152	152	152	152
40°	259	244	239	218	198	208	229	249	249	254
42.5°	351	335	330	325	310	325	320	335	361	356
45°	406	391	412	422	422	422	386	376	381	386
47.5°	376	422	462	462	462	452	417	396	356	345
50°	396	457	503	528	528	518	493	457	406	396
52.5°	584	610	686	716	721	681	655	589	559	549
55°	737	737	833	869	879	838	787	726	701	671
57.5°	767	793	838	874	864	838	808	752	716	721
60°	737	752	838	859	854	833	823	772	726	721
62.5°	762	803	920	920	920	884	869	803	767	732
65°	1168	1235	1341	1341	1331	1275	1285	1204	1123	1199
67.5°	2164	2144	2291	2296	2352	2215	2251	2159	2098	2195
70°	3323	3302	3638	3536	3632	3470	3612	3226	3206	3333
72.5°	3719	3749	4273	3973	4110	3968	4024	3587	3582	3729
75°	2952	3038	3257	2936	3109	2977	2997	2870	2835	2896
77.5°	1849	1915	1844	1687	1707	1661	1748	1819	1793	1768
80°	1092	1092	986	864	838	843	940	1057	1047	1036
82.5°	574	589	544	467	447	457	528	574	564	559
85°	315	335	325	300	300	295	325	335	315	315
87.5°	213	234	229	218	218	208	213	218	213	213
90°	157	173	173	157	163	157	163	152	152	152
95°	107	127	112	112	107	102	107	107	97	102
105°	71	86	76	51	46	46	56	51	41	41
115°	15	20	15	20	15	10	10	15	5	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)