

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: 768704_150MP

Luminaire Tested: **ARC15PXX3314X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768704_150MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC15PXX3314X
Description: 175 WATT TYPE III REFRACTIVE GLOBE
W/TALL SPUN TOP W/CAGE
Light Source: 150 WATT PULSE-START CLEAR ED-28 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 6191.1 lumens
Efficiency: 44.2%
Efficacy: 33.5 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B3 - U3 - G3

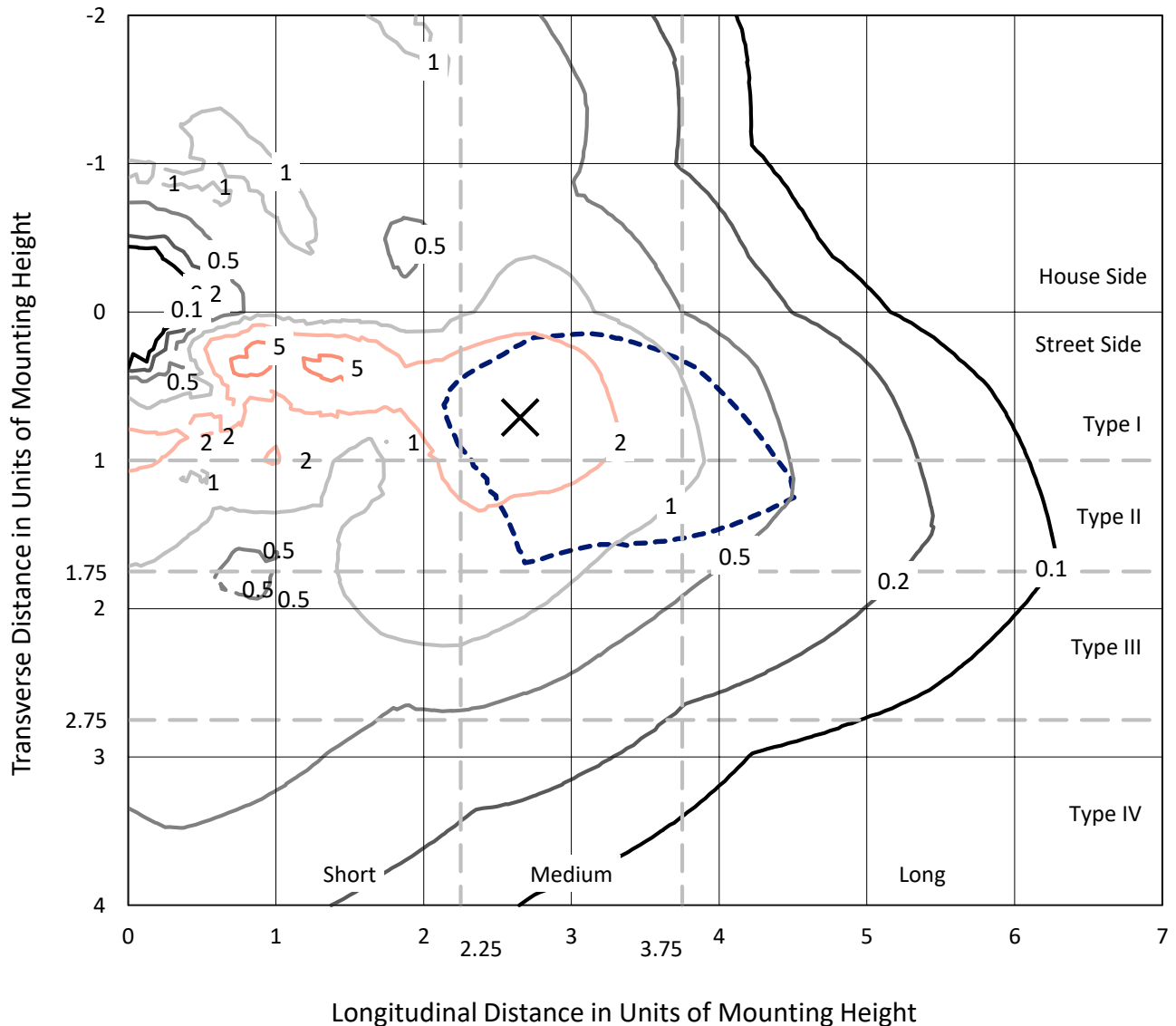
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

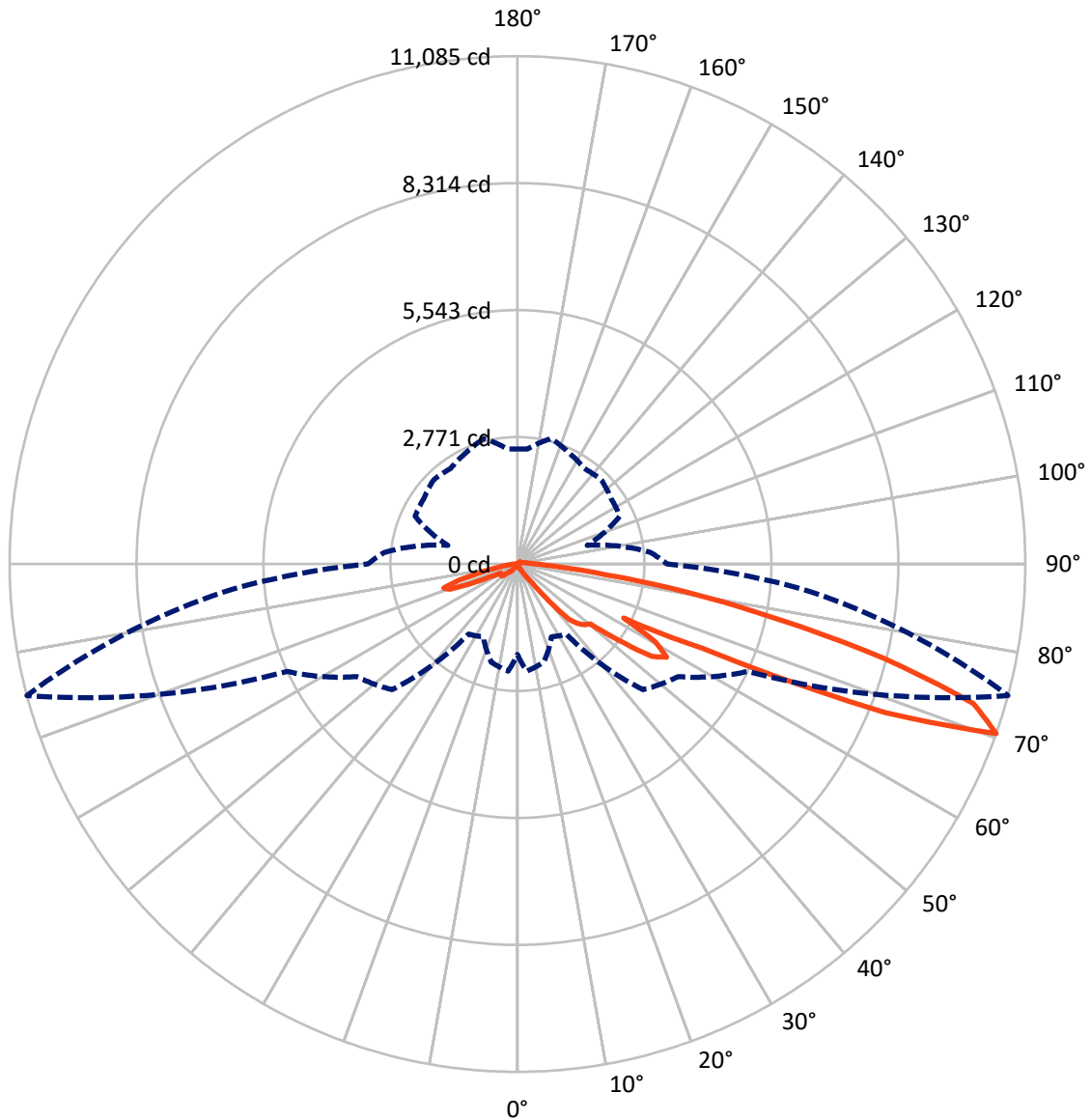
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 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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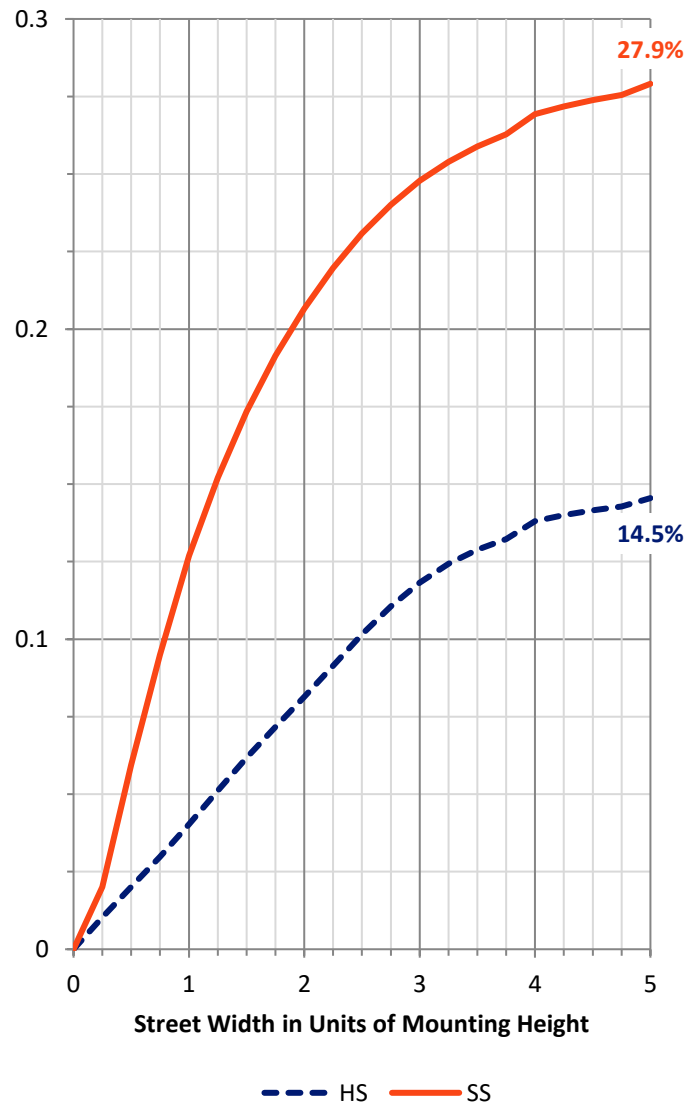
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2055.0	47.1	2102.1
	% Lamp	14.7	0.3	15.0
Street Side	Lumens	3988.3	100.7	4089.0
	% Lamp	28.5	0.7	29.2
Total	Lumens	6043.3	147.8	6191.1
	% Lamp	43.2	1.1	44.2

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	1.3	0.0	0.0
20°-30°	21.7	0.4	0.2
30°-40°	121.0	2.0	0.9
40°-50°	378.4	6.1	2.7
50°-60°	677.9	11.0	4.8
60°-70°	1591.2	25.7	11.4
70°-80°	2777.9	44.9	19.8
80°-90°	473.8	7.7	3.4
90°-100°	95.0	1.5	0.7
100°-110°	39.0	0.6	0.3
110°-120°	12.6	0.2	0.1
120°-130°	4.5	0.1	0.0
130°-140°	2.0	0.0	0.0
140°-150°	0.4	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°	6043.3	97.6	43.2
0°-180°	6191.1	100.0	44.2

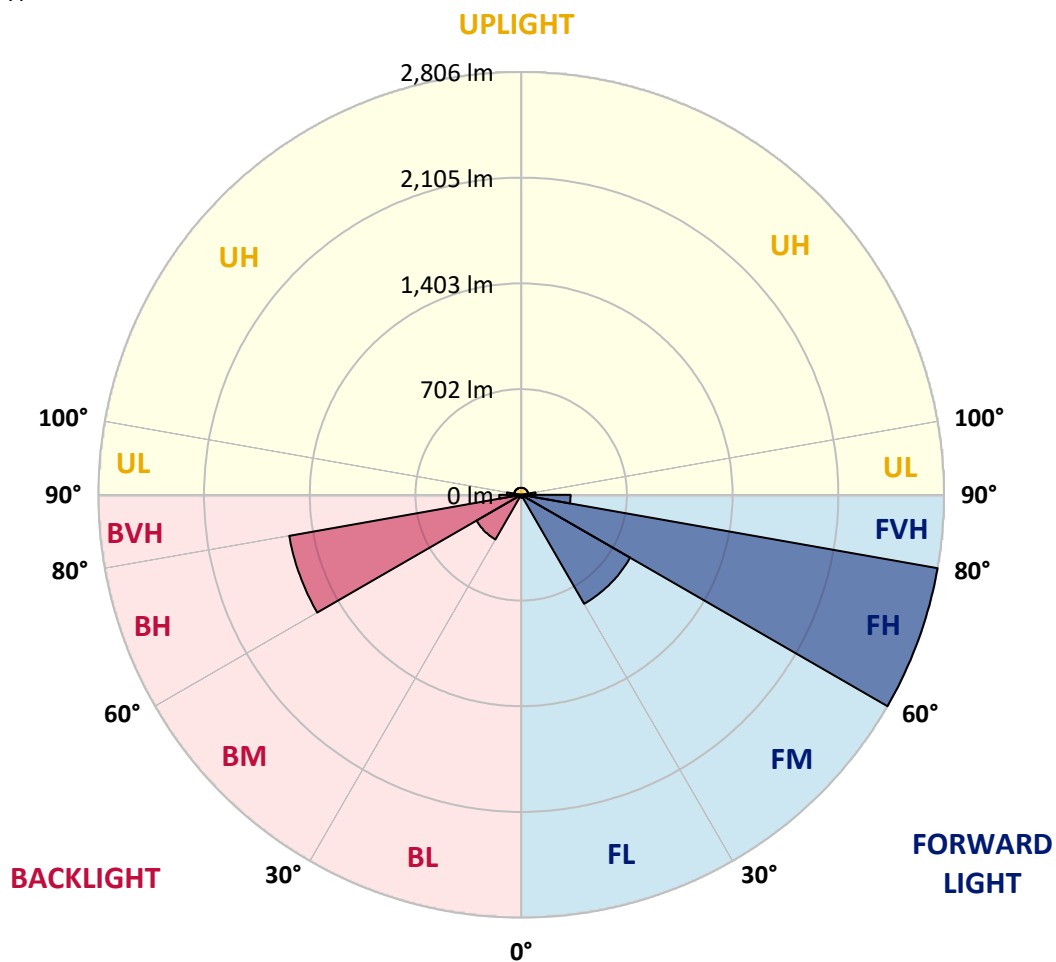


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19.0	0.1			
FM (30°-60°)	835.3	6.0			
FH (60°-80°)	2806.1	20.0			G2/5000
FVH (80°-90°)	327.9	2.3			G3/500
BL (0°-30°)	4.0	0.0	B0/110		
BM (30°-60°)	342.1	2.4	B1/1000		
BH (60°-80°)	1563.0	11.2	B3/2500		G3/2500
BVH (80°-90°)	145.9	1.0			G2/225
UL (90°-100°)	95.0	0.7		U3/500	
UH (100°-180°)	47.1	0.3		U2/50	
Trapped Light	7808.9	55.8			

BUG Rating: B3-U3-G3
 Type II 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°	10	0	0	5	5	0	0	0	0	0	0
10°	10	0	0	5	5	0	0	0	0	0	0
12.5°	10	5	0	5	5	5	10	0	0	0	0
15°	10	10	5	5	5	15	15	10	5	5	0
17.5°	10	10	10	5	10	15	20	15	5	5	5
20°	10	10	15	10	15	25	25	25	10	5	10
22.5°	20	20	15	20	25	25	30	41	25	10	10
25°	91	81	61	61	71	61	112	183	86	36	20
27.5°	132	117	91	102	112	76	147	254	117	46	25
30°	142	127	91	86	97	61	152	295	117	41	30
32.5°	193	178	137	127	157	71	239	533	259	76	51
35°	345	325	239	234	259	107	239	838	361	97	71
37.5°	305	290	239	193	244	112	285	909	503	122	86
40°	579	539	467	361	508	173	488	1595	1062	213	152
42.5°	772	726	640	483	660	488	569	1798	1646	269	188
45°	732	701	599	437	594	716	569	1382	1859	279	193
47.5°	569	533	447	351	467	579	406	813	1981	259	168
50°	478	447	386	300	452	625	528	777	2058	285	178
52.5°	803	742	660	488	742	960	772	1057	2738	437	300
55°	975	874	742	554	848	1087	838	1194	3561	671	406
57.5°	935	813	625	478	742	1062	869	1250	3836	808	503
60°	762	757	559	412	681	975	747	1047	3470	940	630
62.5°	488	544	523	340	559	808	630	940	2601	1026	706
65°	762	899	894	645	935	1489	1362	1986	4440	1509	960
67.5°	1351	1616	1555	1194	1443	2774	2774	3902	8657	3439	1895
70°	1971	2347	2215	1753	1865	3876	4283	5548	11085	6224	3262
72.5°	2195	2591	2367	1997	1920	3714	5172	6071	10410	7016	3678
75°	1971	2337	2088	1844	1702	2657	4003	5309	8301	5594	2947
77.5°	1483	1783	1550	1362	1290	1671	2205	3871	5837	3709	1920
80°	986	1189	1052	894	864	970	991	2505	3765	2215	1148
82.5°	498	594	564	432	457	498	528	1341	1971	1194	671
85°	264	310	295	229	239	285	335	681	1016	696	406
87.5°	173	193	178	147	152	178	213	381	569	437	269
90°	102	127	122	112	117	117	152	239	356	305	193
95°	61	76	71	66	56	61	76	147	224	173	86
105°	20	46	46	30	15	10	10	61	97	61	20
115°	0	0	0	0	0	0	0	36	66	25	0
125°	0	0	0	0	0	0	0	20	76	0	0
135°	0	0	0	0	0	0	0	25	20	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	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0	0
17.5°	0	0	0	0	0	0	0	0	0	0
20°	10	5	0	0	5	5	5	0	10	0
22.5°	10	5	0	10	10	5	10	0	10	0
25°	15	20	15	15	15	20	15	20	10	20
27.5°	20	25	20	25	25	25	25	30	25	30
30°	20	25	20	36	25	30	30	30	30	30
32.5°	41	56	51	56	46	51	51	51	51	51
35°	61	76	76	76	76	66	66	66	71	71
37.5°	81	97	112	107	102	102	107	107	107	112
40°	142	168	178	157	157	157	178	198	193	193
42.5°	178	229	239	229	244	239	249	269	274	274
45°	178	229	274	274	295	305	300	290	295	295
47.5°	157	254	295	295	295	305	310	290	254	244
50°	203	345	376	376	366	376	386	330	279	274
52.5°	315	427	508	518	488	513	533	432	412	417
55°	351	427	518	523	533	544	589	478	488	498
57.5°	366	412	533	523	564	539	605	539	528	549
60°	432	442	549	549	594	544	635	549	483	498
62.5°	518	412	589	584	620	564	650	589	503	508
65°	808	620	904	894	945	889	1016	1021	920	935
67.5°	1605	1047	1565	1575	1651	1631	1758	1890	1738	1768
70°	2916	1575	2464	2494	2591	2545	2672	2835	2520	2510
72.5°	3287	1692	2637	2688	2784	2764	2921	3053	2764	2733
75°	2347	1316	1875	1875	1925	1986	2108	2276	2200	2174
77.5°	1260	808	1062	1021	1026	1092	1219	1377	1423	1412
80°	696	488	594	523	513	559	650	762	798	793
82.5°	422	290	345	290	290	320	351	396	412	417
85°	249	173	203	183	188	198	203	234	234	234
87.5°	168	107	132	122	132	132	137	163	147	152
90°	107	71	86	91	97	97	107	112	112	112
95°	41	30	41	46	46	56	61	66	61	61
105°	10	5	10	10	15	25	41	51	46	51
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)