

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P588455

Luminaire Tested: **ARC-CA6-50-740-U-33-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC-CA6-50-740-U-33-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE III REFRACTOR
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5231 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 54
Input Voltage (V): 120
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: 25 FT



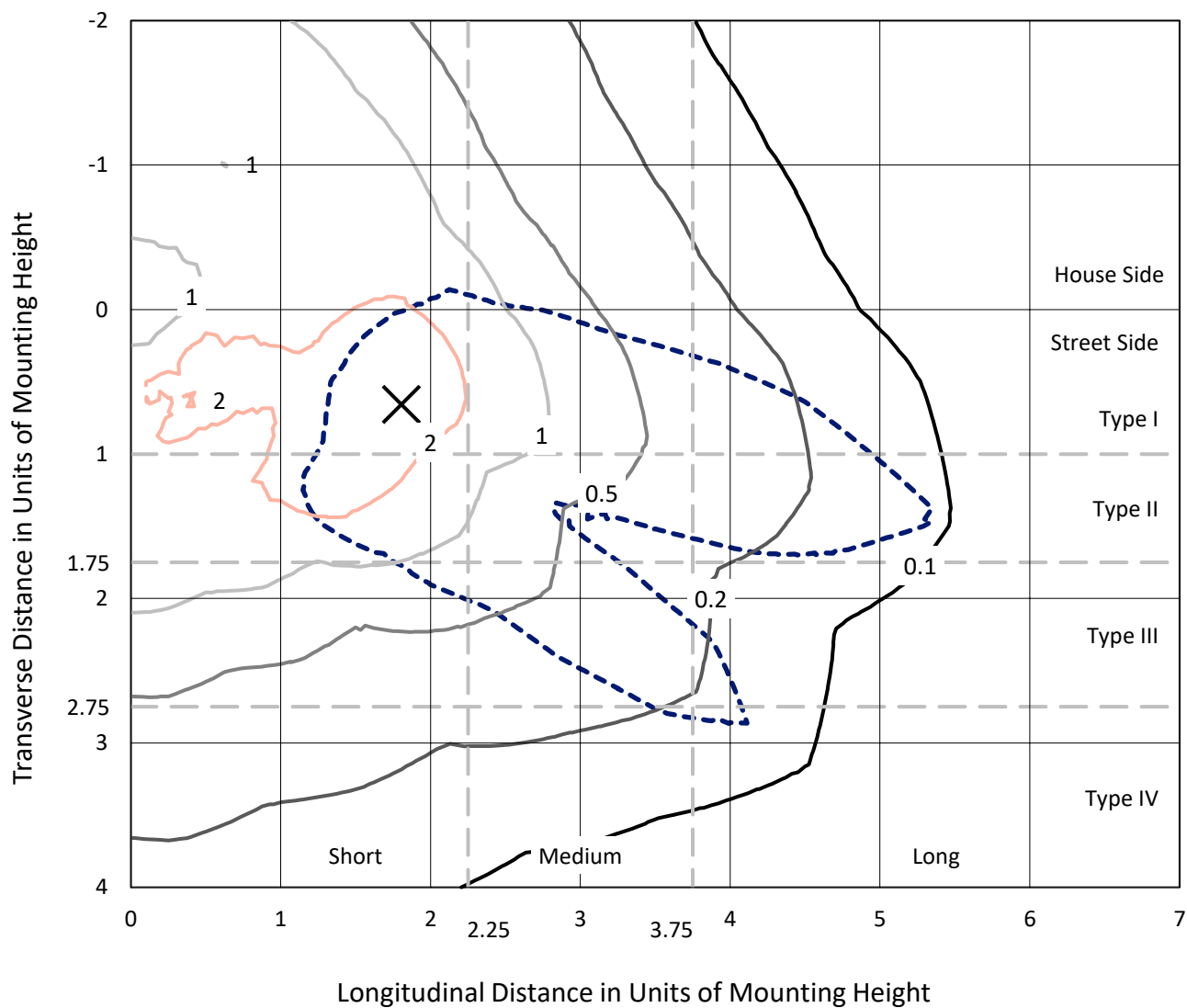
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

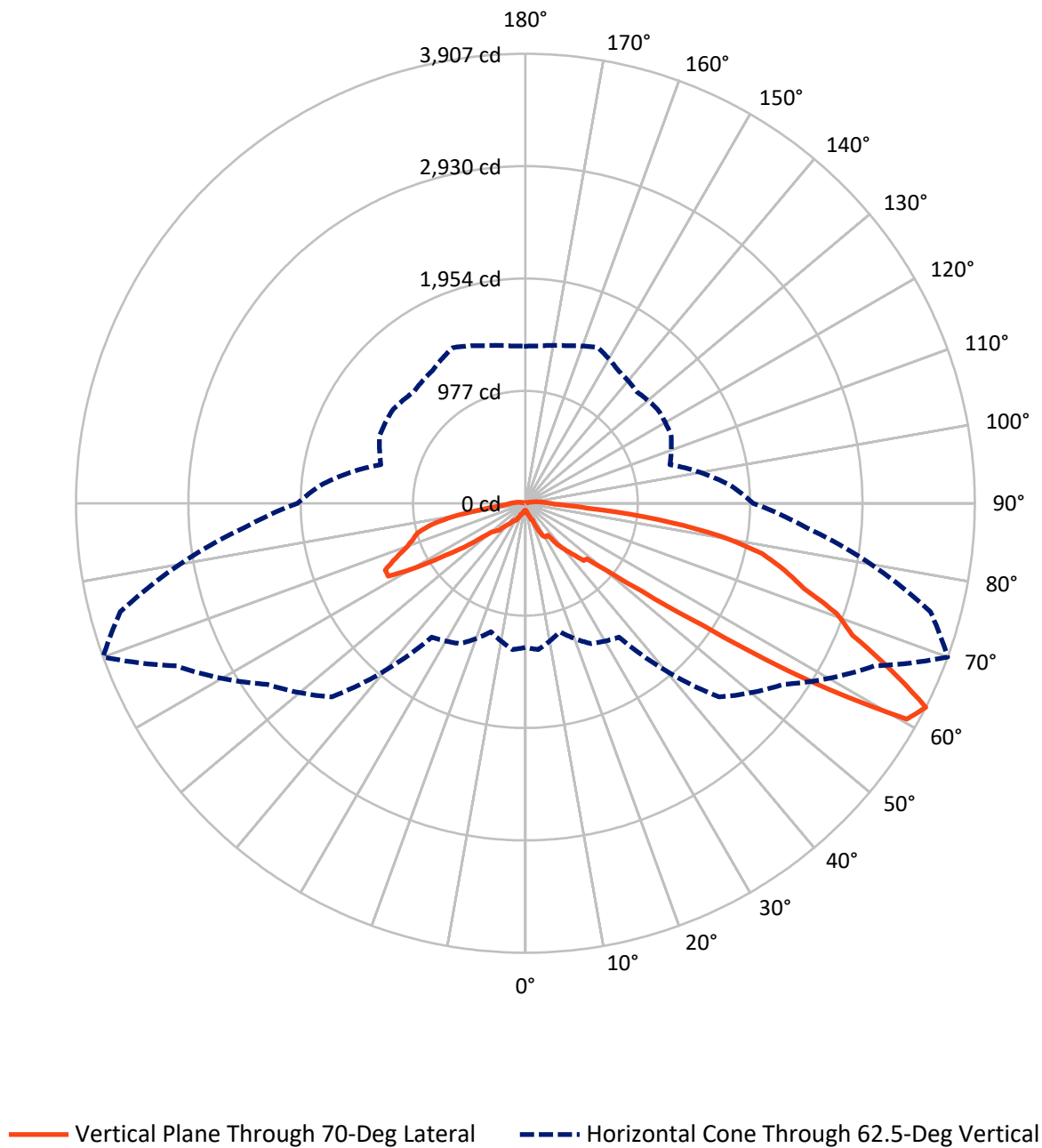


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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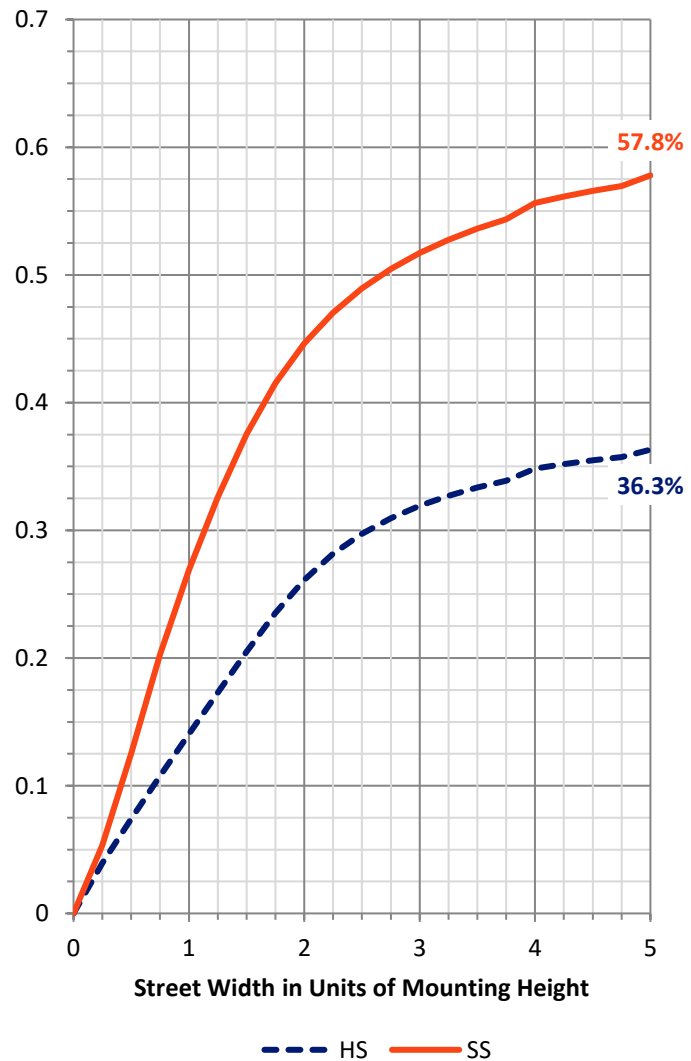
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1938.7	71.1	2009.8
	% Fixture	37.1	1.4	38.4
Street Side	Lumens	3123.5	97.7	3221.2
	% Fixture	59.7	1.9	61.6
Total	Lumens	5062.3	168.7	5231.0
	% Fixture	96.8	3.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.1
10°-20°	28.5	0.5
20°-30°	88.2	1.7
30°-40°	189.3	3.6
40°-50°	354.6	6.8
50°-60°	920.1	17.6
60°-70°	1685.4	32.2
70°-80°	1351.9	25.8
80°-90°	437.8	8.4
90°-100°	115.3	2.2
100°-110°	37.5	0.7
110°-120°	14.7	0.3
120°-130°	1.2	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5062.3	96.8
0°-180°	5231.0	100.0

Coefficient of Utilization



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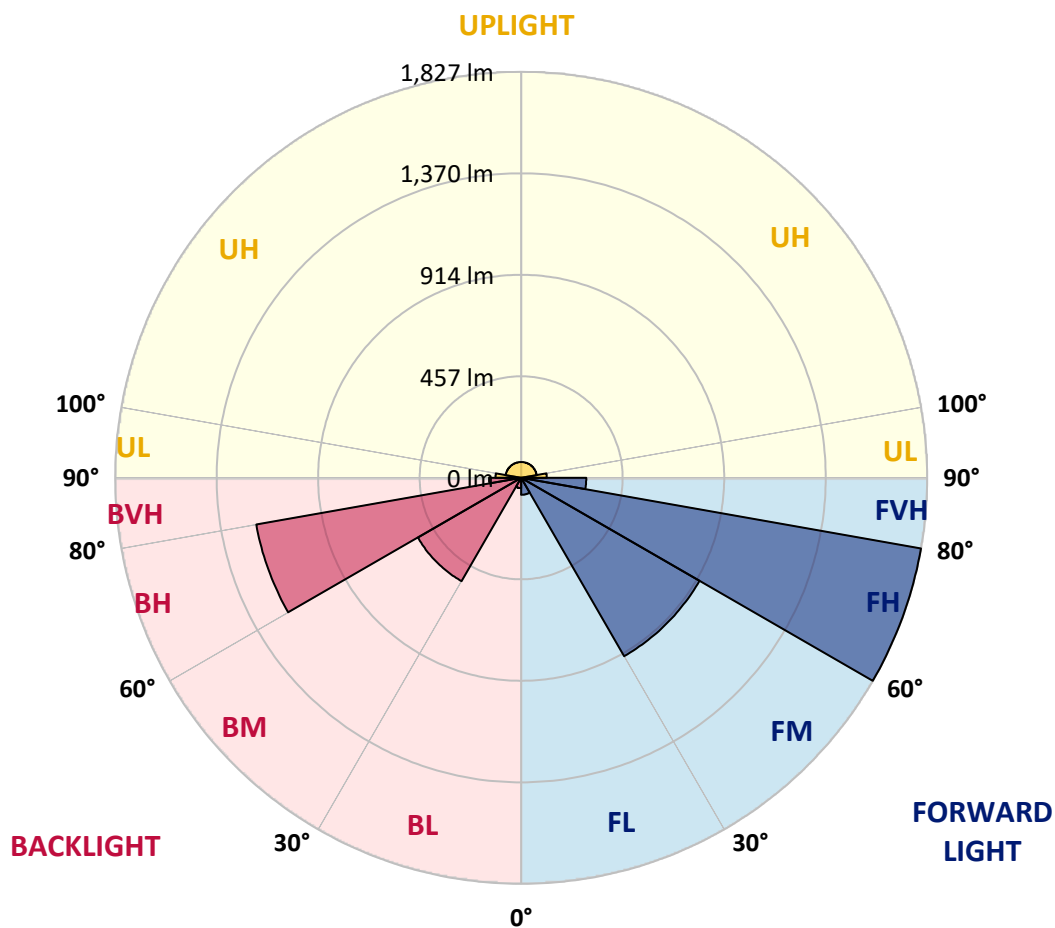
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	76.8	1.5			
FM	(30°-60°)	926.9	17.7			
FH	(60°-80°)	1827.1	34.9			G2/5000
FVH	(80°-90°)	292.9	5.6			G3/500
BL	(0°-30°)	46.6	0.9	B0/110		
BM	(30°-60°)	537.0	10.3	B1/1000		
BH	(60°-80°)	1210.2	23.1	B3/2500		G3/2500
BVH	(80°-90°)	144.9	2.8			G2/225
UL	(90°-100°)	115.3	2.2		U3/500	
UH	(100°-180°)	71.1	1.4		U3/500	

BUG Rating: B3-U3-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	62	62	62	62	62	62	62	62	62	62	62
2.5°	67	67	67	66	65	64	63	63	62	61	60
5°	73	72	71	69	68	68	67	67	67	66	65
7.5°	81	81	80	79	78	77	76	75	75	74	73
10°	92	92	92	91	91	90	88	87	85	84	81
12.5°	103	104	102	102	102	101	99	98	96	94	90
15°	114	113	112	111	113	113	112	112	108	105	98
17.5°	124	124	125	125	128	127	127	126	124	119	110
20°	140	141	141	141	151	155	156	157	154	144	126
22.5°	156	157	164	162	162	162	172	167	154	142	132
25°	211	214	216	223	231	253	288	277	257	216	182
27.5°	264	268	304	354	361	335	360	327	317	275	247
30°	288	295	357	391	403	369	405	342	339	309	285
32.5°	294	299	367	371	374	370	424	347	340	310	275
35°	285	291	337	314	315	386	487	374	342	290	251
37.5°	351	351	390	396	422	508	638	494	458	378	330
40°	400	405	467	490	494	567	799	579	528	423	386
42.5°	466	465	522	538	549	576	817	666	606	479	451
45°	477	493	545	527	541	610	853	789	709	585	527
47.5°	433	455	560	545	489	521	684	810	722	601	560
50°	467	479	531	521	446	554	751	1015	917	715	610
52.5°	604	630	639	678	642	829	1051	1286	1273	1035	805
55°	776	814	854	1002	1023	1302	1467	1718	1874	1637	1235
57.5°	962	1016	1003	1218	1251	1764	1916	2504	2921	2599	1809
60°	1142	1178	1105	1294	1357	2221	2444	3261	3810	3467	2228
62.5°	1253	1276	1156	1346	1420	2380	2743	3346	3907	3646	2455
65°	1252	1246	1109	1274	1264	2197	2651	2812	3490	3446	2484
67.5°	1203	1205	1061	1192	1151	1937	2456	2379	3068	3127	2416
70°	1156	1180	1043	1157	1138	1863	2371	2141	2870	2982	2344
72.5°	1090	1113	984	1084	1091	1715	2226	1869	2531	2666	2101
75°	1089	1118	997	1085	1096	1631	2244	1775	2328	2509	1961
77.5°	1027	1053	941	1023	1054	1476	2141	1658	2103	2306	1778
80°	825	860	768	822	839	1107	1717	1358	1711	1914	1453
82.5°	564	596	535	575	597	726	1187	978	1163	1287	910
85°	326	364	328	323	334	383	639	520	541	569	404
87.5°	205	211	193	194	196	210	291	232	256	290	245
90°	163	169	156	157	154	167	218	177	197	227	194
92.5°	141	145	136	138	136	146	182	146	162	186	159
95°	120	123	118	119	113	119	142	111	123	140	119
97.5°	96	99	96	96	90	93	109	86	94	105	90
100°	76	77	76	75	70	70	76	62	65	72	62
102.5°	58	59	58	57	51	48	48	40	42	44	39
105°	46	47	46	44	39	36	35	29	29	30	27
107.5°	38	38	38	36	33	29	26	21	21	22	21
110°	31	31	30	29	26	23	20	17	17	17	16

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CATALOG NUMBER: ARC-CA6-50-740-U-33-6-5-X

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	26	26	25	24	21	18	16	14	14	14	13
115°	22	22	21	20	18	15	13	11	11	11	11
117.5°	19	19	18	17	15	13	11	9	9	9	9
120°	17	16	15	14	12	11	9	8	8	8	7
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	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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CATALOG NUMBER: ARC-CA6-50-740-U-33-6-5-X

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	62	62	62	62	62	62	62	62	62	62	62
2.5°	60	60	59	59	59	58	58	59	59	59	59
5°	64	63	61	59	58	57	56	56	58	58	58
7.5°	72	71	68	66	64	62	61	60	61	62	62
10°	80	79	75	72	71	69	68	67	68	68	68
12.5°	88	86	83	79	77	76	75	74	74	74	74
15°	95	92	89	86	84	82	81	80	81	82	82
17.5°	106	103	96	91	90	88	87	87	88	89	89
20°	118	112	104	99	98	95	94	94	95	96	96
22.5°	128	124	112	105	104	103	104	104	105	106	106
25°	163	147	130	125	124	122	120	119	120	123	124
27.5°	220	191	159	148	148	150	154	156	152	150	151
30°	258	219	173	163	165	175	184	190	186	183	184
32.5°	248	212	179	177	183	191	196	199	207	210	214
35°	226	199	181	189	193	193	193	193	208	222	226
37.5°	276	230	215	218	215	212	215	223	236	247	250
40°	324	266	241	239	238	248	266	280	284	274	276
42.5°	377	301	269	272	280	296	316	316	316	307	310
45°	427	342	323	331	331	339	350	343	352	356	361
47.5°	486	397	355	348	349	365	369	366	372	365	365
50°	504	406	373	400	400	382	367	369	386	405	409
52.5°	641	503	473	501	513	482	482	486	490	504	508
55°	959	717	627	692	701	720	772	764	718	695	693
57.5°	1434	1064	781	873	931	1009	1048	1025	963	942	919
60°	1833	1457	1012	1172	1259	1272	1258	1260	1213	1228	1222
62.5°	1981	1788	1301	1398	1411	1371	1408	1493	1417	1372	1365
65°	2025	1911	1382	1319	1307	1300	1446	1588	1418	1313	1312
67.5°	1981	1785	1279	1175	1203	1260	1450	1503	1343	1227	1219
70°	1924	1582	1151	1061	1126	1209	1330	1309	1246	1143	1138
72.5°	1717	1371	1069	994	1068	1092	1152	1143	1161	1096	1093
75°	1537	1259	1020	932	968	964	1012	1023	1074	1046	1035
77.5°	1326	1095	899	797	811	810	833	840	876	878	866
80°	1038	858	702	600	602	584	587	586	593	601	590
82.5°	596	479	398	333	319	295	290	292	289	287	287
85°	292	227	209	187	179	173	176	182	185	179	176
87.5°	197	170	162	153	149	143	147	152	156	151	150
90°	156	135	133	131	128	123	127	133	136	132	130
92.5°	126	109	109	108	105	101	106	111	114	111	110
95°	97	84	87	85	82	81	84	88	90	88	88
97.5°	75	66	69	68	64	63	65	68	70	68	67
100°	51	47	51	51	47	45	47	50	51	51	50
102.5°	34	32	37	38	36	34	35	37	38	38	38
105°	24	24	29	30	28	26	28	29	29	29	29
107.5°	19	20	23	25	23	21	22	23	23	23	24
110°	16	16	19	21	19	18	18	18	18	19	21

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	13	14	16	17	16	15	15	15	15	16	19
115°	11	12	14	14	13	13	13	12	12	13	18
117.5°	9	10	11	11	11	10	10	10	10	12	19
120°	8	8	9	9	8	8	8	8	7	10	15
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)