

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: P588456

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

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-9)
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-X-5-X
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE III REFRACTOR
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7713.1 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U4 - G5

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



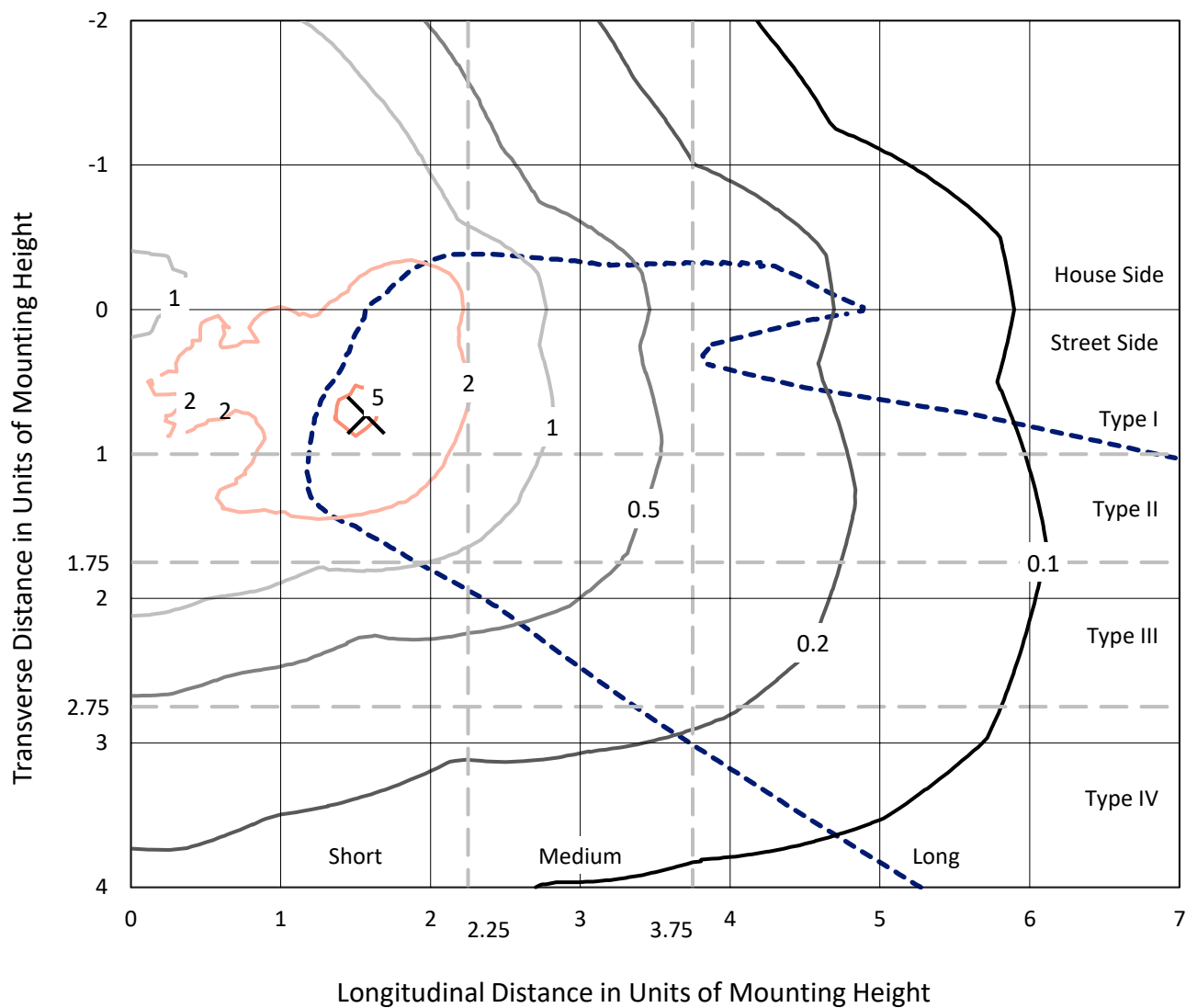
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

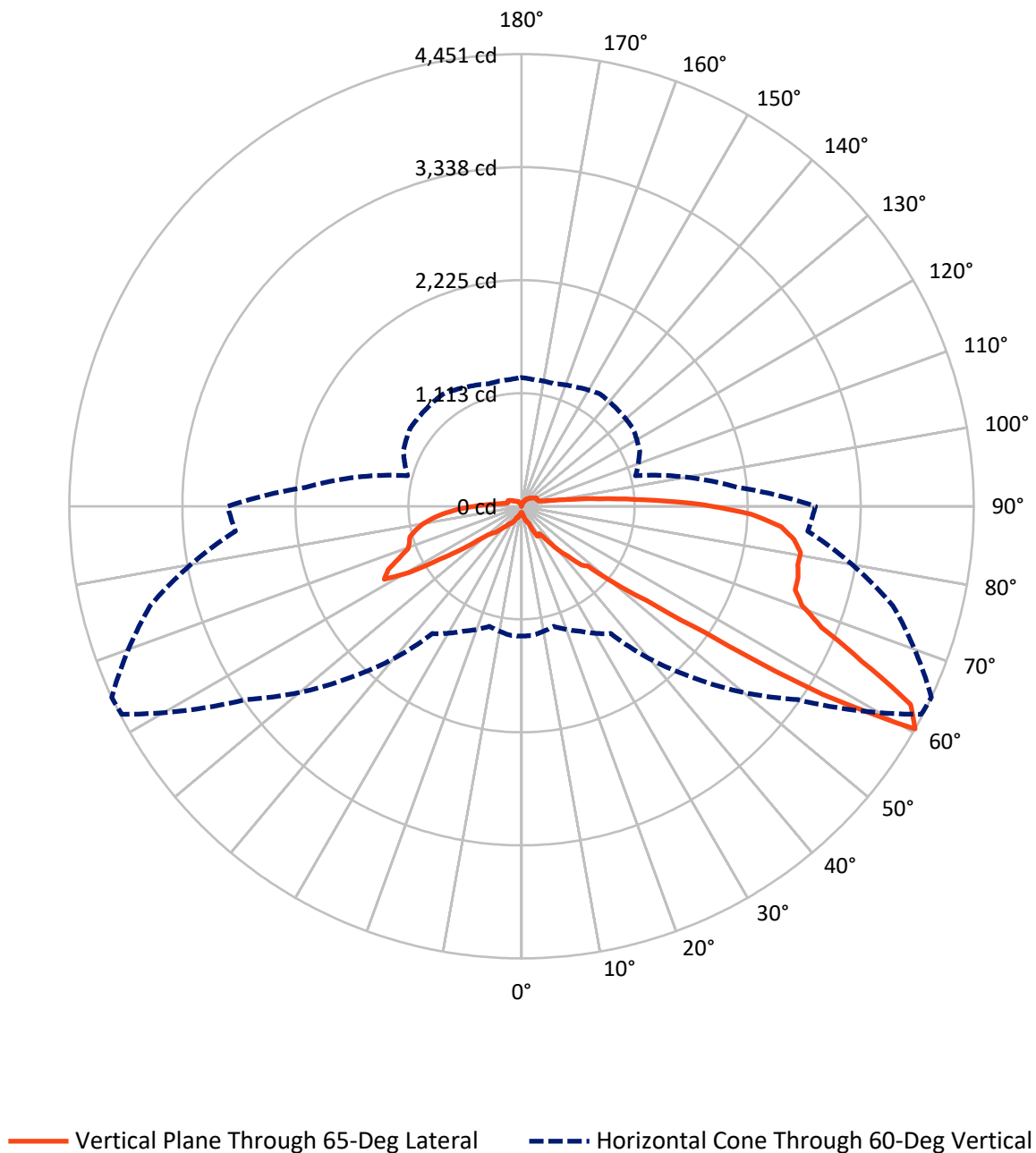


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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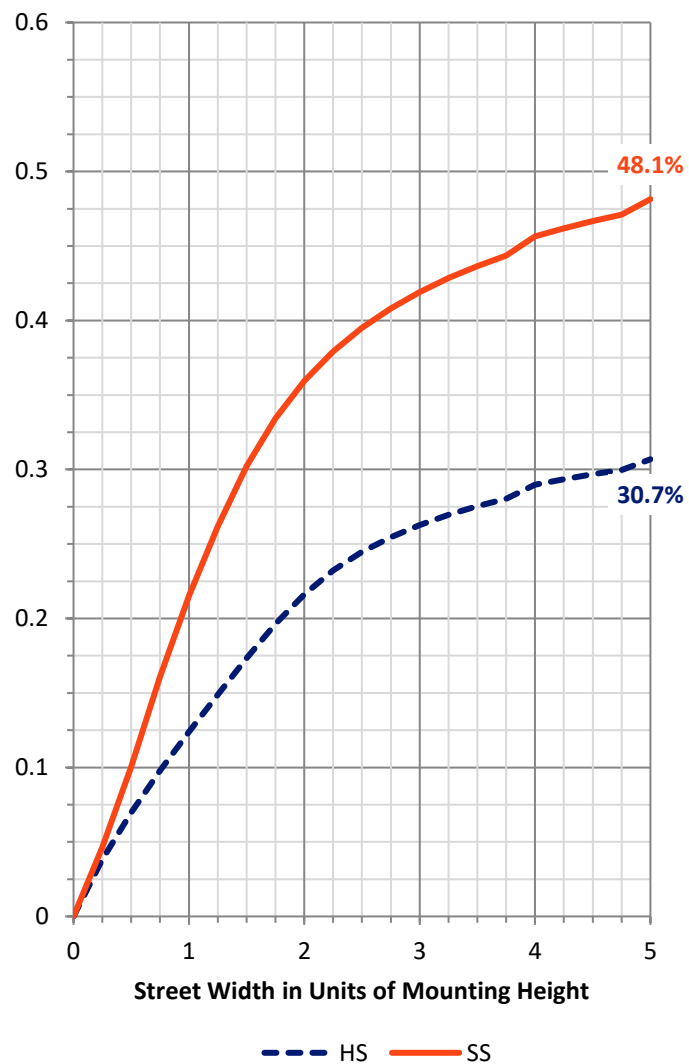
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2572.1	411.9	2984.1
	% Fixture	33.3	5.3	38.7
Street Side	Lumens	4115.1	614.0	4729.0
	% Fixture	53.4	8.0	61.3
Total	Lumens	6687.2	1025.9	7713.1
	% Fixture	86.7	13.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.1
10°-20°	32.9	0.4
20°-30°	94.2	1.2
30°-40°	202.9	2.6
40°-50°	383.9	5.0
50°-60°	1072.4	13.9
60°-70°	1911.8	24.8
70°-80°	1673.8	21.7
80°-90°	1307.8	17.0
90°-100°	494.4	6.4
100°-110°	170.1	2.2
110°-120°	139.1	1.8
120°-130°	93.4	1.2
130°-140°	64.1	0.8
140°-150°	40.3	0.5
150°-160°	18.7	0.2
160°-170°	5.3	0.1
170°-180°	0.5	0.0
0°-90°	6687.2	86.7
0°-180°	7713.1	100.0

Coefficient of Utilization



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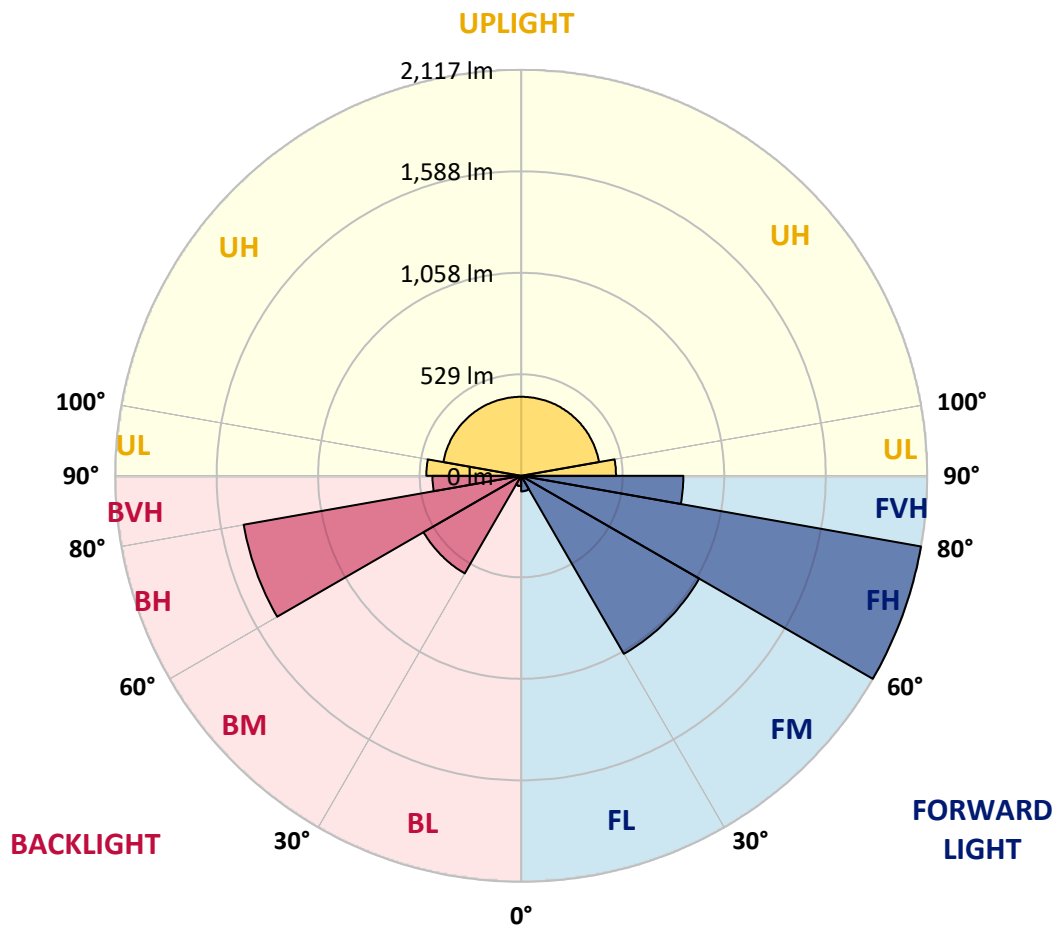
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	81.3	1.1			
FM	(30°-60°)	1071.7	13.9			
FH	(60°-80°)	2116.8	27.4			G2/5000
FVH	(80°-90°)	845.3	11.0			G5
BL	(0°-30°)	53.3	0.7	B0/110		
BM	(30°-60°)	587.5	7.6	B1/1000		
BH	(60°-80°)	1468.9	19.0	B3/2500		G3/2500
BVH	(80°-90°)	462.5	6.0			G3/500
UL	(90°-100°)	494.4	6.4		U3/500	
UH	(100°-180°)	411.9	5.3		U3/500	

BUG Rating: B3-U4-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	59	59	59	59	59	59	59	59	59	59	59
2.5°	68	66	64	64	63	62	62	60	61	60	60
5°	80	79	77	78	76	75	75	74	73	72	69
7.5°	93	93	94	95	92	89	88	86	86	85	83
10°	107	106	102	102	100	98	99	98	98	98	94
12.5°	111	110	107	107	107	106	110	109	110	109	103
15°	125	124	123	124	128	136	146	142	143	141	119
17.5°	131	134	136	137	141	141	143	142	146	149	136
20°	152	150	152	159	169	170	167	167	169	170	145
22.5°	161	160	168	162	162	167	185	179	179	177	156
25°	209	213	221	231	255	262	282	260	263	232	198
27.5°	251	254	301	343	362	352	369	328	332	336	289
30°	264	270	338	369	394	374	396	342	339	362	343
32.5°	254	260	332	345	371	445	417	330	321	332	355
35°	279	283	326	295	319	622	546	385	367	306	340
37.5°	335	335	386	408	426	734	717	479	465	358	393
40°	406	404	467	482	490	665	867	611	580	421	512
42.5°	449	445	496	512	512	563	981	744	672	491	626
45°	466	470	536	516	531	578	1103	928	827	576	726
47.5°	422	428	523	525	449	462	989	964	881	617	758
50°	518	522	556	533	496	585	1178	1239	1203	764	800
52.5°	711	729	761	781	770	983	1580	1569	1539	1147	1092
55°	921	936	981	1102	1194	1472	1965	2195	2193	1863	1702
57.5°	1112	1113	1119	1268	1410	1922	2574	3419	3495	2976	2437
60°	1278	1275	1224	1357	1530	2383	3318	4436	4451	3784	2827
62.5°	1323	1314	1240	1364	1512	2392	3508	4315	4298	3841	2878
65°	1284	1275	1181	1292	1362	2174	3240	3711	3683	3509	2740
67.5°	1226	1232	1139	1224	1272	2039	2958	3193	3185	3270	2625
70°	1142	1147	1062	1167	1237	1953	2688	2943	2929	3054	2456
72.5°	1145	1160	1059	1138	1211	1835	2566	2857	2816	2835	2253
75°	1153	1173	1066	1137	1205	1792	2552	2864	2812	2756	2176
77.5°	1156	1185	1070	1148	1207	1733	2520	2829	2780	2680	2085
80°	1132	1163	1053	1149	1194	1616	2439	2823	2786	2670	2048
82.5°	1084	1115	1020	1099	1169	1497	2325	2706	2704	2574	1970
85°	979	1013	941	1014	1100	1339	2095	2507	2562	2457	1865
87.5°	878	912	874	915	1002	1164	1800	2164	2267	2180	1602
90°	763	798	767	751	821	929	1439	1683	1780	1727	1179
92.5°	611	641	612	575	617	682	1069	1178	1201	1150	773
95°	462	484	458	421	426	467	737	772	766	705	491
97.5°	321	334	317	291	300	326	488	484	484	431	321
100°	223	228	220	208	215	232	328	327	317	291	234
102.5°	177	178	170	162	158	174	237	236	238	226	183
105°	156	155	148	141	133	149	188	196	195	185	157
107.5°	143	142	135	129	122	136	163	174	173	172	148
110°	133	132	126	120	114	130	153	170	170	170	150

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
112.5°	126	126	121	116	111	129	147	167	167	172	157
115°	122	121	117	114	110	130	145	165	166	173	156
117.5°	119	118	115	111	109	128	146	169	168	179	153
120°	114	112	108	104	102	118	142	164	162	167	141
122.5°	110	104	97	94	94	107	133	148	146	142	127
125°	101	95	89	88	89	100	127	136	137	134	120
127.5°	91	87	84	84	86	98	125	131	131	125	114
130°	86	85	83	83	87	99	122	124	124	116	111
132.5°	84	82	80	80	84	96	114	118	117	109	105
135°	80	79	77	77	82	94	107	111	110	100	97
137.5°	78	76	76	76	81	93	101	104	103	93	90
140°	75	74	72	72	79	90	95	96	95	87	84
142.5°	70	69	68	70	77	85	89	89	88	83	79
145°	67	66	65	70	76	80	84	81	81	78	74
147.5°	64	63	63	67	72	72	75	74	75	74	70
150°	58	57	57	60	61	61	64	64	64	64	61
152.5°	51	50	51	52	52	52	54	55	55	54	53
155°	44	44	44	45	45	44	47	47	47	47	46
157.5°	39	39	39	39	39	38	40	40	41	40	40
160°	34	33	33	33	33	32	33	33	33	34	34
162.5°	27	26	26	26	26	24	26	25	26	26	27
165°	22	21	21	21	20	19	20	19	19	19	20
167.5°	17	17	16	17	16	14	14	13	13	13	13
170°	13	12	11	12	11	9	9	8	8	7	7
172.5°	9	8	7	8	7	5	5	3	3	3	3
175°	8	7	6	7	6	4	3	2	2	2	2
177.5°	8	7	6	7	6	4	3	2	2	2	2
180°	4	4	4	4	4	4	4	4	4	4	4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	59	59	59	59	59	59	59	59	59	59	59
2.5°	60	59	58	60	59	60	61	62	62	61	61
5°	69	68	66	65	63	63	63	65	65	64	65
7.5°	82	80	77	75	72	72	71	73	74	72	73
10°	92	91	87	84	81	80	80	81	81	80	80
12.5°	101	99	95	92	88	87	87	88	88	87	87
15°	114	108	104	101	97	96	95	96	97	95	95
17.5°	132	125	116	108	104	106	107	108	107	104	104
20°	142	138	126	120	115	115	115	115	115	114	115
22.5°	149	143	128	124	121	123	125	126	126	125	125
25°	181	159	144	141	137	138	136	136	137	136	138
27.5°	249	213	179	167	164	164	166	166	166	166	165
30°	299	257	201	185	183	192	197	201	199	196	196
32.5°	307	261	205	199	204	211	216	219	222	221	220
35°	290	241	202	210	214	218	219	217	226	230	231
37.5°	324	270	235	241	236	232	234	235	247	253	259
40°	414	326	267	264	261	270	282	288	287	283	284
42.5°	501	381	301	300	299	315	334	333	324	317	317
45°	590	434	355	356	354	360	365	361	362	364	366
47.5°	645	482	389	386	373	385	399	390	387	382	384
50°	658	494	409	431	419	410	395	389	400	408	414
52.5°	855	610	511	546	530	498	495	485	497	498	505
55°	1433	978	704	738	739	728	778	750	725	714	710
57.5°	2259	1512	911	954	995	1034	1102	1045	973	964	974
60°	2893	2135	1162	1283	1338	1340	1349	1293	1249	1253	1267
62.5°	3029	2655	1480	1530	1535	1498	1514	1550	1488	1439	1452
65°	2938	2861	1584	1454	1446	1452	1561	1661	1536	1412	1412
67.5°	2762	2704	1478	1308	1330	1398	1536	1586	1453	1321	1321
70°	2574	2458	1359	1192	1246	1325	1415	1419	1341	1247	1241
72.5°	2371	2266	1308	1158	1183	1197	1246	1277	1268	1207	1206
75°	2311	2226	1307	1142	1127	1122	1156	1223	1254	1218	1220
77.5°	2220	2169	1246	1075	1059	1059	1077	1131	1178	1163	1168
80°	2157	2080	1153	1002	980	983	985	1022	1066	1068	1068
82.5°	2036	1891	1012	893	878	882	875	896	908	923	920
85°	1837	1632	855	774	750	742	736	737	744	741	729
87.5°	1539	1294	682	635	607	587	579	569	568	557	561
90°	1136	888	506	489	469	448	437	427	419	408	404
92.5°	741	572	370	361	348	336	331	326	324	315	318
95°	463	387	278	268	261	258	259	260	258	248	251
97.5°	309	280	217	210	203	202	203	205	206	199	201
100°	228	215	178	173	167	165	166	168	169	163	164
102.5°	181	175	154	152	145	143	145	146	147	143	143
105°	159	159	142	141	136	134	135	136	137	133	133
107.5°	153	154	137	138	135	134	136	138	137	134	133
110°	158	160	137	140	141	143	147	148	148	146	147

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	163	166	135	142	149	154	161	165	163	162	163
115°	159	161	126	137	150	157	159	159	154	154	155
117.5°	154	158	117	126	135	141	140	137	131	129	135
120°	143	155	112	114	115	117	114	111	106	105	109
122.5°	132	143	103	101	100	100	99	98	95	96	100
125°	123	129	94	91	90	91	91	91	89	87	87
127.5°	116	118	89	85	84	84	84	85	84	81	81
130°	112	111	86	79	78	79	79	80	78	76	76
132.5°	104	102	82	75	74	75	75	75	73	71	71
135°	95	93	77	70	69	70	70	71	69	67	67
137.5°	88	86	72	66	65	65	66	66	65	63	63
140°	82	80	67	62	60	61	61	61	60	58	58
142.5°	77	76	62	57	55	56	56	57	55	53	53
145°	73	71	58	52	51	51	51	52	50	48	48
147.5°	69	67	53	47	46	46	46	46	45	43	42
150°	61	60	49	43	41	41	41	40	38	36	36
152.5°	52	51	43	38	36	36	35	35	33	32	31
155°	45	45	39	34	32	31	30	30	29	28	27
157.5°	40	39	35	31	27	27	26	26	25	24	23
160°	34	34	30	26	23	22	22	21	20	19	19
162.5°	27	27	24	21	18	18	17	17	16	15	14
165°	19	19	18	16	14	13	13	13	12	11	11
167.5°	13	13	12	11	10	9	10	10	9	8	8
170°	7	7	6	6	5	5	6	7	6	5	4
172.5°	3	3	3	3	2	3	4	5	4	3	3
175°	2	2	3	3	2	3	4	5	4	3	3
177.5°	2	2	3	3	2	3	4	5	4	3	3
180°	4	4	4	4	4	4	4	4	4	4	4

(END OF REPORT)