

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: 175P265

Luminaire Tested: **ARC050650LEDEU33**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 175P265
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC050650LEDEU33
Description: LED POST TOP TYPE 3 WITH NO CAGE
Light Source: [6 LED UNIT, 5000CCT, 65CRI
ONLY ONE DRIVER ON - EVERY OTHER LED ON (3)
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1737 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.23' x H: 1.04')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

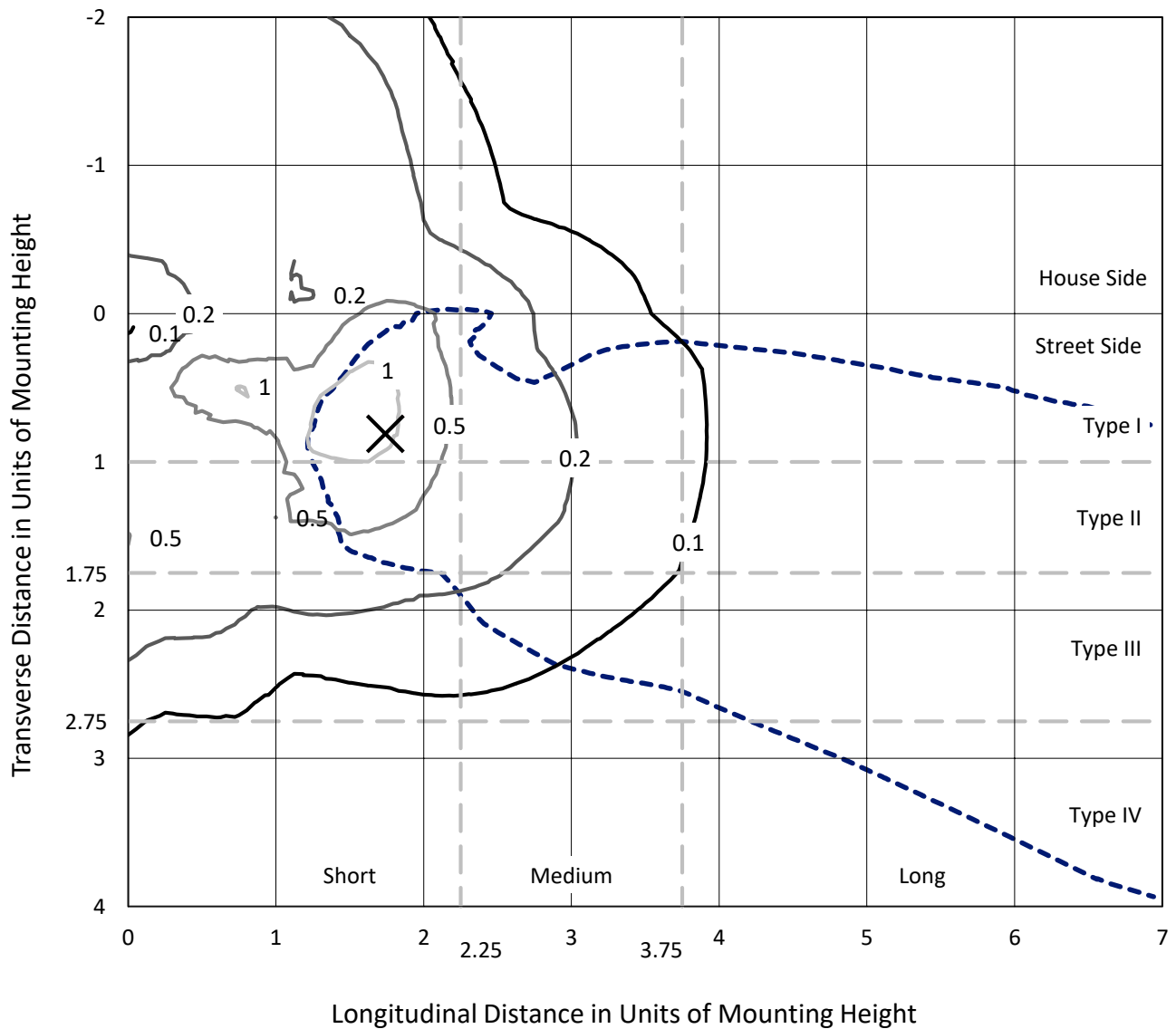
Input Watts (W): 29.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

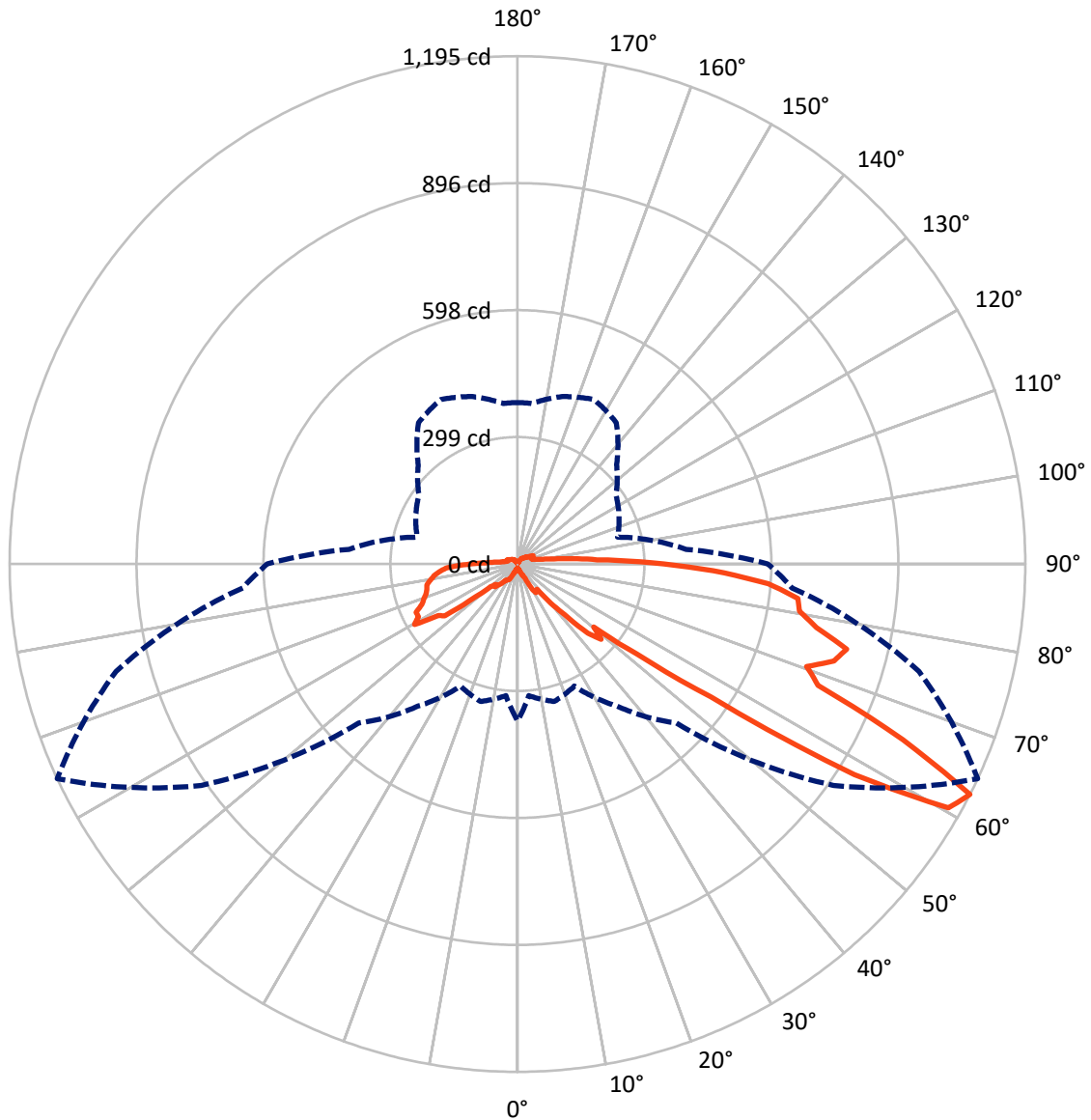
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical



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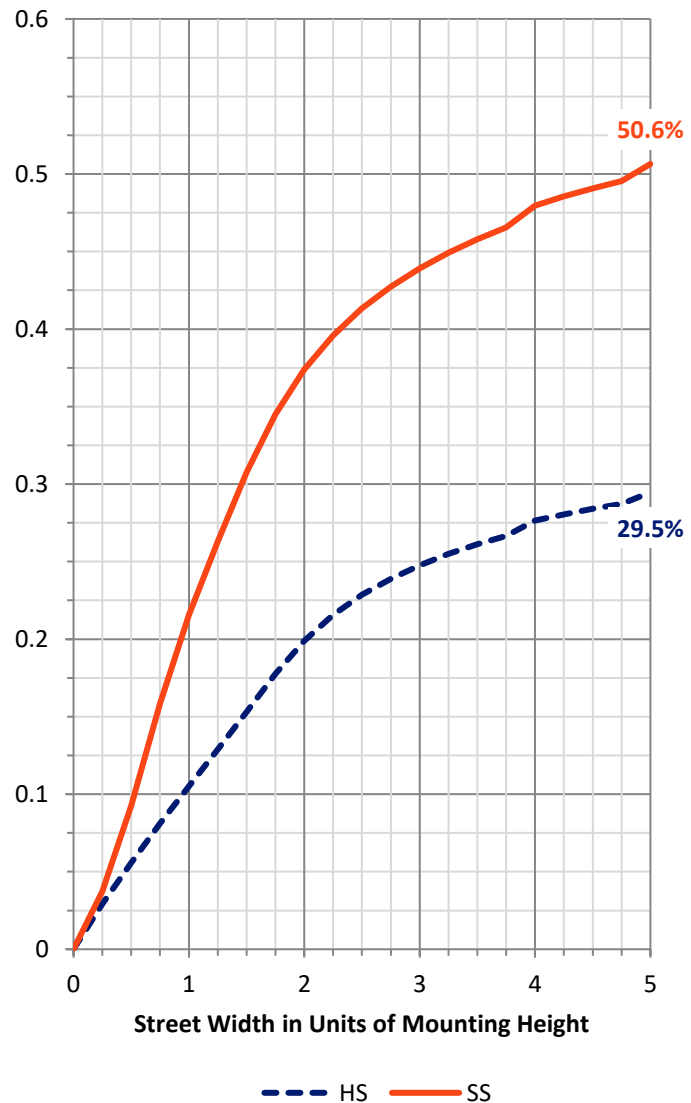
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	561.6	84.0	645.6
	% Fixture	32.3	4.8	37.2
Street Side	Lumens	971.3	120.1	1091.4
	% Fixture	55.9	6.9	62.8
Total	Lumens	1532.9	204.1	1737.0
	% Fixture	88.3	11.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.1
10°-20°	5.0	0.3
20°-30°	17.4	1.0
30°-40°	43.2	2.5
40°-50°	81.2	4.7
50°-60°	233.2	13.4
60°-70°	445.9	25.7
70°-80°	403.7	23.2
80°-90°	302.3	17.4
90°-100°	99.5	5.7
100°-110°	34.3	2.0
110°-120°	27.7	1.6
120°-130°	19.2	1.1
130°-140°	12.9	0.7
140°-150°	7.4	0.4
150°-160°	2.6	0.1
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-90°	1532.9	88.3
0°-180°	1737.0	100.0



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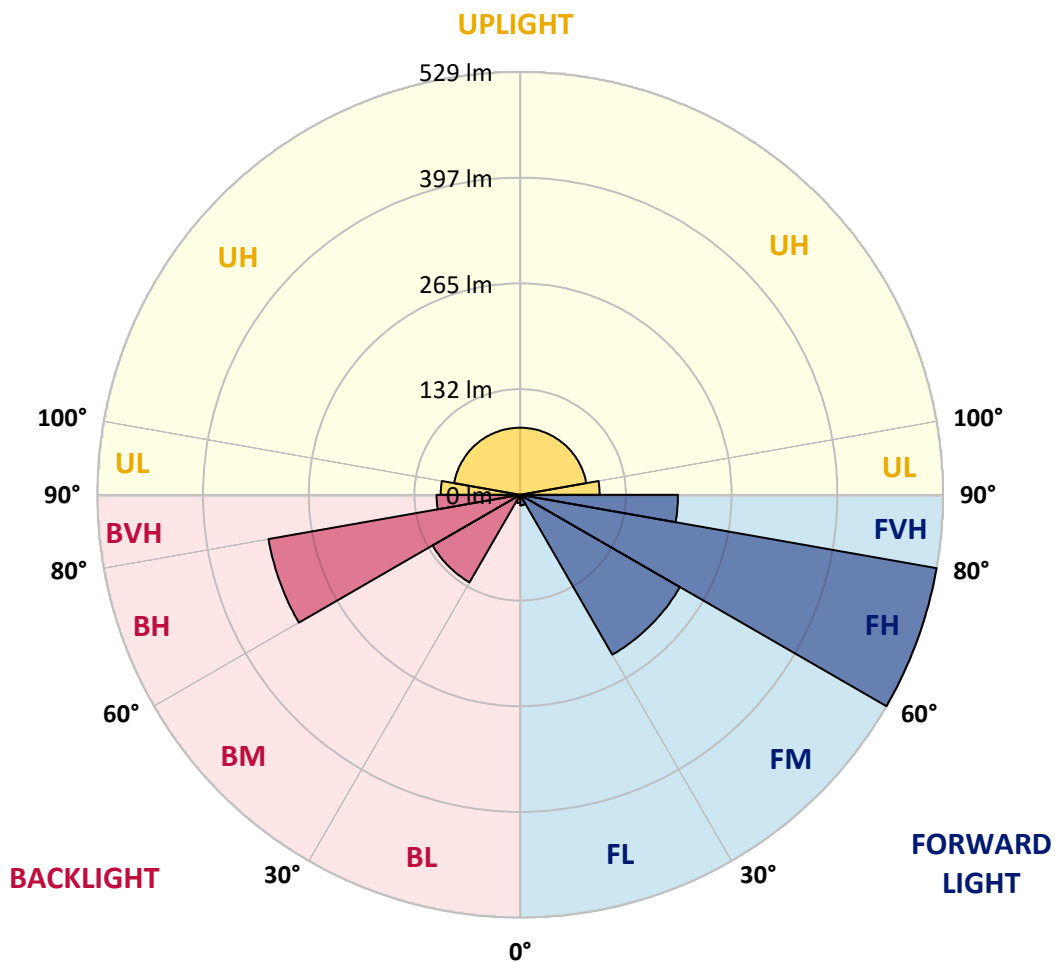
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13.2	0.8			
FM (30°-60°)	231.0	13.3			
FH (60°-80°)	529.5	30.5			G0/660
FVH (80°-90°)	197.6	11.4			G2/225
BL (0°-30°)	10.2	0.6	B0/110		
BM (30°-60°)	126.6	7.3	B0/220		
BH (60°-80°)	320.1	18.4	B1/500		G1/500
BVH (80°-90°)	104.7	6.0			G2/225
UL (90°-100°)	99.5	5.7		U3/500	
UH (100°-180°)	84.0	4.8		U3/500	

BUG Rating: B1-U3-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10	10	10	10	10	10	10	10	10	10	10
2.5°	11	11	11	11	11	11	11	11	11	11	11
5°	10	10	11	11	10	10	10	10	10	10	10
7.5°	10	11	11	11	11	11	11	11	11	11	11
10°	13	13	13	13	12	12	12	13	12	12	12
12.5°	14	14	14	15	14	14	13	14	15	15	14
15°	15	15	16	17	16	16	16	16	16	16	16
17.5°	19	19	21	20	19	18	18	18	17	17	18
20°	30	30	31	29	26	23	23	22	20	20	20
22.5°	30	30	31	33	31	32	33	29	24	23	22
25°	40	40	42	42	50	49	33	28	29	25	25
27.5°	75	73	67	60	75	67	62	38	30	31	31
30°	78	76	71	68	82	111	88	70	43	35	36
32.5°	76	73	67	71	86	173	117	80	54	42	39
35°	51	52	55	65	79	176	149	76	54	47	43
37.5°	84	85	81	75	82	175	146	75	55	46	43
40°	99	98	96	94	82	171	221	121	54	50	50
42.5°	122	119	110	95	87	198	275	163	82	59	55
45°	111	107	105	99	94	136	305	232	103	72	63
47.5°	88	91	98	79	76	131	320	265	147	79	69
50°	90	88	96	101	97	117	252	233	159	102	78
52.5°	153	140	142	136	149	132	286	351	204	132	101
55°	284	252	255	229	240	184	462	552	387	259	192
57.5°	308	263	288	296	287	267	751	935	669	455	326
60°	405	336	346	313	400	465	769	1165	957	615	474
62.5°	369	311	335	317	408	529	908	1195	978	649	589
65°	338	281	298	263	392	646	883	997	817	602	617
67.5°	325	272	301	263	390	560	817	763	690	558	605
70°	269	232	267	221	331	471	680	722	658	508	496
72.5°	286	240	268	222	341	526	676	779	726	590	495
75°	329	267	295	246	352	507	644	800	740	651	498
77.5°	328	274	314	241	343	462	574	719	701	645	459
80°	308	258	273	216	335	458	545	673	696	600	410
82.5°	306	254	269	229	340	385	511	665	687	560	364
85°	301	255	289	225	329	318	444	592	540	468	305
87.5°	255	218	247	185	262	224	330	461	448	378	238
90°	236	187	203	151	219	164	224	315	329	252	157
92.5°	185	144	159	124	168	125	157	188	196	153	99
95°	110	94	105	84	109	92	110	130	123	104	69
97.5°	75	68	72	57	71	66	76	87	81	71	48
100°	48	44	46	38	45	46	53	61	56	51	38
102.5°	35	33	34	30	34	35	41	48	46	41	32
105°	30	28	29	26	30	31	36	42	40	35	29
107.5°	27	25	27	24	27	28	32	37	35	32	29
110°	25	24	25	23	26	28	32	35	32	32	29



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	24	23	25	25	27	28	31	37	33	31	30
115°	23	22	24	24	25	30	33	38	37	32	30
117.5°	23	23	25	23	26	28	38	42	36	32	33
120°	23	22	22	21	25	25	35	37	31	29	31
122.5°	20	19	20	19	22	22	30	31	26	24	26
125°	19	18	20	18	21	20	28	28	25	24	24
127.5°	18	17	18	17	19	20	25	27	25	23	22
130°	18	18	18	17	19	20	25	24	22	21	20
132.5°	17	16	17	16	18	19	23	20	20	19	18
135°	17	16	17	16	19	18	21	20	19	17	16
137.5°	16	15	16	15	18	17	21	19	17	14	14
140°	15	14	15	15	15	17	17	17	15	13	12
142.5°	14	14	14	14	15	16	15	16	13	12	11
145°	13	13	14	14	15	16	14	13	12	10	10
147.5°	12	12	12	13	13	13	11	10	9	9	8
150°	9	10	10	11	10	9	7	7	7	7	7
152.5°	8	8	9	9	8	7	6	5	5	6	6
155°	7	7	7	7	6	5	5	4	4	4	5
157.5°	5	5	6	5	5	4	3	3	3	3	4
160°	4	4	4	4	3	3	2	3	3	3	3
162.5°	3	3	3	3	3	2	2	2	2	2	2
165°	2	2	2	2	2	1	1	1	1	1	2
167.5°	1	2	2	2	2	1	1	1	1	1	1
170°	1	1	1	1	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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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10	10	10	10	10	10	10	10	10	10
2.5°	11	11	11	11	11	11	11	11	11	11
5°	10	11	11	11	11	11	11	11	11	11
7.5°	11	11	12	12	12	12	12	13	13	13
10°	12	13	13	13	13	14	14	15	14	15
12.5°	14	14	14	15	15	15	16	16	16	16
15°	17	16	16	17	17	17	17	18	19	18
17.5°	18	18	18	19	19	19	20	20	20	20
20°	20	21	22	23	23	23	23	23	23	23
22.5°	22	23	23	24	25	26	26	26	27	26
25°	25	28	29	30	30	28	29	30	29	29
27.5°	31	35	39	37	38	37	37	35	35	34
30°	37	41	42	42	45	44	43	42	43	45
32.5°	39	42	44	44	47	48	48	51	51	52
35°	40	42	46	46	45	48	49	54	55	58
37.5°	42	48	50	51	53	57	58	58	54	53
40°	52	54	59	60	64	67	63	60	65	64
42.5°	59	64	66	69	75	73	68	74	73	69
45°	63	71	75	80	86	85	83	81	81	81
47.5°	65	67	70	77	80	82	84	89	93	94
50°	68	72	82	87	87	93	93	94	90	86
52.5°	90	99	125	122	120	124	119	107	104	104
55°	158	176	210	199	206	206	183	155	146	148
57.5°	235	188	222	218	245	238	233	225	242	255
60°	345	247	281	283	293	312	329	354	299	288
62.5°	398	244	264	283	330	406	427	408	379	380
65°	411	247	264	295	379	442	413	413	377	366
67.5°	430	221	244	297	335	357	365	365	329	317
70°	410	227	235	246	281	314	351	322	300	289
72.5°	439	255	226	218	275	323	324	320	319	309
75°	461	260	221	217	259	291	306	316	313	307
77.5°	441	254	219	212	237	256	280	291	291	286
80°	399	243	208	203	221	232	249	263	275	277
82.5°	361	229	198	184	199	206	216	227	235	239
85°	310	210	184	170	176	175	172	180	184	183
87.5°	237	178	165	152	151	143	134	136	143	144
90°	155	125	119	108	107	106	103	103	101	101
92.5°	96	81	76	71	73	75	76	79	78	78
95°	69	59	55	53	56	58	61	64	63	63
97.5°	48	43	40	40	41	45	47	49	48	49
100°	37	34	33	32	34	36	38	39	39	39
102.5°	32	29	28	28	29	31	33	34	33	33
105°	30	27	26	26	27	29	31	31	31	30
107.5°	30	25	24	25	27	29	32	31	31	30
110°	29	25	26	27	29	31	33	33	32	31



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	28	25	26	28	31	33	33	32	31	30
115°	26	22	24	25	26	28	30	27	27	27
117.5°	27	21	22	22	23	25	25	25	25	24
120°	27	21	21	21	22	23	23	23	23	22
122.5°	24	19	19	20	20	21	21	21	21	20
125°	24	18	18	19	19	20	20	20	20	19
127.5°	23	17	17	18	19	19	19	18	18	18
130°	20	16	17	18	18	18	18	17	17	16
132.5°	18	16	16	17	17	17	17	16	15	15
135°	16	16	15	15	16	16	15	15	14	14
137.5°	14	15	14	14	15	15	14	13	13	13
140°	12	13	13	13	13	13	12	12	12	11
142.5°	11	12	12	12	12	12	11	11	10	11
145°	10	11	12	12	11	11	10	10	10	10
147.5°	9	9	10	11	10	10	9	9	8	8
150°	7	8	8	9	8	8	7	7	7	6
152.5°	6	6	7	7	7	7	6	6	5	5
155°	5	5	5	6	6	5	5	5	5	5
157.5°	4	4	4	5	4	4	4	4	4	4
160°	3	3	3	4	4	4	3	3	3	3
162.5°	2	2	3	3	3	3	3	3	2	2
165°	2	2	2	2	2	2	2	2	1	1
167.5°	1	1	1	1	1	1	1	1	1	1
170°	0	1	1	1	1	0	0	1	1	0
172.5°	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)