

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: 175p258

Luminaire Tested: **ARC050650LEDEU33**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 175p258
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC050650LEDEU33
Description: LED POST TOP TYPE III NO CAGE
Light Source: 6 LED UNIT, 5000CCT, 65CRI
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3353.4 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.23' x H: 1.04')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U3 - G3

Input Watts (W): 57.4
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

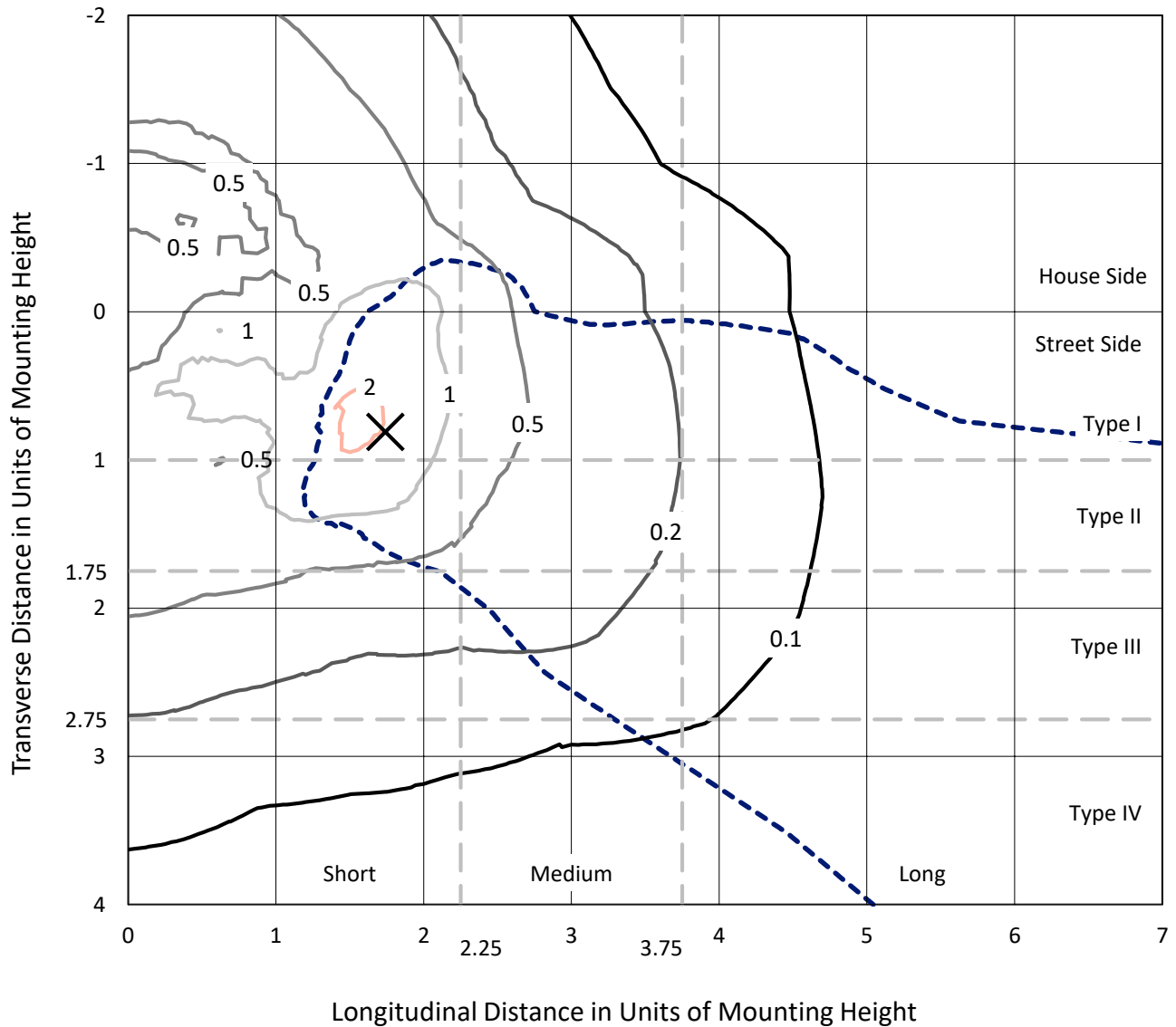


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

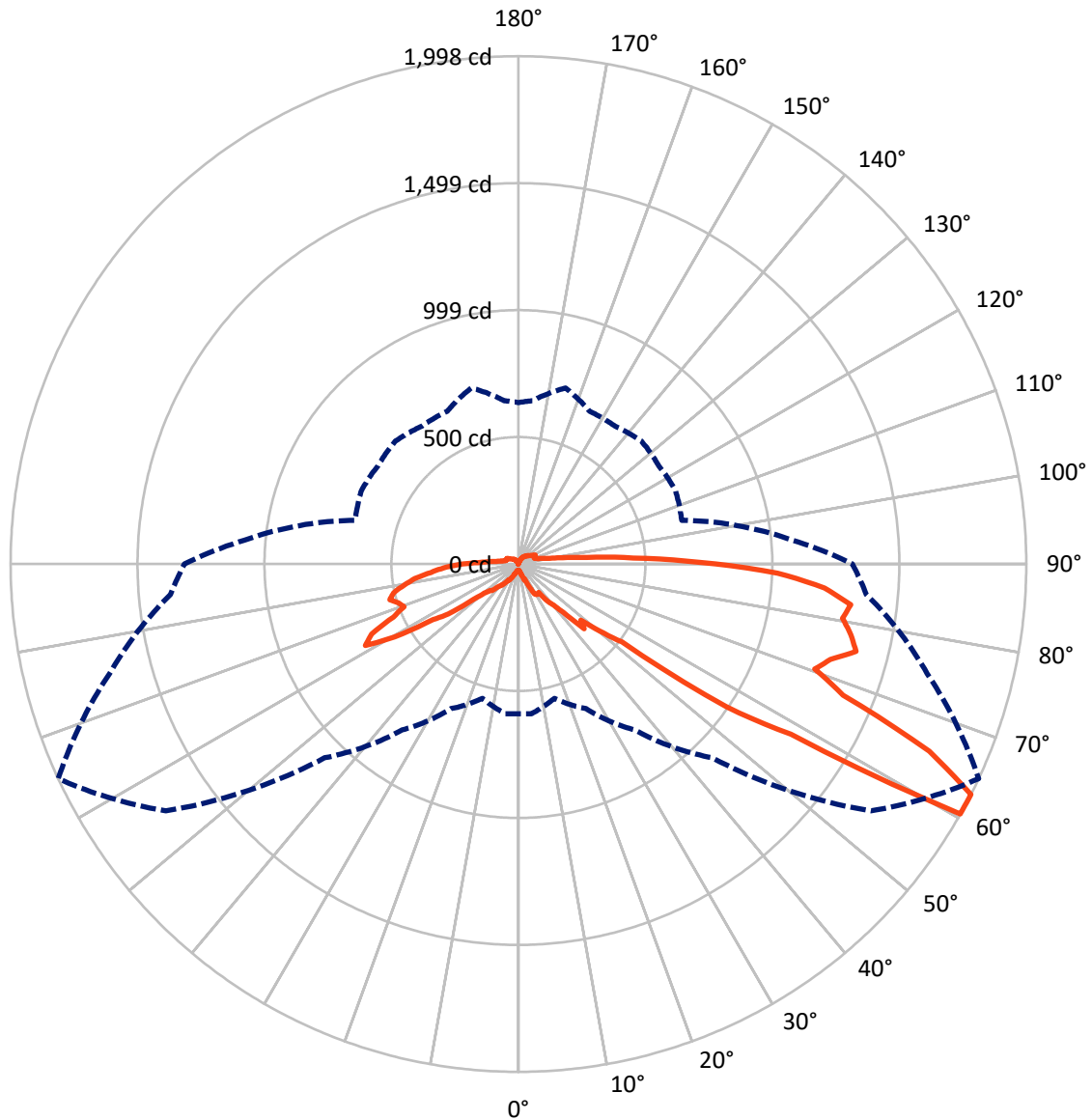


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - Non-Cutoff

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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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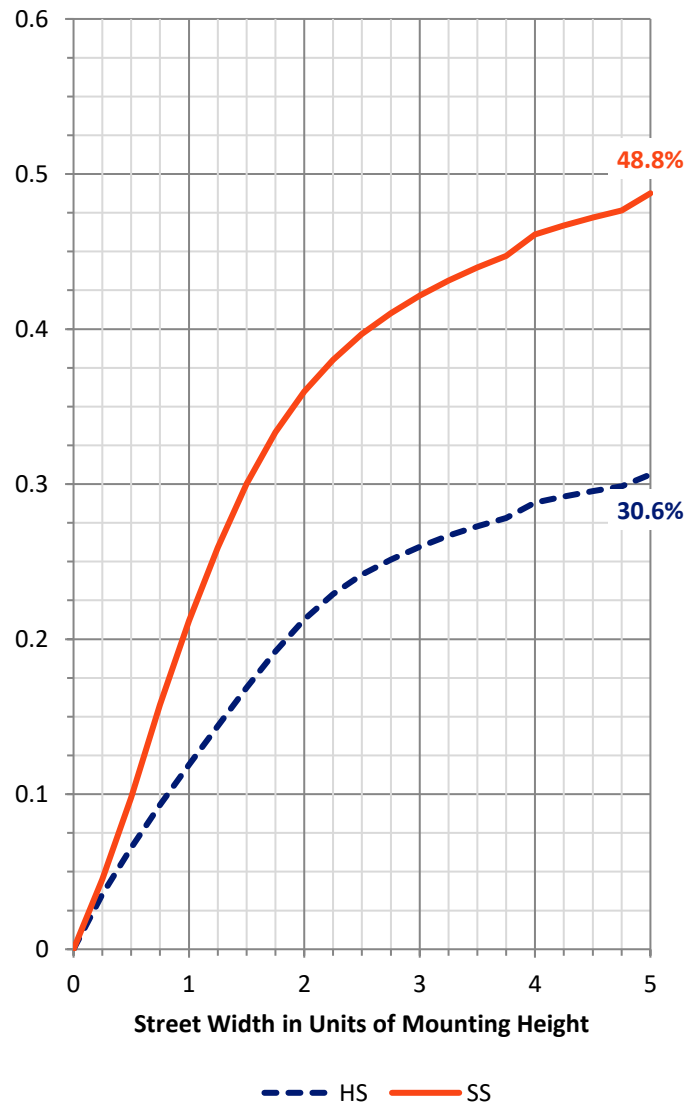
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1125.8	167.3	1293.1
	% Fixture	33.6	5.0	38.6
Street Side	Lumens	1814.8	245.5	2060.4
	% Fixture	54.1	7.3	61.4
Total	Lumens	2940.6	412.8	3353.4
	% Fixture	87.7	12.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.1
10°-20°	11.2	0.3
20°-30°	37.5	1.1
30°-40°	85.2	2.5
40°-50°	160.5	4.8
50°-60°	440.7	13.1
60°-70°	849.1	25.3
70°-80°	751.0	22.4
80°-90°	602.9	18.0
90°-100°	201.8	6.0
100°-110°	68.1	2.0
110°-120°	56.1	1.7
120°-130°	37.4	1.1
130°-140°	25.8	0.8
140°-150°	15.5	0.5
150°-160°	6.6	0.2
160°-170°	1.6	0.0
170°-180°	0.1	0.0
0°-90°	2940.6	87.7
0°-180°	3353.4	100.0



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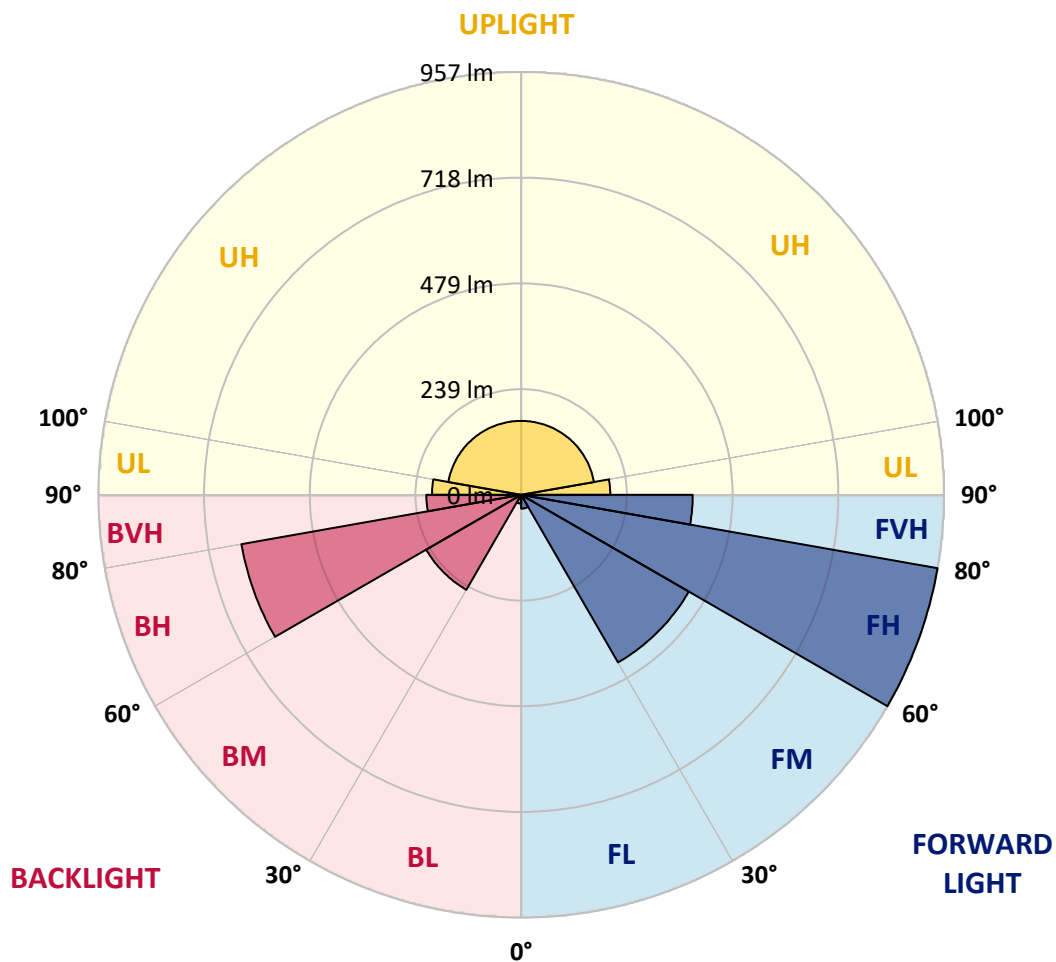
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	31.4	0.9			
FM (30°-60°)	438.1	13.1			
FH (60°-80°)	957.0	28.5			G1/1800
FVH (80°-90°)	388.3	11.6			G3/500
BL (0°-30°)	19.9	0.6	B0/110		
BM (30°-60°)	248.3	7.4	B1/1000		
BH (60°-80°)	643.1	19.2	B2/1000		G2/1000
BVH (80°-90°)	214.6	6.4			G2/225
UL (90°-100°)	201.8	6.0		U3/500	
UH (100°-180°)	167.3	5.0		U3/500	

BUG Rating: B2-U3-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	24	24	24	24	24	24	24	24	24	24	24
2.5°	25	25	25	25	25	24	24	24	24	24	24
5°	26	26	26	26	26	26	25	25	25	25	25
7.5°	28	28	28	28	28	28	29	28	28	27	27
10°	33	32	34	33	32	32	32	32	31	30	30
12.5°	41	40	37	37	37	36	37	37	35	33	32
15°	41	41	40	40	40	39	42	44	41	37	35
17.5°	44	44	44	45	46	46	49	53	51	44	41
20°	55	55	56	57	65	69	72	67	76	63	58
22.5°	58	60	70	76	73	61	60	63	69	62	58
25°	68	71	74	79	80	92	107	100	96	69	62
27.5°	106	110	124	135	151	149	134	132	145	118	100
30°	116	122	160	172	201	192	152	139	189	155	126
32.5°	128	131	164	161	187	200	180	142	177	152	123
35°	107	110	137	133	140	227	202	137	144	124	106
37.5°	142	142	151	149	174	324	284	185	151	143	123
40°	152	154	185	209	209	358	310	213	187	197	160
42.5°	202	202	220	243	240	308	372	260	220	253	203
45°	196	201	216	216	216	312	475	363	244	278	228
47.5°	184	192	228	261	226	231	435	330	247	314	258
50°	189	193	219	189	163	256	481	414	278	278	226
52.5°	241	247	249	265	254	332	533	509	402	351	284
55°	374	375	400	449	475	660	819	992	817	704	553
57.5°	425	423	446	574	637	783	907	1264	1202	1145	929
60°	563	560	534	600	715	1077	1522	1997	1525	1297	1137
62.5°	589	591	547	628	797	1078	1693	1998	1665	1374	1314
65°	601	581	522	575	628	885	1657	1776	1555	1198	1296
67.5°	579	559	505	564	623	871	1405	1378	1449	1222	1197
70°	482	476	437	470	522	758	1201	1237	1332	1104	995
72.5°	495	480	437	464	544	753	1186	1283	1293	1083	948
75°	541	529	489	533	615	797	1268	1372	1282	1100	972
77.5°	533	522	490	519	595	739	1207	1337	1248	1041	964
80°	517	508	462	469	555	673	1149	1293	1186	931	896
82.5°	485	472	446	483	620	705	1158	1317	1165	947	898
85°	443	431	441	454	605	628	1030	1208	1154	928	871
87.5°	388	368	378	370	473	475	806	1020	1042	842	742
90°	325	297	305	289	370	361	611	715	713	563	473
92.5°	292	253	250	226	271	263	426	452	414	306	261
95°	198	177	179	168	186	185	275	271	252	197	173
97.5°	138	131	129	119	131	133	186	176	166	131	117
100°	98	96	93	86	88	93	123	125	119	98	88
102.5°	76	75	72	67	67	70	91	96	92	77	69
105°	66	65	62	58	57	60	76	80	76	65	60
107.5°	60	60	56	53	52	54	68	71	70	61	57
110°	56	56	52	49	49	51	64	66	64	59	57



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	52	52	50	48	48	52	63	67	65	62	60
115°	49	48	47	47	48	55	68	73	68	61	60
117.5°	48	48	47	46	45	52	68	75	71	64	58
120°	47	46	43	42	41	47	60	68	63	56	56
122.5°	41	40	39	38	38	44	55	62	58	54	55
125°	37	37	36	36	36	43	52	56	55	52	52
127.5°	35	35	34	34	35	43	53	53	52	47	47
130°	35	34	33	34	35	43	51	50	48	45	46
132.5°	33	33	32	32	32	41	48	49	48	44	45
135°	32	32	31	32	33	41	46	45	44	40	40
137.5°	30	30	29	30	32	38	42	42	40	37	36
140°	29	29	28	29	31	36	39	39	37	35	33
142.5°	27	27	27	28	30	33	36	37	34	33	31
145°	26	26	26	27	28	29	33	33	31	31	29
147.5°	25	25	25	25	25	26	29	29	29	29	26
150°	22	22	22	21	21	21	25	25	25	24	22
152.5°	19	19	18	18	17	18	20	21	21	20	18
155°	16	16	16	16	15	15	17	18	18	17	16
157.5°	13	13	13	13	13	13	14	15	15	15	14
160°	12	12	12	11	11	11	11	12	13	13	12
162.5°	9	8	8	8	8	7	8	9	9	9	9
165°	6	6	5	5	5	5	5	6	6	7	7
167.5°	4	4	4	4	3	3	4	4	4	4	4
170°	2	2	2	2	2	1	1	1	1	2	1
172.5°	1	1	1	1	1	0	0	0	0	0	0
175°	0	1	1	1	1	0	0	0	0	0	0
177.5°	1	0	1	1	0	0	0	0	0	0	0
180°	1	1	1	1	1	1	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	24	24	24	24	24	24	24	24	24	24
2.5°	24	24	24	24	24	24	24	24	24	24
5°	25	25	25	24	24	24	24	25	24	25
7.5°	26	26	25	25	24	25	25	25	25	25
10°	29	29	27	26	26	27	27	27	27	27
12.5°	32	31	30	29	28	29	30	30	30	31
15°	35	33	33	32	32	32	33	34	34	34
17.5°	40	37	36	36	36	37	37	38	38	38
20°	51	44	42	42	41	42	42	43	43	43
22.5°	55	48	44	44	45	47	48	48	48	48
25°	59	54	54	54	54	53	54	53	56	56
27.5°	82	66	64	63	65	69	69	69	67	66
30°	98	76	71	71	76	83	86	86	82	81
32.5°	95	77	76	80	87	90	91	96	95	98
35°	88	82	87	91	94	89	87	95	99	102
37.5°	102	94	101	101	97	97	100	107	110	114
40°	127	108	110	109	115	118	128	126	115	113
42.5°	156	119	120	125	134	144	149	134	132	133
45°	169	141	145	155	155	155	148	152	158	157
47.5°	198	153	153	147	161	173	164	155	155	152
50°	177	158	176	181	169	153	151	161	175	181
52.5°	222	198	226	219	217	207	206	207	213	211
55°	395	308	339	338	342	357	351	332	315	325
57.5°	620	356	401	423	480	485	477	430	387	391
60°	838	472	565	634	613	588	554	545	589	623
62.5°	1081	665	682	674	684	662	663	717	645	635
65°	1233	697	640	647	641	692	775	718	650	642
67.5°	1116	618	534	548	602	704	727	629	570	557
70°	933	543	480	505	580	577	600	541	518	509
72.5°	922	559	496	517	509	520	565	559	550	543
75°	977	584	525	522	498	503	550	572	577	570
77.5°	970	560	504	505	493	487	511	540	558	561
80°	863	498	458	464	459	452	465	492	519	526
82.5°	823	441	411	414	417	421	427	444	460	466
85°	722	368	346	338	345	351	359	366	375	375
87.5°	570	313	295	285	279	277	277	279	278	274
90°	372	238	234	224	212	206	200	198	195	195
92.5°	227	160	159	154	150	146	144	145	144	144
95°	159	115	115	112	112	113	112	114	113	114
97.5°	110	86	85	84	84	87	88	89	89	89
100°	85	69	69	67	67	69	70	71	71	70
102.5°	69	59	60	58	57	59	60	61	60	61
105°	61	53	53	53	52	54	55	55	55	55
107.5°	57	50	50	51	51	52	54	54	53	53
110°	57	49	49	50	51	53	56	56	56	55



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	58	48	50	56	57	61	64	65	65	64
115°	56	46	50	60	65	68	71	74	76	76
117.5°	57	44	50	61	63	61	60	59	59	59
120°	57	41	42	44	43	43	43	44	42	42
122.5°	55	37	37	38	38	39	39	39	38	39
125°	49	35	34	35	35	36	37	37	36	36
127.5°	45	33	32	33	34	34	34	34	33	33
130°	44	31	31	31	32	32	32	31	30	30
132.5°	41	30	29	29	30	30	30	29	28	28
135°	38	29	27	28	28	28	28	27	27	27
137.5°	34	27	25	25	25	26	25	25	24	25
140°	30	24	23	23	23	24	23	23	22	22
142.5°	28	22	21	21	21	22	21	21	20	20
145°	27	21	19	20	19	20	19	19	18	18
147.5°	24	19	17	17	17	17	17	17	16	16
150°	20	16	15	15	15	15	14	14	13	13
152.5°	17	13	13	12	12	12	12	12	11	11
155°	15	12	11	11	10	11	11	10	10	10
157.5°	13	11	9	9	8	9	9	9	8	9
160°	11	9	8	8	7	8	7	7	7	7
162.5°	9	7	6	5	5	5	5	5	5	5
165°	6	5	4	4	3	3	3	4	3	4
167.5°	4	4	3	3	2	3	3	3	2	3
170°	1	1	1	1	0	1	1	1	1	1
172.5°	0	0	0	0	0	1	1	1	1	1
175°	0	0	0	0	0	1	1	1	1	1
177.5°	0	0	0	0	0	1	1	1	0	1
180°	1	1	1	1	1	1	1	1	1	1

(END OF REPORT)