

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: 175p270

Luminaire Tested: **ARC050650LEDEU33-HS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 175p270
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC050650LEDEU33-HS
Description: LED POST TOP TYPE 3 NO CAGE
WITH THREE LED'S ILLUMINATED ON STREET SIDE
Light Source: 6 LED UNIT, 5000CCT, 65CRI
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1793.7 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Luminous Opening: Rectangular (W 1.23' x L: 1.02' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 29.9
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

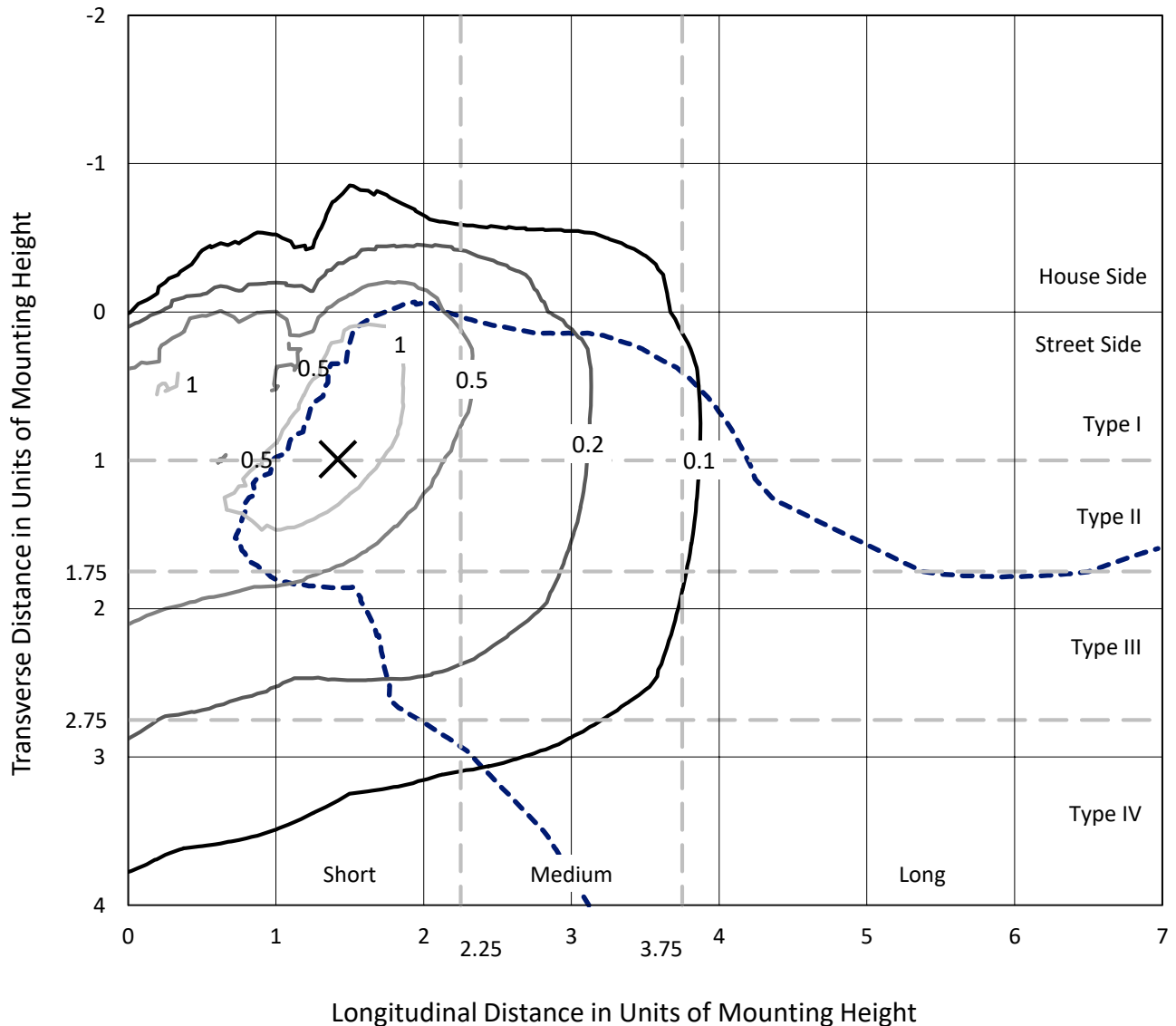


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

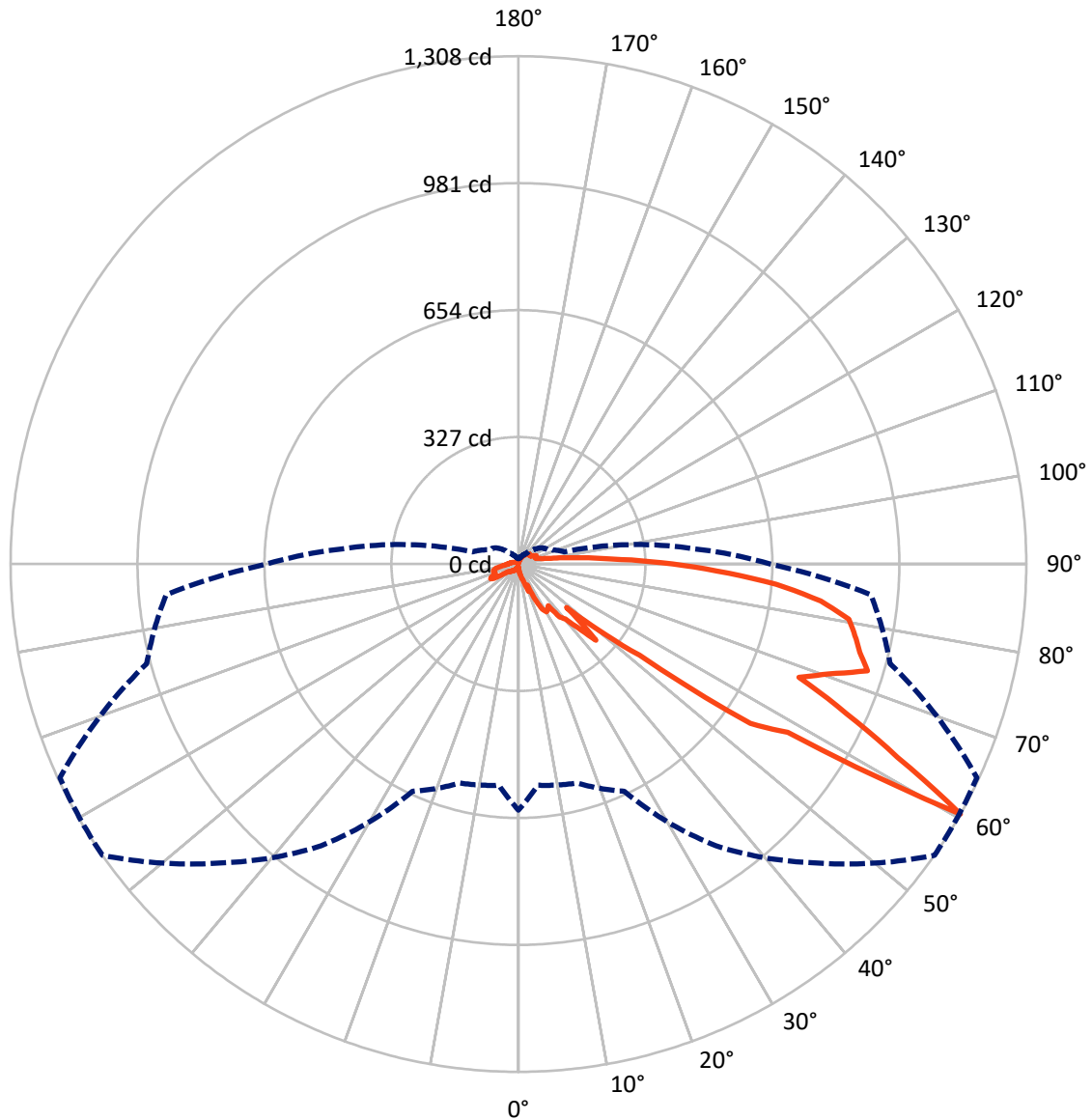


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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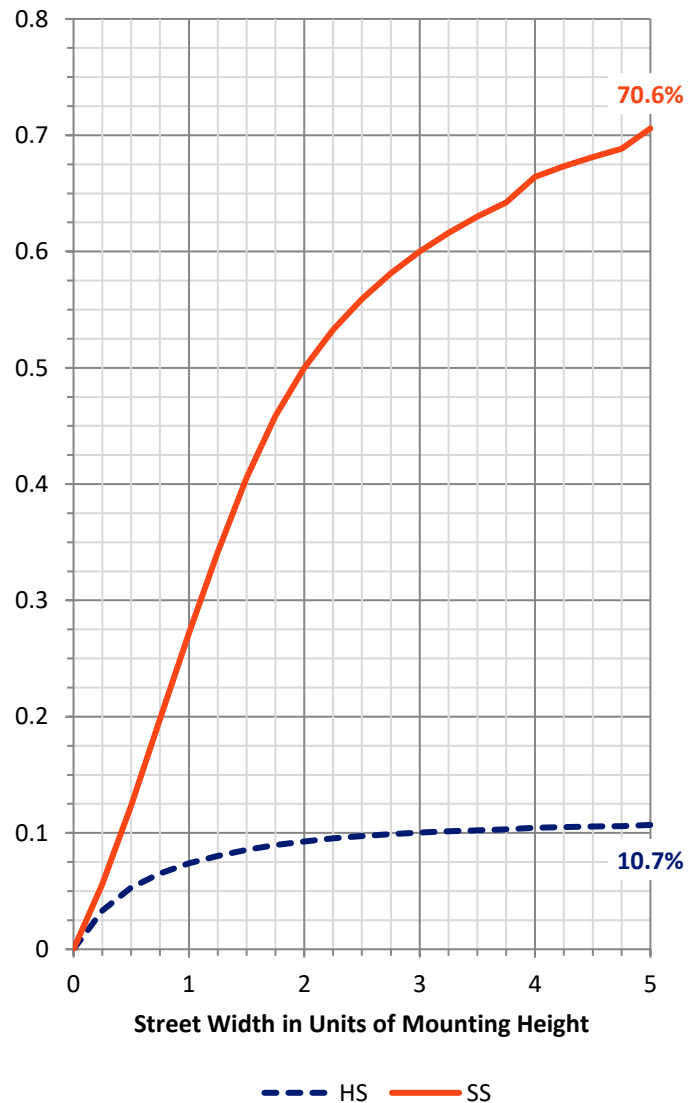
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	199.9	37.1	237.0
	% Fixture	11.1	2.1	13.2
Street Side	Lumens	1393.4	163.3	1556.7
	% Fixture	77.7	9.1	86.8
Total	Lumens	1593.4	200.4	1793.7
	% Fixture	88.8	11.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.1
10°-20°	7.8	0.4
20°-30°	25.6	1.4
30°-40°	51.6	2.9
40°-50°	88.6	4.9
50°-60°	271.8	15.2
60°-70°	439.8	24.5
70°-80°	406.5	22.7
80°-90°	300.2	16.7
90°-100°	89.1	5.0
100°-110°	34.0	1.9
110°-120°	27.1	1.5
120°-130°	20.1	1.1
130°-140°	14.8	0.8
140°-150°	9.5	0.5
150°-160°	4.5	0.3
160°-170°	1.2	0.1
170°-180°	0.0	0.0
0°-90°	1593.4	88.8
0°-180°	1793.7	100.0

Coefficient of Utilization



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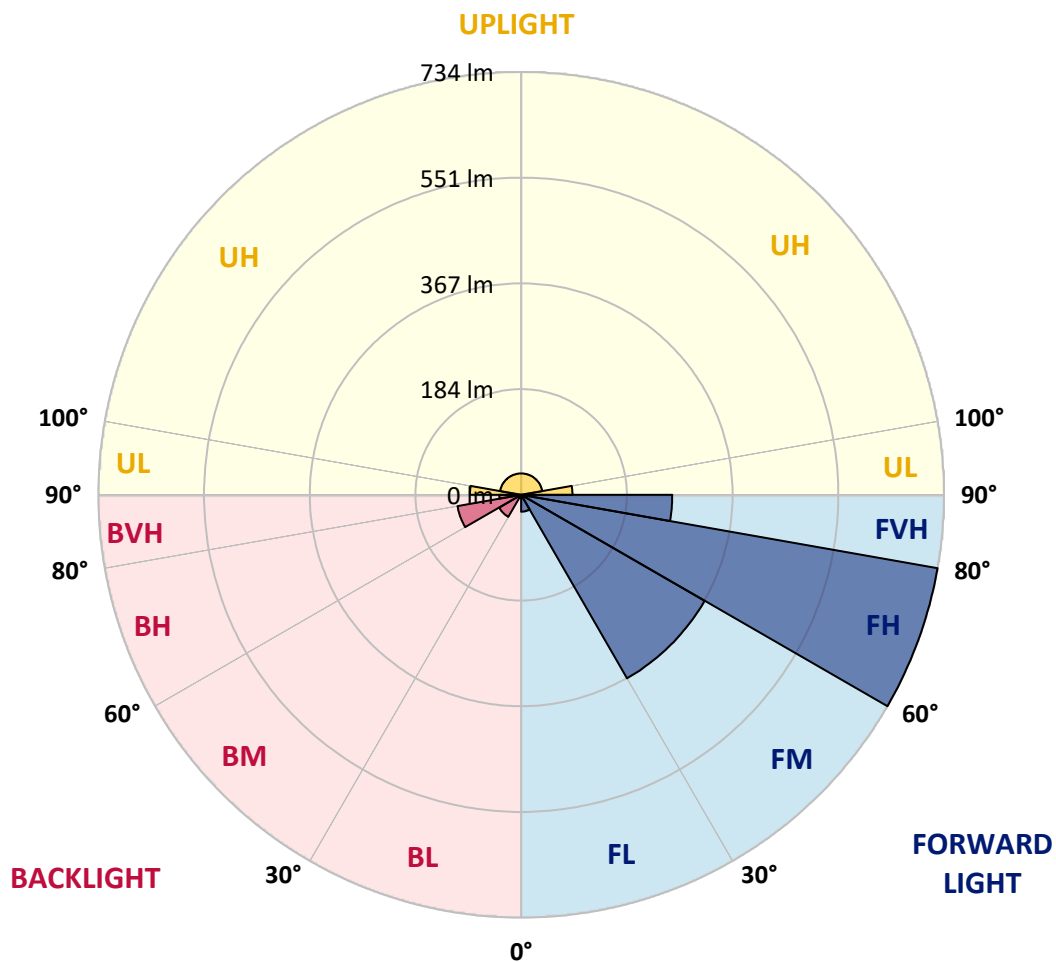
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	29.3	1.6			
FM (30°-60°)	367.8	20.5			
FH (60°-80°)	734.0	40.9			G1/1800
FVH (80°-90°)	262.3	14.6			G3/500
BL (0°-30°)	5.5	0.3	B0/110		
BM (30°-60°)	44.2	2.5	B0/220		
BH (60°-80°)	112.3	6.3	B1/500		G1/500
BVH (80°-90°)	37.9	2.1			G1/100
UL (90°-100°)	89.1	5.0		U3/500	
UH (100°-180°)	37.1	2.1		U2/50	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9	9	9	9	9	9	9	9	9	9	9
2.5°	13	13	13	13	13	12	12	11	11	10	10
5°	19	19	19	19	19	18	17	16	14	13	12
7.5°	24	24	25	25	25	25	24	23	20	18	17
10°	35	35	35	34	33	30	29	27	24	21	19
12.5°	43	42	41	38	38	36	37	33	29	24	23
15°	45	45	43	40	39	39	42	39	36	27	24
17.5°	49	49	49	49	51	51	54	53	52	41	33
20°	58	61	61	58	62	70	75	67	67	48	40
22.5°	60	61	69	74	69	60	59	65	52	41	36
25°	72	73	73	80	75	87	103	87	81	54	41
27.5°	112	112	130	136	139	131	132	125	127	93	68
30°	121	123	158	175	167	183	143	122	149	123	90
32.5°	131	137	160	159	149	170	140	124	147	111	83
35°	108	116	132	121	106	135	132	121	120	81	63
37.5°	145	154	156	155	149	163	173	150	144	102	79
40°	158	165	192	204	198	221	186	144	187	135	103
42.5°	195	204	209	246	232	237	223	171	206	172	130
45°	226	226	223	207	216	280	280	210	229	179	143
47.5°	163	169	199	240	198	181	167	134	142	165	145
50°	211	203	219	187	171	204	266	202	163	141	115
52.5°	279	267	292	308	313	360	390	433	345	240	166
55°	423	380	439	532	646	731	725	737	685	538	367
57.5°	572	498	537	590	698	836	818	788	680	704	534
60°	634	572	584	646	886	1089	1308	1303	991	911	648
62.5°	637	579	552	598	847	986	1096	1198	1020	944	739
65°	633	569	558	576	689	838	928	1001	1019	870	653
67.5°	543	499	499	503	602	702	779	800	859	791	563
70°	551	493	482	480	601	765	847	829	775	733	534
72.5°	595	528	529	533	664	841	940	874	774	712	585
75°	599	537	538	505	603	776	908	824	740	643	545
77.5°	538	484	478	468	590	749	886	761	638	583	510
80°	528	464	486	483	624	757	863	741	611	589	516
82.5°	466	411	457	435	549	656	785	738	674	611	496
85°	378	324	357	342	434	502	666	684	637	563	425
87.5°	341	277	294	258	321	383	511	560	515	407	299
90°	262	208	211	188	223	272	368	393	333	229	163
92.5°	167	143	150	122	152	186	240	221	184	136	107
95°	122	109	111	96	110	134	166	147	125	97	80
97.5°	89	83	83	73	79	95	115	104	92	73	61
100°	68	64	63	56	59	69	78	77	69	56	47
102.5°	59	56	54	48	48	53	62	59	52	44	37
105°	54	52	49	43	43	47	53	49	44	38	33
107.5°	51	49	46	41	41	43	47	44	42	37	32
110°	49	47	46	41	42	44	47	43	41	38	33



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	47	46	47	45	47	53	50	47	41	42	35
115°	47	45	45	42	44	50	51	46	41	42	33
117.5°	44	42	39	37	39	42	47	47	45	40	31
120°	40	38	37	35	37	38	40	44	42	37	30
122.5°	36	36	36	34	36	36	38	44	39	40	33
125°	35	34	34	33	35	33	37	41	37	39	33
127.5°	33	32	32	31	31	33	36	40	35	35	31
130°	33	32	31	31	32	33	38	38	33	34	29
132.5°	31	31	31	30	29	32	38	39	35	34	30
135°	30	29	29	29	28	32	36	37	32	31	26
137.5°	29	29	28	28	26	31	34	36	31	28	24
140°	28	28	27	26	25	29	31	33	28	26	22
142.5°	27	26	26	25	24	28	30	32	27	25	21
145°	25	24	25	24	23	25	28	29	26	24	20
147.5°	23	23	23	22	22	23	27	27	25	22	18
150°	21	21	20	20	19	20	25	24	22	19	16
152.5°	17	18	17	17	17	18	21	20	19	15	13
155°	15	15	15	14	15	15	17	17	17	13	11
157.5°	13	13	13	13	13	14	15	15	15	12	10
160°	11	11	11	11	10	11	12	12	12	10	9
162.5°	8	8	8	8	8	8	9	10	10	8	7
165°	6	6	6	6	5	6	7	7	7	6	6
167.5°	4	4	4	4	4	4	4	5	4	3	4
170°	2	2	2	2	2	2	2	3	2	2	2
172.5°	1	1	1	1	1	1	0	0	0	0	0
175°	1	0	1	1	1	0	0	0	0	0	0
177.5°	0	0	1	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°	9	9	9	9	9	9	9	9	9	9
2.5°	10	9	8	7	7	6	5	4	4	4
5°	11	9	7	6	5	4	3	2	2	2
7.5°	16	13	10	7	6	4	3	3	3	3
10°	18	15	12	10	7	6	4	3	3	3
12.5°	20	17	14	11	8	6	5	5	4	4
15°	22	17	14	12	9	7	6	5	5	4
17.5°	27	19	15	12	10	8	6	5	5	5
20°	32	21	16	13	10	8	6	5	5	5
22.5°	31	23	17	13	11	9	7	6	5	6
25°	33	20	17	14	12	9	7	6	6	6
27.5°	49	25	17	14	12	10	7	6	6	5
30°	60	31	20	16	12	10	8	6	6	6
32.5°	54	31	23	19	13	11	8	7	6	6
35°	45	30	23	21	16	11	9	7	6	6
37.5°	54	28	24	21	17	14	10	8	7	6
40°	67	33	25	21	18	15	11	8	7	7
42.5°	80	36	29	23	18	15	12	9	7	7
45°	85	40	33	26	20	15	13	10	8	8
47.5°	95	43	35	29	23	17	13	11	9	8
50°	77	40	37	31	24	18	14	11	10	9
52.5°	98	47	38	32	27	20	16	12	11	11
55°	200	67	48	36	27	23	18	13	12	12
57.5°	335	98	72	49	33	24	20	15	13	13
60°	453	122	86	73	50	32	23	18	14	14
62.5°	540	140	98	81	67	50	31	22	17	16
65°	555	142	90	77	66	55	40	24	19	18
67.5°	492	135	82	65	54	45	36	27	18	17
70°	486	133	81	64	52	40	31	25	21	19
72.5°	567	145	83	67	52	40	27	20	20	21
75°	522	140	83	67	51	38	25	18	18	18
77.5°	477	132	81	63	48	34	22	18	17	16
80°	484	132	79	59	41	28	20	16	15	15
82.5°	441	115	69	48	33	23	18	15	14	14
85°	355	92	54	37	26	21	17	13	12	12
87.5°	230	66	41	32	24	19	16	13	12	12
90°	128	45	33	28	22	18	14	13	12	12
92.5°	91	38	30	26	21	18	15	13	12	12
95°	71	33	27	23	19	16	14	12	11	11
97.5°	56	29	25	21	17	15	12	11	10	10
100°	44	27	23	20	16	13	11	9	9	9
102.5°	36	23	21	18	14	11	9	7	7	7
105°	31	21	20	16	12	10	8	6	6	6
107.5°	30	20	18	15	11	9	7	6	5	5
110°	30	19	16	13	10	8	6	5	4	4



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	32	18	15	12	9	7	6	5	4	4
115°	29	16	13	11	9	7	5	4	4	4
117.5°	28	15	12	10	8	6	5	4	3	4
120°	30	15	11	9	7	6	4	4	3	3
122.5°	30	14	11	9	7	6	4	3	3	3
125°	26	13	10	8	6	5	4	4	3	3
127.5°	24	12	9	7	6	5	4	3	3	2
130°	24	12	8	6	5	4	3	3	2	2
132.5°	24	12	8	6	5	4	3	2	2	2
135°	22	11	7	5	4	4	3	2	2	1
137.5°	20	11	7	5	4	3	3	2	1	2
140°	18	11	6	4	3	3	2	1	1	1
142.5°	17	10	6	4	4	3	2	2	2	2
145°	16	9	5	4	3	3	2	1	1	1
147.5°	15	8	5	4	3	3	2	1	1	1
150°	13	8	5	4	3	3	2	1	1	1
152.5°	11	7	4	3	3	2	2	1	1	1
155°	9	6	4	3	2	2	1	1	1	1
157.5°	9	6	4	3	2	2	1	1	1	1
160°	7	5	3	2	2	1	1	0	1	1
162.5°	6	4	3	2	2	1	1	0	0	0
165°	5	3	2	2	1	1	0	1	0	1
167.5°	3	3	2	1	0	0	0	0	0	0
170°	2	1	1	1	1	1	0	0	1	0
172.5°	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	1	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)