

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: H39503

Luminaire Tested: **ACN15SXX3C1XXC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H39503
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN15SXX3C1XXC
Description: STREETWORKS CLASSIC ACN TYPE 3 CUT OFF POST TOP
WITH CLASSICAL CAGE, COPPER FINISH DECORATIVE CHIMNEY, ACRYLIC GLOBE
AND TYPE THREE REFLECTOR INSERT
Light Source: MOGUL BASE E23.5 CLEAR HIGH PRESSURE SODIUM LAMP
LU150/U 150 WATTS
Ballast/Driver: -

Summary

Lumens per Lamp: 16000 (1 lamp)
Luminaire Lumens: 9044.2 lumens
Efficiency: 56.5%
Efficacy: 60.3 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B3 - U2 - G1

Input Watts (W): 150
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

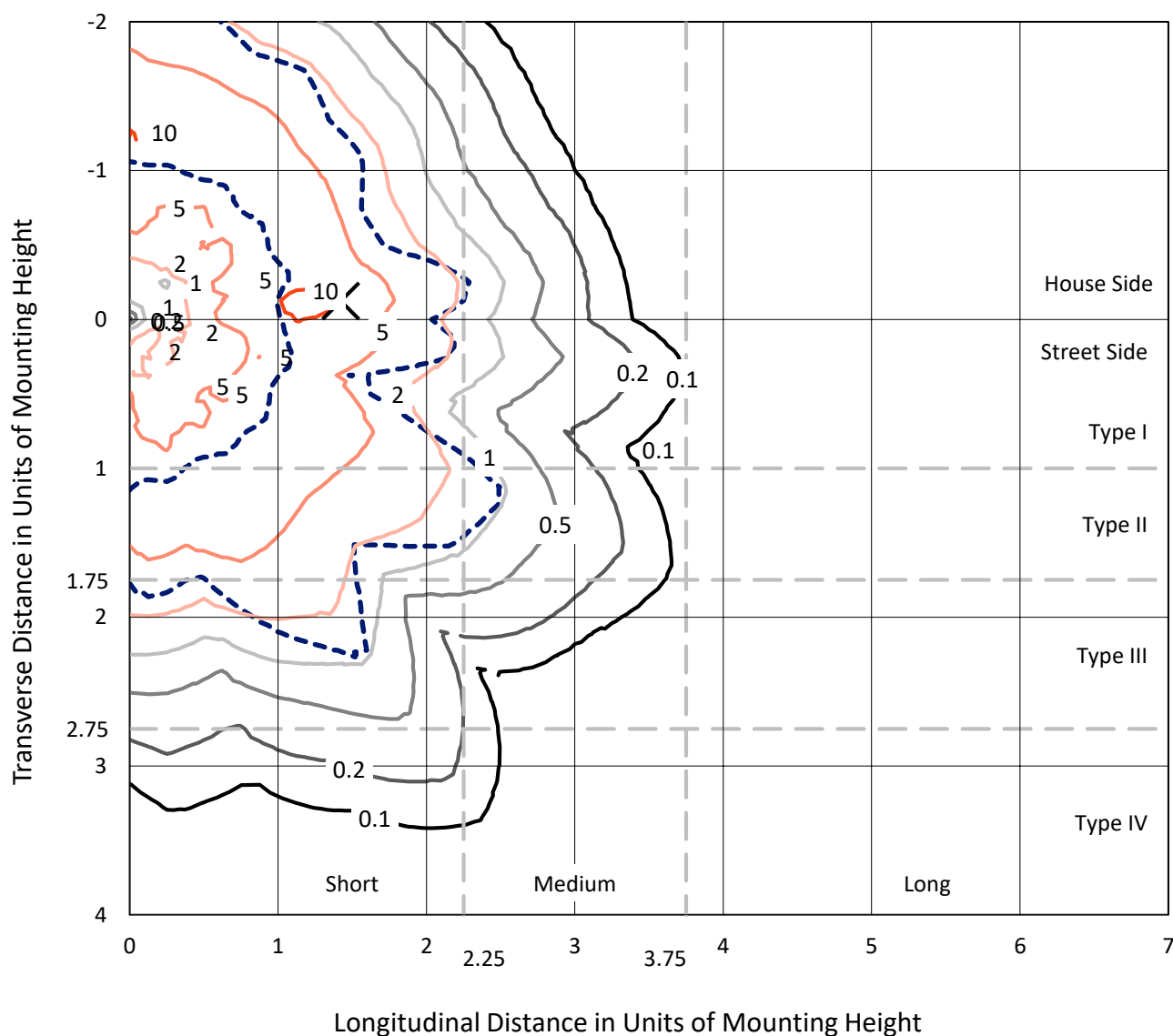


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

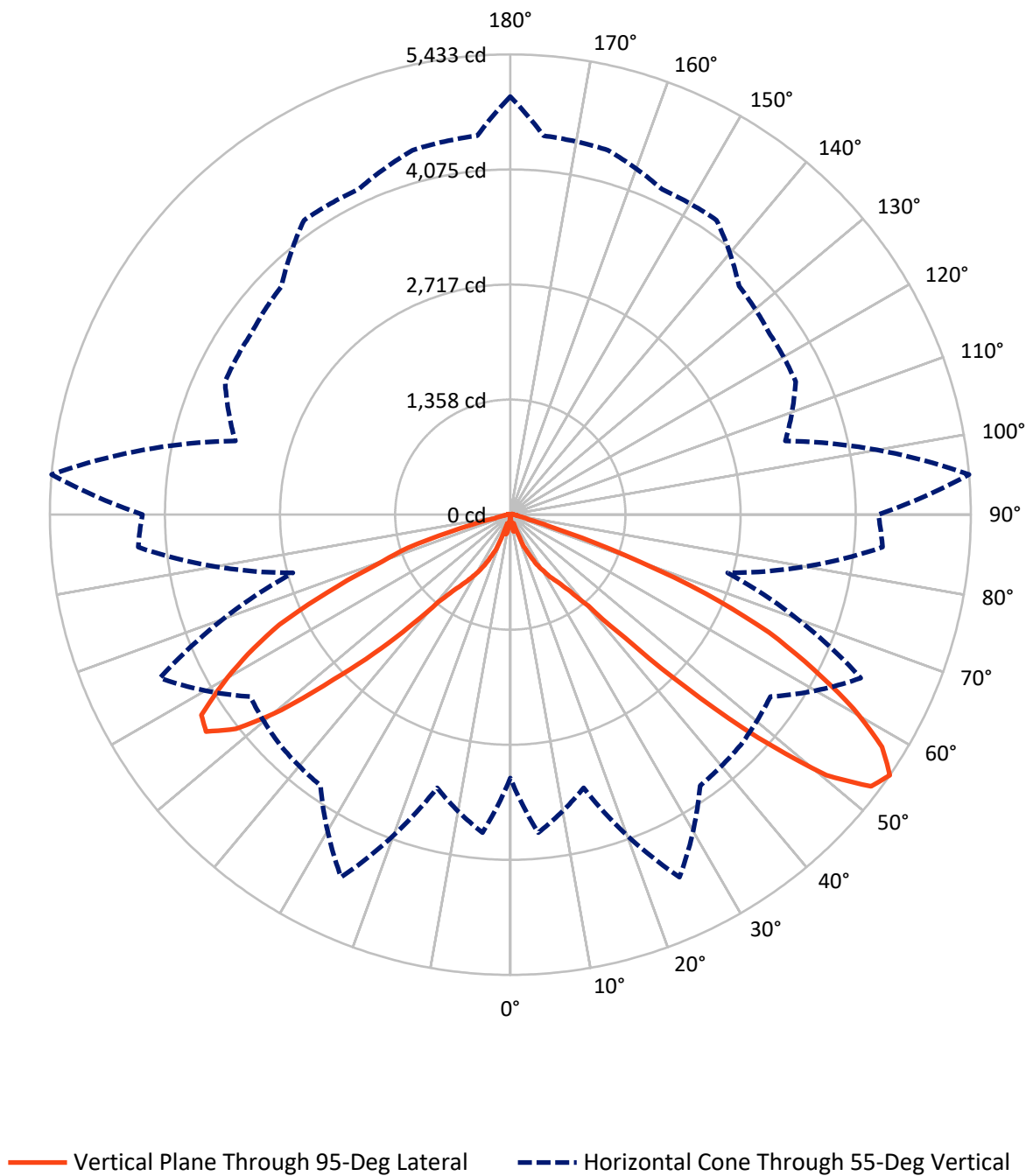


Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



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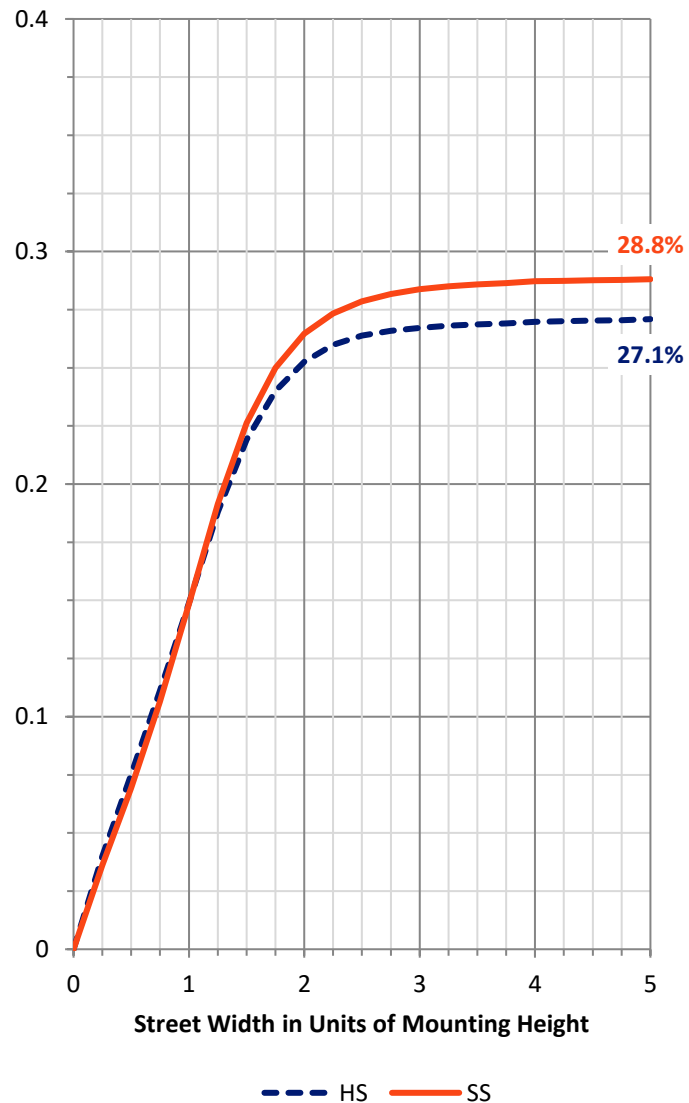
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4357.4	33.1	4390.5
	% Lamp	27.2	0.2	27.4
Street Side	Lumens	4625.0	28.7	4653.7
	% Lamp	28.9	0.2	29.1
Total	Lumens	8982.4	61.8	9044.2
	% Lamp	56.1	0.4	56.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	11.3	0.1	0.1
10°-20°	46.5	0.5	0.3
20°-30°	212.4	2.3	1.3
30°-40°	547.3	6.1	3.4
40°-50°	1731.2	19.1	10.8
50°-60°	3425.0	37.9	21.4
60°-70°	2434.0	26.9	15.2
70°-80°	508.1	5.6	3.2
80°-90°	66.5	0.7	0.4
90°-100°	31.9	0.4	0.2
100°-110°	19.7	0.2	0.1
110°-120°	6.8	0.1	0.0
120°-130°	2.1	0.0	0.0
130°-140°	0.7	0.0	0.0
140°-150°	0.5	0.0	0.0
150°-160°	0.1	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	8982.4	99.3	56.1
0°-180°	9044.2	100.0	56.5

Coefficient of Utilization



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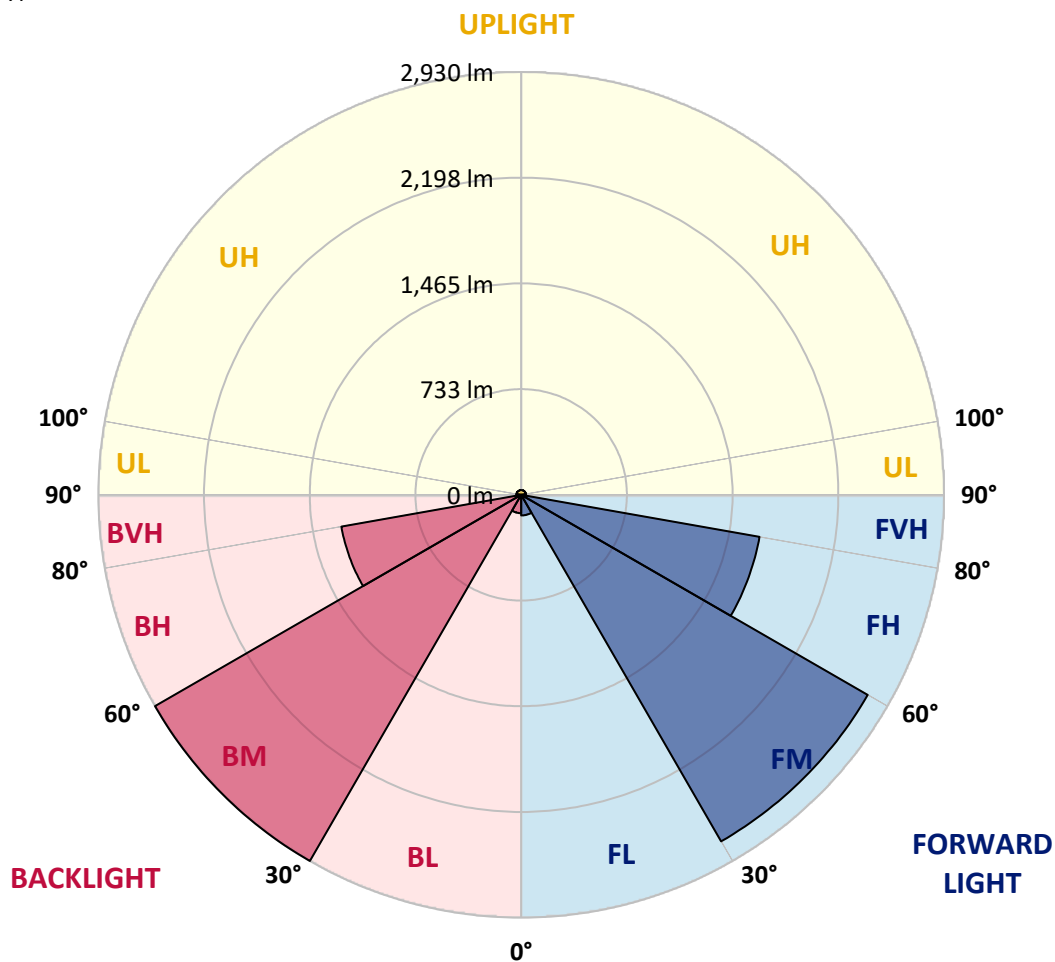
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	143.2	0.9			
FM	(30°-60°)	2773.1	17.3			
FH	(60°-80°)	1677.0	10.5			G1/1800
FVH	(80°-90°)	31.7	0.2			G1/100
BL	(0°-30°)	127.1	0.8	B1/500		
BM	(30°-60°)	2930.4	18.3	B3/5000		
BH	(60°-80°)	1265.1	7.9	B3/2500		G1/1800
BVH	(80°-90°)	34.8	0.2			G1/100
UL	(90°-100°)	31.9	0.2		U2/50	
UH	(100°-180°)	33.1	0.2		U2/50	
Trapped Light		6955.8	43.5			

BUG Rating: B3-U2-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11	11	11	11	11	11	11	11	11	11	11
2.5°	12	12	12	12	11	10	10	10	11	12	13
5°	81	83	81	72	64	61	59	55	51	56	60
7.5°	199	203	204	183	182	162	148	146	143	134	132
10°	290	277	255	256	263	264	264	240	234	209	206
12.5°	280	280	276	278	240	254	275	262	244	237	213
15°	251	237	252	221	204	170	188	201	190	177	158
17.5°	161	167	189	158	152	137	124	143	141	111	107
20°	135	130	136	126	141	132	129	136	127	115	108
22.5°	648	538	289	274	373	444	390	355	367	423	432
25°	665	647	346	331	485	539	458	416	434	535	537
27.5°	763	730	405	643	523	635	513	661	484	665	645
30°	864	819	466	760	570	733	559	773	527	781	785
32.5°	900	893	523	842	620	863	595	865	587	888	887
35°	1004	1000	591	991	676	981	643	978	651	998	1013
37.5°	1071	1072	665	1063	741	1066	698	1092	701	1127	1171
40°	1222	1228	817	1257	885	1210	830	1307	844	1340	1411
42.5°	1637	1614	1189	1791	1276	1658	1150	1772	1206	1778	1868
45°	2085	2171	1794	2472	1945	2190	1732	2342	1861	2298	2522
47.5°	2467	2811	2532	3190	2609	2727	2447	3046	2522	2851	3261
50°	2884	3354	3038	3849	3123	3165	3129	3618	2844	3552	3799
52.5°	3059	3637	3289	4313	3524	3559	3545	4117	2807	4108	4184
55°	3109	3769	3338	4722	3904	3844	3746	4563	2655	4408	4342
57.5°	2944	3652	3145	4836	4136	3901	3994	4695	2460	4346	4122
60°	2769	3258	2735	4544	4195	3751	4075	4653	2058	3942	3599
62.5°	2368	2545	2145	3936	4082	3318	4059	4208	1678	3504	2999
65°	1746	1762	1445	3145	3885	2677	3929	3759	1316	3018	2391
67.5°	1150	1189	927	2405	3542	1798	3312	3429	994	2338	1780
70°	585	698	539	1501	2783	764	2460	2813	731	1679	1136
72.5°	323	470	383	871	2188	471	1467	1902	532	1274	588
75°	187	311	250	476	1231	258	555	1015	348	621	238
77.5°	96	120	117	171	355	178	259	301	184	182	134
80°	69	73	81	87	144	100	113	139	120	123	94
82.5°	54	52	52	60	73	73	75	79	74	79	72
85°	46	46	45	47	49	57	57	64	53	56	57
87.5°	39	39	39	34	37	45	45	50	42	42	43
90°	31	31	32	27	29	34	34	37	33	34	36
92.5°	30	28	29	25	25	30	29	33	29	32	35
95°	30	27	28	25	24	28	27	32	27	32	34
97.5°	26	26	27	22	21	26	24	30	23	29	31
100°	23	23	23	19	18	22	20	25	20	26	27
102.5°	20	19	20	17	15	19	16	22	17	22	24
105°	18	18	18	16	14	17	14	21	15	20	22
107.5°	17	17	16	15	12	16	13	20	14	20	21
110°	14	14	13	11	10	12	10	14	11	16	15



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	10	9	8	8	7	7	6	7	8	10	10
115°	8	8	6	6	5	5	3	4	6	7	8
117.5°	6	6	5	5	4	3	2	3	5	6	6
120°	5	5	4	4	3	2	1	2	4	4	5
122.5°	4	4	3	3	2	1	0	1	2	4	4
125°	4	4	3	2	2	1	0	0	2	3	3
127.5°	3	3	2	2	1	0	0	0	1	3	3
130°	3	3	2	2	1	0	0	0	1	2	3
132.5°	3	3	2	1	1	0	0	0	1	2	2
135°	2	2	1	1	1	0	0	0	1	2	2
137.5°	2	2	1	1	0	0	0	0	1	2	2
140°	2	2	1	1	0	0	0	0	1	1	2
142.5°	2	2	1	1	0	0	0	0	1	1	2
145°	2	2	1	1	0	0	0	0	1	1	2
147.5°	2	2	1	1	0	0	0	0	1	1	2
150°	2	2	1	1	0	0	0	0	1	1	2
152.5°	2	2	1	1	0	0	0	0	1	1	2
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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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11	11	11	11	11	11	11	11	11	11
2.5°	13	12	12	11	10	10	10	9	9	9
5°	64	69	67	63	57	47	38	32	29	28
7.5°	137	142	138	130	121	121	124	116	118	115
10°	200	189	176	151	153	144	160	191	213	219
12.5°	196	159	164	178	164	152	172	189	207	206
15°	143	151	152	142	144	130	144	143	134	144
17.5°	106	124	108	115	109	108	108	102	81	85
20°	107	113	102	100	104	106	112	101	74	74
22.5°	407	387	196	198	330	265	262	330	303	312
25°	521	526	284	283	464	335	359	502	527	503
27.5°	668	659	628	395	613	405	607	671	703	664
30°	772	739	801	467	737	485	724	718	785	767
32.5°	886	795	925	548	825	534	816	788	897	879
35°	988	872	1041	630	933	623	908	842	990	998
37.5°	1147	940	1121	747	1048	701	998	935	1093	1101
40°	1417	1081	1294	965	1186	837	1176	1109	1266	1246
42.5°	1993	1417	1697	1406	1596	1208	1625	1432	1672	1581
45°	2914	1861	2316	1957	2306	1830	2314	2055	2378	2155
47.5°	3935	2351	3148	2630	3057	2589	3123	2886	3169	2982
50°	4836	2760	3799	3195	3664	3239	3761	3646	3771	3746
52.5°	5329	3155	3963	3606	3933	3883	4169	4157	4232	4473
55°	5433	3359	3714	3731	3816	4243	4237	4454	4490	4935
57.5°	5173	3200	3200	3528	3552	4113	4027	4382	4403	5076
60°	4656	2829	2630	3159	3140	3686	3556	3980	3984	4749
62.5°	4011	2383	2113	2677	2616	3068	2849	3375	3379	4065
65°	3357	1897	1559	2017	2025	2408	2112	2624	2661	3074
67.5°	2493	1358	1038	1335	1338	1649	1436	1793	1690	2019
70°	1427	741	567	653	628	818	722	934	864	1086
72.5°	531	384	312	327	309	377	411	483	514	586
75°	229	222	193	190	160	207	250	306	347	374
77.5°	144	134	128	118	109	134	166	213	241	247
80°	99	92	96	84	93	95	113	152	172	171
82.5°	77	71	78	68	78	69	81	110	117	119
85°	62	57	61	56	52	49	61	71	71	73
87.5°	41	44	38	39	38	36	40	42	40	39
90°	34	37	34	35	32	32	35	36	34	35
92.5°	33	36	31	33	30	32	34	35	32	34
95°	32	37	31	32	29	31	31	33	31	33
97.5°	31	36	29	29	26	28	28	31	28	29
100°	28	31	26	25	22	24	25	27	24	25
102.5°	24	27	23	22	19	21	22	24	20	21
105°	22	24	21	20	17	18	20	21	18	19
107.5°	20	23	20	17	15	15	18	18	15	16
110°	16	18	14	13	11	11	13	12	10	10



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	10	11	9	8	7	7	8	7	6	6
115°	9	9	7	7	6	6	6	5	5	4
117.5°	7	7	6	6	6	5	5	4	3	3
120°	6	6	5	5	5	3	4	3	2	2
122.5°	5	5	4	4	3	3	3	2	1	1
125°	4	4	3	3	3	2	2	1	0	0
127.5°	3	3	3	3	2	1	2	1	0	0
130°	3	3	2	2	1	1	1	0	0	0
132.5°	2	2	2	2	1	0	1	0	0	0
135°	2	2	2	1	0	0	0	0	0	0
137.5°	2	2	1	1	0	0	0	0	0	0
140°	2	2	1	1	0	0	0	0	0	0
142.5°	2	2	1	1	0	0	1	0	0	0
145°	2	2	1	1	0	0	1	0	0	0
147.5°	2	2	1	1	0	0	1	0	0	0
150°	2	2	1	1	0	0	1	0	0	0
152.5°	2	2	1	1	0	0	1	0	0	0
155°	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	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)