

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: H39497

Luminaire Tested: **ACN10SXX3C1XXC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H39497
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN10SXX3C1XXC
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
LU100/U 100 WATTS
Ballast/Driver: -

Summary

Lumens per Lamp: 9500 (1 lamp)
Luminaire Lumens: 5570.7 lumens
Efficiency: 58.6%
Efficacy: 55.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B2 - U2 - G1

Input Watts (W): 100
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

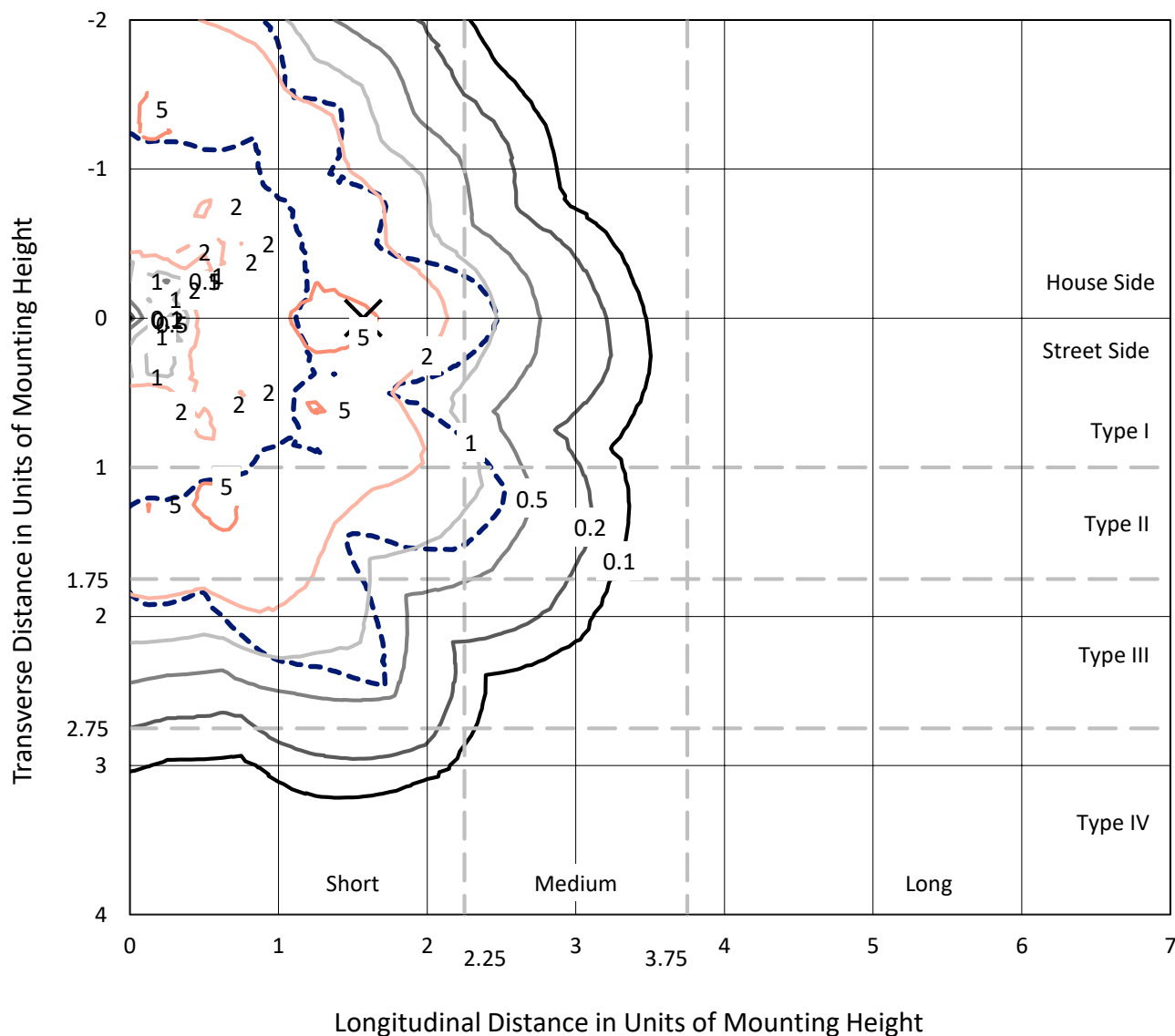


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

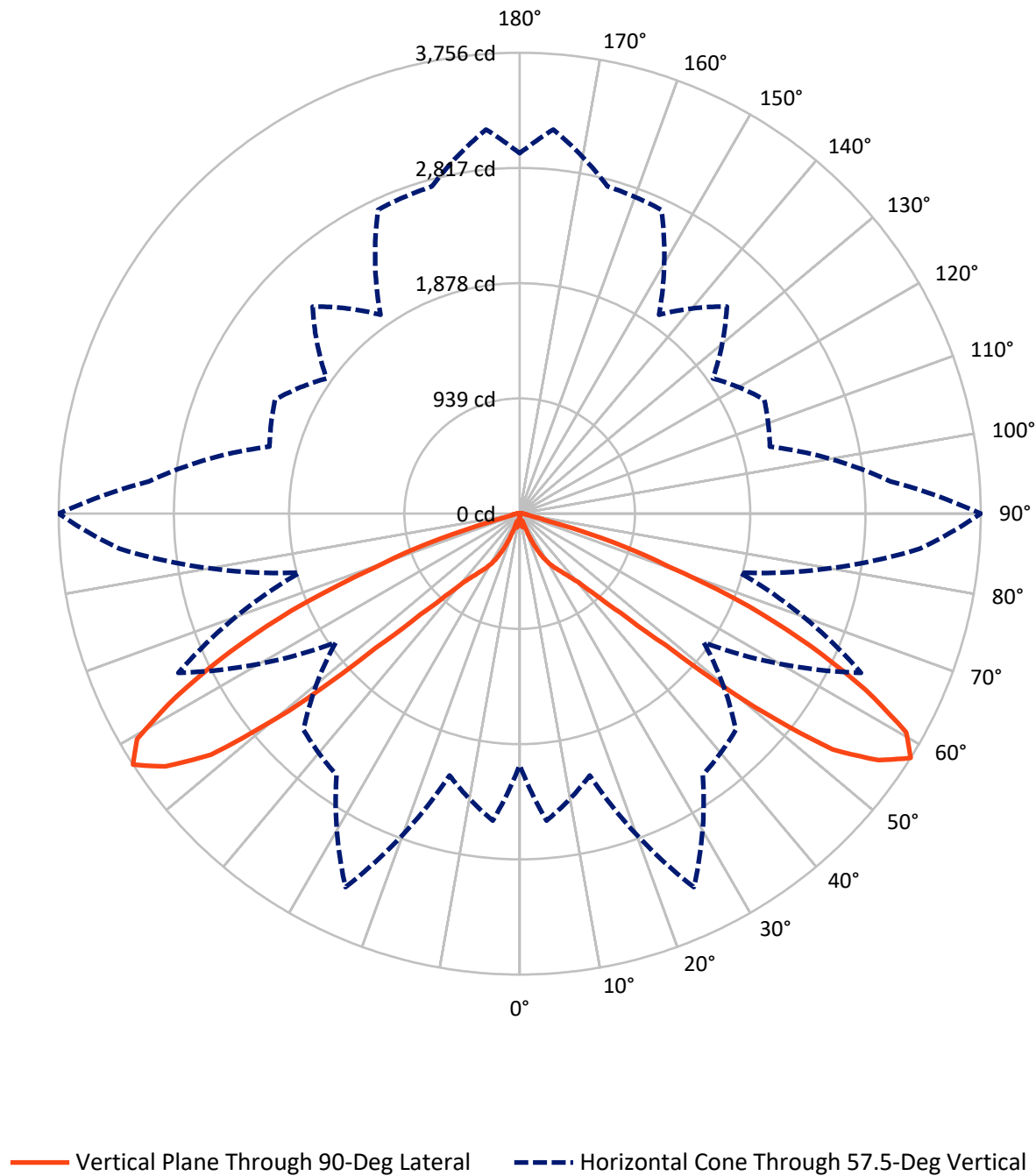


Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



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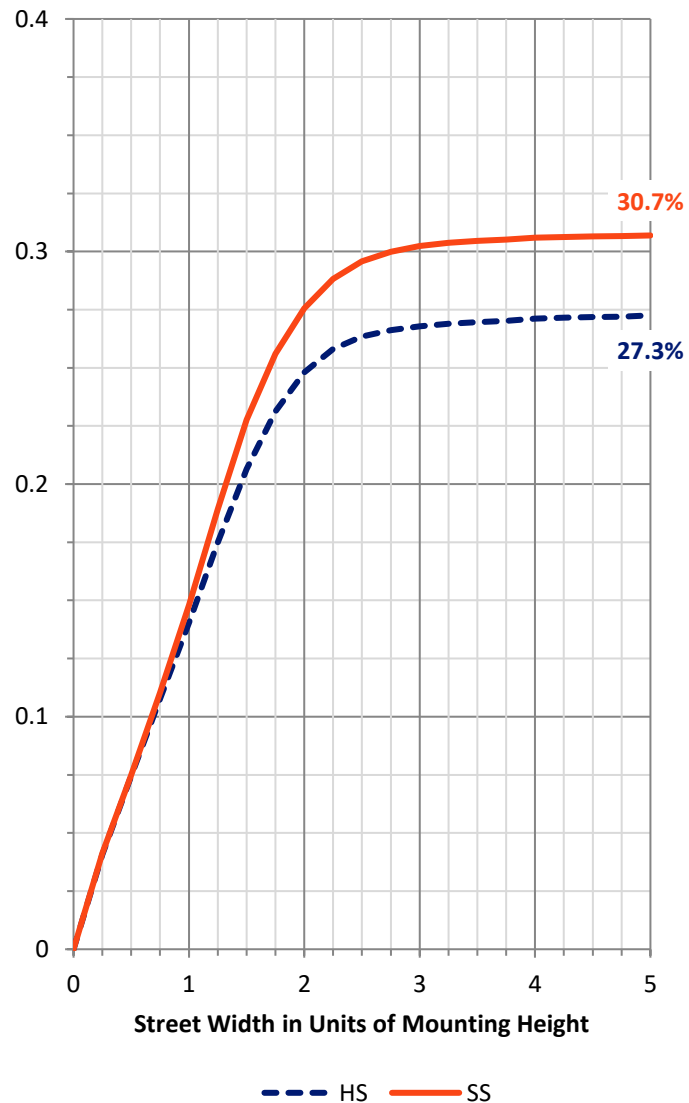
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2600.8	20.7	2621.5
	% Lamp	27.4	0.2	27.6
Street Side	Lumens	2926.9	22.4	2949.2
	% Lamp	30.8	0.2	31.0
Total	Lumens	5527.6	43.1	5570.7
	% Lamp	58.2	0.5	58.6

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	5.8	0.1	0.1
10°-20°	26.3	0.5	0.3
20°-30°	121.1	2.2	1.3
30°-40°	317.0	5.7	3.3
40°-50°	757.3	13.6	8.0
50°-60°	2050.7	36.8	21.6
60°-70°	1821.5	32.7	19.2
70°-80°	383.0	6.9	4.0
80°-90°	45.1	0.8	0.5
90°-100°	21.3	0.4	0.2
100°-110°	13.1	0.2	0.1
110°-120°	5.2	0.1	0.1
120°-130°	2.0	0.0	0.0
130°-140°	0.9	0.0	0.0
140°-150°	0.6	0.0	0.0
150°-160°	0.2	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	5527.6	99.2	58.2
0°-180°	5570.7	100.0	58.6

Coefficient of Utilization



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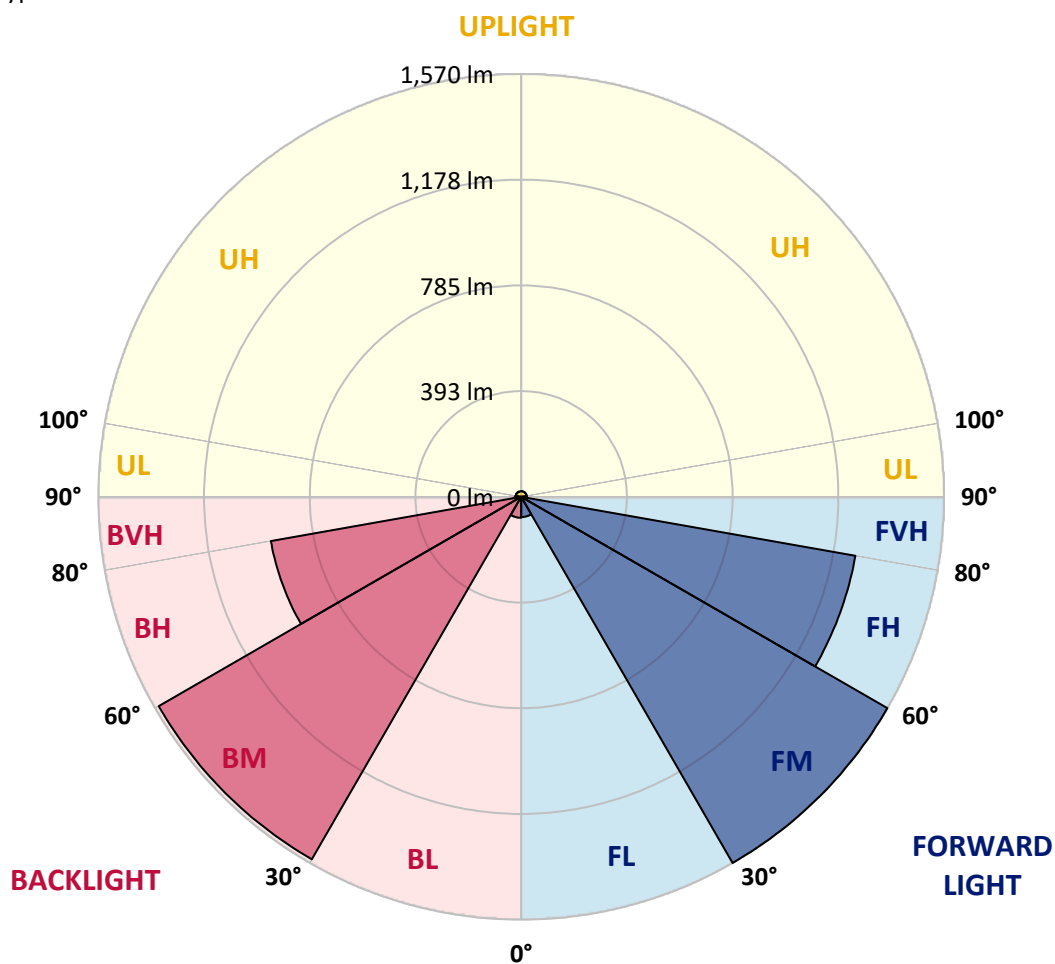
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	75.1	0.8			
FM	(30°-60°)	1570.4	16.5			
FH	(60°-80°)	1260.3	13.3			G1/1800
FVH	(80°-90°)	21.0	0.2			G1/100
BL	(0°-30°)	78.0	0.8	B0/110		
BM	(30°-60°)	1554.6	16.4	B2/2500		
BH	(60°-80°)	944.1	9.9	B2/1000		G1/1800
BVH	(80°-90°)	24.0	0.3			G1/100
UL	(90°-100°)	21.3	0.2		U2/50	
UH	(100°-180°)	20.7	0.2		U2/50	
Trapped Light		3929.3	41.4			

BUG Rating: B2-U2-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8	8	8	8	8	8	8	8	8	8	8
2.5°	10	10	9	9	9	8	7	7	7	7	7
5°	23	19	23	21	18	12	15	21	28	35	36
7.5°	95	94	87	82	75	72	68	65	67	74	76
10°	96	99	121	131	153	152	142	116	111	104	104
12.5°	137	134	145	153	151	158	141	145	139	121	113
15°	132	131	118	114	120	98	109	99	115	100	89
17.5°	91	92	85	89	91	69	76	67	70	74	71
20°	73	72	68	72	73	63	63	55	54	62	64
22.5°	164	176	152	155	76	69	140	188	194	208	208
25°	288	285	282	269	83	69	267	286	286	297	312
27.5°	425	410	408	362	83	188	345	392	369	373	398
30°	476	500	469	451	89	468	400	465	455	450	468
32.5°	542	538	515	479	114	534	400	519	507	481	524
35°	598	620	565	547	142	589	398	564	554	527	577
37.5°	633	634	605	565	192	623	408	608	595	583	643
40°	692	717	683	627	236	667	398	687	676	663	733
42.5°	772	778	750	721	334	740	444	788	770	811	898
45°	990	985	934	927	523	894	527	968	952	1003	1150
47.5°	1200	1219	1137	1168	837	1097	713	1215	1112	1407	1600
50°	1614	1786	1564	1827	1318	1574	1120	1759	1467	2138	2471
52.5°	2011	2314	1989	2594	1901	2100	1582	2406	1768	2789	3192
55°	2133	2555	2192	3073	2301	2443	1754	2847	1828	3123	3546
57.5°	2049	2511	2208	3358	2601	2491	1829	3069	1857	3274	3756
60°	1947	2248	2046	3274	2710	2412	2008	3079	1777	3080	3618
62.5°	1782	1914	1811	3168	2681	2152	2164	3006	1640	2672	3161
65°	1433	1426	1455	2866	2596	1697	2320	2931	1447	2228	2611
67.5°	957	855	958	2299	2655	1412	2244	2663	1095	1744	2015
70°	498	394	440	1359	2284	951	1803	1976	698	1217	1283
72.5°	257	236	273	852	1627	590	1264	1337	488	885	795
75°	168	177	182	341	503	221	551	451	292	287	227
77.5°	79	78	79	99	220	87	149	112	102	111	106
80°	50	53	51	56	78	53	75	76	65	71	68
82.5°	39	41	39	42	37	36	46	55	48	56	55
85°	39	39	36	34	29	31	34	39	41	44	42
87.5°	35	35	30	28	24	27	27	33	33	31	29
90°	27	27	25	22	19	21	24	27	27	26	23
92.5°	25	25	25	20	18	17	22	24	24	23	22
95°	24	25	25	20	17	15	20	24	23	22	21
97.5°	23	24	24	19	16	13	15	21	20	19	19
100°	21	21	21	17	14	13	11	18	17	17	17
102.5°	18	18	18	14	12	12	9	15	15	15	15
105°	17	17	15	13	11	11	8	13	13	14	13
107.5°	15	15	13	12	9	10	6	12	12	13	12
110°	14	13	12	10	8	9	5	11	10	10	9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	8	8	8	7	6	6	4	6	7	7	7
115°	6	6	6	6	5	4	3	4	5	5	5
117.5°	5	5	5	5	4	3	2	3	4	4	4
120°	4	4	4	4	3	2	2	2	3	3	3
122.5°	3	3	3	3	3	2	1	2	3	3	3
125°	3	3	3	3	2	1	1	1	2	2	2
127.5°	2	2	2	2	2	1	0	1	1	2	2
130°	2	2	2	2	2	1	0	0	1	2	2
132.5°	2	1	1	2	2	1	0	0	1	1	1
135°	1	1	1	1	1	1	0	0	1	1	1
137.5°	1	1	1	1	1	1	0	0	1	1	1
140°	1	1	1	1	1	1	0	0	1	1	1
142.5°	1	1	1	1	1	1	0	0	1	1	1
145°	1	1	1	1	1	1	0	0	1	1	1
147.5°	1	1	1	1	1	1	0	0	1	1	1
150°	1	1	1	1	1	1	0	0	1	1	1
152.5°	1	1	1	1	1	1	0	0	1	1	1
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°	8	8	8	8	8	8	8	8	8	8
2.5°	7	7	8	8	7	7	7	6	6	6
5°	38	37	29	28	32	32	30	29	30	30
7.5°	75	68	65	65	69	77	76	71	60	58
10°	103	98	93	92	106	123	137	117	100	93
12.5°	111	116	113	110	111	109	98	97	120	127
15°	90	96	96	95	98	82	83	74	92	99
17.5°	70	69	70	70	68	66	53	52	55	58
20°	60	60	58	57	52	60	53	51	51	50
22.5°	214	234	234	77	64	191	261	281	307	311
25°	317	336	323	99	70	249	336	350	339	374
27.5°	395	402	411	103	356	267	399	412	423	443
30°	456	464	470	111	450	294	458	468	453	490
32.5°	528	509	525	143	501	320	506	527	547	570
35°	596	579	571	189	545	325	554	577	586	598
37.5°	684	628	605	246	595	343	538	628	628	647
40°	741	676	684	316	684	356	609	701	710	725
42.5°	846	816	804	469	791	402	749	829	819	856
45°	1058	981	983	681	986	508	928	990	1015	1026
47.5°	1364	1234	1233	1033	1225	787	1171	1276	1326	1256
50°	1859	1709	1639	1534	1626	1219	1640	1741	1893	1705
52.5°	2363	2149	1959	1906	1997	1545	2154	2141	2446	2064
55°	2755	2235	2145	2006	2205	1763	2469	2421	2809	2378
57.5°	3030	2110	2199	1921	2386	1978	2732	2761	3142	2936
60°	2983	1813	2107	1722	2382	1969	2787	2870	3263	3249
62.5°	2761	1465	1853	1446	2050	1689	2511	2651	3020	3170
65°	2352	1183	1492	1033	1507	1292	1995	2134	2415	2610
67.5°	1801	818	1028	736	1035	909	1240	1373	1532	1731
70°	1099	418	563	420	539	522	550	686	781	892
72.5°	618	260	284	247	265	283	293	340	415	472
75°	169	147	153	131	141	157	183	226	281	309
77.5°	93	89	90	79	83	94	122	164	198	214
80°	66	64	72	56	50	69	89	113	133	141
82.5°	54	51	59	43	34	49	64	77	91	97
85°	43	39	45	37	26	35	39	52	61	63
87.5°	28	29	29	24	21	22	24	28	30	31
90°	23	24	23	21	18	18	19	22	22	23
92.5°	22	23	22	19	16	16	17	19	21	21
95°	22	23	22	17	15	15	17	18	21	22
97.5°	20	21	20	15	14	14	15	17	19	21
100°	17	19	17	13	13	12	13	14	15	17
102.5°	15	16	15	12	12	10	11	13	13	15
105°	13	14	14	10	11	8	10	11	12	14
107.5°	12	13	14	9	11	7	10	10	12	13
110°	10	10	11	7	9	6	7	7	9	10



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	7	7	7	6	6	5	5	5	4	4
115°	5	6	6	5	5	4	4	4	3	3
117.5°	4	5	5	4	4	3	3	3	2	2
120°	4	4	4	4	3	3	3	2	1	1
122.5°	3	4	4	3	3	3	2	2	1	1
125°	3	3	3	3	3	2	2	1	0	1
127.5°	2	3	3	3	2	2	2	1	0	0
130°	2	2	2	2	2	2	1	1	0	0
132.5°	2	2	2	2	2	1	1	1	0	0
135°	2	2	2	2	2	1	1	0	0	0
137.5°	1	2	2	2	1	1	1	0	0	0
140°	1	2	2	2	1	1	1	0	0	0
142.5°	1	1	2	2	1	1	1	0	0	0
145°	1	2	2	2	2	1	1	0	0	0
147.5°	1	1	2	2	1	1	1	0	0	0
150°	1	1	2	2	1	1	1	0	0	0
152.5°	1	1	2	2	1	1	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)